

2019 Stormwater Management Program Plan (SWMP) for City of Woodinville

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City of Woodinville, Washington

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1 INTRODUCTION

1.1 Overview and Background

The National Pollutant Discharge Elimination System and State Waste Discharge General Permit for Discharges from Small Municipal Separate Storm Sewers in Western Washington, also known as the Western Washington Phase II Permit (Permit), outlines stormwater program activities and implementation milestones that permittees must follow to comply with federal Clean Water Act and the State Water Pollution Control Law. Phase II permittees are expected to develop a Stormwater Management Program Plan (SWMP) that includes the required activities, to implement those activities within the required timeframes of the permit, and to submit annual reports to Washington Department of Ecology (Ecology) by March 31st of each year.

The current Permit was issued by Ecology on August 1, 2012 and became effective on August 1, 2013. It was modified and re-issued with an effective date of January 16, 2015. The permit covered a five-year period from August 1, 2013 to July 31, 2018. On June 19, 2017, Ecology extended the 2013-2018 Permit for one additional year to July 31, 2019. The new Permit will be reissued on July 1, 2019 and will be effective from August 1, 2019 through July 31, 2024.

The Phase II Permit applies to cities, counties, and special districts meeting various criteria. Woodinville qualifies as a Phase II municipality because it has a population less than 100,000 located within, or partially within, an urbanized area and operates a municipal separate storm sewer system (MS4) which discharges to a water of Washington State. Urbanized areas are defined as population centers with greater than 50,000 people and densities of at least 1,000 people per square mile, and are based on the 2000 census. The City is located within the greater Seattle urbanized area with discharges to several high quality surface waters. Consequently, Ecology issued the City a Phase II Permit on January 17, 2007.

Stormwater discharges from the City enter several surface water bodies, including the Sammamish River, Little Bear Creek, Woodin Creek, Derby Creek, Cold Creek, and Juanita Creek. A portion of the City's drainage system also discharges to Lake Leota.

1.2 Distribution of Responsibilities

Within the City organization, several departments contribute to meeting permit requirements. Currently, the stormwater management program is primarily the responsibility of the Public Works Department. The Public Works Department provides development review, mapping, maintenance (including City parks), spill response, Illicit Discharge Detection and Elimination (IDDE), inspection, and capital project administration. The Development Services Department provides permitting and planning services. Ongoing support is provided by the Police Department (code enforcement), Fire Department (code enforcement and permitting services), Executive Department (volunteer coordination, City Manager), and Administrative Services (Stormwater Utility billing, records retention).

1.3 Document Organization

This report comprises written documentation of the City's SWMP that is required to be updated annually. In accordance with the 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 to protect water quality. The following sections describe the actions that Woodinville has, or will, take to comply with the requirements of the Permit.

- Section 2 – Public Education and Outreach, Special Condition S5.C.1
- Section 3 – Public Involvement and Participation, Special Condition S5.C.2
- Section 4 – Illicit Discharge Detection and Elimination (IDDE), Special Condition S5.C.3
- Section 5 – Controlling Runoff from New Development, Redevelopment, and Construction Sites, Special Condition S5.C.4
- Section 6 – Pollution Prevention and Operation and Maintenance for Municipal Operations, Special Condition S5.C.5
- Section 7 – Total Maximum Daily Load Compliance, Special Condition S7
- Section 8 – Monitoring and Assessment, Special Condition S8

Additional Permit conditions, such as Special Conditions S1 through S4 and General Conditions G1 through G20, apply to permittees, though they do not result in specific planned program activities. The SWMP is not required to document compliance with these activities. These conditions cover topics such as applicability of the Permit, permit-authorized discharges, and legal guidelines for transferring, revoking, and appealing the Permit. Penalties for non-compliance are also included in these conditions.

It is important to note that in 2019 the City launched a new website that is in the process of being updated. Consequently, any website addresses and/or online content listed below refers to the website that was available to the public throughout 2018 (unless otherwise described).

1.4 Additional Stormwater Activities

In addition to implementing the Permit, the City focuses resources and staff on other stormwater activities.

In December of 2010, the City completed an update to the Comprehensive Stormwater Management Plan (CSWMP). In addition to Permit compliance, the City needs to be in compliance with a number of other local, regional and state requirements including the Puget Sound Partnership Action Agenda (Action Agenda) for cleaning up Puget Sound, the State's Underground Injection Control (UIC) Rule that governs stormwater infiltration, the Endangered Species Act (ESA), and the regional Watershed Resource Inventory Area (WRIA) habitat enhancement plan for the Lake Washington Watershed. These regulations will be integrated with the City's CIP needs and basin planning priorities as the CSWMP is implemented and through future updates.

The City is dedicated to stormwater infrastructure improvements. In 2016, the City updated CIP projects as part of the CSWMP that included projects to treat stormwater and enhance water quality. In 2016, the City completed construction of the Sammamish River Outfall Retrofit project that provides treatment for 52 acres of commercial land use before discharging into the Sammamish River, a \$1.7 million project. The City funded this project partially

through a grant from Ecology. The City has also completed the Lake Leota Stormwater Quality Retrofit project, which routes roadway runoff through manufactured bioretention systems to reduce pollutants entering Lake Leota.

Transportation CIPs also are designed to meet stormwater treatment and flow control standards where required. For example, the City completed the roadway widening at Woodinville-Duvall Road, which includes providing treatment of roadway runoff through a sand filter before being discharged to Lake Leota. The City is also projected to complete the Sammamish Bridge Road Widening Project in Spring of 2019, which includes providing treatment of roadway runoff through biofiltration systems before being discharged to the Sammamish River. The City is also nearing completion of the NE 171st Urban Parkway Project, started in 2018, which will reduce local flooding and enhance fish access by replacing two existing culverts on Woodin Creek. The scoping process for a downtown detention system will also begin in 2019 to facilitate stormwater management in a more land-efficient manner. Additionally, the City also plans in 2020 to begin the scoping process to replace three undersized culverts with a one lane bridge over Little Bear Creek at 134th Ave.

The City tracks stormwater costs through the annual budgeting process and tracks stormwater related expenditures paid for by the Stormwater Utility. This includes cost tracking for the Permit, as it is a cost to the stormwater program.

2 PUBLIC EDUCATION AND OUTREACH

This section describes the Permit requirements, programs, and activities related to Public Education and Outreach.

2.1 Permit Requirements

Special Condition S5.C.1 requires the following:

- Develop and administer an education program 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 program must target residents, businesses, industry (engineers, contractors, developers), and city employees at all levels, including land use planners.
- Provide an education and outreach program designed to educate target audiences about the stormwater problem and provide specific actions they can follow to minimize the problem.
- Create stewardship opportunities to encourage residents to participate in activities such as stream teams, storm drain marking, volunteer monitoring, riparian plantings and education activities.
- Measure adoption of targeted behaviors for at least one target audience in at least one subject area. Use the resulting measurements to direct outreach resources most effectively and to evaluate changes in adoption of the targeted behaviors.

2.2 Programs and Activities

Woodinville's ongoing public education and outreach activities include:

- Provides a webpage that discusses stormwater topics including: the City's water resources, information on the impacts of stormwater runoff, and links to stormwater quality documents including the 2017 NPDES Annual Report and 2018 Storm Water Program Plan.
- Publishes articles related to stormwater in the City newsletter "Woodinville Wire". Provides links to "Puget Sound Starts Here" in these articles, a crowdsourcing effort working in collaboration with government entities, tribes, non-profits, and more to help reduce pollution in local waterways and Puget Sound.
- Distributes a brochure addressing stormwater basics at the City information counter.
- Shows stormwater videos on local television stations, including the City's own Woodinville TV.
- Provides car wash kits to fundraising groups.
- Accepts requests for volunteer storm drain stenciling.
- Works with Mountain to Sound Greenway and local volunteers to restore riparian habitat restoration along Little Bear Creek. This helps improve fish habitat, clean water, and support stable water flows.
- Conducts volunteer planting events as a part of the City's effort to retain its "Tree City" designation.
- Participates in King County's Salmon Watchers program and provide Salmon Education Kits to educators to provide a better understanding of the relationships between water quality, watershed health, and salmon biology.

Past activities include:

- Adopted King County training and information on 2009 *King County Surface Water Design Manual*.
- Adopted and updated its staff training program to the 2016 King County Surface Water Design Manual.
- Provided support to Scout troops and other groups in installing *Puget Sound Starts Here* plaques at catch basins.
- Promoted tree planting along the Sammamish River and elsewhere in the City during the annual Arbor Day Celebration.
- Conducted volunteer planting events as part of the annual Sammamish ReLeaf project.
- Organized volunteers to restore riparian habitat along the Sammamish River and Little Bear Creek through the Sammamish River Stewards program. Activities included control of invasive species and maintenance and replacement of native plants.
- In 2009, educated winery facilities about proper wine production waste disposal; the liquid portion of which needs to be directed to the sanitary sewer.
- In 2009, completed a community survey and a follow-up survey in 2011 to determine current understanding of stormwater issues.
- From 2015 – 2018, was an active stakeholder in the development of the Bear Creek Watershed Management Study and shared recommendations of the Study to protect and restore the watershed over the long-term.
- In 2016, in support of the effort to update development and engineering standards to incorporate low impact development (LID), the City hosted two Open Houses, which also provided general information to the public about LID principles and best management practices, as well as the impacts of urbanization and impervious surfaces on surface waters.
- In 2017, the City implemented an education and outreach campaign to reduce the amount of chlorinated water entering the stormwater system within the City of Woodinville.

Activities conducted in 2017 included:

- An online survey to gauge residential awareness about the possible effects of chlorinated pool and hot tub water flowing into storm drains, and to determine factors that play a role in the decisions while draining a pool or hot tub. Notification of the survey was provided in the Woodinville Weekly, Woodinville Wire, press releases on the City website, the City twitter feed, and bulk mail postcards. Entry into a prize drawing was offered for participation in the survey.
- Created and distributed a Pool and Hot Tub Disposal Brochure to raise awareness of the potential environmental impacts of pool and hot tub disposal practices and clearly define the proper techniques for protecting water quality when disposing of pool or hot tub water. The Pool and Hot Tub Disposal Brochure was mailed to Woodinville residents, made available at local pool and hot tub supply companies, and distributed at community events.
- Developed a news article about pool and hot tub water disposal issues and shared it through local news and media outlets.
- Placed “snackable ads” focusing on pool and hot tub water disposal on relevant websites and social media.

Activities in 2018 included:

- Conducted a follow-up survey of pool and hot tub owners that responded to the initial target audience research survey in 2017
- Completed the Final Campaign Report that documented the effectiveness of the education and outreach campaign and identified changes needed to increase future success.
- In November 2018, conducted a volunteer planting day in Rotary Park.

2.3 Planned Activities

Planned activities for 2019 include:

- Continue ongoing efforts noted above.
- Create opportunities to work with local volunteers to restore riparian habitat along Little Bear Creek in Rotary Community Park and Little Bear Creek Park.
- Create stewardship and volunteer activities as a part of the 2019 Arbor Day celebration.

2.4 Lead Department and Support

The Public Works Department leads this section of the program, with support from the Development Services, Administrative Services, and Executive Departments.

3 PUBLIC INVOLVEMENT

This section describes the Permit requirements, programs, and activities related to Public Involvement.

3.1 Permit Requirements

Special Condition S5.C.2 of the Permit requires the City to:

- Provide ongoing opportunities for public involvement through advisory boards and commissions, public participation in developing rate structures and budgets, or other similar activities. The public must be able to participate in the decision-making processes involving the development, implementation, and update of the Stormwater Management Program.
- Make the SWMP document and Annual Report available to the public. Post these documents on the City's website.

3.2 Programs and Activities

Woodinville's ongoing public involvement activities include:

- Posts Annual Reports, including attached SWMP Plans, on the City's stormwater webpage.
- Provides the community opportunity to submit comments on the City's List of Capital Projects, including projects that encompass surface water, on the City's website, and submit proposed changes to the Comprehensive Plan through the City's docket process.

Past activities include:

- In December 2010, completed the Comprehensive Stormwater Management Plan (CSWMP).
- Held neighborhood meetings to receive input on the Lake Leota Stormwater Quality Retrofit project and the Woodinville-Duvall Road Widening project.
- In 2016, held two open houses to receive input on the update the development codes and engineering standards to incorporate low impact development and to adopt the *2016 King County Surface Water Design Manual* for engineering design.
- From 2015 – 2018, engaged as a stakeholder in the development of the Bear Creek Watershed Management Study. Shared recommendations of the Study to protect and restore the watershed over the long-term, and provided the public the opportunity to provide input and comments on the draft Bear Creek Watershed Management Study, including a March 2018 Public Meeting.
- Every two-year budget cycle, the City updates its Capital Improvement Plan (CIP) to reflect the most current needs of the City regarding public infrastructure, including projects that encompass surface water. Woodinville implemented the following activities to provide the public opportunities to engage in the CIP process throughout 2018:
 - Provided information on the City's website regarding the CIP process and opportunities for public involvement.

- Issued a press release and include notices in the Woodinville Wire providing the community information about the CIP process and opportunities for public involvement.
- Provided an online form for the public to nominate capital projects online through the City's website
- Held several joint commission meetings between the Planning Commission, the Parks and Recreation Commission, and the Tree Board (now disbanded to create the Public Spaces Commission) to be held throughout the year.

3.3 Planned Activities

Planned activities for 2019 include:

- Continue ongoing efforts noted above.
- Post the 2018 NPDES Annual Report and 2019 Stormwater Management Plan on the stormwater webpage and solicit feedback for 2019 Annual Reports.
- Provide an online form for the public to nominate capital projects online through the City's website.

3.4 Lead Department and Support

The Public Works Department leads this section of the program, with support from Administrative Services.

4 ILLICIT DISCHARGE DETECTION AND ELIMINATION

This section describes the permit requirements, programs, and activities related IDDE.

4.1 Permit Requirements

Special Condition S5.C.3 of the Permit requires the City to:

- Implement an ongoing program to prevent, detect, characterize, trace, and eliminate illicit discharges, illicit connections, and improper disposal into the MS4.
- Develop a storm sewer system map including all known discharge points and connections to other public entities, and update it on an ongoing basis.
- Implement an ordinance to prohibit non-stormwater illicit discharges that includes a compliance strategy with informal compliance actions such as public education and technical assistance with source control and BMP maintenance; escalating enforcement penalties; and an enforcement strategy.
- Implement an ongoing program to detect and identify non-stormwater discharges and illicit connections to the MS4 that includes field screening. Document the field screening method used in the Annual Report.
- Publicize a hotline or other local telephone number for reporting of spills or other illicit discharges. Track illicit discharge reports and actions taken in response to calls.
- Implement an ongoing program to address illicit discharges and illicit connections, including procedures for characterizing illicit discharges, tracing the source, and eliminating the discharge through notification, technical assistance, inspections, and escalating enforcement.
- Train staff responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges and illicit connections.
- Track and maintain records of the activities conducted to meet the requirements of S5.C.3.

4.2 Programs and Activities

Woodinville's ongoing IDDE activities include:

- Maintains a storm sewer map in multiple electronic formats and uses standard operating procedures for keeping the municipal separate storm sewer system map and inventory up-to-date. Stormwater system mapping is complete. The map is corrected based on field verification. New connections are added to the map as they are installed.
- Prohibits illicit discharges and illicit connections to the MS4 through WMC Chapter 13.04, and requires business and residential activities to apply source control BMPs described in the *2016 King County Pollution Prevention Manual* to prevent prohibited discharges.
- Encourages citizens to report illicit discharges or dumping by phone, in person, email, or through the City website. The calls or messages are delegated to the appropriate authority for response (maintenance, engineering, construction inspector, or code compliance officer).

- Operates a phone hot line number and spills and illicit discharge complaints can be reported online through the Code Enforcement webpage.
- Maintains records of illicit discharges and connections, response actions taken, and enforcement actions using CSR software and paper records.
- Conducts dry weather field screening of its outfalls to receiving waters.
- Conducts ongoing field screening and bacterial sampling of Little Bear Creek to identify potential illicit discharges and/or connections.
- Maintains CESCL certification or recertification for all responsible staff members (one 2018 new hire received training in 2019).
- Pursue IDDE training programs and workshops for all responsible staff members.

Past activities include:

- In 2009, co-hosted a meeting with the Woodinville Wine Association to educate members about the proper disposal of wine production wastes.
- In 2010, identified, prioritized, and conducted field assessment activities for the following three receiving waters, including visual inspection of outfalls: Sammamish River, Little Bear Creek, and Woodin Creek.
- In 2011, provided training to City staff in on IDDE ordinance and field procedures to identify, report, investigate, characterize, and remove illicit discharges.
- In 2011, provided training to City maintenance staff on the dangers of illicit discharges and illicit connections.
- In 2011, documented the City's IDDE Program, including procedures for inspection, identification, and enforcement.
- In 2013, sent out a letter educating wineries and other businesses on IDDE.
- In 2014, conducted additional field screening of 32 outfalls in Little Bear Creek, producing the *Illicit Discharge and Fecal Coliform 2014 Sampling Results for Little Bear Creek in Woodinville, WA* report (Otak, 2014).
- In 2016, updated requirement for use of best management practices to prevent prohibited discharges in WMC Chapter 13.04 (Ordinance 634).
- In 2017, reviewed the outfall inventory to distinguish between public outfalls (part of MS4) and private outfalls (not part of the MS4) and to re-categorize outfalls that may have been incorrectly identified as outfalls in the City's inventory.
- In 2017, implemented an awareness campaign to educate pool and hot tub owners about the proper disposal of pool and hot tub water. The campaign included development and dissemination of a Pool and Hot Tub Disposal Brochure to raise awareness of the potential environmental impacts of pool and hot tub disposal practices and clearly define the proper techniques for protecting water quality when disposing of pool or hot tub water, news article about pool and hot tub water disposal issues that were shared through local news and media outlets, and ads focusing on pool and hot tub water disposal that were placed on relevant websites and social media.
- In 2018, completed the final phase of the City's education and outreach campaign to reduce the amount of chlorinate water entering the stormwater system and raise awareness of the potential environmental impacts of improper pool and hot tub draining practices by Woodinville residents. Activities in 2018 include:

- Conducted a follow-up survey of pool and hot tub owners that responded to the initial target audience research survey in 2017.
- Completed the Final Campaign Report which documented the effectiveness of the education and outreach campaign and identify changes needed to increase future success.
- In 2018, identified private stormwater flow control and treatment BMPs/facilities designed and built after the 2010 construction stormwater code updates.
- In 2018, researched and scheduled IDDE training programs for responsible staff members.

4.3 Planned Activities

Planned activities for 2019 include:

- Continue ongoing efforts noted above.
- Continue to review the stormwater inventory to distinguish between public (part of MS4) and private (not part of the MS4).
- Continue to provide training to City maintenance staff and any new hires on the dangers of illicit discharges and illicit connections.
 - Trainings for staff who are involved in the identification, termination, cleanup, and reporting of illicit discharges are scheduled for February 25, March 4, and throughout the summer of 2019.

4.4 Lead Department and Support

The Public Works Department and Code Enforcement lead this section of the program, with support from the Executive Department.

5 CONTROLLING RUNOFF FROM NEW DEVELOPMENT, REDEVELOPMENT AND CONSTRUCTION SITES

This section describes the Permit requirements, programs, and activities related to Controlling Runoff from New Development, Redevelopment and Construction Sites.

5.1 Permit Requirements

Special Condition S5.C.4 of the Permit requires the City to:

- Implement and enforce a program to reduce pollutants in stormwater runoff that enters the storm sewer system from new development, redevelopment, and construction site activities.
- Adopt and implement a regulatory process with legal authority for plan review, inspection, and enforcement necessary to implement the program in accordance with Permit conditions, including the minimum technical requirements in the *Stormwater Management Manual for Western Washington*.
- Review, revise and make effective development-related codes, rules, standards, or other enforceable documents to incorporate and require LID BMPs in order to make LID the preferred and commonly-used approach to site development.
- Review and revise other codes, rules, and standards considering the range of issues outlined in *Integrating LID into Local Codes: a Guidebook for Local Governments* (Puget Sound Partnership, 2012) and summarize the results.
- Adopt regulations that include provisions to verify adequate long-term operations and maintenance of stormwater treatment and flow control BMPs and facilities in accordance with Permit conditions, including an annual inspection frequency and/or approved alternative inspection frequency and maintenance standards for private drainage systems as protective as those in Volume V of the *Stormwater Management Manual for Western Washington*. Inspect all permanent stormwater treatment and flow control BMPs and facilities in new residential developments every six months until 90% of the lots are constructed.
- Make available the Notice of Intent (NOI) for Construction Activity and copies of the NOI for Industrial Activity to representatives of proposed new development and redevelopment.
- Train staff on the new codes, standards, processes and procedures.
- Track all inspections, maintenance and enforcement actions for inclusion in the Annual Report.
- Participate in watershed-scale stormwater planning for Bear Creek watershed in cooperation with King County and for Little Bear Creek with Snohomish County.

5.2 Programs and Activities

Woodinville ongoing activities in this area include:

- Through WMC 13.05, requires use of the 2016 King County Surface Water Design Manual (KCSWDM) for managing stormwater on new development and redevelopment projects, including requirements for Low Impact Development techniques (LID).

- Through WMC 15.05, enforces standards for grading and site development, including control of erosion and sedimentation and standards for either protecting soils or amending disturbed soils.
- Conducts site plan review for sites meeting the thresholds in Appendix 1 of the 2013 Permit.
- Requires and completes construction and stormwater site inspections during pre- and post- construction phases.
- Inspects all active construction sites two times per week.
- Implements a post-construction inspection and enforcement program for public and private stormwater facilities using maintenance requirements consistent with the 2013 Permit standards.
- Maintains records of inspections and enforcement actions by staff.
- Discusses NOIs in pre-application meetings with applicants. The NOIs are also available at the Development Services Counter.
- Inspects private stormwater flow control and treatment BMPs/facilities designed and built after the 2010 construction stormwater code updates.

Past activities include:

- Provided training to City staff on the runoff control ordinance and maintenance standards along with permit review, field inspection, maintenance, and enforcement in 2010, 2013, and 2015.
- City staff obtained Certified Erosion and Sediment Control Lead (CESCL) certifications in 2008, 2010, 2015, and 2016.
- Executed an interlocal agreement with King County for the Bear Creek Watershed-scale Stormwater Plan (now called Bear Creek Watershed Management Study) with that ran from 2015-2018. Shared recommendations of the Study to protect and restore the watershed over the long-term.
- In 2016, adopted WMC Chapter 13.05, Stormwater Runoff and Surface Water and Erosion Control, including adoption of the 2016 KCSWDM, replacing the 2009 manual (Ordinance 634).
- In 2016, revised standard details and design standards in the *Transportation Infrastructure Standards and Specifications* to incorporate LID (Ordinance 634).
- In 2016, adopted WMC 15.05, Site Development Regulations, to control clearing and grading of development sites, including requiring erosion and sediment control measures and either retention of soils or amendment of disturbed soils (Ordinance 635).
- In 2016, provided training to City staff on permit review using standards of the 2016 KCSWDM.

5.3 Planned Activities

Planned activities for 2019 include:

- Continue ongoing activities noted above.
- Assist new hires to obtain CESCL certification (One 2018 new hire received CESCL training in 2019).
- Update City IDDE ordinance regarding allowable and conditional discharges (CWC 13.04) to come into compliance with the latest version of the Western Washington Phase II Municipal Stormwater Permit.

5.4 Lead Department and Support

The Public Works Department leads this section of the program, with support on an as needed basis from Development Services.

6 POLLUTION PREVENTION AND OPERATION AND MAINTENANCE FOR MUNICIPAL OPERATIONS

This section describes the Permit requirements, programs, and activities related to Pollution Prevention and Operation and Maintenance for Municipal Operations.

6.1 Permit Requirements

Special Condition S5.C.5 of the Permit requires the following from the City:

- Develop and implement an operations and maintenance (O&M) program with the ultimate goal of preventing or reducing runoff of pollutants from municipal operations.
- Establish maintenance standards for the MS4 that are at least as protective as those specified in the *Stormwater Management Manual for Western Washington*.
- Conduct inspections and maintenance of stormwater flow control and treatment facilities and catch basins according to required frequencies, unless previous inspection data show that a reduced frequency is justified.
- Implement practices, policies, and procedures to reduce stormwater impacts associated with runoff from all lands, including but not limited to streets, parking lots, roads or highways, buildings, parks, and open space, owned or maintained by the City.
- Develop and implement an ongoing training program for staff whose job functions may impact stormwater quality. Document the training program.
- Prepare Stormwater Pollution Prevention Plans (SWPPP) for all heavy equipment maintenance or storage yards and material storage facilities owned or operated by the City that are not covered by an Industrial Stormwater General Permit.
- Maintain records of inspection, maintenance, and repair activities conducted by the City.

6.2 Programs and Activities

Woodinville ongoing activities in this area include the following:

- Performs annual inspections and maintenance for public water quality and flow control facilities, following the maintenance standards in the 2016 KCSWDM.
- Maintains records of inspections and maintenance activities.
- Implements a rotating catch basin inspection and cleaning program; unless known to require greater frequency of inspection and cleaning, basins are inspected and cleaned on a 2-year cycle.
- Annually cleans all catch basins associated with treatment/flow control facilities with known problems.
- Conducts spot checks of 45 locations for drainage problems before and after major storms.
- Implements a road maintenance program using pollution prevention BMPs.

- Follows a facilities maintenance manual that addresses stormwater issues related to non-roadway maintenance and that includes an Integrated Pest Management Plan.
- Provides periodic O&M training to maintenance staff.
- As needed, updates the SWPPP for the City's heavy equipment maintenance and storage facility.

Past activities include:

- Provided training to all municipal field staff on the BMPs included in the SWPPP.
- Provided training in pollution prevention and reduction (source control) to operations and maintenance staff.

6.3 Planned Actions

Planned activities for 2019 include:

- Continue ongoing items noted above.

6.4 Lead Department and Support

The Public Works Department leads this section of the program, with assistance on an as needed basis from the Parks Department.

7 TOTAL MAXIMUM DAILY LOAD (TMDL) COMPLIANCE

Special Condition S7 requires a permittee to comply with TMDLs listed in the Permit's Appendix 2. For Woodinville, Appendix 2 lists the Little Bear Creek Fecal Coliform Water Quality Improvement Project TMDL.

7.1 Permit Requirements

Appendix 2 requires the City to:

- Complete field screening of Little Bear Creek to identify potential illicit discharges and illicit connections by December 31, 2014, and to respond appropriately to any illicit discharges found. Complete field screening of Little Bear Creek to identify potential illicit discharges or connections by December 31, 2014. Conduct bacteria sampling from any flowing outfall, in accordance with *Illicit Discharge Detection and Elimination: A Guidance for Program Development and Technical Assessments*, Center for Watershed Protection, October 2004, or another methodology of comparable or improved effectiveness. Implement related schedules and activities identified in S5.C.3 of the Western Washington Phase II permit for response to any illicit discharges found.
- Install and maintain pet waste collection stations in all public lands/parks adjacent to Little Bear Creek.

7.2 Programs and Activities

Woodinville activities in this area include the following:

- Completed field screening by December 31, 2014 as reported in the 2014 NPDES Annual Report.
- The City has conducted monthly bacterial sampling at two locations in Little Bear Creek for the past five years (2014-2018).
- Maintains a pet waste collection station at Rotary Park on Little Bear Creek.

7.3 Planned Actions

Planned activities for 2019 include:

- Continue to maintain a pet waste station at Rotary Park.

7.4 Lead Department and Support

The Public Works Department leads these activities.

8 MONITORING AND ASSESSMENT

Special Condition S8 requires a permittee to conduct two types of study during the permit term: status and trends monitoring and an effectiveness study. Woodinville is given the option of conducting studies on its own or paying into a Regional Stormwater Monitoring Program (RSMP). The City has chosen to pay into the two RSMP funds and plans to continue submitting payments on schedule for the duration of the permit term.

9 CONCLUSION

This SWMP has been prepared to demonstrate compliance with the requirements of the NPDES Phase II Permit. This SWMP is a living document that will be updated annually to reflect progress in implementing the stormwater management program.