



## **Stormwater Management Program Plan**

**February 2014**

**Permit # WAR 04-5541**

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## I. Introduction

This document represents the first Stormwater Management Program Plan (SWMP Plan) prepared by the City of SeaTac (City) in accordance with the 2013 - 2018 National Pollutant Discharge Elimination System (NPDES) Western Washington Phase II Municipal Stormwater Permit (Permit) issued on August 1, 2012 and became effective on August 1, 2013. Though the Permit became effective on August 1, 2013, deadlines within the Permit are phased in over the five year term of the Permit.

The SWMP Plan is intended to meet the requirements of S5.A.2 of the Permit, as well as illustrate the City's compliance with the Permit. The City's Stormwater Management Program (SWMP) includes numerous actions and activities with the overall goal of reducing the discharge of pollutants from its storm sewer system to the maximum extent practicable (MEP), while meeting state all known available and reasonable technologies (AKART) requirements and protecting the water quality.

[Please Note: An Annual Report document will not accompany the SWMP Plan for the 2013 reporting period, as it is not required by the Permit. However, an Annual Report will be developed, as required, for the remaining reporting periods of the Permit (2014 – 2018).

## II. Existing Stormwater Management Program (SWMP)

The City of SeaTac's existing Stormwater Management Program is described in detail in both the March 2012 Stormwater Management Program document and the City of SeaTac 2013 Surface Water Plan. Both documents can be found on the City of SeaTac's Surface Water Management Program web page: <http://www.ci.seatac.wa.us/index.aspx?page=189>.

## III. SWMP Accomplishments in 2013

The City of SeaTac accomplished the following items related to its Stormwater Management Program in 2013:

### A. Maintained Existing/Ongoing Programs

The City maintained its existing stormwater management programs described in the March 2012 Surface Water Management Program document throughout the 2013 calendar year.

### B. Development of a Surface Water Plan

In August of 2012 the City initiated a process to develop a new Surface Water Plan (the Plan). This process was completed with acceptance of the Surface Water Plan by SeaTac City Council in July 2013. The plan provides a needed update and strategic guidance into the future for the Surface Water Utility and its programs.

The Plan's primary purpose was to plan for the future of the Surface Water Utility. The Plan evaluates all the Utility's existing programs (both NPDES and non-regulatory) and

identify programs and services which may need to be expanded to meet community needs and regulatory demands. The Plan also includes a section where site specific localized stormwater issues were identified, evaluated and ranked to develop a preliminary Stormwater Capital Improvement list.

It should be noted that while the Surface Water Plan was not specifically developed for the purpose of complying with NPDES Permit requirements, the Plan does describe and evaluate all of the programs included within the City's 2012 SWMP, as well as identify program needs and makes recommendations on how to meet the 2013-2018 NPDES Permit requirements. For more details, see Section 4 of the Surface Water Plan.

Several public involvement opportunities were made available to allow citizens and businesses to participate in the development of the Plan. These public involvement opportunities are described in Section 1.2 of the Surface Water Plan.

### **C. Surface Water Management (SWM) Rate Study**

#### **i. SWM Rate Study**

Based on the programmatic needs and recommendations identified in the Surface Water Plan, City staff worked with a consulting firm to develop a surface water management rate study. The rate study was designed to evaluate the costs necessary to fund the Surface Water Utility's programs through 2018.

Four funding alternatives were included in the rate study: a no action alternative; an emergency fund alternative; a limited Surface Water Plan implementation alternative (recommended) and; a full Surface Water Plan implementation. The rate study document, "Surface Water Rate Update – October 2013" is available upon request.

#### **1. Public Involvement and Participation**

The development and approval of the rate study included several opportunities for public involvement, including four public presentations to City Council.

#### **ii. SWM Rate Increase**

The recommended SWM rate alternative was approved by City Council on November 26, 2013 and went into effect on January 1, 2014 (Ordinance # 13-1014). The ordinance phases in rate increases over a five year period and includes funding necessary to expand SWMP programs to meet Permit requirements through 2018, as well as develop an asset management and surface water capital improvement program to fund repair and replacement of the City's stormwater infrastructure.

### **D. Municipal Operations and Maintenance Equipment Acquisitions**

In 2013 the City of SeaTac made two major operations and maintenance (O&M) equipment acquisitions, which will help to improve the effectiveness and efficiency of the City's O&M compliance efforts: 1) a vactor truck; and 2) a regenerative air sweeper truck. Purchases of these trucks were made possible through financial assistance from King County Flood Control Opportunity Fund and Department of Ecology stormwater

grant funding.

**i. The Vector Truck**

Acquisition of the vector truck provides O&M staff the tools they need to respond to localized flooding and annual stormwater system maintenance and cleaning tasks effectively and efficiently without the need for 3<sup>rd</sup> party vector service. The maintenance tasks include cleaning flow control and treatment facilities, as well as catch basin (CB) cleaning. The acquisition of the vector truck has also allowed O&M staff to increase the inspection frequency of its CB inspection program to comply with the requirements of Section S5.C.4.d of the Permit.

**ii. The Sweeper Truck**

Acquisition of the sweeper truck allows O&M staff to increase the frequency of street sweeping, while incurring less cost than would be incurred through a 3<sup>rd</sup> party service. This increased street sweeping will reduce the amount of pollutants carried by the stormwater system by capturing them before they can enter the system. Increased street sweeping is also expected to reduce the workload for stormwater system maintenance requirements, as there will be less sediment delivered to the storm system.

**E. Illicit Discharge Detection and Elimination (IDDE) Field Screening**

In 2012 the City contracted a third party consultant to develop an IDDE field screening form to meet the field screening requirements identified in Section S5.C.3.c.i of the Permit. The form is integrated into the City's asset management data base system and allows staff to efficiently enter data and demonstrate compliance with the Permit. The City staff began utilizing this form and implemented the updated field screening program in August of 2013. As a result of staff's efforts, 30% of the City's municipal separate stormwater sewer system (MS4) was field screened in 2013. No illicit discharges were found during the 2013 field screening.

**IV. Planned Actions for 2014**

**A. SWMP Management and Administration**

The City plans to fully comply with the management and administration requirements as described in Section S5.A of the Permit. These requirements include, are not limited to:

- Develop and implement the SWMP
- Annually update the SWMP Plan
- Track costs or estimated costs for implementing the SWMP
- Track inspection, enforcement and public education activities
- Continue to implement existing programs

In addition to the above administrative activities, the City plans to pursue the following activities in 2014:

- Develop a City Wide Policy – NPDES Roles and Responsibilities  
In the second half of 2012 City staff began drafting a citywide policy which

identifies each City department's and division's roles and responsibilities in meeting the requirements of the Phase II Permit. City staff plans to finish drafting this policy in 2014 and bring it to City management for review and approval.

- **Develop Coordination Mechanism**

As of January 1<sup>st</sup> of 2014 the City of SeaTac contracts with the Kent Regional Fire Authority. City staff plans to work with the City of Kent and the Kent Regional Fire Authority (RFA) to coordinate and document IDDE field staff training and spill response responsibilities, as it relates to the Kent RFA.

## **B. Public Education and Outreach**

In 2014 the City staff plans to maintain the existing public education and outreach programs described in the 2012 SWMP. No new educational materials or program evaluations are planned for 2014.

## **C. Public Involvement and Participation**

A major part of the public involvement and participation in the development of the SWMP was carried out as a part of the development of the 2013 Surface Water Plan and rate study. However, City staff plan to continue to provide opportunities for public involvement through web posting of the SWMP Plan, news articles and public meetings, as necessary in 2014.

## **D. Illicit Discharge Detection and Elimination**

### **i. Code Amendments**

City staff completed drafting code amendments to the City's Illicit Discharge Detection and Elimination (IDDE) code (SMC 12.12) in 2013. These code amendments are designed to address requirements within Section S5.C.3.b of the Permit, as well as strengthen the City's ability to enforce water quality violations. City staff plans to take the code amendments before City Council in 2014.

### **ii. Field Screening of the MS4**

The City has developed and implemented a MS4 field screening technique called the "Monitoring Node Approach" to meet the field screening requirements identified in Section S5.C.3.i of the Permit. The City has successfully field screened 30% of the MS4 using this approach since August 1, 2013.

Under the monitoring node approach, a single field screening point (monitoring node) is field screened to represent a group of upstream assets (pipes, catch basins, manholes, etc.). This group of upstream assets includes up to 20 catch basins and manholes or a sub catchment, whichever is smaller. Standard field screening techniques, as described in the City's 2011 IDDE Policies and Procedures Manual, are used to detect illicit discharges in each monitoring node. Tracking of field screening activities is done through an electronic inspection form integrated into an asset management data base. Compliance with field screening requirements is measured by the number of linear feet of MS4 pipes and ditches field screened.

The City plans to continue to use the above field screening approach in 2014.

**E. Controlling Runoff from New Development, Redevelopment and Construction Sites**

In addition to maintaining existing programs relating to controlling runoff, the City plans to seek budget approval and grant opportunities to hire a consultant in 2015 to work with City staff to update City codes, standards, policies, and plans necessary to meet the requirements of Section S5.C.4 of the Permit. These requirements include making low impact development (LID) the preferred and commonly used approach to development.

**F. Municipal Operations and Maintenance**

In addition to maintaining existing O&M programs in 2014 the City plans to complete the following activity:

**i. Develop a New Catch Basin Inspection Tracking Form**

In 2014 the City plans to develop an electronic catch basin inspection form that will be integrated into the City's asset management data base. The new form is intended to replace the existing paper tracking system and increase efficiency in inspection tracking and reporting efforts.

**G. Total Maximum Daily Loads and Monitoring**

**i. Compliance with Total Maximum Daily Loads (TMDLs)**

The Permit requirements related to TMDLs are described in Section S7 and Appendix 2 of the Permit. TMDLs for specific pollutants are established for impaired water bodies by the Department of Ecology to monitor and control the amount of pollutants delivered to these water bodies. The City of SeaTac currently contains no water bodies with TMDLs assigned. Therefore, these requirements are not applicable to the City.

**ii. Monitoring and Assessment (S8 Requirements)**

Section S8 of the Permit describes the monitoring requirements imposed on permittees, including options to complete these monitoring requirements independently or annually contribute funding to regional programs. The City has decided to contribute funding to the regional monitoring programs, as it is by far the most cost effective option.