



Port
of Seattle

STORMWATER MANAGEMENT PROGRAM PLAN
FOR MARITIME PHASE I PROPERTIES
(PERMIT NO. WAR044701)



March 2026

Port of Seattle Stormwater Management Program Plan For Maritime Phase I Properties

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List of Acronyms and Abbreviations

BMP	Best Management Practice
CESCL	Certified Erosion and Sediment Control Lead
City	City of Seattle
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
IDDE	Illicit Discharge Detection and Elimination
MS4	Municipal Separate Storm Sewer System
NPDES	National Pollutant Discharge Elimination System
NWSA	Northwest Seaport Alliance
O&M	Operations and Maintenance
Permit	Phase I Municipal Stormwater Permit
Port	Port of Seattle
SAM	Stormwater Action Monitoring
SWMMWW	Stormwater Management Manual for Western Washington
SWMP	Stormwater Management Program
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
Utility	Port of Seattle Marine Stormwater Utility

Port of Seattle Stormwater Management Program Plan For Maritime Phase I Properties Updated March 2026

Introduction

The Port of Seattle (Port) Maritime and Economic Development divisions produced this Stormwater Management Program (SWMP) Plan to demonstrate compliance with the requirements of the National Pollutant Discharge Elimination System (NPDES) Phase I Municipal Stormwater Permit (Permit) issued on July 1, 2024, and effective on August 1, 2024, by the Washington State Department of Ecology (Ecology). The Port's SWMP Plan provides an overview of the Port's activities related to stormwater management on Maritime and Economic Development division properties covered by the Permit (Phase I Properties), located within the City of Seattle (City) and unincorporated King County.

Port Overview

The Port has jurisdiction over approximately 1,500 acres. Eleven hundred (1,100) acres are properties along Seattle's waterfront including marine terminals, marinas, rail lines, parks, and shoreline public access areas (Figures 1, 2, and 3). These land areas are covered under the Permit, as well as other NPDES stormwater permits associated with industrial and maritime related operations. Approximately 1,000 acres of property are impervious, with 100 acres of pervious parks and open/undeveloped space. The remaining 400 acres consist of Department of Natural Resources submerged lands, aquatic areas, and small shoreline areas where no development has occurred. The Port's water-dependent facilities and activities are a substantial base of economic activity and employment within the City, the Port district, and the State of Washington.

The Port is a publicly owned and operated municipal corporation authorized by state law to plan, construct, operate, and maintain harbor improvements within the Port district. Specifically, the Port provides marine services and cargo and passenger terminals for large vessels serving diverse marine transportation businesses. In 2015, the Northwest Seaport Alliance (NWSA) was formed to improve the efficiency of managing container cargo facilities on the Ports of Seattle and Tacoma properties. The NWSA functions as a property manager on Port properties along the Lower Duwamish Waterway, however, the Permit responsibilities still rest with the Port. The Port also provides facilities for many elements of the fishing industry, other water-dependent and water-related commercial and industrial uses, and recreational boats, including Fishermen's Terminal, the Maritime Industrial Center, Harbor Island Marina, Shilshole Bay Marina, Salmon Bay Marina, and Bell Harbor Marina.

Introduction

The Port implements significant environmental restoration, cleanup, and habitat enhancement as part of its capital improvement programs and ongoing operations and management of Port facilities. The Port created 17 public shoreline access points where residents and visitors can see firsthand the City's maritime environment and economy (Figure 3).

In 2014, the Port adopted a resolution establishing a Stormwater Utility (Utility) to fund, operate, and rehabilitate the Port's stormwater systems. In 2016, the Utility began collecting drainage fees from tenants, Port business units, and the NWSA that are used to provide services, facilities, systems, and programs for surface water and stormwater management and pollution control. Utility staff completed a full assessment of the stormwater infrastructure system in 2019 to obtain baseline data. This information is used to prioritize infrastructure improvements to meet changing needs and add resiliency in an aging system. The Utility installs green stormwater infrastructure and innovative treatment systems where feasible, including downspout treatment oyster barrels and SplashBoxx treatment units, to reduce the impact of stormwater on water quality while adding habitat and beautifying spaces. In 2021, the Utility's vision and mission statements, priorities, goals and strategies were developed with stakeholder input and documented in the Utility's first Strategic Plan covering 2021-2025. In 2025, the Utility updated the Strategic Plan to define five goals, and expected outcomes and strategies that will guide the Utility's work through 2030. The goals are: 1. Reduce stormwater pollution leaving Port properties; 2. Maintain and improve stormwater infrastructure; 3. Strengthen customer, tenant, and community relationships; 4. Meet or exceed compliance with federal, state, and local stormwater regulations; and 5. Improve financial system processes to support rate transparency. The Utility develops annual work plans with specific tasks to implement the strategies and track progress. This approach is based on the Utility's strategic planning framework designed to help use resources effectively, adapt strategies to shifting landscapes, and simplify tracking of progress and outcomes with specific tasks that address operations, communication, regulations and financial responsibilities.

Permit Overview

The NPDES program is a requirement of the Federal Clean Water Act. The U.S. Environmental Protection Agency (EPA) has delegated NPDES administration authority in Washington State to Ecology. On July 1, 2024, Ecology reissued the Municipal NPDES Permit, which became effective on August 1, 2024. The Port (excluding Seattle-Tacoma International Airport) has been designated as a Secondary Permittee with coverage under the Permit.

The Permit authorizes the discharge of stormwater from the Port's municipal separate storm sewer system (MS4) to surface waters and ground waters of the state. As the permittee, the Port is responsible for compliance with the terms of this Permit. The Port must develop and implement a SWMP for Phase I Properties that is designed to protect water quality and reduce the discharge of pollutants from the Port's MS4 to the maximum extent practicable, as defined by the Permit.

Introduction

The Permit requires the Port to submit written notifications in the event of an unauthorized discharge from the Port's MS4 to the waters of the State of Washington and take appropriate corrective action, per Section S4 and Condition G3 of the Permit (included in Appendix A). Depending on the impact of the unauthorized discharge, Ecology may require an adaptive management response and other measures to protect water quality.

The Permit requires the Port to prepare written documentation of the SWMP for Phase I Properties, called the SWMP Plan, which includes descriptions of planned SWMP activities for the upcoming calendar year. Each year, the Port shall make the latest updated version of the SWMP Plan available on the Port's website. In addition, the Permit requires the Port to submit annual reports electronically by March 31 of each year to document the progress toward implementing the SWMP components on Phase I Properties throughout the prior calendar year and provide a summary of planned activities for the current calendar year.

SWMP Plan Organization

The Port intends to maintain compliance with the Permit by continuing to implement a suite of Best Management Practices (BMPs) on Phase I Properties. A stormwater BMP is defined as any program, technology, process, siting criterion, operating method, measure, or device that controls, removes, or reduces pollution. The SWMP Plan is organized to demonstrate compliance with the Permit requirements, with current and planned BMPs grouped into the following components:

- Section 1 – Education Program (S6.E.1)
- Section 2 – Public Involvement and Participation (S6.E.2)
- Section 3 – Illicit Discharge Detection and Elimination (S6.E.3)
- Section 4 – Construction Site Stormwater Runoff Control (S6.E.4)
- Section 5 – Post-Construction Stormwater Management for New Development and Redevelopment (S6.E.5)
- Section 6 – Operation and Maintenance Program (S6.E.6)
- Section 7 – Source Control in Existing Developed Areas (S6.E.7)
- Section 8 – Total Maximum Daily Load Requirements (S7)
- Section 9 – Monitoring and Assessment (S8)
- Section 10 – Reporting and Recordkeeping Requirements (S9)

Each section includes a table that summarizes the relevant Permit requirements and the corresponding planned and ongoing compliance activities for the upcoming calendar year.

Section I — Education Program (S6.E.1)

Education Program (S6.E.1)

Table 1 summarizes the requirements of Permit Special Condition S6.E.1 and outlines the corresponding activities at the Port related to the Education Program. Strategic Plan Goals #1, #3 and #4 provide more information on the Port’s efforts to increase awareness of stormwater BMPs across Maritime properties and expand Port staff awareness of environmental regulations.

Table 1. Education Program

Permit Requirements	Planned and Ongoing Activities
<p><i>Include an education program aimed at tenants and Port employees. Make educational materials available to tenants and Port employees whose job duties could impact stormwater.</i></p>	<ul style="list-style-type: none"> • Conduct training for Port employees covering stormwater management, best management practices, and illicit discharge, detection, and elimination (IDDE) to increase understanding of stormwater issues at the Port and reduce or eliminate behaviors and practices that cause or contribute to adverse stormwater impacts. Virtual online training is available to Port staff including those who are not required to be trained under Phase I Permit requirements. • Conduct outreach activities for tenants to increase understanding of stormwater issues at the Port and reduce or eliminate behaviors and practices that cause or contribute to adverse stormwater impacts. Examples of such efforts include: <ul style="list-style-type: none"> ○ Develop outreach materials including BMP summary sheets, BMP trifold, and trucker quadra-fold that are simplified versions of City Source Control BMPs. ○ Conduct SWPPP inspections pursuant to Phase I Permit S6.E.7 to evaluate tenant activities and provide technical assistance for tenant-specific activities. During these site visits, we provide educational materials and other resources such as spill kit information or King County small business hazardous waste program. ○ Conduct routine visits to Port facilities and follow up with tenants as needed with outreach materials identified above. ○ Respond to tenant inquiries and provide technical assistance on stormwater-related questions. • Maintain stormwater-related website specific to Maritime issues, including a resource page with educational materials for tenants and the public to learn more about stormwater. • Post stormwater management information on the Port’s website. See links below this table. • Post signage listing stormwater BMPs at certain high use locations. The signage includes QR codes for translations in multiple languages.

Section I — Education Program (S6.E.1)

Continued

Permit Requirements	Planned and Ongoing Activities
<p><i>No later than September 30, 2027, storm drain inlets owned or operated by the Port that are in maintenance yards, in parking lots, along sidewalks, and at the pedestrian access points shall be clearly labeled with a message similar to “Dump no waste – Drains to water body”.</i></p> <p><i>Any inlet having a label that is no longer clearly visible and/or easily readable shall be re-labeled within 90-days of identification during visual inspection or maintenance.</i></p>	<ul style="list-style-type: none"> • Port Marine Maintenance has labeled storm drain inlets with medallions. Storm drain inlets are regularly inspected, including evaluating the condition of storm drain medallions, replacing the medallions as needed within 90 days of inspection.

The Port maintains the following stormwater-related websites:

- Port of Seattle – Maritime Stormwater Program:
<https://www.portseattle.org/programs/maritime-stormwater-program>
- Port of Seattle – Maritime Stormwater Tenant Information:
<https://www.portseattle.org/page/maritime-stormwater-tenant-information>
- Port of Seattle – Marine Stormwater Utility:
<https://www.portseattle.org/page/marine-stormwater-utility>

Section 2—Public Involvement and Participation (S6.E.2)

Public Involvement and Participation (S6.E.2)

Table 2 summarizes the requirements of Permit Special Condition S6.E.2 and outlines the corresponding activities at the Port related to Public Involvement and Participation. See Strategic Plan Goal #3 for more information on the Port’s efforts to improve outward facing communication and improve public and tenant access to information.

Table 2. Public Involvement and Participation

Permit Requirements	Planned and Ongoing Activities
<i>Make the latest updated version of the SWMP Plan and Annual Report available to the public. The most recent SWMP Plan and Annual Report shall be posted on the Port’s website no later than May 31 each year.</i>	<ul style="list-style-type: none">• Each year, the Port will post the latest version of the SWMP Plan and Annual Report on the Port’s website no later than May 31st each year.

The Port maintains the following stormwater-related websites:

- Port of Seattle – Maritime Stormwater Program:
<https://www.portseattle.org/programs/maritime-stormwater-program>:
- Port of Seattle – Marine Stormwater Utility:
<https://www.portseattle.org/page/marine-stormwater-utility>
- Port of Seattle – Maritime Stormwater Translated Documents
<https://www.portseattle.org/page/maritime-stormwater-translated-documents>

Section 3—Illicit Discharge Detection and Elimination (S6.E.3)

Illicit Discharge Detection and Elimination (S6.E.3)

Table 3 summarizes the requirements of Permit Special Condition S6.E.3 and outlines the corresponding activities at the Port related to Illicit Discharge Detection and Elimination (IDDE). See Goals #1 and #4 in the Strategic Plan for more information on Port initiatives to streamline the process to more rapidly respond to spills.

Table 3. Illicit Discharge Detection and Elimination

Permit Requirements	Planned and Ongoing Activities
<p><i>Include a program in the SWMP to identify, detect, remove, and prevent illicit connections and illicit discharges, including spills, into the MS4s owned or operated by the Port.</i></p>	<ul style="list-style-type: none"> • Maintain written documentation of the IDDE Program to document IDDE policies, enforcement mechanisms, field inspection procedures, and spill response plan. • Conduct training for Port employees covering IDDE to increase understanding of stormwater issues and proper spill notification and response protocols at the Port (Port’s Marine Stormwater Utility Standard Operating Procedures for Spills and Illicit Discharges). • Implement the activities and BMPs listed in this table in accordance with S6.E.3.a through S6.E.3.f of the Permit.
<p><i>Comply with all relevant ordinances, rules, and regulations of the local jurisdiction in which the Port’s MS4 is located that govern non-stormwater discharges.</i></p>	<ul style="list-style-type: none"> • Verify that Port activities on Phase I Properties comply with City ordinances, rules, and regulations that govern non-stormwater discharges.
<p><i>Implement appropriate policies prohibiting illicit discharges and an enforcement plan to ensure compliance with illicit discharge policies. Policies will be revised, if necessary, to meet the requirements no later than July 1, 2027.</i></p>	<ul style="list-style-type: none"> • Continue to enforce the IDDE Policy adopted by the Port Commissioners that prohibits illicit discharges, non-stormwater discharges (including spills of hazardous materials), illicit connections, improper disposal of pet waste and litter, and illegal dumping. • Implement IDDE policies, enforcement mechanisms, and field inspection procedures described in the Port IDDE Guidance Manual. The manual identifies appropriate policies to prohibit illicit discharges and includes an enforcement plan to ensure compliance with the Port’s policies. • Will update the Port’s IDDE Policy and IDDE Guidance Manual if necessary, to meet the requirements no later than July 1, 2027.

Section 3—Illicit Discharge Detection and Elimination (S6.E.3)

Continued

Permit Requirements	Planned and Ongoing Activities
<p><i>Implement an ongoing program to gather, maintain, and use adequate information to conduct planning, priority setting, and program evaluation activities for Port-owned properties, including mapping data for:</i></p> <ul style="list-style-type: none"> • <i>Known MS4 outfalls and discharge points, receiving waters, and land uses for Port-owned properties and all properties served by the Port’s MS4.</i> • <i>Permittees shall submit locations of all known MS4 outfalls according to the standard templates provided in the Annual Report. This reporting shall include the size and material of the outfalls no later than March 31, 2027.</i> • <i>Tributary conveyances and the associated drainage areas of MS4 outfalls and discharge points with a 12-inch nominal diameter or larger.</i> • <i>Known connections greater than or equal to 8 inches in nominal diameter to mapped tributary conveyances.</i> 	<ul style="list-style-type: none"> • Collect field and mapping data for the Port’s MS4. • Maintain mapping for all known MS4 outfalls, receiving waters, and land uses for property owned by the Port as information becomes known. • Will submit locations of all known MS4 outfalls according to the standard templates in the Annual Report, including information regarding the size and construction material of the outfalls no later than March 31, 2027. • Maintain mapping for tributary conveyances (including size, material, and type attributes where known), and the associated drainage areas of MS4 outfalls with a 12-inch nominal diameter or greater. • Maintain mapping for known connections greater than or equal to 8 inches in nominal diameter to tributary conveyances mapped in accordance with the Permit. • Maintain drainage basin boundaries for tributary systems. • Maintain appropriate maps and reports to meet Ecology formatting requirements. • Maintain land use maps of Phase I Properties.
<p><i>Implement a program to document Operation and Maintenance (O&M) records for stormwater treatment and flow control BMPs/facilities and catch basins.</i></p>	<ul style="list-style-type: none"> • Maintain Maximo database developed to track maintenance related activities. • Maintain stormwater facility inventory based on construction plans, staff knowledge, and field visits. • Maintain inventory data in O&M database and track O&M actions. • Create annual O&M reports. • Make reports available to Ecology upon request.
<p><i>To the extent consistent with national security laws and directives, make available to Ecology and/or the City or King County, upon request, mapping information and O&M records.</i></p>	<ul style="list-style-type: none"> • Maintain compliance with Port security policies related to infrastructure information sharing. • If allowable, make mapping data and/or O&M records available to Ecology, the City, or King County upon request.

Section 3—Illicit Discharge Detection and Elimination (S6.E.3)

Continued

Permit Requirements	Planned and Ongoing Activities
<p><i>Conduct field screening of at least 20% of the MS4 each year for the purpose of detecting illicit discharges and illicit connections.</i></p> <p><i>Conduct screening for illicit connections using the <i>Illicit Connection and Illicit Discharge Field screening and Source Tracing Guidance Manual</i> (Herrera Environmental Consultants, Inc. May 2020); or another method of comparable or improved effectiveness.</i></p>	<ul style="list-style-type: none"> • Conduct dry weather illicit discharge field screenings at outfalls and other stormwater structures and complete CCTV inspections in accordance with the schedule and methodologies described in the Port’s IDDE Guidance Manual to meet the annual 20% field screening requirement. The Port IDDE Guidance Manual uses methods comparable or of improved effectiveness to the guidance included in the <i>Illicit Connection and Illicit Discharge Field screening and Source Tracing Guidance Manual</i> (Herrera Environmental Consultants, Inc. May 2020). • Use inspection forms included in the Port’s IDDE Guidance Manual to document inspections and follow-up activities. • Refer problems encountered to appropriate Port staff for follow-up, as outlined in the Port’s IDDE Guidance Manual. • Maintain field screening records.
<p><i>Implement procedures to identify and remove any illicit discharges or connections. Keep records of inspections and follow-up activities.</i></p>	<ul style="list-style-type: none"> • Continue to implement field screening, inspection, and enforcement procedures described in the Port’s IDDE Guidance Manual to identify and remove illicit discharges and illicit connections, using methods comparable or of improved effectiveness to the guidance included in the <i>Illicit Connection and Illicit Discharge Field screening and Source Tracing Guidance Manual</i> (Herrera Environmental Consultants, Inc. May 2020). • Completed 100% CCTV screening of the entire Port stormwater system. Port CCTV operators are trained to identify indicators of illicit discharges such as odor, color, floatables, etc. • Investigate suspected illicit discharge problem areas to determine if outflows are from receding tidal water, groundwater, or a legitimate illicit discharge. • Maintain records of inspections and follow-up activities.
<p><i>Implement a spill response plan that includes coordination with a qualified spill responder.</i></p>	<ul style="list-style-type: none"> • Update spill response plan as necessary. • Maintain list of qualified spill responders. • Follow spill response procedures described in the Port’s Marine Stormwater Utility Standard Operating Procedures – Spills & Illicit Discharges and the Port’s IDDE Guidance Manual.

Section 3—Illicit Discharge Detection and Elimination (S6.E.3)

Continued

Permit Requirements	Planned and Ongoing Activities
<p><i>Provide ongoing staff training or coordinate with existing training efforts to educate relevant staff on proper BMPs for preventing spills and illicit discharges, and responding as appropriate. Keep training records.</i></p>	<ul style="list-style-type: none"> • Coordinate with education efforts in Section 1 to train appropriate Port staff. • Maintain records of training provided and staff trained.

Section 4—Construction Site Stormwater Runoff Control (S6.E.4)

Construction Site Stormwater Runoff Control (S6.E.4)

Table 4 summarizes the requirements of Permit Special Condition S6.E.4 and outlines the corresponding activities at the Port related to Construction Site Stormwater Runoff Control. Strategic Plan Goal #4 summarizes some of the Port’s continued efforts for managing construction stormwater runoff.

Table 4. Construction Site Stormwater Runoff Control

Permit Requirements	Planned and Ongoing Activities
<p><i>Include a program in the SWMP to reduce pollutants in stormwater runoff from construction activities under functional control of the Port.</i></p>	<ul style="list-style-type: none"> • Implement the activities and BMPs listed in this table in accordance with S6.E.4.a through S6.E.4.e of the Permit. • As necessary, update Master Specifications (Section 01 57 13), which include temporary erosion and sediment control guidelines for construction projects.
<p><i>Comply with all relevant rules and regulations of the local jurisdiction that govern construction phase stormwater pollution prevention. To the extent allowed by local ordinances, comply with the applicable minimum technical requirements for new development and redevelopment.</i></p>	<ul style="list-style-type: none"> • Follow the City’s Stormwater Code and Manual for all new and redevelopment projects on Port property within Seattle. The Port does not have a separate Stormwater Code or Manual. • Due to Seattle Municipal Code 22.807.020C and an interlocal agreement between the Port and the City, the Port may review its own projects within its MS4 for stormwater and grading compliance. <ul style="list-style-type: none"> ○ Follow the Port’s Stormwater Review procedures for Port new development and redevelopment projects conducted on Phase I Properties that drain to the Port’s MS4. ○ Refer the Port’s new development and redevelopment projects that discharge to the City’s MS4 to the City for Drainage Control Review. • Implement the Maritime Environmental Compliance Project Intake process to screen Maritime projects for environmental permitting, including stormwater review. Internal review process is consistent with City stormwater, grading and drainage review requirements. • Continue to implement the City’s relevant ordinances, rules and regulations that govern construction site runoff.

Section 4—Construction Site Stormwater Runoff Control (S6.E.4)

Continued

Permit Requirements	Planned and Ongoing Activities
<p><i>Ensure that all construction projects under the functional control of the Port obtain coverage under the General NPDES Permit for Stormwater Discharges Associated with Construction Activities, if required.</i></p>	<ul style="list-style-type: none"> • If required, apply for Construction Stormwater Permit coverage for Port projects on Phase I Properties prior to construction activity. • Refer tenant projects to the City and Ecology for permit coverage, if required.
<p><i>Coordinate with local jurisdiction regarding projects owned or operated by other entities that discharge into the Port's MS4 to assist local jurisdiction with achieving compliance.</i></p>	<ul style="list-style-type: none"> • Coordinate with the City and King County as applicable.
<p><i>Provide staff training or coordinate with existing training efforts to educate Port staff responsible for implementing construction stormwater erosion and sediment control BMPs and requirements, or hire trained contractors to perform the work.</i></p>	<ul style="list-style-type: none"> • Maintain Certified Erosion and Sediment Control Lead (CESCL) certification (from an Ecology-approved resource) for Port staff or consultant staff representatives responsible for construction sites. • Port staff responsible for supporting stormwater management at construction sites receive construction stormwater training that covers Port specifications, construction stormwater BMPs, and local requirements. • Require construction contractors responsible for erosion control to have CESCL certification.
<p><i>As requested, provide Ecology or the local jurisdiction access for inspection of construction sites or land disturbances under the functional control of the Port during active land disturbing activities and/ or the construction period.</i></p>	<ul style="list-style-type: none"> • Review legal authority and potential mechanisms to allow inspections, as required. • Provide access as requested and legally allowable.

Section 5—Post-Construction Stormwater Management for New Development and Redevelopment (S6.E.5)

Post-Construction Stormwater Management for New Development and Redevelopment (S6.E.5)

Table 5 summarizes the requirements of Permit Special Condition S6.E.5 and outlines the corresponding activities at the Port related to Post-Construction Stormwater Management for New Development and Redevelopment. See Goals #1 and #4 in the Strategic Plan for more information on how the Port is evaluating opportunities to voluntarily implement green stormwater infrastructure.

Table 5. Post-Construction Stormwater Management for New Development and Redevelopment

Permit Requirements	Planned and Ongoing Activities
<i>Include a program in the SWMP to address post-construction stormwater runoff from new development and redevelopment projects.</i>	<ul style="list-style-type: none"> • Implement the activities and BMPs listed in this table in accordance with S6.E.5.a and S6.E.5.b of the Permit. • As necessary, update the Port’s Stormwater Review procedures for new development and redevelopment.
<i>Comply with all relevant ordinances, rules and regulations of the local jurisdiction that govern post-construction stormwater pollution prevention measures, including proper operation and maintenance of the MS4. To the extent allowed by local ordinances, comply with the applicable minimum technical requirements for new development and redevelopment.</i>	<ul style="list-style-type: none"> • Follow the Port’s Stormwater Review procedures for the Port’s new development and redevelopment projects conducted on Phase I Properties that drain to the Port’s MS4. • Refer the Port’s new development and redevelopment projects that discharge to the City’s MS4 to the City for Drainage Control Review. • Follow the Port’s O&M Manual, developed according to the requirements described in Permit Special Condition S6.E.6. • Continue to implement the City’s relevant ordinances, rules and regulations that govern post-construction stormwater management for new development and redevelopment.
<i>Coordinate with local jurisdiction regarding projects owned and operated by other entities that discharge into the Port’s MS4.</i>	<ul style="list-style-type: none"> • Coordinate with the City as applicable.

Section 6—Operation and Maintenance Program (S6.E.6)

Operation and Maintenance Program (S6.E.6)

Table 6 summarizes the requirements of Permit Special Condition S6.E.6 and outlines the corresponding activities at the Port related to the Operation and Maintenance (O&M) Program. See Goals #1 and #2 in the Strategic Plan for more information on the Port’s efforts to maintain and improve stormwater infrastructure.

Table 6. Operation and Maintenance Program

Permit Requirements	Planned and Ongoing Activities
<p><i>Include an O&M program in the SWMP for all stormwater treatment and flow control BMPs/ facilities and catch basins.</i></p>	<ul style="list-style-type: none"> • Implement the activities and BMPs listed in this table in accordance with S6.E.6.a through S6.E.6.d of the Permit. • Continue to conduct O&M activities including: <ul style="list-style-type: none"> ○ Parking lot and street sweeping. ○ Inspections and cleaning for catch basins and other stormwater structures. ○ Routine maintenance of stormwater treatment facilities and other structural BMPs. ○ Inspection of suspected problems at stormwater treatment facilities and other structural BMPs. ○ Tracking maintenance activities in the Port’s Maximo database.
<p><i>Implement an O&M manual for all stormwater treatment and flow control BMPs/ facilities and catch basins under the functional control of the Port that discharge to the Port’s MS4 or an interconnected MS4. Retain a copy of the manual in the appropriate Port department and update as necessary.</i></p>	<ul style="list-style-type: none"> • Document stormwater facilities on Phase I Properties under the Port’s functional control. • Follow the O&M procedures and activities described in the Port’s O&M Manual. • Retain copies of the O&M Manual at the Port Marine Maintenance facilities, Environmental Department and/or on the Port’s Environmental SharePoint.
<p><i>Establish facility-specific maintenance standards within the O&M manual that are at least as protective as those in the Ecology Stormwater Management Manual for Western Washington (SWMMWW) to determine if maintenance is required. Develop and update maintenance standards, as necessary.</i></p>	<ul style="list-style-type: none"> • Update O&M Manual to be consistent with the SWMMWW, City of Seattle Stormwater Manual, and the Phase I Permit. • Review maintenance standards in Chapter 4 of Volume V of the SWMMWW and City of Seattle Stormwater Manual, Volumes 2 and 4 and Appendix G.

Section 6—Operation and Maintenance Program (S6.E.6)

Continued

Permit Requirements	Planned and Ongoing Activities
<p><i>The O&M Plan shall address: building exterior cleaning and maintenance including cleaning, washing, painting; maintenance and management of dumpsters; and other maintenance activities. For buildings owned by the Secondary Permittee and built or renovated between 1950 and 1980, the O&M Plan shall include Source Control BMPs to minimize PCBs from entering the MS4, prior to exterior building washdown. Structures confirmed or suspected to have PCB-containing materials shall not discharge washdown water to the MS4.</i></p> <p><i>The O&M Plan shall address Source Control BMPs for building materials to prevent pollutants, including PCBs, from entering the MS4 in preparation for and during demolition and renovations.</i></p>	<ul style="list-style-type: none"> • Update the O&M Manual to address building exterior cleaning and maintenance including cleaning, washing, painting; maintenance and management of dumpsters and other maintenance activities. • Follow source control BMPs for exterior washdown activities of Port-owned buildings built or renovated between 1950 and 1980 that minimize PCBs from entering the MS4 • Washwater used to wash structures confirmed or suspected to have PCB-containing materials is collected and taken for off-site disposal • Follow source control BMPs for building materials to prevent pollutants, including PCBs, from entering the MS4 in preparation for and during demolition and renovations.
<p><i>Manage maintenance activities to inspect all facilities listed in the O&M manual annually, and take appropriate maintenance action in accordance with the O&M manual.</i></p>	<ul style="list-style-type: none"> • Follow the facility inspection schedule established in the Port’s O&M Manual. • Use the Maintenance Standards and Inspection Checklists presented in the Port’s O&M Manual to document inspections. • Continue to complete visual inspections for 100% of catch basins under the Port’s functional control each year. These inspections are completed to evaluate catch basins/stormwater structure conditions and to identify if maintenance standards in the Port’s O&M Manual/City Stormwater Manual have been triggered for catch basin/stormwater structure maintenance or cleaning. • Train staff on facility inspections. • Allocate staff resources to facility inspections. • Prepare inspection reports to document all inspection activities.

Section 6—Operation and Maintenance Program (S6.E.6)

Continued

Permit Requirements	Planned and Ongoing Activities
<p><i>No later than July 1, 2027, develop and implement a street sweeping program on lands owned or operated by the Permittee at least once between July and September and at least three additional times each year.</i></p> <p><i>Compliance during this permit term shall be determined by the records of a sweeping program designed to sweep least 90% of mapped areas at each sweeping event.</i></p> <p><i>No later than March 31, 2028, the Port shall submit recorded sweeping event data with the Annual Report.</i></p>	<ul style="list-style-type: none"> • The Port’s sweeping program includes routine sweeping at selected Port properties. The sweeping program will be expanded as needed to meet permit requirements and incorporated into the O&M manual no later than July 1, 2027. • Sweeping equipment will be routinely evaluated and maintained to ensure it meets the design performance specifications as part of the Port’s routine equipment maintenance schedule. • Sweeping events will be recorded and reported in the annual report starting no later than March 31, 2028. • Dispose of sweeper waste material in accordance with Phase I Permit Appendix 6 – <i>Street Waste Disposal</i>.
<p><i>Take appropriate maintenance action when the maintenance standard is exceeded. Maintenance shall be performed within the timeline identified in permit condition S6.E.6.b(ii).</i></p>	<ul style="list-style-type: none"> • Use Maintenance Standards and Inspection Checklist documents provided in the Port’s O&M Manual to determine when a maintenance standard has been exceeded. • Prepare maintenance requests and conduct maintenance activities as needed. • Maintain records.
<p><i>Provide appropriate training for Port maintenance staff.</i></p>	<ul style="list-style-type: none"> • Conduct appropriate training for Port maintenance staff. • Identify maintenance staff that require training. • Create and update resources for internal trainings – virtual online training, videos, webcasts, handouts, etc. Ensure maintenance staff are aware of these resources. • Provide safety information in the Marine Maintenance Job Hazard Analysis.
<p><i>Maintain records of inspections and maintenance activities.</i></p>	<ul style="list-style-type: none"> • Maintain maintenance records in the Maximo database and SharePoint, including inspection checklists, field notes, or work orders, for at least 5 years.

Section 7—Source Control in Existing Developed Areas (S6.E.7)

Source Control in Existing Developed Areas (S6.E.7)

Table 7 summarizes the requirements of Permit Special Condition S6.E.7 and outlines the corresponding activities at the Port related to Source Control in Existing Developed Areas. See Goal #1 in the Strategic Plan for more information on the Port’s efforts to pilot and advance new technology and creative solutions for existing developed areas and Goal #4 for ongoing actions that support source control and implementation of BMPs on Maritime properties.

Table 7. Source Control in Existing Developed Areas

Permit Requirements	Planned and Ongoing Activities
<p><i>Develop and implement one or more Stormwater Pollution Prevention Plans (SWPPPs) to identify and implement measures to prevent and control the contamination of discharges of stormwater to surface or groundwater.</i></p>	<ul style="list-style-type: none"> • Maintain a list of sites covered by the Permit, and all other NPDES Permits (general, individual, industrial, etc.). • Implement the activities and BMPs in accordance with S6.E.7.a through S6.E.7.g of the Permit.
<p><i>Prepare and implement SWPPPs as required under the Permit, and update as necessary to reflect changes at the facility.</i></p>	<ul style="list-style-type: none"> • Develop and/or maintain SWPPPs for Port-controlled Phase I Properties, updating as necessary. • Work with tenants to develop SWPPPs for tenant-controlled Phase I properties where not covered by a separate NPDES permit.
<p><i>SWPPP(s) shall include a facility assessment with a site plan, identification of pollutant sources, and description of drainage system.</i></p>	<ul style="list-style-type: none"> • Maintain list of sites that must be covered by a SWPPP required under the Permit. • Conduct site inspections to collect data for the facility assessment. • Prepare a facility assessment for each site including site plan, identification of pollutant sources, and description of drainage system.
<p><i>Describe source control BMPs, selected from the SWMMWW, used or proposed for use. Implement non-structural BMPs immediately following SWPPP development. Where necessary, include schedule for implementing structural BMPs in the SWPPP.</i></p>	<ul style="list-style-type: none"> • Identify additional source control BMPs for new or updated SWPPPs. • Identify structural and non-structural BMPs already in place for new or updated SWPPPs. • Where necessary, develop an implementation schedule for structural BMPs for new or updated SWPPPs.

Section 7—Source Control in Existing Developed Areas (S6.E.7)

Continued

Permit Requirements	Planned and Ongoing Activities
<p><i>Maintain a list of sites covered by the SWPPP(s) required under the Permit. Inspect at least 20% of listed sites annually.</i></p>	<ul style="list-style-type: none"> • Maintain a list of sites covered by a SWPPP required under the Permit. • Develop an inspection schedule based on the list of sites with SWPPP coverage to ensure that at least 20% of the listed sites are inspected annually. • Conduct site inspections to the extent allowed by local ordinances, rules, and regulations.
<p><i>Include policies and procedures to reduce pollutants associated with pesticides, herbicides, and fertilizer.</i></p>	<ul style="list-style-type: none"> • As needed, update Port landscape maintenance policy prohibiting the use of pesticides and herbicides, and over-use of fertilizers.
<p><i>Include measures to prevent, identify, and respond to illicit discharges, illicit connections, spills, and improper disposal. Notify the City or King County and Ecology upon becoming aware of a spill.</i></p>	<ul style="list-style-type: none"> • Include reference to the Port’s IDDE Program in SWPPPs. • Implement Port’s IDDE Program on all Phase I Properties. • Follow the Port’s Marine Stormwater Utility Standard Operating Procedures for Spills and Illicit Discharges in the event of an illicit discharge, illicit connection, or spill. • Notify the City of Seattle, King County, Ecology, National Response Center, and/or United States Coast Guard of spills as required.
<p><i>Include a component related to inspection and maintenance of stormwater facilities and catch basins that is consistent with the Port’s O&M Program.</i></p>	<ul style="list-style-type: none"> • Include reference to the Port’s O&M Program in Port SWPPPs. • Implement Port O&M Program on Maritime Phase I Properties.

Section 8—Total Maximum Daily Load Requirements (S7)

Total Maximum Daily Load Requirements (S7)

The Total Maximum Daily Load (TMDL) requirements only apply if a stormwater TMDL has been established for waters of the state that receive stormwater discharges from the stormwater system on Phase I Properties owned or operated by the Port. The applicable TMDLs that require additional compliance activities are listed in Appendix 2 of the Permit. At the time of publication, none of the TMDLs listed in Appendix 2 affect the Port, which has coastal properties falling in Water Resource Inventory Areas (WRIA) 8 (Cedar/Samish) and 9 (Duwamish/Green). As such, no additional activities are required for compliance with TMDL conditions. The Port will continue to track the development of TMDLs for applicable regions and participate in their development and implementation, when appropriate.

Section 9—Monitoring and Assessment (S8)

Monitoring and Assessment (S8)

Table 8 summarizes the requirements of Permit Special Condition S8 and outlines the corresponding activities at the Port related to Monitoring and Assessment.

Table 8. Monitoring and Assessment

Permit Requirements	Planned and Ongoing Activities
<p><i>The Port shall make a one-time payment into the Stormwater Action Monitoring collective fund to implement regional small streams and marine nearshore areas status and trends monitoring in Puget Sound or urban streams in the Lower Columbia River Basin and to implement effectiveness studies and source identification studies. This payment is due on or before December 1, 2024.</i></p>	<ul style="list-style-type: none"> The Port submitted the one-time payment as required by the Permit.
<p><i>The Port shall notify Ecology in writing which of the following two options for regional status and trends monitoring (S8.A.2.a or S8.A.2.b) the Port chooses to carry out during this Permit term. The written notification with G19 signature is due to Ecology no later than December 1, 2024.</i></p>	<ul style="list-style-type: none"> The Port selected the Regional Status and Trends Monitoring option to make annual payments into a collective fund, presented in section S8.A.2.a of the Permit, and submitted this selection in writing to Ecology prior to December 1, 2024. This option requires the Port to pay into a collective fund to implement regional small streams and marine nearshore status and trends monitoring in Puget Sound. The Port continues to make annual payments according to section S8.D.
<p><i>The Port chose S8.B.2 Effectiveness Studies, Option a. in the Phase I Municipal Stormwater Permit August 1, 2019– July 31, 2024. The Port shall pay into the SAM collective fund to implement effectiveness studies and source identification studies. The payment is due on or before December 1, 2024. Submit payment according to Section S8.D.</i></p>	<ul style="list-style-type: none"> The Port submitted the payment as required by the Permit.
<p><i>The Port shall notify Ecology in writing which of the following three options (S8.B.2.a or S8.B.2.b or S8.B.2.c) for effectiveness and source identification studies. The written notification with G19 signature is due to Ecology no later than December 1, 2024.</i></p>	<ul style="list-style-type: none"> The Port selected the Effectiveness and Source Identification Studies option to make annual payments into a collective fund, presented in section S8.B.2 of the Permit, and submitted this selection in writing to Ecology prior to December 1, 2024. This option requires the Port to pay into a collective fund to implement effectiveness and source identification studies. The Port continues to make annual payments according to section S8.D.

Section 10—Reporting Requirements (S9)

Reporting Requirements (S9)

Table 9 summarizes the requirements of Permit Special Condition S9 and outlines the corresponding activities at the Port related to Reporting Requirements. See Goal #4 in the Strategic Plan for more information on how the Port is working to streamline tracking and reporting processes for permit compliance.

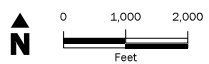
Table 9. Reporting Requirements

Permit Requirements	Planned and Ongoing Activities
<p><i>No later than March 31 of each year beginning in 2025, the Port shall prepare and submit an annual report to Ecology covering the previous calendar year. The annual report shall include the information outlined in Permit condition S9.E.</i></p> <p><i>The reports must be submitted electronically using Ecology’s Water Quality Permitting Portal (WQWebPortal) available on Ecology’s website. The annual report will describe the status of implementation of the requirements of this Permit during the reporting period.</i></p>	<ul style="list-style-type: none"> • Prepare and maintain the SWMP Plan document outlining planned activities to meet Permit requirements. • Prepare and submit an annual report by March 31 of each year. • Collect and maintain data and information, as necessary and identified within the Permit, to attach to the annual report to be submitted each year. • The Annual Report will include a copy of the Port’s current Stormwater Management Program Plan.
<p><i>Keep all records related to the Permit and the SWMP for at least five years after the expiration date of this permit.</i></p>	<ul style="list-style-type: none"> • Maintain database for collecting and consolidating SWMP records. • Review records annually as part of annual report development.
<p><i>Make records related to this permit and the Permittee’s SWMP available to the public at reasonable times during business hours. Provide a copy of the most recent annual report to any individual entity, upon request.</i></p>	<ul style="list-style-type: none"> • Maintain Permit and SWMP documents. • Post documents or information about document availability on the Port’s Stormwater website. • Provide copies of the most recent annual report as requested.

FIGURES



Color Key	
	Container Terminal
	Cruise Facility
	Commercial Fishing and Recreational Moorage
	General Purpose Marine/Cargo Terminal
	Commercial and Industrial Property
	Park
	Marine Maintenance Industrial Facility



**Maritime Division Vicinity Map
(North Extent)**
2026 SWMP Plan
Port of Seattle
Seattle, Washington

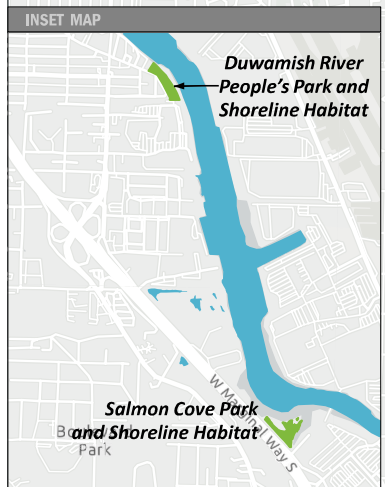
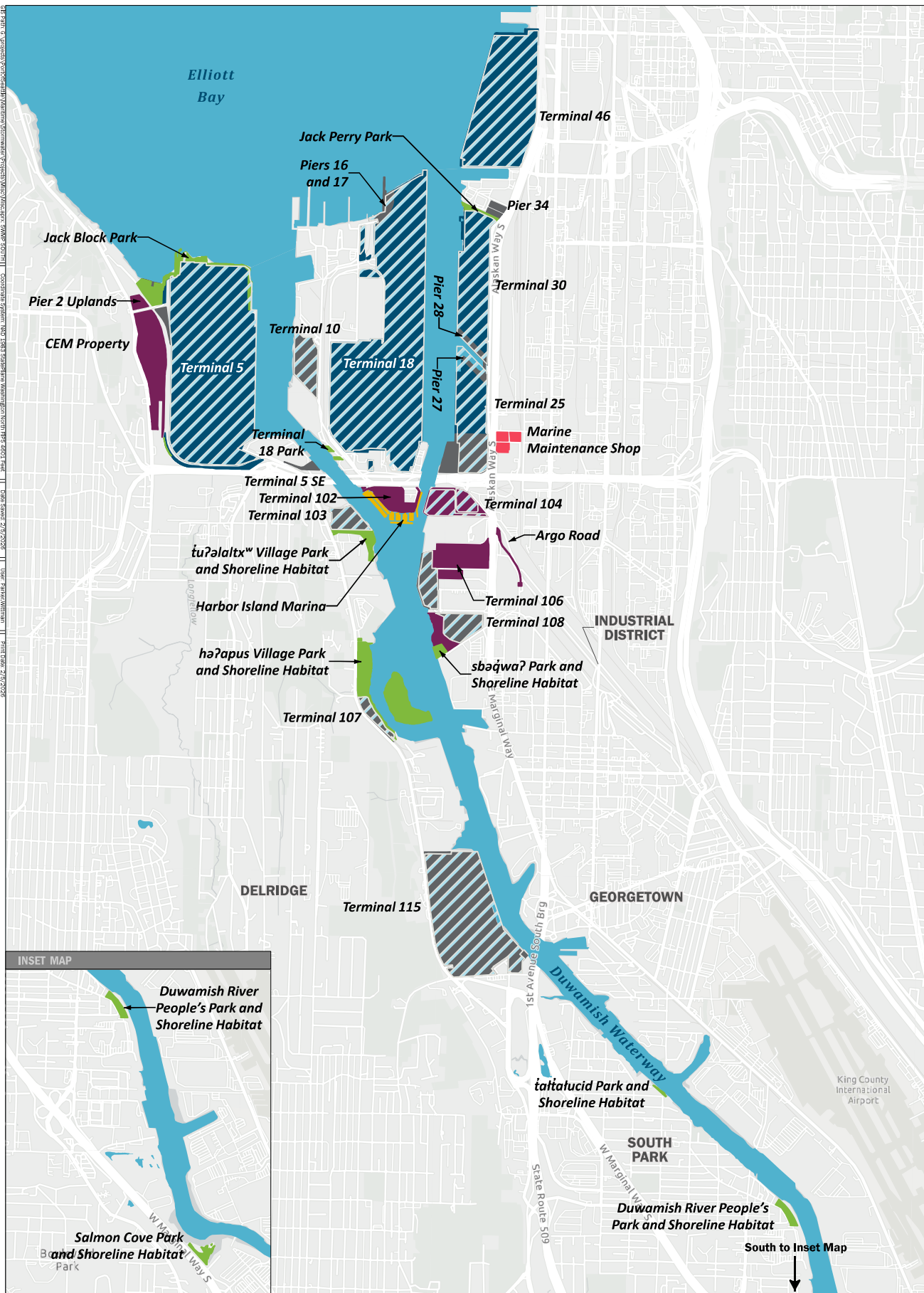
Geosyntec
consultants

Port of Seattle

REV
EAC / PPW
FEB-2026

FIGURE NO.
1

Basemap Layer Credits | Light Gray Reference: Sources: Esri, TomTom, Garmin, (c) OpenStreetMap contributors, and the GIS User Community
Light Gray Base: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community



Northwest Seaport Alliance-Managed Property	Commercial Fishing and Recreational Moorage
Color Key	General Purpose Marine/Cargo Terminal
Container Terminal	Commercial and Industrial Property
Cruise Facility	Marine Maintenance Industrial Facility
	Park

**Maritime Division Vicinity Map
(South Extent)**
2026 SWMP Plan
Port of Seattle
Seattle, Washington

Geosyntec <small>consultants</small>	Port of Seattle	<small>IN</small> EAC / FPW FEB-2026	<small>FIGURE NO.</small> 2
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Basemap Layer Credits: Light Gray Reference Sources: Esri, TomTom, Garmin, (c) OpenStreetMap contributors, and the GIS User Community
Light Gray Base Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community

Habitat Restoration and Parks/ Public Shoreline Access Sites

Port of Seattle - 2026 SWMP Plan



BY:
EAC / PPW
FEB-2024

FIGURE NO.
3



From Port of Seattle-generated figure: Port of Seattle: Habitat Restoration and Parks-Public Shoreline Access Sites - 2020-11-24a

APPENDIX A
Phase I Municipal Stormwater Permit, selected sections

- i. The importance of protecting water quality.
- ii. The requirements of this Permit.
- iii. Operation and maintenance requirements.
- iv. Inspection procedures.
- v. Ways to perform their job activities to prevent or minimize impacts to water quality.
- vi. Procedures for reporting water quality concerns, including potential illicit discharges (including spills).

E. Stormwater Management Program for the Port of Seattle and Port of Tacoma

Permittees that are already implementing some or all the Stormwater Management Program (SWMP) components in this Section shall continue implementation of those components of their SWMP.

The SWMP for the Port of Seattle and the Port of Tacoma shall include the following components:

1. Education Program

The SWMP shall include an education program aimed at tenants and Permittee employees. The goal of the education program is to reduce or eliminate behaviors and practices that cause or contribute to adverse stormwater impacts.

Minimum performance measure:

- a. The Permittee shall make educational materials available to tenants and Permittee employees whose job duties could impact stormwater.
- b. No later than September 30, 2027, storm drain inlets owned or operated by the Ports that are in maintenance yards, in parking lots, along sidewalks, and at pedestrian access points shall be clearly labeled with a message similar to “Dump no waste – Drains to water body” no later than September 30, 2027.
- c. As identified during visual inspection and regular maintenance of storm drain inlets per the requirements of S6.E.3.d and S6.E.6.b below, or as otherwise reported to the Secondary Permittee, any inlet having a label that is no longer clearly visible and/or easily readable shall be re-labeled within 90 days.

2. Public Involvement and Participation

Each Permittee shall make the latest updated version of the SWMP Plan available to the public. The most recent SWMP Plan and Annual Report shall be posted on the Permittee's website no later than May 31 each year.

3. Illicit Discharge Detection and Elimination

The SWMP shall include a program to identify, detect, remove, and prevent illicit connections and illicit discharges, including spills, into the MS4s owned or operated by the Permittee.

Minimum performance measures:

- a. Comply with all relevant ordinances, rules, and regulations of the local jurisdiction(s) in which the Permittee's MS4 is located that govern non-stormwater discharges.
- b. Implement appropriate policies prohibiting illicit discharges and an enforcement plan to ensure compliance with illicit discharge policies. These policies shall address, at a minimum: illicit connections; non-stormwater discharges, including spills of hazardous materials; and improper disposal of pet waste and litter. Policies shall be revised, if necessary, to meet the requirements of this Section no later than July 1, 2027.
 - i. *Allowable Discharges:* The policies do not need to prohibit the following categories of non-stormwater discharges:
 - (a.) Diverted stream flows.
 - (b.) Rising groundwaters.
 - (c.) Uncontaminated groundwater infiltration (as defined at 40 CFR 35.2005(b)(20)).
 - (d.) Uncontaminated pumped groundwater.
 - (e.) Foundation drains.
 - (f.) Air conditioning condensation.
 - (g.) Irrigation water from agricultural sources that is commingled with urban stormwater.
 - (h.) Springs.
 - (i.) Uncontaminated water from crawl space pumps.

- (j.) Footing drains.
 - (k.) Flows from riparian habitats and wetlands.
 - (l.) Discharges from emergency firefighting activities in accordance with S2 – Authorized Discharges.
 - (m.) Non-stormwater discharges authorized by another NPDES permit.
- ii. *Conditionally Allowable Discharges*: The policies may allow the following categories of non-stormwater discharges only if the stated conditions are met and such discharges are allowed by local codes:
- (a.) Discharges from potable water sources, including but not limited to, water line flushing, hyper-chlorinated water line flushing, fire hydrant system flushing, and pipeline hydrostatic test water. Planned discharges shall be de-chlorinated to a total residual chlorine concentration of 0.1 ppm or less, pH-adjusted if necessary, and volumetrically and velocity controlled to prevent resuspension of sediments in the MS4.
 - (b.) Discharges from lawn watering and other irrigation runoff, including from reclaimed water sources. These discharges shall be minimized through, at a minimum, public education activities and water conservation efforts conducted by the Permittee and/or the local jurisdiction.
 - (c.) Discharges from swimming pools, spas, and hot tubs. The discharges shall be dechlorinated/debrominated to a total residual chlorine concentration of 0.1 ppm or less, free from sodium chloride, pH-adjusted and reoxygenated if necessary, and volumetrically and velocity controlled to prevent resuspension of sediments in the MS4. Discharges shall be thermally controlled to prevent an increase in temperature of the receiving water. Swimming pool cleaning wastewater and filter backwash shall not be discharged to the MS4.
 - (d.) Street and sidewalk wash water, water used to control dust that does not use detergents. The Ports of Seattle and Tacoma shall reduce these discharges through, at a minimum, public education activities and/or water conservation efforts conducted by the Port and/or the local jurisdiction. To avoid washing pollutants into the MS4, the amount of street wash and dust control water used shall be minimized.

- (e.) Routine external building washdown that does not use detergents for buildings built or renovated before 1950 and after 1980. These discharges shall be reduced through, at minimum, public education activities or water conservation efforts, or both.

Commercial, multi-story residential, and industrial structures constructed or renovated between the years 1950 and 1980 (i.e. those most likely to have PCB containing building materials), shall be assessed consistent with *How to Find PCBs in Building Materials* (Ecology, 2024; Publication No. 22-040-024) prior to routine building washdown to MS4. Structures confirmed or suspected to have PCB-containing materials shall not discharge washdown to the MS4. Structures built between 1950-1980 and determined to be without PCB-containing materials may proceed with routine building washdown (without detergents) as described above.

- (f.) Other non-stormwater discharges shall be in compliance with the requirements of a pollution prevention plan reviewed by the Permittee which addresses control of such discharges.

iii. The Permittee shall address any category of discharges in S6.E.3.b.i or ii above if the discharges are identified as significant source of pollutants to waters of the State.

- c. The SWMP shall include an ongoing program for gathering, maintaining, and using adequate information to conduct planning, priority setting, and program evaluation activities for Permittee-owned properties. Permittees shall gather and maintain mapping data for the features listed below on an ongoing basis:
 - i. Known MS4 outfalls and discharge points, receiving waters (other than groundwater), and land uses for property owned by the Permittee, and all other properties served by MS4s known to and owned or operated by the Permittee.
 - ii. No later than March 31, 2027, Permittees shall submit locations of all known MS4 outfalls according to the standard templates provided in the Annual Report. This reporting shall include the size and material of the outfalls.

- iii. Tributary conveyances (including size, material, and type attributes where known), and the associated drainage areas of MS4 outfalls and discharge points with a 12-inch nominal diameter or larger, or an equivalent cross-sectional area for non-pipe systems.
 - iv. Known connections greater than or equal to 8 inches in nominal diameter to tributary conveyances mapped in accordance with S6.E.3.c.ii.
 - v. To the extent consistent with national security laws and directives, each Permittee shall make available to Ecology upon request, available maps depicting the information required in S6.E.3.c.i through iv. above. The required format for mapping is electronic with fully described mapping standards.
 - vi. Implement a program to document operation and maintenance records for stormwater treatment and flow control BMPs/facilities and catch basins.
 - vii. Upon request, and to the extent consistent with national security laws and directives, mapping information and operation and maintenance records shall be provided to the city or county in which the Permittee is located.
- d. Conduct field screening of at least 20% of the MS4 each year for the purpose of detecting illicit discharges and illicit connections. Field screening methodology shall be appropriate to the characteristics of the MS4 and water quality concerns. Implement procedures to identify and remove any illicit discharges and illicit connections. Keep records of inspections and follow-up activities.
- Screening for illicit connections may be conducted using the *Illicit Connection and Illicit Discharge Field Screening and Source Tracing Guidance Manual* (Herrera Environmental Consultants, Inc., May 2020); or another method of comparable or improved effectiveness.
- e. Implement a spill response plan that includes coordination with a qualified spill responder.
 - f. Provide ongoing staff training or coordinate with existing training efforts to educate staff on proper BMPs for preventing illicit discharges, including spills, and for identifying, reporting, and responding as appropriate. Train all Permittee staff who, as part of their normal job responsibilities, have a role in preventing such discharges. Keep records of training provided and staff trained.

4. Construction Site Stormwater Runoff Control

The SWMP shall include a program to reduce pollutants in stormwater runoff from construction activities under the functional control of the Permittee.

Minimum performance measures:

- a. Comply with all relevant ordinances, rules, and regulations of the local jurisdiction(s) in which the Permittee is located that govern construction phase stormwater pollution prevention measures. To the extent allowed by local ordinances, rules, and regulations, comply with the applicable minimum technical requirements for new development and redevelopment contained in Appendix 1.
- b. Ensure all construction projects under the functional control of the Permittee which require a construction stormwater permit obtain coverage under the NPDES General Permit for Stormwater Discharges Associated with Construction Activities or an individual NPDES permit prior to discharging construction related stormwater.
- c. Coordinate with the local jurisdiction(s) regarding projects owned or operated by other entities which discharge into the Permittee's MS4, to assist the local jurisdiction(s) with achieving compliance with all relevant ordinances, rules, and regulations of the local jurisdiction(s).
- d. Provide staff training or coordinate with existing training efforts to educate Permittee staff responsible for implementing construction stormwater erosion and sediment control BMPs and requirements or hire trained contractors to perform the work.
- e. Coordinate as requested with Ecology or the local jurisdiction to provide access for inspection of construction sites or other land disturbances that are under the functional control of the Permittee during active land disturbing activities and/or the construction period.

5. Post-Construction Stormwater Management for New Development and Redevelopment

The SWMP shall include a program to address post-construction stormwater runoff from new development and redevelopment projects. The program shall establish controls to prevent or minimize water quality impacts.

Minimum performance measures:

- a. Comply with all relevant ordinances, rules, and regulations of the local jurisdiction(s) in which the Permittee is located that govern post-construction stormwater pollution prevention measures, including proper operation and maintenance of the MS4. To the extent allowed by local ordinances, rules, and regulations, comply with the applicable the minimum technical requirements for new development and redevelopment contained in Appendix 1.
- b. Coordinate with the local jurisdiction regarding projects owned and operated by other entities which discharge into the Permittee's MS4, to assist the local jurisdiction in achieving compliance with all relevant ordinances, rules, and regulations of the local jurisdiction(s).

6. Operation and Maintenance Program

The SWMP shall include an operation and maintenance program for all stormwater treatment and flow control BMPs/facilities and catch basins to ensure that BMPs continue to function properly.

Minimum performance measures:

- a. Each Permittee shall implement an Operation and Maintenance (O&M) manual for all stormwater treatment and flow control BMPs/facilities and catch basins that are under the functional control of the Permittee and which discharge stormwater to its MS4, or to an interconnected MS4.
 - i. Retain a copy of the O&M manual in the appropriate Permittee department and routinely update following discovery or construction of new stormwater facilities.
 - ii. The operation and maintenance manual shall establish facility-specific maintenance standards that are as protective, or more protective, than those specified in the Stormwater Management Manual for Western Washington. For existing stormwater facilities which do not have maintenance standards, the Permittee shall develop a maintenance standard. Each Permittee shall update maintenance standards, as necessary, to meet the requirements of this Section.

iii. The purpose of the maintenance standard is to determine if maintenance is required. The maintenance standard is not a measure of the facility's required condition at all times between inspections. Exceeding the maintenance standards between inspections and/or maintenance is not a permit violation. Maintenance actions shall be performed within the time frames specified in S6.E.6.b.ii.

iv. Building exterior cleaning and maintenance

The O&M Plan shall address, at a minimum: building exterior cleaning and maintenance including cleaning, washing, painting; maintenance and management of dumpsters; and other maintenance activities. For buildings owned by the Secondary Permittee and built or renovated between 1950 and 1980, the O&M Plan shall include Source Control BMPs to minimize PCBs from entering the MS4, prior to exterior building washdown. Structures confirmed or suspected to have PCB-containing materials shall not discharge washdown water to the MS4.

v. Preparing Permittee-owned buildings for renovation or demolition

The O&M Plan shall address Source Control BMPs for building materials to prevent pollutants, including PCBs, from entering the MS4 in preparation for and during demolition and renovations.

b. The Permittee will manage maintenance activities to inspect all stormwater facilities listed in the O&M manual annually and take appropriate maintenance action in accordance with the O&M manual.

i. The Permittee may change the inspection frequency to less than annually, provided the maintenance standards are still met. Reducing the annual inspection frequency shall be based on maintenance records of double the length of time of the proposed inspection frequency. In the absence of maintenance records, the Permittee may substitute written statements to document a specific less frequent inspection schedule. Written statements shall be based on actual inspection and maintenance experience and shall be certified in accordance with G19 – *Certification and Signature*.

- ii. Unless there are circumstances beyond the Permittees control, when an inspection identifies an exceedance of the maintenance standard, maintenance shall be performed:
 - (a.) Within 1 year for wet pool facilities and retention/detention ponds.
 - (b.) Within 1 year for typical maintenance of facilities, except catch basins.
 - (c.) Within 6 months for catch basins.
 - (d.) Within 2 years for maintenance that requires capital construction of less than \$25,000.

Circumstances beyond the Permittee's control include denial or delay of access by property owners, denial or delay of necessary permit approvals, and unexpected reallocations of maintenance staff to perform emergency work. For each exceedance of the required timeframe, the Permittee shall document the circumstances and how they were beyond their control.

c. Sweeping

- i. No later than July 1, 2027, develop and implement a street sweeping program on lands owned or operated by the Permittee at least once between July and September and at least three additional times each year, as determined by the Permittee to provide additional water quality benefits. For calendar year 2027, only one sweeping event is required.
 - (a.) Compliance during this permit term shall be determined by the records of a sweeping program designed to sweep least 90% of mapped areas at each sweeping event.
 - (b.) Permittees may document reasoning for alternative sweeping timing and frequency based on local conditions (e.g. climate) and estimated pollutant deposition quantities. Documentation shall be based on actual maintenance experience and be certified in accordance with G19 – *Certification and Signature*.
- ii. Follow equipment design performance specifications to ensure that street sweeping equipment is operated at the proper design speed with appropriate verification, and that it is properly maintained.

- iii. Permittee shall dispose of sweeper waste material in accordance with Appendix 6- *Street Waste Disposal*.
- iv. Reporting: No later than March 31, 2028, submit with the Annual Report the following information about the priority area-focused municipal sweeping program:
 - (a.) Areas swept identified on a map (i.e. streets that are considered high traffic (estimated number of vehicles served/or arterials or collectors), and streets serving commercial or industrial land use),
 - (b.) Sweeping dates,
 - (c.) Sweeping frequency,
 - (d.) Type of sweeper used,
 - (e.) Total curb miles and curb miles swept, and
 - (f.) Approximation of street waste solids removed for each sweeping event (indicate unit of measurement and wet or dry weight, where available).
- d. The Permittee shall provide appropriate training for Permittee maintenance staff.
- e. The Permittee will maintain records of inspections and maintenance activities.

7. Source Control in Existing Developed Areas

The SWMP shall include the development and implementation of one or more Stormwater Pollution Prevention Plans (SWPPPs). A SWPPP is a documented plan to identify and implement measures to prevent and control the contamination of discharges of stormwater to surface or groundwater. SWPPP(s) shall be prepared and implemented for all Permittee-owned lands, except environmental mitigation sites owned by the Permittee, that are not covered by a NPDES permit issued by Ecology that authorizes stormwater discharges.

Minimum performance measures:

- a. SWPPP(s) shall be updated as necessary to reflect changes at the facility.
- b. The SWPPP(s) shall include a facility assessment including a site plan, identification of pollutant sources, and description of the drainage system.

- c. The SWPPP(s) shall include a description of the source control BMPs used or proposed for use by the Permittee. Source control BMPs shall be selected from the Stormwater Management Manual for Western Washington (or an equivalent manual approved by Ecology). Implementation of non-structural BMPs shall begin immediately after the pollution prevention plan is developed. Where necessary, a schedule for implementation of structural BMPs shall be included in the SWPPP(s).
- d. The Permittee shall maintain a list of sites covered by the SWPPP(s) required under this Permit. At least 20% of the listed sites shall be inspected annually.
- e. The SWPPP(s) shall include policies and procedures to reduce pollutants associated with the application of pesticides, herbicides, and fertilizer.
- f. The SWPPP(s) shall include measures to prevent, identify and respond to illicit discharges, including illicit connections, spills, and improper disposal. When the Permittee submits a notification pursuant to G3, the Permittee shall also notify the city or county it is located in.
- g. The SWPPP(s) shall include a component related to inspection and maintenance of stormwater facilities and catch basins that is consistent with the Permittee's O&M Program, as specified in S6.E.6 above.

8. Monitoring Program

Monitoring requirements for the Port of Seattle and Port of Tacoma are included in Special Condition S8.

S7. COMPLIANCE WITH TOTAL MAXIMUM DAILY LOAD REQUIREMENTS

The following requirements apply if an applicable Total Maximum Daily Load (TMDL) is approved for stormwater discharges from MS4s owned or operated by the Permittee. Applicable TMDLs are TMDLs which have been approved by EPA on or before the issuance date of this Permit, or prior to the date that Ecology issues coverage under this Permit, whichever is later.

A. TMDL Specific Requirements

1. For applicable TMDLs listed in Appendix 2, affected Permittees shall comply with the specific requirements identified in Appendix 2. Each Permittee shall keep records of all actions required by this Permit that are relevant to applicable TMDLs within their jurisdiction. The status of the TMDL implementation shall be included as part of the Annual Report submitted to Ecology. Each Annual Report shall include a summary of relevant SWMP and Appendix 2 activities conducted in the TMDL area to address the applicable TMDL parameter(s).
2. For applicable TMDLs not listed in Appendix 2, compliance with this Permit shall constitute compliance with those TMDLs.

S8. MONITORING AND ASSESSMENT

A. Regional Status and Trends Monitoring

1. Clark, King and Snohomish Counties, the Cities of Seattle and Tacoma, and the Ports of Seattle and Tacoma chose S8.A.2 Regional Status and Trends Monitoring, Option a in the Phase I Municipal Stormwater Permit, August 1, 2019– July 31, 2024. These Permittees shall make a one-time payment into the Stormwater Action Monitoring (SAM) collective fund to implement regional small streams and marine nearshore areas status and trends monitoring in Puget Sound or, urban streams in the Lower Columbia River basin. This payment is due on or before December 1, 2024. Submit payment according to Section S8.D.
2. Clark, King, Pierce, and Snohomish Counties, the Cities of Seattle and Tacoma, and the Ports of Seattle and Tacoma shall notify Ecology in writing which of the following two options for regional status and trends monitoring (S8.A.2.a or S8.A.2.b) the Permittee chooses to carry out during this Permit term. The written notification with G19 signature is due to Ecology no later than December 1, 2024. Either option will fully satisfy the Permittee’s obligations under this Section (S8.A.2). Each Permittee shall select a single option for this permit term.
 - a. Make annual payments into a SAM collective fund to implement regional receiving water status and trends monitoring of small streams and marine nearshore areas in Puget Sound or, urban streams in the Lower Columbia River basin. The annual payments into the SAM collective fund are due on or before August 15 each year beginning in 2025. Submit payments according to Section S8.D.

Or

- b. Conduct stormwater discharge monitoring per the requirements in S8.C.

B. Stormwater Management Program Effectiveness and Source Identification Studies

1. Clark, King, Pierce, and Snohomish Counties, the City of Seattle, and the Ports of Seattle and Tacoma chose S8.B.2 Effectiveness Studies, Option a. in the Phase I Municipal Stormwater Permit August 1, 2019– July 31, 2024. These Permittees shall pay into the SAM collective fund to implement effectiveness studies and source identification studies. The payment is due before on or before December 1, 2024. Submit payment according to Section S8.D.

2. Clark, King, Pierce, and Snohomish Counties, the Cities of Seattle and Tacoma, and the Ports of Seattle and Tacoma shall notify Ecology in writing which of the following three options (S8.B.2.a or S8.B.2.b or S8.B.2.c) for effectiveness and source identification studies the Permittee chooses to carry out during this permit term. The written notification with G19 signature is due to Ecology no later than December 1, 2024. Any of these three options (S8.B.2.a or S8.B.2.b or S8.B.2.c) will fully satisfy the Permittee's obligations under this Section (S8.B.2). Each Permittee shall select a single option for this permit term.

- a. Make annual payments into a SAM collective fund to implement effectiveness and source identification studies. The annual payments into the SAM collective fund are due on or before August 15 each year beginning in 2025. Submit payments according to Section S8.D.

Or

- b. Conduct stormwater discharge monitoring per the requirements in S8.C.

Or

- c. Both: make annual payments into a SAM collective fund to implement regional effectiveness and source identification studies and independently conduct a Stormwater Management Program (SWMP) effectiveness study approved by Ecology.
 - i. Permittees selecting this option shall make payments equal to one-half of the amounts listed in Appendix 11 for S8.B. The annual payments are due on or before August 15 each year beginning in 2025. Submit payments according to Section S8.D.
 - ii. The SWMP effectiveness study shall be conducted in accordance with the requirements below:
 - (a.) Write a detailed proposal describing: the purpose, objectives, design, and methods of the independent effectiveness study; anticipated outcomes including the question that will be answered; expected modifications to the Permittee's SWMP; relevance to other Permittees; and plans for sharing the findings with other Permittees. The proposal shall be prepared in accordance with the SWMP Effectiveness Study Proposal and QAPP Template (July 1, 2019, version 1.0) and submitted no later than February 1, 2025, to Ecology for review and approval.

- (b.) Within 120 days of Ecology’s approval of the detailed proposal, submit a draft QAPP to Ecology. The QAPP shall be prepared in accordance with the SWMP Effectiveness Study Proposal and QAPP template (July 1, 2019, version 1.0). Within 60 days of receiving Ecology’s comments, submit a final QAPP to Ecology for review and approval.
 - (c.) Implement the study in accordance with the schedule in the approved final QAPP. Data and analyses shall be reported annually in accordance with the Ecology-approved QAPP.
3. All Permittees shall provide information as requested for effectiveness and source identification studies that are under contract with Ecology as active SAM projects. These requests will be limited to records of SWMP activities and associated data tracked and/or maintained in accordance with *S5 – Stormwater Management Program* and/or *S9 – Reporting and Recordkeeping Requirements*. A maximum of three requests during the permit term from the SAM Coordinator will be transmitted to the Permittee’s permit coordinator via Ecology’s regional permit manager. The Permittee shall have 90 days to provide the requested information.

C. Stormwater Discharge Monitoring

1. No later than June 30, 2025, the City of Tacoma shall submit data and a final report for the stormwater discharge monitoring that was conducted pursuant to S8.B *Stormwater Management Program Effectiveness and Source Identification Studies*, Option b. in the *Phase I Municipal Stormwater Permit*, August 1, 2019 – July 31, 2024.
2. This Section applies only to Permittees who choose to conduct stormwater discharge monitoring per S8.A.2.b, S8.A.3.b.ii, and/or S8.B.2.b in lieu of participation in the *Regional Status and Trends Monitoring* and/or *Stormwater Management Program Effectiveness and Source Identification Studies*. These Permittees shall conduct monitoring in accordance with Appendix 9 and an Ecology-approved QAPP as follows:
 - a. Cities and counties who choose the option to conduct stormwater discharge monitoring for either S8.A Regional Status and Trends Monitoring or S8.B Stormwater Management Program Effectiveness and Source Identification Studies shall monitor five independent discharge locations; ports shall monitor two independent discharge locations. Permittees are encouraged to continue monitoring at locations monitored under S8.C.2 of the Phase I Municipal Stormwater Permit August 1, 2019 –

July 31, 2024 and/or S8.D of the *Phase I Municipal Stormwater Permit*, February 16, 2007 – February 15, 2012.

- i. Cities and counties who choose the option to conduct stormwater discharge monitoring for both S8.A *Regional Status and Trends Monitoring* and S8.B *Effectiveness and Source Identification Studies* shall conduct this monitoring at a total of ten locations; at least seven locations shall be independent (up to three locations may be nested in other basins).
 - ii. Ports who choose the option to conduct stormwater discharge monitoring for both S8.A and S8.B shall conduct this monitoring at four independent locations.
- b. No later than February 1, 2025, each Permittee shall submit a draft Stormwater Discharge Monitoring QAPP to Ecology for review and approval. The QAPP shall be prepared in accordance with the requirements in Appendix 9. The final QAPP shall be submitted to Ecology for approval as soon as possible following finalization, and before August 15, 2025, or within 60 days of receiving Ecology's comments on the draft QAPP (whichever is later).
- c. Flow monitoring at new discharge monitoring locations shall begin no later than October 1, 2025, or within 30 days of receiving Ecology's approval of the final QAPP (whichever is later). Stormwater discharge monitoring shall be fully implemented no later than October 1, 2025, at previous or existing discharge monitoring locations and no later than October 1, 2026, at new discharge monitoring locations.
- d. Data and analyses shall be reported annually in accordance with the Ecology-approved QAPP. Each Permittee shall enter into the Department's Environmental Information Management (EIM) database, all water and solids concentration data collected pursuant to Appendix 9, as applicable.
 - i. Within 60 days of completing the study, publish a final report with the results of the study and recommended future actions based on findings, include a summary of results.

D. Payments into the Stormwater Action Monitoring Collective Fund

1. This Section applies to all Permittees who choose to make annual payments into the SAM collective funds for *S8.A Regional Status and Trends Monitoring* and/or *S8.B Effectiveness and Source Identification Studies*.
2. Permittees submitting payment for S8.A.1. or S8.B.1., payment amounts are listed in Appendix 11 of the Phase I Municipal Stormwater Permit, August 1, 2019– July 31, 2024.
3. Each Permittee’s S8.A.2 or S8.B.2. payment amounts are listed in Appendix 11.
 - a. For annual payments for S8.B.2 due on August 15, 2025 and thereafter, Permittees that choose option S8.B.2.c shall pay half the amount indicated for S8.B in Appendix 11.
4. Mail payments according to the instructions in the invoice sent to the Permittee approximately three months in advance of each payment due date.

S9. REPORTING AND RECORDKEEPING REQUIREMENTS

A. Annual Report Submittal

1. No later than March 31 of each year beginning in 2025, each Permittee shall submit an Annual Report. The reporting period for the first Annual Report will be from January 1, 2024, through December 31, 2024. The reporting period for all subsequent Annual Reports shall be the previous calendar year unless otherwise specified.
2. Permittees shall submit Annual Reports electronically using Ecology's Water Quality Permitting Portal (WQWebPortal) available on Ecology's website unless otherwise directed by Ecology.
3. Permittees unable to submit electronically through Ecology's WQWebPortal shall contact Ecology to request a waiver and obtain instructions on how to submit an Annual Report in an alternative format.

B. Records Retention

Each Permittee is required to keep all records related to this Permit and the SWMP for at least five years after the expiration date of this Permit.

C. Records Available to the Public

Each Permittee shall make all records related to this Permit and the Permittee's SWMP available to the public at reasonable times during business hours. The Permittee will provide a copy of the most recent Annual Report to any individual or entity, upon request.

1. A reasonable charge may be assessed by the Permittee for making photocopies of records.
2. The Permittee may require reasonable advance notice of intent to review records related to this Permit.

D. Annual Report for Cities, Towns, and Counties

The Annual Report for Permittees listed in S1.B shall include the following:

1. A copy of the Permittee's current Stormwater Management Program Plan (SWMP Plan) as required by S5.A.1.
2. Submittal of the Annual Report form as provided by Ecology pursuant to S9.A, describing the status of implementation of the requirements of this Permit during the reporting period.

3. Attachments to the Annual Report form including summaries, descriptions, reports, and other information as required, or as applicable, to meet the requirements of this Permit during the reporting period, or as a required submittal. Refer to Appendix 3 for Annual Report questions.
4. If applicable, notice that the MS4 is relying on another entity to satisfy any of the obligations under the Permit.
5. Certification and signature pursuant to G19.D, and notification of any changes to authorization pursuant to G19.C.
6. A notification of any annexations, incorporations, or jurisdictional boundary changes resulting in an increase or decrease in the Permittee's geographic area of permit coverage during the reporting period.

E. Annual Report for Secondary Permittees

Each Annual Report shall include the following:

1. A copy of the Permittee's current Stormwater Management Program Plan (SWMP Plan), as required by S6.A.2.
2. Submittal of the Annual Report as provided by Ecology pursuant to S9.A, describing the status of implementation of the requirements of this Permit during the reporting period.
3. Attachments to the Annual Report form including summaries, descriptions, reports, and other information as required, or as applicable, to meet the requirements of this Permit during the reporting period. Refer to Appendix 4 for Annual Report questions for Secondary Permittees, and Appendix 5 for Annual Report questions for the Ports of Seattle and Tacoma.
4. If applicable, notice that the MS4 is relying on another entity to satisfy any of the obligations under this Permit.
5. Certification and Signature pursuant to G19.D, and notification of any changes to authorization pursuant to G19.C.
6. A notification of any jurisdictional boundary changes resulting in an increase or decrease in the Permittee's geographic area of permit coverage during the reporting period.