



2024 STORMWATER MANAGEMENT PROGRAM (SWMP) PLAN

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2024

STORMWATER MANAGEMENT
PROGRAM (SWMP) PLAN

City of Shoreline
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1 Introduction

1.1 The NPDES Program

The National Pollutant Discharge Elimination System (NPDES) is a program created under the Federal Clean Water Act, with authority over NPDES Permits within Washington State given to the Washington State Department of Ecology (Ecology). Ecology issues Permits to governmental and private entities. The intent of the NPDES program is to protect and restore water quality in lakes and streams so that they can support “beneficial uses” such as fishing and swimming. Governmental and private entities wishing to discharge water or wastewater to surface waters regulated by the Federal Government (“waters of the state”) must obtain permits and comply with the conditions of the permit.

1.2 The Western Washington Phase II Municipal Stormwater Permit

The City of Shoreline (City) has been operating under a Western Washington Phase II Municipal Stormwater Permit (Permit) since 2007. The current Permit covers the period from August 1, 2019, to July 31, 2024. The Permit allows a municipality to discharge stormwater from a municipal separate storm sewer system (MS4) into receiving “waters of the state,” if they implement programs to reduce pollutants in stormwater to the maximum extent practicable (MEP), apply all known and reasonable technologies (AKART) to address stormwater pollutants, and protect receiving waters from degradation. The Department of Ecology has released a draft 2024-2029 Western Washington Phase II NPDES Permit available online at:

<https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Stormwater-general-permits/Municipal-stormwater-general-permits/Western-Washington-Phase-II-Municipal-Stormwater>

The City has submitted an Notice of Intent to reapply for coverage under the upcoming permit and plans to comply with all requirements in the final version, expected to be released in July 2024.

1.3 Purpose of the Stormwater Management Program Plan

This document is the City of Shoreline’s 2024 Stormwater Management Program (SWMP) Plan. The purpose of the document is to comply with requirements of the *Western Washington Phase II Municipal Stormwater Permit* (Permit). Specifically, under Section 5.C of the Permit, the City of Shoreline must prepare the SWMP Plan to inform the public of the planned SWMP activities for the upcoming calendar year. This SWMP Plan covers the period between January 1, 2024, and December 31, 2024, and will be posted as required on the City’s website by May 31, 2024.

This SWMP Plan follows the organization of Section 5.C of the 2019-2024 Permit, and is broken into the eight elements of the Permit:

- S5.C.1, Stormwater Planning
- S5.C.2, Public Education and Outreach
- S5.C.3, Public Involvement and Participation
- S5.C.4, MS4 Mapping and Documentation
- S5.C.5, Illicit Discharge Detection and Elimination
- S5.C.6, Controlling Runoff from New Development, Redevelopment & Construction Sites
- S5.C.7, Operations and Maintenance

- S5.C.8, Source Control Program for Existing Development

Coverage of Section 7, Compliance with Total Maximum Daily Load Requirements, and Section 8, Monitoring and Assessment, is also included in this document.

The Permit requires the City to submit an Annual Report by March 31 of each year that details actions taken in the previous year to achieve compliance. The full text of the Permit is available at: www.shorelinewa.gov/stormwaterpermit.

1.4 City Coordination and Responsibilities

The City’s Surface Water Utility (Utility) in the Public Works Department holds the primary responsibility for developing and implementing the City’s stormwater management programs and tracking Permit requirements. Permit conditions require internal coordination and documentation of activities across several City work groups and departments. In 2024, Utility staff will coordinate City-wide efforts to ensure that on-going and planned activities meet Permit requirements. Activities required for Permit compliance will be carried out largely by the Public Works department, with support from Planning and Community Development, City Manager’s Office, and Administrative Services departments (Table 1). The City’s Police department is operated internally under a separate organizational structure and the Shoreline Fire Department is a separate entity external to the City; both Fire and Police departments will be involved with Permit compliance to a lesser extent. Internal coordination between the City departments occurs regularly as issues arise and through other topic-oriented meetings.

TABLE 1. CITY ORGANIZATIONAL RESPONSIBILITIES FOR THE NPDES PROGRAM

City Department – Work Group	NPDES Responsibilities
Public Works – Surface Water Utility	Administers, develops, and coordinates the NPDES program within the City and other NPDES jurisdictions, including: <ul style="list-style-type: none"> ○ Stormwater Planning ○ Public Education and Outreach and Involvement ○ Illicit Discharge Detection and Elimination ○ Stormwater incident response ○ Private facility inspections ○ Inspection & maintenance of City stormwater facilities ○ Pollution prevention practices/source control ○ Municipal staff training ○ Permit-required reporting, including Annual Report
Public Works – Streets Maintenance	Maintenance of City owned or operated stormwater facilities; pollution prevention practices; stormwater incident response
Public Works – Grounds Maintenance	Maintenance of City owned or operated stormwater facilities; pollution prevention practices
Public Works – Engineering Division	Conducts stormwater site plan review; implements surface water capital program; develops and maintains stormwater standards for redevelopment and other new construction (via the Engineering Design Manual (EDM)); conducts construction stormwater inspections (in ROW)

Planning & Community Development	Permit Center is first point of contact for new or redevelopment projects and distributes Notice of Intent; conducts construction stormwater site inspections
City Manager’s Office – Customer Response Team	Stormwater incident response; code enforcement for stormwater violations
City Manager’s Office – City Attorney’s Office	Assisting with surface water code implementation; liability management.
Administrative Services – Information Services	Maintains and updates map of the municipal separate storm sewer system (MS4)
Administrative Services – Parks, Facilities, and Fleet	Maintenance of City owned stormwater facilities; pollution prevention practices
Police and Fire Departments	First responder to stormwater incident if called

1.5 The Surface Water Management Utility – Other Activities

This SWMP Plan details planned activities that fall under the purview of the Permit and does not address all activities and programs implemented by the City to address stormwater runoff issues. Stormwater management is one part of the City’s overall surface water management strategy. The Surface Water Utility conducts a suite of programs that reduce flooding, protect and improve water quality, and protect and restore aquatic habitat in the City’s streams and lakes. Although not directly Permit-required, flood reduction and aquatic habitat restoration efforts can often further stormwater management goals under the Permit. City staff are working with a consultant team to update the City’s Surface Water Master Plan and identify, prioritize, and plan for surface water management needs within the City, including compliance with the upcoming 2024-2029 Phase II NPDES Permit. The current Surface Water Master Plan update process is nearing the halfway point and scheduled for completion by the end of 2024, with a implementation period through 2030. In developing the Surface Water Master Plan, the Surface Water Utility is undertaking an intensive public outreach campaign that to date has included an online survey posted in the five most common languages within the City and four focus group sessions for feedback from overburdened and underrepresented communities.

For details on Surface Water Utility activities, see the City website at:

<http://www.shorelinewa.gov/surfacewater>.

1.6 Permit Implementation Timing

The Permit allows for phased implementation of stormwater management programs and actions. Table 2 provides a Permit implementation schedule and due dates for the full term of the current Permit from 2019 through 2024. Permit requirements with deadlines between 2019 and 2024 were completed on time and are highlighted green. The City will continue to implement ongoing activities throughout the remainder of the current Permit term. As we transition to a new permit effective August 1, 2024, the City *has complied with all 2019-2024 requirements upon posting of this SWMP, with no new requirements which apply prior to permit expiration.* The City will develop a new stormwater management program implementation table aligned with the requirements and deadlines outlined in the final 2024-2029 Phase II Western Washington NPDES Permit.

TABLE 2. STORMWATER MANAGEMENT PROGRAM IMPLEMENTATION TIMELINE

Permit Section	Permit Requirements	Permit Deadlines					
		2019	2020	2021	2022	2023	2024
S4	Compliance with Standards						
S4.F	Response to violations of Water Quality Standards	Notification and possible adaptive management may occur at any time.					
S5.A	Stormwater Management Program Plan						
	Update SWMP Annually		3/31/2020	3/31/2021	3/31/2022	3/31/2023	3/31/2024
	Continue to track SWMP costs	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
	Continue to coordinate internally and externally	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
S5.C.1	Stormwater Planning						
	Convene inter-disciplinary team		8/1/2020				
	Respond to Annual Report questions for 2013-2019 permit cycle			3/31/2020			
	Respond to Annual Report questions for current permit cycle					3/31/2023	

Permit Section	Permit Requirements	Permit Deadlines					
		2019	2020	2021	2022	2023	2024
	Assess barriers to LID-implementation		3/31/2020	3/31/2021	3/31/2022	3/31/2023	3/31/2024
	Complete Receiving Water Assessment				3/31/2022		
	Complete Receiving Water Prioritization				6/30/2022		
	Develop Stormwater Management Action Plan					3/31/2023	
S5.C.2	Public Education and Outreach						
	Continue to build general awareness each year for at least one target audience and one subject area	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
	Evaluate existing behavior change program		7/1/2020				

Permit Section	Permit Requirements	Permit Deadlines					
		2019	2020	2021	2022	2023	2024
	Based on evaluation, use social marketing practices to further develop behavior change program strategy			2/1/2021			
	Begin to implement behavior change program strategy			4/1/2021			
	Evaluate and report on the behavior change program						3/31/2024
	Continue to provide stewardship opportunities	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
S5.C.3	Public Involvement and Participation						
	Provide opportunities to participate in SMAP and SWMP development	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing

Permit Section	Permit Requirements	Permit Deadlines					
		2019	2020	2021	2022	2023	2024
	Post Annual Report and SWMP Plan on Shoreline's website		5/31/2020	5/31/2021	5/31/2022	5/31/2023	5/31/2024
S5.C.4	MS4 Mapping and Documentation						
	Continue GIS-based mapping program	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
	Begin collecting size and materials for all known MS4 outfalls		1/1/2020				
	Complete mapping of all known connections from MS4 to private systems					8/1/2023	
	Electronic mapping format with fully described mapping standards			8/1/2021			
S5.C.5	Illicit Discharge Detection and Elimination (IDDE)						

Permit Section	Permit Requirements	Permit Deadlines					
		2019	2020	2021	2022	2023	2024
	Continue to implement ongoing program to address illicit discharges, spills, and connections into the MS4	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
	Field screen 12% of MS4 each year		12/31/2020	12/31/2021	12/31/2022	12/31/2023	12/31/2024
	Submit IDDE data in Annual Report per Appendix 12		3/31/2020	3/31/2021	3/31/2022	3/31/2023	3/31/2024
S5.C.6	Controlling Runoff from New Development, Redevelopment and Construction Sites						
	Continue to implement and document program for construction/post construction runoff controls	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing

Permit Section	Permit Requirements	Permit Deadlines					
		2019	2020	2021	2022	2023	2024
	Adopt Appendix 1 equivalent, i.e. Ecology's 2019 SWMMWW				6/30/2022		
S5.C.7	Operations and Maintenance						
	Continue to implement and document program to regulate and conduct maintenance activities	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
	Update maintenance standards as protective as 2019 SWMMWW. Develop own standards that are not in SWMMWW				6/30/2022		

Permit Section	Permit Requirements	Permit Deadlines					
		2019	2020	2021	2022	2023	2024
	Document practices, policies, and procedures to reduce stormwater impacts from all lands owned/maintained by permittee				#####		
	Update SWPPP for heavy equipment maintenance or storage yards, if necessary				#####		
S5.C.8	Source Control Program for Existing Development						
	Adopt and implement code/ordinance that requires pollution prevention source control BMPs for pollution generating activities/lands				8/1/2022		

Permit Section	Permit Requirements	Permit Deadlines					
		2019	2020	2021	2022	2023	2024
S8.A	Establish an inventory of sites that have the potential to generate pollutants to the municipal stormwater system				8/1/2022	Ongoing	Ongoing
	Implement inspection program for sites on the inventory.					1/1/2023	Ongoing
	Annually inspect 20% of sites on the inventory.					#####	Ongoing
	Implement a progressive enforcement policy to require compliance					1/1/2023	Ongoing
	Train staff; document trainings					Ongoing	Ongoing
S8.A	Regional Status and Trends Monitoring						

Permit Section	Permit Requirements	Permit Deadlines					
		2019	2020	2021	2022	2023	2024
	One-time payment to implement regional small streams and marine nearshore areas status and trends monitoring in Puget Sound	12/1/2019					
	Notify Ecology which option for regional status and trends monitoring is chosen	12/1/2019					
	Annual payment to implement regional small streams and marine nearshore areas status and trends monitoring in Puget Sound		8/15/2020	8/15/2021	8/15/2022	8/15/2023	

Permit Section	Permit Requirements	Permit Deadlines					
		2019	2020	2021	2022	2023	2024
S8.B	Stormwater Management Program (SWMP) Effectiveness and Source Identification Studies						
	One-time payment to implement effectiveness and source identification studies	12/1/2019					
	Notify Ecology which option for effectiveness and source identification studies is chosen	12/1/2019					
	Annual payment to implement effectiveness and source identification studies		8/15/2020	8/15/2021	8/15/2022	8/15/2023	
S9.	Reporting Requirements						
	Submit annual report of previous year's activities.		3/31/2020	3/31/2021	3/31/2022	3/31/2023	3/31/2024
G3	Notification of Discharge, Including Spills						
	Notify Ecology within 24 hours any discharge into or from the MS4 which could constitute a threat to human health, welfare, or the environment	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
G18	Duty to Reapply						
	Apply for permit renewal at least 180 days prior to expiration						2/2/2024
G20	Non-Compliance Notification						

Permit Section	Permit Requirements	Permit Deadlines					
		2019	2020	2021	2022	2023	2024
	Notify Ecology within 30 days of becoming aware of permit non-compliance	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing

2 Stormwater Planning (S5.C.1)

2.1 Permit Requirements

Section S5.C.1 of the Permit requires the City to implement a Stormwater Planning program to inform and assist in the development of policies and strategies as water quality management tools to protect receiving waters. The specific requirements are:

- Convene an inter-disciplinary team to inform and assist in the development, progress, and influence of the Stormwater Planning program.
- Coordinate with long-range plan updates. Describe how stormwater management needs and protection/improvement of receiving water health are (or are not) informing the planning update processes and influencing policies and implementation strategies.
- Continue to require Low Impact Development (LID) principles and LID best management practices (BMPs) and annually assess and document any newly identified administrative or regulatory barriers to implementation of LID principles or BMPs.
- Implement Stormwater Management Action Planning:
 - Document and assess existing information related to local receiving waters and contributing area conditions to identify which receiving waters are most likely to benefit from stormwater management planning. Submit a watershed inventory and include a brief description of the relative conditions of the receiving waters and the contributing areas.
 - Develop and implement a prioritization method and process to determine which receiving waters will receive the most benefit from implementation of stormwater facility retrofits, tailored implementation of SWMP actions, and other land/development management actions.
 - Develop a Stormwater Management Action Plan (SMAP) for at least one high priority catchment.

2.2 Current and Planned Activities

Stormwater Planning is a permit requirement first introduced in the 2019-2024 Permit. The City had previously engaged in various stormwater planning efforts for many years (e.g., basin planning), and as required under the Permit will continue to conduct planning evaluations of a broad range of water quality tools to protect receiving waters. The City will also continue to require LID principles and BMPs when updating, revising, and developing new local development-related codes, rules, standards, or other enforceable documents.

2.2.1 S5.C.1.b Coordination with long-range plan updates

An inter-disciplinary team will identify how stormwater impacts on water quality are addressed in the City's Comprehensive Plan and in other locally initiated or state-mandated long-range land use plans that are used to accommodate growth or transportation during the 2019-2024 permit term. In 2022, the City began to charter and develop an update to the City's Comprehensive Plan; this effort is continuing into 2024 and has included coordination with the Surface Water Utility. The City comprehensive plan updates expand on the City's commitment to reduce vehicle trips and focus on best land-use practices which assist in improving receiving water conditions as development continues.

In 2023, the City also started a Surface Water Master Plan update which will provide a long term (6-year) plan to prioritize and budget all of the City's stormwater management programs including those related to Permit compliance. This plan is expected to be completed by 2024 and focus on a core planning period from 2025 through 2030.

2.2.2 S5.C.1.c Low impact development code-related requirements

The City will continue to require LID principles and BMPs when updating, revising, and developing the City's Engineering Design Manual (EDM) as well as new local development-related codes, rules, standards, or other enforceable documents. The City will also continue to assess any newly identified administrative or regulatory barriers to implementation of LID principles or BMPs during the annual review and update of the EDM.

2.2.3 S5.C.1.d Stormwater Management Action Planning

In 2021, the City executed a contract with a consultant to provide supporting professional services for the Stormwater Management Action Planning (SMAP). In 2022, the City and consultant team completed work on the receiving water assessment and receiving water prioritization on time for Permit deadlines. The City's team then developed the SMAP, completed by March 31, 2023, per Permit requirements. The process for completing the plan included additional meetings of an interdisciplinary team and cross-department coordination. Retrofit studies recommended by the SMAP are in the process of being incorporated into the 2024 City Surface Water Master Plan update.

3 Public Education and Outreach (S5.C.2)

3.1 Permit Requirements

Section S5.C.2 of the Permit requires the SWMP to include a stormwater education and outreach program designed to:

- Build general awareness about methods to address and reduce impacts from stormwater runoff.
- Effect behavior change to reduce or eliminate behaviors and practices that cause or contribute to adverse stormwater impacts.
- Create stewardship opportunities that encourages community engagement in addressing the impacts from stormwater runoff.

3.2 Current and Planned Activities

The City's Surface Water Utility has several programs in place to help residents and businesses understand stormwater pollution as a significant water quality concern. The City provides outreach to residents, schools, businesses, and government on ways to reduce actions that negatively impact our environment.

In addition to local programs and events, Shoreline is an active participant in regional education and outreach activities through Stormwater Outreach for Regional Municipalities (STORM) and Stormwater Outreach Group (SOG). Efforts of these groups include developing regional stormwater education campaigns and evaluation.

The City tracks education and outreach efforts, and formal tracking of the programs offered in 2023 can be found in attachment Q21_Q26_Public_Education_Supporting_Information.xlsx of the 2023 NPDES Annual Report. For the 2024 period, the City will continue to implement an education and outreach program designed to reduce or eliminate behaviors and practices that

cause or contribute to adverse stormwater impacts and encourage the public to participate in stewardship activities.

3.2.1 S5.C.2.a.i General Awareness

Table 3 (below) lists target audiences and behaviors that are currently being addressed by the City’s education and outreach general awareness programs. These programs fulfill the Permit requirement to build general awareness.

TABLE 3. EDUCATION AND OUTREACH GENERAL AWARENESS PROGRAMS

Item	Target Audience	Goal and/or Behaviors Promoted
Surface Water Utility Website	General Public; Businesses	Reduce contaminants entering the storm drain system through educational information accessible on the City’s website.
Surface Water Utility Annual Report	General Public	Raise awareness of stormwater impacts and ways residents can reduce these impacts, including proper pet waste disposal, fixing car leaks, proper car washing procedures, natural yard care, and low-impact development. Promotes stewardship programs. SWU Report is sent once annually to all SWM ratepaying customers.
Puget Sound Starts Here Month	General Public	Raise awareness of stormwater impacts and ways residents can reduce these impacts, including proper pet waste disposal, fixing car leaks, proper car washing procedures, and natural yard care.
Presentations on natural yard care	General Public; Land Owners; Contractors	Raise awareness of gardening practices that are beneficial to stormwater management and protective of our local waterways. Presentations are accessible on City website.
Pollution Prevention Program	Businesses	Work with businesses to develop practical methods of reducing or eliminating discharge of non-stormwater materials into the stormwater system.
”Salmon-Safe” pollution prevention column in the City’s monthly Currents news publication	General Public	Raise awareness of stormwater impacts and ways that citizens can reduce these impacts.

Item	Target Audience	Goal and/or Behaviors Promoted
Water Quality-focused education posts on Social Media (Facebook, Twitter)	General Public	Raise awareness of stormwater impacts and ways residents can reduce these impacts, including proper pet waste disposal, fixing car leaks, proper car washing procedures, natural yard care, hazardous waste disposal, and low-impact development. Will also promote stewardship programs, regional stormwater messaging, and local environmental events. On average, post 3 social media posts/month.
Park signage and pet waste stations encouraging people to pick up their pet waste (park rule or ordinance cited)	General Public; Dog Owners	Increase awareness of the importance of picking up pet waste.
Park signage and educational postcards discouraging waterfowl feeding to reduce fecal pollution in lakes and ponds	General Public; park goers	Increase awareness of impacts of waterfowl feeding on water quality.
SWM Fee Educational Waiver	K-12 Shoreline Public Schools Students	Increase awareness of water quality, stormwater impacts, and pollution prevention behaviors
Outreach table at city events	General public	Provide information on surface water programs to reduce pollution and protect waterways.
Communi-trees Program	General public, businesses, private property owners	Provide a free tree and workshop that teaches how to plant and care for tree.

3.2.2 S5.C.2.a.ii Behavior Change

In 2020, the City evaluated the effectiveness of the Soak It Up LID Rebate Program, the City's ongoing behavior change campaign. From this evaluation, the City opted to develop a strategy and schedule to more effectively implement the existing Soak It Up LID Rebate Program. This new strategy and schedule was implemented, starting in 2021 and continuing currently, with annual technical assistance workshops offered to help interested program participants site, design, construct, plant, and maintain Soak It Up rain gardens and native vegetation landscape beds. This strategy and schedule were established by February 1, 2021, as mandated by the NPDES Permit. Workshops began in February 2021, ahead of the April 1, 2021, Permit deadline. In 2023 the City evaluated the current program and included a report evaluating the effectiveness of the program and recommended changes with the 2023 Annual Report. The report is included

as an attachment to the 2023 NPDES Annual Report, Q25_Behavior_Change_Report.pdf. Additional details are provided in Table 4, below.

TABLE 4. BEHAVIOR CHANGE PROGRAMS

Item	Target Audience	Goal and/or Behaviors Promoted
Soak It Up Program	General Public; Land Owners; Businesses	Continue rebate program for rain garden retrofits and native vegetation landscaping to community residents and businesses.
Rain Garden and Native Landscaping Technical Assistance Workshops	General Public; Land Owners; Businesses	Education on the technical skills needed to install and maintain rain gardens and native vegetation landscapes are available on the City website and provided annually to those interested in the Soak It Up Program.

3.2.3 S5.C.2.a.iii Stewardship

The City will continue to offer its Storm Drain Marking, Adopt-A-Drain, Green Shoreline Partnership, and Environmental Mini-Grant programs in 2023.

- Citizens, community groups, and students can volunteer to mark storm drains with “No Dumping” medallions through the Storm Drain Marking program. Utility staff coordinate, track, and provide support for marking efforts.
- The Adopt-A-Drain Program is a volunteer-based opportunity for residents to help care for Shoreline’s utility infrastructure of 7,000+ storm drains. Volunteers are provided with instructions and tools (by request), to care for a storm drain or multiple drains on their street or walking route. Tasks include monitoring and removing debris from the storm drain(s) approximately once a week during the storm season (especially during peak leaf-dropping season) and tracking hours performed. The commitment term is for six months, October through March.
- The Green Shoreline Partnership is a city-wide community-based stewardship program that supports the long-term restoration and care of Shoreline’s parks and natural areas.
- The Environmental Mini-Grants supports environmental projects designed and implemented by community members. These projects that preserve, restore, and enhance the environment and benefit the community.

Additional details are provided in Table 5, below.

TABLE 5. EDUCATION AND OUTREACH STEWARDSHIP PROGRAMS

Item	Target Audience	Goal and/or Behaviors Promoted
Adopt-A-Drain Program	General Public; Businesses	Provides volunteer opportunities and education on how to protect and care for storm drains and water quality.
Storm Drain Marking (Medallions) Program	General Public; Businesses	Provides volunteer opportunities and education on storm drains and water quality protection.
Green Shoreline Partnership	General Public	Provides volunteer opportunities to restore natural areas of Shoreline
Environmental Mini Grant Program	General Public; Homeowners; Schools	Provides funding for community groups to implement projects that benefit the environment and community, such as riparian habitat restoration, ecosystems and stormwater education, natural yard care, and litter removal projects.

4 Public Involvement and Participation (S5.C.3)

4.1 Permit Requirements

Section S5.C.3 of the Permit requires the City to provide ongoing opportunities for the public to participate in the decision-making processes involving the development, implementation, and update of the City’s SWMP Plan and SMAP. The City is required to post the NPDES annual report, including the SWMP Plan, on the City’s website by May 31 each year.

4.2 Current and Planned Activities

The City of Shoreline values public input on its stormwater programs. The City will provide ongoing opportunities for public involvement and participation through a variety of avenues as described below.

4.2.1 S5.C.2.a-b Involving the Public in the SWMP Plan

This SWMP Plan and the NPDES annual report will be posted on the City’s website no later than May 31 of each year. Public comments can be made directly at:

<https://www.shorelinewa.gov/government/departments/public-works/surface-water-utility/get-involved/comment-on-stormwater-management>

In 2024, the Surface Water Utility will continue to engage with the public, including overburdened communities, to participate in developing the City’s Stormwater Management Program Plan .

TABLE 6. PUBLIC INVOLVEMENT AND PARTICIPATION PLANNED ACTIVITIES

Item	Description	Schedule
Revise SWMP Plan	The SWMP Plan outlines actions to be taken within the year to comply with the NPDES Permit. The SWMP Plan is open for public comment year-round.	Annually, by March 31 st
Post Annual Report on City website	The annual report is submitted to Department of Ecology by March 31 st each year. The final Report, including the SWMP Plan and other supplemental documentation if applicable, is posted on the City’s website.	Annually, by May 31 st
Public Involvement in the City’s SWMP Plan	The City encourages public comment on the SWMP Plan via website, email, or any other written form.	Ongoing

Other avenues for public input include:

- All Utility webpages (webpage count = 29) provide contact information for the most relevant City staff (based on webpage topics) – including staff name, title, email, and phone number. Utility staff frequently receive public input in this manner.

Some of the main Utility webpages include:

- [Surface Water Utility | City of Shoreline \(shorelinewa.gov\)](https://www.shorelinewa.gov/surface-water-utility)
- [Services | City of Shoreline \(shorelinewa.gov\)](https://www.shorelinewa.gov/services)
- [Projects | City of Shoreline \(shorelinewa.gov\)](https://www.shorelinewa.gov/projects)
- [Get Involved | City of Shoreline \(shorelinewa.gov\)](https://www.shorelinewa.gov/get-involved)
- [More Information | City of Shoreline \(shorelinewa.gov\)](https://www.shorelinewa.gov/more-information);

5 MS4 Mapping and Documentation (S5.C.4)

5.1 Permit Requirements

Section S5.C.4 of the Permit requires the SWMP to include an ongoing program for mapping and documenting the municipal separate storm sewer system (MS4). The program includes:

- Continued mapping of the MS4, including MS4 outfalls, discharge points, receiving waters (other than groundwater), stormwater treatment and flow control BMPs/facilities owned or operated by the City, tributary conveyances to all known outfalls and discharge points (24-inch diameter or larger), connections between other municipalities or public entities, and all connections authorized after February 16, 2007.
- New mapping requirements for the 2019 Permit include collecting data for size and material for all known MS4 outfalls (S5.C.4.b.i) as well as all known connections from the MS4 to privately-owned stormwater systems (S5.C.4.b.ii).

5.2 Current and Planned Activities

The City maintains and updates a GIS database that contains all known outfalls, receiving waters, stormwater facilities, and all known connections. Field verification of the mapped drainage system occurs through the City's inspection programs and basin planning efforts.

5.2.1 S5.C.4.a-e Ongoing and New Mapping

Standard procedures are in place for documenting new connections to the MS4, changes/alterations to the existing system, and changes based on field verification. Ongoing work in 2023 related to Permit requirements includes the following:

- Size and material of outfalls and pipes are collected as standard procedure, starting prior to January 1, 2020 (for compliance with S5.C.4.b.i), and continuing for all newly created assets.
- Prior to 2021, the City started mapping all known connections from the MS4 to privately-owned stormwater system (S5.C.4.b.ii); this work will continue throughout 2023, in preparation for the August 1, 2023 permit deadline.
- The City has already completed work prior to the August 21, 2021, deadline to fulfill the requirement for electronic (GIS) mapping of the MS4 with fully described mapping standards (S5.C.4.c).

Maps and GIS datasets are available for download from the City's website and are available in electronic format to Ecology and other entities upon request.

6 Illicit Discharge Detection and Elimination (S5.C.5)

6.1 Permit Requirements

Section S5.C.5 of the Permit requires the City to have an ongoing program designed to prevent, detect, characterize, trace and eliminate illicit connections and illicit discharges into the City's stormwater drainage system.

6.2 Current and Planned Activities

One of the largest threats to the City's receiving waters is illicit discharge. The City of Shoreline has an ongoing illicit discharge detection and elimination (IDDE) program to fulfill this requirement. The IDDE program has grown over the years and includes a variety of techniques and methods as described below.

6.2.1 S5.C.5.a-e Ongoing IDDE Program

Certain sections of Chapter 13.10 Surface Water Utility of the Shoreline Municipal Code (SMC) enable implementation of the City's IDDE Program.

In almost all cases, the City seeks voluntary compliance through education and outreach to the general public and technical assistance to business owners through the Local Source Control/Pollution Prevention program. The City will escalate its response as necessary to ensure compliance, utilizing the City's Code Enforcement Officer.

The City has developed and implemented an ongoing IDDE program to detect, respond to, and remove illicit discharges and connections to the City's MS4. The City responds to and investigates reports of illegal dumping, spills, illicit discharges, and illicit connections. The City also maintains a spill response hotline (206.801.2700) for citizens to call and report illicit discharges or spill complaints. The hotline is advertised on the City's website at:

<https://www.shorelinewa.gov/spillresponse/>

The City is required to screen an average of 12% of its stormwater system each year. The City will continue to fulfill this requirement through its inspection programs (right-of-way, stormwater facilities, and ditch) and stormwater infrastructure condition assessments.

6.2.2 S5.C.5.f Staff Training

In 2022, City all staff responsible for IDDE response and spill control attended an online and in-person field training on best practices and procedures. Going forward new staff will be trained on IDDE response and spill control procedures via an internal training program, and an internal refresher training when new requirements are available for the staff who have already attended an in-person training.

6.2.3 S5.C.5.g Recordkeeping

The City uses Cityworks, a Computerized Maintenance Management System (CMMS), to track efforts made in identifying, reducing, and eliminating spills, illicit discharges, and illicit connections. Cityworks meets the 2019-2024 Permit recordkeeping requirements. The City will enter data directly into Ecology's WebIDDE database and submit the report for Annual Reporting.

7 Controlling Runoff from New Development, Redevelopment, and Construction Sites (S5.C.6)

7.1 Permit Requirements

S5.C.6 of the Permit requires that the City implement and enforce a program to reduce pollutants in stormwater runoff from new development, redevelopment, and construction site activities. The program applies to private and public development, including transportation projects.

7.2 Current and Planned Activities

The City will continue to control pollutant loads and reduce peak flows from construction and development sites as described in the sections below.

7.2.1 S5.C.6.a-b Controlling Runoff from New Development, Redevelopment, and Construction Sites Ordinance/Regulatory Mechanism

Shoreline Municipal Code (SMC) 13.10.200 and the City of Shoreline's Engineering Development Manual (EDM) adopt the 2019 Stormwater Management Manual for Western Washington (2019 SWMMWW) and the Minimum Requirements (MR) found in Appendix 1 of the NPDES Phase II Permit. Division 3 of the EDM also addresses stormwater management as follows:

- Chapter 19 – Stormwater Manual Additional Requirements: Adopts more stringent requirements in addition to Ecology's 2019 SWMMWW for the City.
- Chapter 21 – Surface Water Project Classifications: Defines the minimum submittal requirements for the following project classifications:
 - Small Impact Projects (MR2 only)
 - Medium Impact Projects (MR1 through MR5)
 - Large Impact Projects (MR1 through MR9)

7.2.2 Chapter 22 – Construction Stormwater Pollution Prevention Plan (SWPPP): Defines the requirements for MR2 and requires a SWPPP for all developments. S5.C.6.c Review and Inspect Development/Redevelopment Projects

The City's current permitting process includes site plan review, site inspections, and enforcement mechanisms for compliance. The City's Site Development Permit Checklist currently includes the following stormwater requirements:

- Plan, details, and profile of drainage system
- Erosion control
- Surface water report
- Geotechnical or soils report
- Drainage system maintenance information or manual
- Declaration of (stormwater) covenant
- Stormwater Pollution Prevention Plan (SWPPP)

Construction (a.k.a. “Right-of-Way”) inspectors (Public Works Department) and Combination (a.k.a. “Building”) inspectors (Planning and Community Development Department) conduct the erosion control, runoff control, and BMP/facility inspections for public projects in the ROW, City CIP projects, and private building projects as required by S5.C.6.c.ii through v. The City utilizes ComDev (Community Development) software to document construction and development-related inspections to meet requirements of S5.C.6.c.vi through vii. In 2020, the City implemented process improvements to better meet the inspection and recordkeeping requirements of S5.C.6.c. As of 2022, the improved inspection and internal monitoring processes are in place; Surface Water Utility staff will monitor data and audit documentation for the inspections and meet on a monthly basis with inspector supervisors to discuss monthly monitoring results to ensure inspectors are correctly adhering to the City processes developed for Permit compliance, and to identify and coordinate on any potential additional process improvements. Further process improvements, including potential staffing additions, are currently being explored and evaluated under the Surface Water Master Plan update.

The City requires covenants for inspection and maintenance on all new stormwater facilities built to meet permit requirements enacted by Ordinance No. 768 – Shoreline Municipal Code 13.10, Surface Water Management Code, effective December 20, 2016. The City utilizes the maintenance standards in the *2019 SWMMWW*.

7.2.3 S5.C.6.d Notice of Intent (NOI)

The City will continue to direct representatives of proposed new development and redevelopment to the Washington State Department of Ecology for electronic NOI submittal when necessary. The EDM also describes when a NPDES Construction Stormwater General Permit is required and directs representative of proposed new development and redevelopment to Ecology’s website for applying for a NOI. In addition, permit checklists contain NOI information.

7.2.4 S5.C.6.e Staff Training

Staff responsible for inspecting construction, development, and redevelopment sites are Certified Erosion and Sediment Control Lead (CESCL) certified. Training will be kept up to date for employees involved in any aspect of planning, development, inspection, or enforcement of stormwater runoff controls.

8 Operations and Maintenance (S5.C.7)

8.1 Permit Requirements

The Permit requires the City to implement and document a program to regulate maintenance activities and to conduct maintenance activities to prevent or reduce stormwater impacts. The program includes:

- Implementing maintenance standards that are as protective, or more protective, than those in the SWMMWW.
- Maintenance of stormwater facilities regulated by the City.
- Maintenance of stormwater facilities owned or operated by the City.
- Implement practices, policies, and procedures to reduce stormwater impacts associated with runoff from all lands owned or maintained by the City.
- Implement a training program for staff addressing the importance of protecting water quality during operations.
- Implement a Stormwater Pollution Prevention Plan (SWPPP) for all heavy equipment maintenance or storage yards and material storage facilities owned or operated by the City.
- Track and maintain records of inspections and maintenance and repair activities.

8.2 Current and Planned Activities

The City of Shoreline currently operates its operation and maintenance (O&M) programs with the goal of reducing potential impacts to water quality. These programs use a variety of methods to meet that goal. In 2018, the Utility developed the City of Shoreline's Surface Water Operations and Maintenance Manual (O&M Manual) in accordance with the SWMMWW. The City adheres to the O&M Manual for all stormwater O&M activities. The Surface Water Utility implements a rigorous stormwater system inspection, maintenance, and cleaning program, which is described in the O&M Manual. The City inspects several hundred public and private stormwater facilities on a rotating inspection cycle, to assure facilities are maintained after construction is complete. Through this inspection program, the City strives to assure that stormwater facilities are functioning as designed.

All City departments adhere to Shoreline Municipal Code (SMC) 20.80.085 and the City's Integrated Pest Management Plan for use of pesticides, herbicides and fertilizers on City-owned property. Additionally, all City Maintenance Yards operate under a SWPPP and are regularly inspected to assure compliance with the SWPPP.

8.2.1 S5.C.7.a Maintenance Standards

The City uses the 2019 SWMMWW for maintenance standards as well as following the ESA Regional Roads Maintenance Program Guidelines. The Utility's O&M Manual is regularly reviewed and updated as needed to ensure it is accurate, completed, current, and in compliance with requirements.

8.2.2 S5.C.7.b Maintenance of Stormwater Facilities Regulated by the City

The City annually inspects all private stormwater facilities that were permitted and constructed in accordance with requirements adopted per the 2007-2012, 2013-2019, and 2019-2024 Permits to ensure that stormwater assets installed to comply with Permit requirements are maintained according to the maintenance standards per the respective covenant for each site. Beginning in

2009 with the creation of the Surface Water Utility, the City began utilizing a stormwater maintenance covenant as a mechanism to ensure Permit compliance related to inspection and maintenance of privately-owned stormwater facilities. Each covenant documents maintenance expectations and is based on the version of the SWMMWW which was adopted by the City at the time of permit issuance. The City uses Cityworks to track and document all private facility inspections and any corrective actions.

In 2020 the City of Shoreline implemented a new development requirement intended to require flow control for smaller-scale project sites that would not trigger flow control solely under SWMMWW requirements. Smaller-site flow control BMPs constructed under this new requirement began coming into operation in 2021. City staff have interpreted that flow control BMPs installed for such smaller scale sites that were required solely to satisfy the additional Shoreline requirement and not SWMMWW requirements are not subject to the Permit requirements for S5.C.7.b since they were not required under the City's adoption of the SWMMWW to satisfy the requirements of S5.C.6.b.ii. Accordingly, such BMPs are not included under those sites accounting for the Permit required annual facility inspections per Permit section S5.C.7.b.

8.2.3 S5.C.7.c Maintenance of stormwater facilities owned or operated by the Permittee

The City has established stormwater inspection programs designed to achieve a minimum of 95% of the annual inspections through the following programs (see Table 6):

- Right-of-Way Inspections: includes catch basins and ditches that transfer surface water runoff from City rights-of-way.
- Parks and Facilities Stormwater Inspections: involves inspection of all stormwater infrastructure on City-owned properties outside of public rights-of-way.
- Regional/Residential Facility Inspections: involves inspection of all City owned and/or operated stormwater quality treatment and/or flow control facilities and any associated supporting stormwater infrastructure on site.

Systematic condition assessment of all City owned and operated stormwater pipes with a diameter of 12 inches or larger were initially begun through City basin planning efforts from 2013 through 2016, and currently continues through a CCTV inspection program.

TABLE 7. STORMWATER ASSETS INSPECTION FREQUENCY

Inspection Program	Asset	Frequency of Inspection
Right-of-Way	Catch Basins Ditch	Every 2 years (1/2 annually) Every 3 years (1/3 annually)
Regional	Catch Basins Bioretention Swales Facilities (ponds, tanks, constructed wetland, pump stations) Control Structures Culverts Contech Filters Aquafilter Vault Vortechs Ditch Permeable Pavements	Annually
Residential	Catch Basins Facilities (ponds, tanks, pump stations) Control Structures	Every 2 years (1/2 annually)
Parks and Facilities	Catch Basins Facilities (ponds, tanks) Ditch Swale Filters Vaults Permeable Pavements	Annually

The City continues to perform spot checks of known surface water “hot spots” before and after major storm events, and throughout periods of moderate and light rainfall.

8.2.4 S5.C.7.d Reduction of Municipal Operations Stormwater Impacts

The City of Shoreline is committed to using applicable BMPs associated with runoff control during routine maintenance. The City continues to follow the ESA Regional Roads Maintenance Program Guidelines and adheres to SMC 20.80.085.

In 2022 as required by the Permit, the City developed a document to record practices, policies, and procedures to reduce stormwater impacts associated with runoff from land owned or maintained by the City. This document guides operation and maintenance activities under multiple departments and is reviewed and updated annually to ensure compliance with regulatory standards and current BMPs.

8.2.5 S5.C.7.e Staff Training

The City coordinated a Certified Erosion and Sediment Control Lead (CESCL) certification and re-certification in 2019. Surface Water Inspectors with the utility are certified Stormwater Permit Inspectors through the National Stormwater Center, and are recertified on a 5-year cycle. The City also provides training related to facility SWPPP documents to the Streets, Parks, Grounds, and Wastewater maintenance crews that use these facilities. The City has continued to monitor staff training needs, including CESCL certifications for new staff and renewal of expiring staff certifications, and will continue to provide such training as needed throughout 2024.

8.2.6 S5.C.7.f Stormwater Pollution Prevention Plans (SWPPPs)

The City has SWPPPs on file for Hamlin Maintenance Yard and North Maintenance Facility. SWPPP for Hamlin Yard and North Maintenance Facility were updated in 2022 with improved facility maps and to account for a new pesticide mixing station and locker installed in North Maintenance Facility. The City anticipates that a new maintenance facility will be completed and become operational by mid-2024. The Ballinger Maintenance facility will house stormwater decant operations, snow and ice response supplies and equipment, and vehicle washing and refueling services for the City. The new facility will operate under a SWPPP managed by the City's Surface Water Utility and will have annual inspections similarly to other City facilities. All SWPPPs will continue to be updated as needed.

8.2.7 S5.C.7.g Maintenance Records

The City uses Cityworks, a Computerized Maintenance Management System (CMMS), to track inspections and maintenance/repair activities.

9 Source Control Program for Existing Development (S5.C.8)

9.1 Permit Requirements

Section S5.C.8 requires the City to implement a new program designed to prevent and reduce pollutants in runoff from areas that discharge to the City’s MS4. The program requires the City to:

- Implement and enforce an ordinance that requires source control BMPs for pollutant generating sources on existing development as identified in Appendix 8 of the Permit.
- Establish an inventory that identifies institutional, commercial, and industrial sites that have the potential to generate pollutants to the City’s MS4.
- Implement an inspection program for sites identified on the inventory.
- Implement a progressive enforcement policy that requires sites to comply with stormwater regulations.
- Maintain a training program for staff who are responsible for implementing the source control program.

9.2 Current and Planned Activities

Requirement	Current or Planned Activity
No later than August 1, 2022, Permittees shall adopt and make effective an ordinance(s), or other enforceable document, requiring the application of source control BMPs for pollutant generating sources associated with existing land uses and activities.	Ordinance was adopted in 2022 prior to deadline. Section 13.10.330 of the City of Shoreline Surface Water Code defines the requirement for sites to implement source control best management practices. Section 13.10.340 gives the authority for the City to implement the source control inspection program and right of entry for inspections. Violations are subject to enforcement under SMC 20.30.720 through 20.30.790.
No later than August 1, 2022, Permittees shall establish an inventory that identifies publicly and privately owned institutional, commercial and industrial sites which have the potential to generate pollutants to the MS4.	An inventory of businesses was established in June 2022. The City of Shoreline has 305 sites in the Source Control Program inventory.
No later than January 1, 2023, Permittees shall implement an inspection program for identified sites.	Inspection program was implemented by January 1, 2023, as required. Pre-inspection notifications for the Source Control program are being sent to identified businesses ahead of their inspections. The first of these letters were sent out in December 2022 and will continue throughout the permit cycle. An informational postcard was developed in December 2022 and will be sent out in batches over the course of 2023. Information on the program, pollutant generating activities, and appropriate BMPs was sent out to all addresses in the City as part of the Surface

	<p>Water Utility Annual Report in June 2023.</p> <p>More information on Shoreline's Source Control program is available at www.shorelinewa.gov/sourcecontrol.</p> <p>Annually, a minimum of 61 inspections will take place each year (based on currently inventory).</p>
<p>No later than January 1, 2023, Permittees shall implement a progressive enforcement policy that requires sites to comply with stormwater requirements within a reasonable timeframe as specified in the Permit.</p>	<p>Enforcement policy was implemented by January 1, 2023, as required. Violations are subject to enforcement under SMC 20.30.720 through 20.30.790. Progressive enforcement under the Source Control Program will follow similar timelines to other City violations. Initial inspections and correspondence will focus on voluntary corrective action through education and technical assistance, if possible. Enforcement will be reserved for egregious cases.</p>
<p>Permittees shall train staff who are responsible for implementing the source control program to conduct these activities.</p>	<p>City of Shoreline Surface Water Utility staff responsible for implementing the program completed an internal training for Source Control in early January 2023.</p>

In 2023, eighty-six (86) source control inspections were completed exceeding the 20% inventory requirement (61 inspections). During 2024 the City will continue implementing the Source Control program and following up with inspections identified as potential targeted sites through IDDEs, staff observations, or other “complaints”.

10 Compliance with Total Maximum Daily Load (TMDL) Requirements (Permit Section 7)

The City is not required to implement actions for compliance with TMDLs as of March 2024, the City is currently not affected by any TMDLs listed in Appendix 2 of the Permit.

11 Monitoring and Assessment (Permit Section 8)

11.1 Permit Requirements

Section 8 of the Permit covers Regional Status and Trends Monitoring and SWMP Effectiveness and Source Identification Studies. The City meets the current Permit requirements for Monitoring and Assessment as follows:

- Pay annually into a collective fund to implement regional status and trends monitoring (per S8.A.2.a)
- Pay annually into a collective fund to implement Stormwater Management Program (SWMP) effectiveness and source identification studies (per S8.B.2.a).
- Submit records of SWMP activities tracked and/or maintained in response to requests by the Stormwater Action Monitoring (SAM) coordinator (per S8.B.3).

11.2 Current and Planned Activities

In 2013, the City of Shoreline opted to contribute to the Regional fund for the Status and Trends Monitoring and Effectiveness Studies for the Permit term. Stormwater Action Monitoring (SAM) is the regional stormwater monitoring program implemented through the collective funds. The Stormwater Work Group (SWG) sets priorities and oversees the budget for SAM. This group works to identify objectives for monitoring stormwater, to develop an approach to provide needed information about stormwater impacts and the effectiveness of stormwater management actions, and to share results in a way that helps the region make better decisions. Updates on this work are provided through SAM newsletters and the SWG Reporter. See their webpage at <https://ecology.wa.gov/SAM>.

The City will continue to pay into the collective fund. The annual payments for the City (as of the most recent invoice received dated June 2023) are as follows:

- Puget Sound Status and Trends: \$9,107
- Effectiveness Studies and Source Identification: \$16,644