

Stormwater Management Program (SWMP)

2018 Activities & 2019 Proposed Activities



Public Works and Community Development Department
March 2019

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ACRONYMS AND ABBREVIATIONS

AKART	All Known, Available, and Reasonable Treatment
BMP	Best Management Practices
CCTV	Closed-Circuit Television
CESCL	Certified Erosion and Sediment Control Lead
CIP	Capital Improvement Project
DOE	Department of Ecology
GIS	Geographic Information System
IDDE	Illicit Discharge Detection and Elimination
LID	Low Impact Development
MEP	Maximum Extent Practical
MS4	Municipal Separate Storm Sewer System
MVMC	Maple Valley Municipal Code
NPDES	National Pollutant Discharge Elimination System
O&M	Operations and Maintenance
RSMP	Regional Stormwater Management Program
SIDIR	Source Identification Information Repository
SOP	Standard Operating Procedures
STORM	Stormwater Outreach for Regional Municipalities
SWMP	Stormwater Management Program
SWPPP	Surface Water Pollution Prevention Plan
TMDL	Total Maximum Daily Load

CITY OF MAPLE VALLEY STORMWATER MANAGEMENT PROGRAM (SWMP) REPORT

Prepared March 2019

1. INTRODUCTION

1.1 Overview and Background

The *National Pollutant Discharge Elimination System (NPDES) and State Waste Discharge General Permit for Discharges from Small Municipal Separate Storm Sewers (MS4) in Western Washington* hereafter referred to as the ‘Phase II MS4 Permit’, regulates stormwater discharges to surface waters from municipal systems. This permit outlines the stormwater program activities and implementation milestones that municipalities must follow to comply with the Federal Clean Water Act. Phase II MS4 permits cover municipalities, including the City of Maple Valley, with a population less than 100,000. Phase II municipalities are required to develop a Stormwater Management Program (SWMP) Plan including planned stormwater related actions and activities for the upcoming year and actions and activities taken in the previous year to achieve compliance. The Phase II MS4 permit requires municipalities to submit annual reports to DOE by March 31st each year to document the progress toward complete program implementation.

The current Phase II MS4 Permit was issued by the State of Washington, Department of Ecology (DOE) on August 1, 2013, and was extended to expire on July 31, 2019. 2019 is a transition year from the 2013-2018 Permit and the pending 2019-2024 Permit. This document only reflects the City’s plans for ongoing compliance with the 2013-2018 permit. The City cannot provide plans for complying with the 2019-2024 Permit, as it has not yet been issued by Ecology. Once the new Permit is issued in July of 2019, the City will begin the process of planning and making modifications to the existing SWMP with the intent of fully complying with the new permit requirements.

1.2 Departmental Implementation of Responsibilities

Within the City’s organization, several staff members will contribute toward meeting permit requirements. Currently, the Stormwater Management Program is primarily the responsibility of the Public Works and Community Development Department, who provide or implement inspection and maintenance of public and private stormwater facilities, spill response, development review, construction site inspection, public education and outreach, Illicit Discharge Detection and Elimination (IDDE) program, violation enforcement, planning efforts, and implementation of stormwater capital improvements. Ongoing support is provided by the IT department for mapping, the City Manager’s Office for records management and citizen information management, and the Parks and Recreation Department for maintenance support.

1.3 Document Organization

This report provides written documentation of the City's SWMP that is required to be submitted with the Phase II MS4 Permit Annual Report. In accordance with the Phase II MS4 Permit terms, the SWMP has been designed to reduce the discharge of pollutants to the Maximum Extent Practicable (MEP), meet All Known, Available, and Reasonable Methods of Prevention, Control and Treatment (AKART) requirements, and protect water quality. The following sections describe the actions that the City of Maple Valley has taken, or will take, to comply with the requirements of the Phase II MS4 Permit.

To aid in tracking NPDES permit requirements, this document has been organized into sections that correspond with the Special Conditions that are outlined in the Phase II MS4 Permit as follows:

- Section 2.0 - Public Education and Outreach; Special Condition S5.C.1
- Section 3.0 - Public Involvement and Participation; Special Condition S5.C.2
- Section 4.0 - Illicit Discharge Detection and Elimination (IDDE); Special Condition S5.C.3
- Section 5.0 Controlling Runoff from New Development, Redevelopment, and Construction Sites; Special Condition S5.C.4
- Section 6.0 Pollution Prevention and Operation and Maintenance for Municipal Operations; Special Condition S5.C.5
- Section 7.0 Monitoring and Assessment; Special Condition S8

Special Condition S7 Total Maximum Daily Load (TMDLs) does not apply to the City of Maple Valley.

The 2013-2018 Phase II MS4 Permit provides more detail on specific elements of each special condition and can be found on the City website. After the 2019-2024 Permit is issued in July 2019, it will be added to the City website.

2. PUBLIC EDUCATION AND OUTREACH S5.C.1

This section outlines the permit requirements and current and planned activities related to the Public Education and Outreach Program.

2.1 Permit Requirements

Section **S5.C.1** of the Permit requires the City to:

- Provide an education and outreach program designed to reduce or eliminate behaviors and practices that cause or contribute to adverse stormwater impacts and encourage the public to participate in stewardship activities. The education program may be developed and implemented locally or regionally. The program must:
 - Educate target audiences about stormwater problems and provide specific actions they can follow to minimize the problems. To build general awareness and to effect behavior change, the City will select from the following target audiences and subject areas and provide them information on appropriate best management practices (BMPs).

Target audiences for the City's program include:

- ✓ General public, including school-age children and businesses
- ✓ Engineers, contractors, developers, and land use planners

Subject areas include:

- ✓ General impacts of stormwater on surface waters.
- ✓ Impacts from impervious surfaces.
- ✓ Impacts of illicit discharges and how to report them.
- ✓ Low Impact Development (LID) principles.
- ✓ Opportunities to become involved in stewardship activities.
- ✓ Technical standards for stormwater site and erosion control plans.
- ✓ Stormwater treatment and flow control BMPs/facilities.

BMPs include:

- ✓ Use and storage of automotive chemicals, hazardous cleaning supplies, carwash soaps and other hazardous materials.
- ✓ Equipment maintenance.
- ✓ Prevention of illicit discharges.
- ✓ Yard care techniques protective of water quality.
- ✓ Use and storage of pesticides and fertilizers and other household chemicals.
- ✓ Carpet cleaning and auto repair and maintenance.
- ✓ Vehicle, equipment and home/building maintenance.
- ✓ Pet waste management and disposal.
- ✓ LID BMPs
- ✓ Stormwater facility maintenance.
- ✓ Dumpster and trash compactor maintenance.

- Create stewardship opportunities and/or partner with existing organizations to encourage residents to participate in activities such as stream teams, storm drain marking, volunteer monitoring, riparian plantings, and education activities.
- Measure the understanding and adoption of the targeted behaviors for at least one target audience in at least one subject above, no later than February 2, 2016. The City may meet this requirement individually or as a member of regional group.

2.2 2018 Activities

This section describes the activities that the City of Maple Valley implemented in 2018 to achieve the goals and objectives of a Public Education and Outreach Program.

- Maintained the City website including all necessary links, information, and BMPs for both City's IDDE and the Public Education and Outreach Program as follows:
 - 2018 SWMP Plan and 2017 Annual Report
 - Natural yard and lawn care
 - Low Impact Development
 - Puget Sound Rain Gardens
 - Scoop the Poop
 - 2009 King County Stormwater Pollution Prevention Manual: BMPs for Commercial, Multifamily, and Residential Properties
 - King County Code Title 9/MVMC 14.30.010 – Stormwater Code
 - Department of Ecology - Washington Waters
 - Construction Stormwater General Permit
 - Don't Drip and Drive: Fix That Leak!
 - Stormwater survey report
 - What is a Pollutant (Illicit Discharge)?
 - Storm drain marking information
 - Car wash kit program
 - Hotline number for illicit discharge and hazardous material/oil spills
 - Recommended BMPs for activities such as carpet cleaning, residential automobile repair and maintenance, landscaping activities and vegetation management, vehicle washing, pet waste and residential gardening and lawn care.
- Displayed stormwater educational brochures and BMPs at City Hall.
- Provided appropriate BMPs and informational brochures related to stormwater and water pollution concerns at community events including Maple Valley Days, the City's 20th Anniversary, the Fishing Derby, and farmer's markets.

- Distributed “How to Keep Surface Water Clean at Home and in The Yard” recommended BMP brochure to commercial stormwater facility managers and/or property owners, which is part of stormwater private inspection program.
- Partnered with ECOSS (an environmental nonprofit) to distribute free emergency spill kits and provide stormwater pollution information and brochures to local businesses and property owners.
- Partnered with the King County Hazardous Waste Management Program to distribute information, training, and spill kits to City of Maple Valley staff and properties.
- Supported Tahoma School District in their teaching curriculum for building general public awareness related to stormwater, targeting children at different grade levels.
- Informed applicants, developers, engineers, contractors, and land use planners of the design standard requirements for stormwater treatment and flow control facilities, LID principles, and erosion and sediment control during pre-applicant meetings or as opportunities arose.
- Inspected commercial stormwater facilities and provided recommended BMPs and other educational materials to property managers and/or property owners.
- Implemented a car wash kit program for fund raising events.
- Tracked and maintained records including the costs of staff time related to the implementation of the Public Education and Outreach Program.
- Reviewed and evaluated the existing Public Education and Outreach Program.
- Evaluated the need for additional materials and subject areas.
- Participated in regional forums such as Stormwater Outreach for Regional Municipalities (STORM), Puget Sound Start Here, and NPDES coordinator meetings in an effort to maintain consistent messaging, share tools and strategies.

2.3 2019 Planned Activities

This section outlines the City of Maple Valley’s implementation plan for 2019 to achieve the goals and objectives of the Public Education and Outreach Program.

- Continue to maintain the City’s website including all necessary links, information, and brochures for the City IDDE and Public Education and Outreach Program.
- Continue to display stormwater educational brochures and BMPs at City Hall.
- Continue to provide informational brochures related to stormwater and water quality pollution concerns at community meetings and events as opportunities arise.
- Continue to distribute “How to Keep Surface Water Clean at Home and in The Yard” recommended BMP brochure to commercial stormwater facility managers and/or property owners, which is part of the stormwater private inspection program.
- Continue to partner with the King County Hazardous Waste Management Program to

distribute information, training, and spill kits to all businesses within the City Maple Valley.

- Continue to support Tahoma School District in their teaching curriculum for building general public awareness related to stormwater, targeting children at different grade levels.
- Continue to improve general awareness of stormwater impacts among engineers, contractors, developers, and land use planners by providing them applicable handouts during pre-application meetings and/or other meeting as opportunities arise.
- Continue to inspect commercial stormwater facilities and provide recommended BMPs and other educational materials to property managers and/or property owners.
- Continue to implement the car wash kit program for local fund raising events.
- Continue to implement Adopt-a-Road Litter Pickup program.
- Reinstigate the Storm Drain Marking Program and to create more stewardship opportunities and/or partner with existing organizations to encourage residents to mark or re-mark drains.
- Continue to track and maintain records including the costs of staff time related to the implementation of the Public Education and Outreach Program.
- Continue to review and evaluate the existing Public Education and Outreach Program.
- Continue to evaluate the need for additional materials and subject areas.
- Continue to participate in the stormwater regional outreach forums and meetings.

2.4 Lead Department and Support

The Public Works and Community Development Department will lead the implementation of the Public Education and Outreach Program with the assistance of other departments and private consultants as needed.

3. PUBLIC INVOLVEMENT AND PARTICIPATION

This section outlines the permit requirements and current and planned activities related to the Public Involvement and Participation Program.

3.1 Permit Requirements

Section **S5.C.2** of the Permit requires the City to:

- Provide ongoing opportunities for public involvement and participation through advisory councils, public hearings, watershed committees, participation in developing rate structures, or other similar activities.
- Create opportunities for the public to participate in the decision-making processes involving the development, implementation, and update of the SWMP.
- Post on the City's website the SWMP Plan and the annual report no later than May 31st of each year. All other submittals shall be available to the public upon request.

3.2 2018 Activities

This section describes the activities that the City of Maple Valley implemented in 2018 to achieve the goals and objectives of the Public Involvement and Participation Program.

- Implemented volunteer water quality monitoring under the Lakes Management Program. The City contracted with the King County Department of Natural Resources, Water and Land Resources Division, to monitoring water quality in Lake Lucerne, Pipe Lake, and Lake Wilderness, with the assistance of volunteers. City and King County staff were available to discuss water quality topics with citizens or volunteer groups and to provide public information.
- Maintained the Lake Management District Citizen Advisory Committee, which partners with City staff to determine future aquatic plant management activities and implements education efforts to inform lake users about lake management activities.
- Supported Tahoma School District in their teaching curriculum for building general public awareness related to stormwater, targeting children at different grade levels.
- Posted the City's 2018 Surface Water Management Plan (SWMP) on the front page of the City's website under news and update information with request for public comments for the proposed Plan. Public comments were accepted throughout the implementation of the plan.
- Posted the most current version of Annual Report and SWMP Plan on the City's website under Surface Water Management and NPDES Phase II along with previous annual reports and SWMP Plans.

3.3 2019 Planned Activities

This section outlines the City of Maple Valley's implementation plan for 2019 to achieve the goals and objectives of the Public Involvement and Participation Program.

- Continue contracting with the King County Water and Land Resources Division to implement the volunteer Lakes Water Quality Monitoring Program for Lake Lucerne, Pipe Lake, and Lake Wilderness.
- Continued active involvement with the Lake Wilderness Citizen Advisory Committee.
- Continue to support the Tahoma School District in their teaching curriculum for building general public awareness related to stormwater, targeting children at different grade levels.
- Reinstitute the Storm Drain Marking Program to capture any areas that have not been marked or where markers have been removed and consider creation of other opportunities for public involvement and participation as opportunities arise.
- Provide opportunities for public to be involved in the rate study that will commence in 2019.
- Provide ongoing opportunities for public involvement and participation through public meetings.
- Post the 2019 SWMP Plan on the City's website and accept public comments throughout the implementation of the Plan.
- Post the 2018 Annual Report and SWMP Plan on the City's website under Surface Water Management and NPDES Phase II along with previous annual reports and SWMP Plans.
- Continue to evaluate public comments based upon the current permit requirements, consistency with City codes and policies, and the costs and benefits.

3.4 Lead Department and Support

The Public Works and Community Development Department will take the lead in Public Involvement activities and collaborate with Parks and Recreation and the City Manager's office where possible.

4. ILLICIT DISCHARGE DETECTION AND ELIMINATION

This section outlines the permit requirements and current and planned activities related to the Illicit Discharge Detection and Elimination Program.

4.1 Permit Requirements

Section **S5.C.3** of the Permit requires the City to:

- Map the City's stormwater system on an ongoing basis. The map shall be updated periodically.
- Implement an ordinance or other regulatory mechanism to effectively prohibit non-stormwater illegal discharges and/or dumping into the City's stormwater system.
- Implement an ongoing program designed to detect and identify non-stormwater discharges and illicit connections into the City's stormwater system, This includes performing field screening of the stormwater system for IDDE, listing and publicizing a hotline for reporting spills and other illicit discharges, and having an ongoing training program for all municipal field staff who might come into contact or observe an illicit discharge and/or illicit connection.
- Implement an ongoing program designed to address illicit discharges, including spills and illicit connections into the City's Stormwater System.
- Provide appropriate training for City staff responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges, including spills and illicit connections to the City's stormwater system. The City will document and maintain records of the training provided and staff trained.
- Track and maintain records of the activities conducted to meet the requirements of this section.

4.2 2018 Activities

This section describes the activities that the City of Maple Valley implemented in 2018 to achieve the goals and objectives of the Illicit Discharge Detection and Elimination Program.

- Continued to verify, update, and maintain stormwater Geographic Information System (GIS) mapping and map new stormwater systems permitted by the City, which were connected to the City stormwater system or discharged to the surface waters of the City.
- Continued to implement Maple Valley Municipal Code (MVMC) 14.30 (Ordinance 16-608) to effectively prohibit non-stormwater and illicit discharges into the City stormwater system or surface waters. Enforcement was performed as necessary.
- Implemented ongoing IDDE program, including the use of standard operation procedures (SOPs) for spills, IDDE responses, and field screening methodology and investigation activities to trace the source of an illicit discharge. The City has contracted with a closed-circuit television (CCTV) service provider for tracing the source of IDDE when necessary.
- Performed field screening as required per S5.3.c.i. as part of inspections of public stormwater facilities, through CCTV of new stormwater construction, and dry weather outfall inspections.

- Maintained hotline phone numbers for public reporting of spills and other illicit discharges/connections. These numbers are:
 - During business hours: (425) 413-8800
 - After business hours: (206) 391-4212

Records were kept and action was taken as a result of these reports.

- Maintained an interlocal agreement with King County for source tracing services.
- Implemented a training program for City staff for identification, investigation, and cleaning up of spill response and illicit discharge.
- Provided opportunities for trainings, seminars, and workshops for City staff related to spill response and IDDE investigation.
- Partnered with King County Hazardous Waste Management Program to provide information, training, and spill kits to City of Maple Valley staff and properties. The ultimate goal was to prevent/eliminate polluted runoff or hazardous waste discharges into the stormwater system or into surface waters.
- Continued to implement procedure for characterizing the nature of, and potential public or environmental threat posed by, any illicit discharges found by or reported to the City.
- Tracked stormwater and water quality complaints, investigations, and actions taken to remove, cleanup, trace, remedy, and inform responsible parties of IDDE issues.
- Documented and maintained records of all investigated spill responses and actions taken.
- Informed public employees, businesses, and the general public of hazards associated with illegal discharge and improper disposal of waste through our education and outreach and public involvement program. Public information notices were a part of the public education and outreach program. The strategies used included publishing this information on the City website, sending e-mails to staff, providing handouts during Maple Valley Days, the City's 20th Anniversary, the Fishing Derby, farmers markets, and other events, and meetings in person with targeted audiences.
- Obtained water quality trend data from volunteer Lakes Water Quality Monitoring Program and took required appropriate actions with the goals to improve water quality and eliminate illicit connections and discharges.

4.3 2019 Planned Activities

This section outlines the City of Maple Valley's implementation plan for 2019 to achieve the goals and objectives of the Illicit Discharge Detection and Elimination Program.

- Continue to maintain and periodically update the stormwater GIS map.
- Continue to implement MVMC 14.30 (Ordinance 16-608) to effectively prohibit non-stormwater and illicit discharges into the City stormwater system or surface waters.
- Continue to implement ongoing IDDE Program including the use of SOPs for spills, IDDE

response, and field screening methodology and investigation activities to trace the source of a suspected illicit discharge or connection. The City will continue to have an on-call contract with a CCTV service provider for tracing the source of IDDE when necessary.

- Continue to conduct IDDE field screenings during inspections of public stormwater facilities, through CCTV of new stormwater construction, and dry weather outfall inspections.
- Continue to maintain a hotline for public reporting of spills, illicit discharges and connections.
- Continue to maintain an interlocal agreement with King County for source tracing services.
- Continue to provide appropriate training to City staff for spill response and IDDE.
- Continue to keep track of the records related to stormwater and water quality complaints/concerns including all appropriate actions taken.
- Continue to inform public employees, businesses, and the general public of hazards associated with illegal discharge and improper disposal of waste through education and outreach and public involvement programs as opportunities arise. Continue to use strategies including publishing this information on the City's website, sending e-mails to staff, and providing handouts during public meetings and events.
- Continue to obtain and evaluate water quality trend data from volunteer Lakes Water Quality Monitoring Program and take appropriate actions as necessary with the goal to improve water quality and eliminate illicit connections and discharges.
- Continue to partner with King County's Hazardous Waste Management Program to provide on-site technical assistance and education and outreach to small businesses in order to prevent polluted runoff from entering the stormwater system.

4.4 Lead Department and Support

The Public Works and Community Development Department will take the lead in implementation of the IDDE Program.

5. CONTROLLING RUNOFF FROM NEW DEVELOPMENT, REDEVELOPMENT AND CONSTRUCTION SITES

This section outlines the permit requirements and current and planned activities related to the Controlling Runoff from New Development, Redevelopment, and Construction Sites program.

5.1 Permit Requirements

Section **S5.C.4** of the Permit requires the City to:

- Implement an ordinance or other enforceable mechanism that addresses runoff from new development, redevelopment, and construction sites projects.
- Implement a permitting process with site plan review, inspection, and enforcement capacity to meet standards listed in (i) through (iv) of section S5 C.4b for both public and private projects.
- Include provisions to verify adequate long-term operation and maintenance (O&M) of stormwater treatment and flow control BMPs/facilities that are permitted and constructed pursuant to section S5 C.4b. No later than December 31, 2016, the provision will include the listed requirements specified in section S5 C.4c.
- Make available copies of the “Notice of Intent for Construction Activity” and copies of the “Notice of Intent for Industrial Activity” to representatives of proposed new development and redevelopment. The City will continue to enforce local ordinances controlling runoff from sites that are also covered by stormwater permits issued by Washington State DOE.
- Ensure that all City staff whose primary job duties are implementing the program to control stormwater runoff from new development, redevelopment, and construction sites, including permitting, plan review, construction site inspections, and enforcement, are trained to conduct these activities. Follow up training shall be provided as needed. The City will document and maintain records of the training provided and the staff members trained.
- No later than December 31, 2016, review, revise, and make effective City’s local development-related codes, rules, or other enforceable documents to incorporate and require LID principles and BMPs. The intent of the revision shall be to make LID the preferred and commonly-used approach to site development.

5.2 2018 Activities

This section describes the activities the City of Maple Valley implemented in 2018 to achieve the goals and objectives of the Controlling Runoff from New Development, Redevelopment, and Construction Sites Program.

- Continued to implement MVMC 14.30 (Ordinance 16-608) to address runoff from new development, redevelopment and construction sites projects.
- Implemented standard requirements and procedures for development review and inspections.

- Reviewed stormwater site plans and conducted site inspections for new development and redevelopment projects related to sediment and erosion control and stormwater runoff concerns.
- Conducted construction site inspections and applied necessary enforcements for new development and redevelopment for addressing sediment and erosion control and stormwater runoff issues when necessary.
- Conducted site inspections for new City-owned stormwater facilities. Documented and maintained all inspection and maintenance records.
- Implemented a procedure for maintaining records of all inspections, warning letters and enforcement records. These records were kept as a hard copy and electronically.
- Implemented an enforcement strategy to respond to issues of non-compliance.
- Inspected all new stormwater treatment and flow control facilities permitted by the City that discharge into the City’s stormwater or surface water system.
- Inspected all permanent stormwater treatment and flow control facilities, and catch basins in new residential developments every 6 months until 90% of lots were constructed.
- Provided appropriate copies of the “Notice of Intent for Construction Activity” and “Notice of Intent for Industrial Activity” to representatives of proposed new development and redevelopment sites.
- Provided Certified Erosion and Sediment Control Lead (CESCL) training opportunities to relevant City staff.
- Used LID design approach for a City’s Capital Improvement Projects (CIP) when feasible.
- Adopted and utilized the 2016 King County Surface Water Design Manual to incorporate LID principles and BMPs for site developments.

5.3 2019 Planned Activities

This section outlines the City of Maple Valley’s implementation plan for 2019 to achieve the goals and objectives of the program to Control Runoff from New Development, Redevelopment, and Construction Sites Program.

- Continue to implement MVMC 14.30 (Ordinance 16-608) to address runoff from new development, redevelopment and construction sites projects.
- Continue to implement standard requirements and procedures for development review and inspections.
- Continue to review stormwater site plans and conduct site inspections for new development and redevelopment projects related to sediment and erosion control and stormwater runoff concerns.
- Continue to conduct site inspections for new development and redevelopment projects related the proper installation, and maintenance of stormwater system during construction phase.

- Continue to conduct site inspections for CIP related erosion and sediment control during construction phase.
- Conduct site inspections for new City-owned stormwater facilities and document and maintain all inspection and maintenance records.
- Continue to maintain records of all inspections, warning letters and enforcement records
- Continue to follow enforcement strategy procedures to respond to issues of non-compliance.
- Continue to inspect all new stormwater treatment and flow control facilities permitted by the City that discharge into the City’s stormwater or surface water system.
- Continue to inspect all permanent stormwater treatment and flow control facilities, and catch basins in new residential developments every 6 months until 90% of lots were constructed.
- Continue to provide necessary CESCL training and/or other training opportunities to relevant staff performing site plan reviews and inspections of new and redevelopment projects. Continue to keep track of all City staff training records related to stormwater and sediment runoff control for new and re-development sites.
- Continue to provide appropriate/applicable copies of the “Notice of Intent for Construction Activity” and “Notice of Intent for Industrial Activity” to representatives of proposed new development and redevelopment
- Continue to implement City’s codes, rules, standards, 2016 King County Surface Water Design Manual to ensure that LID can be used as the preferred and commonly-used approach to site developments as it is determined feasibilities.

5.4 Lead Department and Support

The Public Works and Community Development Department will take the lead in addressing control of runoff from new and redeveloped site. This department includes development engineers who will provide plan review, and construction inspectors who will perform inspection tasks, enforce requirements, and keep necessary records.

6. POLLUTION PREVENTION AND OPERATION AND MAINTENANCE FOR MUNICIPAL OPERATIONS

This section outlines the permit requirements and current and planned activities related to the Pollution Prevention and Operation and Maintenance for Municipal Operations program.

6.1 Permit Requirements

Section **S5.C.5** of the Permit requires the City to:

- Implement maintenance standards that are as protective or more protective of facility function than those specified in Chapter 4 or Volume V or the *Stormwater Management Manual for Western Washington* and must develop standards for facilities that do not have maintenance standards.
- Perform annual inspection of all municipally owned or operated permanent stormwater treatment and flow control BMPs/facilities, and taking appropriate maintenance actions in accordance with the adopted maintenance standards.
- Perform spot checks of potentially damaged permanent stormwater treatment and flow control BMPs/facilities after major storms (24-hour storm event with a 10-year or greater recurrence interval rainfall) storm events. If spot checks indicate widespread damage/maintenance needs, inspect all stormwater treatment and flow control BMPs/facilities that may be affected. Conduct repairs or take appropriate maintenance action in accordance with maintenance standards established above, based on the results of the inspections.
- Inspect all catch basins and inlets owned or operated by the City at least once prior to August 1, 2017 and every two years thereafter. Clean catch basins if the inspection indicates that cleaning is needed to comply with maintenance standards.
- Implement practices, policies, and procedures to reduce stormwater impacts associated with runoff from all lands owned or maintained by the City and road maintenance activities under functional control of the City.
- Implement an on-going training program for employees of the City whose construction, operations, or maintenance job functions may impact stormwater quality. Follow-up training shall be provided as needed to address changes in procedures, techniques, or requirements. The City shall document and maintain records of training and the staff provided.
- Implement a Stormwater Pollution Prevention Plan (SWPPP) for all heavy equipment maintenance or storage yards and material storage facilities owned or operated by the City.
- Maintain records of inspections and maintenance or repair activities conducted by the City.

6.2 2018 Activities

This section describes the activities Maple Valley implemented in 2018 to achieve the goals and objectives of the Pollution Prevention and Operation and Maintenance Program.

- Continued to utilize the 2016 King County Surface Water Design Manual, Appendix A – *Maintenance Requirement for Flow Control, Conveyance, and Water Quality Facilities* as guiding maintenance standards for all stormwater facilities.
- Inspected all City-owned stormwater treatment and flow control facilities. All facilities that required cleaning or maintenance based on 2017 inspections were maintained in 2018.
- Continued to work to clean all City-owned catch basins within a two-year cycle. Catch basins are cleaned at the same time as inspections are performed by Jenkin’s Pipeline Services.
- Continued to implement established SOPs for reducing stormwater impacts from runoff from City owned and maintained lands.
- Implemented ongoing street sweeping program.
- City staff participated in meetings and seminars related to the reduction of stormwater impact associated with land or road maintenance owned and maintained by the City.
- Partnered with King County’s Hazardous Waste Management Program to provide on-site technical assistance and education and outreach to the City’s Public Works Facility, Parks and Recreation Maintenance Facility, and the Lake Wilderness Golf Course Facility.
- Maintained records of trainings participated in by maintenance staff.
- Continued to implement SWPPPs for all of the City’s heavy equipment and material maintenance storage facilities.
- Documented and maintained records of all inspection and maintenance activities.

6.3 2019 Planned Activities

This section outlines the City of Maple Valley’s implementation plan for 2019 to achieve the goals and objectives of the Pollution Prevention and Operation and Maintenance Program.

- Continue to utilize the 2016 King County Surface Water Design Manual, Appendix A – *Maintenance Requirement for Flow Control, Conveyance, and Water Quality Facilities* as guiding maintenance standards for all stormwater facilities.
- Inspect all City-owned stormwater treatment and flow control facilities and clean or maintain all facilities identified during 2018 inspections.
- Conduct spot checks, if necessary, of potentially damaged permanent treatment and flow control facilities after major storm events (24 hour storm event with a 10 year or greater recurrence interval).
- Inspect and clean remaining catch basins that have not yet been cleaned since the beginning of the two-year cycle on August 1, 2017, prior to August 1, 2019.

- Continue to implement established SOPs for reducing stormwater impacts from runoff from City owned and maintained lands.
- Continue to implement ongoing street sweeping program.
- Provide follow-up training on inspection and maintenance requirements, spill prevention and clean-up procedures, and BMP selection.
- Continue to implement SWPPPs for all of the City's heavy equipment and material maintenance storage facilities.
- Move toward all electronic collection and storage of inspection and maintenance data utilizing field tablet and online GIS and asset management software.

6.4 Lead Department and Support

The Public Works and Community Department, with the corporation of the Parks and Recreation Department, will take the lead in addressing Operations and Maintenance Requirements.

7. MONITORING AND ASSESSMENT

This section outlines the permit requirements and current and planned activities related to water quality monitoring and assessment.

7.1 Permit Requirements

- In each annual report, the City will provide a description of stormwater monitoring or stormwater related studies conducted by the City during the report period. However, the description is not required if the City participates in the Regional Stormwater Management Program (RSMP).
- No later than December 1, 2013, the City would notify DOE in writing whether it will be paying into a collective fund to implement RSMP or perform independent status and trends monitoring during this permit cycle.
- No later than December 1, 2013, the City would notify DOE in writing whether it will be paying into a collective fund to implement RSMP effectiveness studies or conduct stormwater discharge monitoring independently during this permit cycle.
- Beginning on August 15, 2014, the City shall pay annually into a collective fund to DOE for implementation of the RSMP Source Identification Information Repository (SIDIR).

7.2. 2018 Activities

This section describes the activities Maple Valley implemented in 2018 to achieve the goals and objectives of the Monitoring and Assessment section.

- Paid (contributed) into the collective fund to implement the RSMP. The City selected Status and Trends Monitoring Option #1 and Effectiveness Studies Option #1
- Paid (contributed) into collective fund to implement the RSMP for SIDIR.

7.3. 2019 Planned Activities

- Continue to pay (contribute) into collective fund to implement the RSMP for Status and Trends Monitoring and Effectiveness Studies.
- Continue to pay (contribute) into collective fund to implement the RSMP for SIDIR.

7.4 Lead Department and Support

The Public Works and Community Development Department will take the lead in implementation of Monitoring and Assessment Program.

8. CONCLUSION

This SWMP summarized the City's compliance with the NPDES Phase II requirements. This SWMP will be annually updated to reflect progress with implementing the required stormwater management program components. The Public Works and Community Department greatly encourages the citizens and businesses of Maple Valley to review this SWMP and provide feedback to the City. The key contact person at the City is:

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