

Section Four – City of Fairview Summary of Program Monitoring

Municipal National Pollutant Discharge Elimination System Annual Report for Permit Year 16, Permit #101315, November 1, 2011

Executive Summary

The City of Fairview (City) manages the stormwater system with the goal of reducing pollutants to the maximum extent practicable, preventing flooding and enhancing natural resources. The City is a co-permittee with the City of Gresham on the National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit (#101315).

DEQ reissued the Permit on December 30, 2010 requiring the City to modify the SWMP to reflect the new permit conditions. The City's 2011 SWMP incorporates the new Permit conditions and includes best management practices (BMPs) and other elements intended to reduce the introduction of pollutants to the maximum extent practicable (MEP).

This Permit Year (PY) 16 Annual Report documents implementation activities from July 1, 2010 through June 30, 2011 within the city limits of Fairview. Activities include, but are not limited to, the Best Management Practices (BMP) contained within the Stormwater Management Plan (SWMP). The status of the BMP's and adaptive management are summarized in the tables that follow. Table 4-2 summarizes the time period July 1, 2010 to December 30, 2010 implementing the 2006 SWMP and Table 4-3 summarizes the time period January 1, 2011 to June 30, 2011 implementing the 2011 SWMP. Section 2 of this report summarizes the Environmental Monitoring Program that is conducted by the City of Gresham on behalf of the City of Fairview.

There are no Urban Growth Boundary expansion areas contiguous to the City of Fairview. Consequently there are no associated concept planning, land use changes or new development activities to report for PY 15.

Stormwater Management Program Budget

City of Fairview Stormwater Management program costs for Permit Year 16 are primarily associated with the Department of Public Works.

Stormwater fund expenditures and anticipated budget allocations incorporate wages and benefits, operating materials, equipment repair/maintenance, water testing (NPDES compliance), storm water disposal (NPDES permitting), improvements, and general administration.

Street fund expenditures and anticipated budget allocations incorporate wages and benefits, operating materials, maintenance services (including IGA with Multnomah County), equipment repair/maintenance, improvements, traffic calming, footpaths and bike trails, and general administration.

The table below outlines fund expenditures for PY 16 and provides the anticipated budget for Permit Year 17, (Fiscal Year 2011-2012).

Table 4-1

Program Area	PY 16 Expenditures	PY 17 Anticipated Budget
Stormwater Fund	\$523,481	\$551,827
Street Fund	\$304,118	\$571,131

City of Fairview Adaptive Management Approach September 2011

1 Introduction

Consistent with Schedule A.2 of its National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) permit, the City of Fairview must reduce the discharge of pollutants from the stormwater sewer system to the maximum extent practicable (MEP). The MEP requirement is met through compliance with the MS4 permit, specifically through implementation of a stormwater management program and associated Stormwater Management Plan (SWMP). Assessment and modification of the SWMP must follow an adaptive management approach, which is defined in Schedule D as:

A structured, iterative process designed to refine and improve stormwater programs over time by evaluating results and adjusting actions on the basis of what has been learned.

The stormwater management program that is described in the City of Fairview's current SWMP is the result of adaptively managing (e.g., implementing, evaluating, and adjusting) program activities since first being issued a MS4 permit in 1995. The history of this adaptive management approach may be found Section 3 of the City's SWMP which was submitted for the City of Fairview's NPDES MS4 Permit Renewal on August 1, 2008, which describes how the current Oregon Department of Environmental Quality (DEQ) approved SWMP meets the MEP requirement.

The purpose of this document is to fulfill requirements of Schedule D.4 of the December 30, 2010 renewed MS4 permit by describing the adaptive management approach that the City of Fairview will follow through expiration of its current permit on December 29, 2015 to routinely assess the stormwater program's effectiveness in addressing water quality and protection of beneficial uses. Ongoing adaptive management of the SWMP as discussed in the MS4 annual reports demonstrates that City of Fairview is meeting the MEP requirement.

The adaptive management approach is divided into two distinct processes, as described below:

- 1) An *annual* adaptive management process to assist with best management practice (BMP) assessment and/or evaluation, in order to determine whether adjustments to BMPs are warranted and/or practicable to achieve reductions in stormwater pollutants to the MEP.
- 2) An *MS4 permit cycle* (5-year) adaptive management process to evaluate water quality monitoring results, assess the stormwater management program and overall effectiveness of the SWMP, in order to update the SWMP and associated measurable goals to achieve reductions in stormwater pollutants to the MEP.

2 Annual Adaptive Management Process

Following guidance in DEQ's Permit Evaluation Report and Fact Sheet for the City of Fairview NPDES MS4 permit, the annual adaptive management process involves an operational cycle for assessing BMPs, including the steps of: 1) BMP implementation, 2) data collection, 3) assessment, 4) identifying needs, and 5) BMP modification.

Throughout the duration of the current NPDES MS4 permit cycle, City of Fairview will implement BMPs identified in the DEQ-approved SWMP as part of its stormwater management program. Tracking measures are identified for each of the BMPs to assess progress toward achieving measurable goals outlined in the SWMP. Data collected during implementation of BMPs will be consistent with documented tracking measures (e.g., miles of streets swept, number of catch basins cleaned, etc.) and will allow for the assessment of BMP measurable goal attainment. Data collected as part of the environmental monitoring plan will also be reviewed and utilized, as applicable, during the assessment phase of the adaptive management process (e.g., identification of data anomalies or water quality standards exceedances).

The assessment of BMPs will occur annually during preparation of City of Fairview MS4 annual report, to be submitted to DEQ by November 1 of each permit year. Among other reporting requirements, the MS4 annual report must contain (Schedule B.5) the following:

The status of implementing the stormwater management program and each SWMP program element, including progress in meeting the measurable goals identified in the SWMP.

By providing a summary in the MS4 annual report of progress toward attaining BMP measurable goals (through data collection and tracking measures), the City of Fairview both: 1) meets the aforementioned reporting requirement, and 2) facilitates a critical step in adaptively managing its stormwater program by assessing each BMP.

While preparing the MS4 annual report, City of Fairview will collect data and feedback from staff responsible for implementing/reporting on each BMP to facilitate the BMP assessment process. Examples of data collection procedures, tools, and factors considered during the assessment phase are provided in Attachment A. Factors considered include but are not limited to:

- Was the BMP measurable goal attained? If not, describe circumstances why, and how progress will be made toward future attainment.
- For multi-year BMPs, were milestones or timelines met?
- Can we feasibly refine or improve the BMP to gain efficiency or effectiveness in removing stormwater pollutants?
- Are staffing/financial resources available to support such a BMP improvement or refinement?

In addition to assessing the implementation of each BMP, staff will weigh resource availability and needs related to the overall stormwater program, including consideration of budget/funding, training needs, new technology, or available equipment.

The aforementioned assessment phase will inform any alterations to the stormwater program or *modifications* to the SWMP. A summary of the adaptive management process including any proposed revisions to the SWMP will follow the requirements of Schedule B. 5. c. and Schedule D.5 of the NPDES MS4 permit.

Subsequent to implementing modifications, the annual adaptive management process will continue to include an assessment of whether the modifications are resulting in the predicted outcomes/efficiencies

through an iterative feedback loop. Annual adaptive management will, therefore, ultimately contribute to the City's proposed SWMP updates required by Schedule B. 6. of the NPDES MS4 permit for the permit renewal application package, including the modification, addition, and removal of BMPs, and associated measurable goals.

3 Permit Cycle Adaptive Management Process

In preparation of the NPDES MS4 permit renewal application as required by Schedule B. 6 of the permit, the City of Fairview will assess each BMP described in their SWMP, their environmental monitoring program, environmental monitoring data, and results from the additional assessments or studies conducted in support of their MS4 permit compliance to evaluate the overall effectiveness of their stormwater management program in reducing pollutants to the MEP.

As described in Section 2, BMP implementation data collected and evaluated over the course of the permit cycle, as well as historical data (if applicable), will be reviewed during preparation of the NPDES MS4 permit renewal package. This review will help determine BMP refinements and improvements that should be proposed as part of the program modifications at the end of the permit cycle. This process supports the examination of factors (Attachment A) including but not limited to:

- Do we have information about new technology or other information to improve or refine existing BMPs, identify alternative BMPs, or include additional BMPs?
- Have we set the appropriate measurable goals for existing BMPs or should they be changed?
- Are resources (funding, staff, equipment, etc.) available to change the BMP measurable goal, and does it make sense to change the goal?

Where applicable, the effectiveness of individual BMPs may also be evaluated by use of data collected through the City of Fairview's environmental monitoring program as described in Schedule B.1.a. For example, pesticide monitoring data may be of use in identifying targeted outreach activities related to pesticide use, and possible refinement of appropriate outreach/education BMPs. Data collected through the environmental monitoring program will also contribute to the assessment of the overall stormwater management program.

In addition to BMP implementation data and environmental monitoring data analyses, specific deliverables in the MS4 permit will also facilitate the adaptive management process. Other required permit elements that will aid the SWMP evaluation include:

- a hydromodification assessment (Schedule A.5)
- a stormwater retrofit strategy (Schedule A.6)
- a 303(d) list evaluation (Schedule D.2)
- a Total Maximum Daily Load (TMDL) Wasteload Allocation Attainment Assessment
- a TMDL Pollutant Load Reduction Evaluation and establishment of benchmarks
- a public education program effectiveness evaluation (Schedule A. 4. d.), and
- public involvement and participation (Schedule A. 4. e.)

Cumulatively, these deliverables will require the City of Fairview to identify strategies to reduce the impact of stormwater discharges on receiving water bodies. Some of these deliverables will also require identification of priorities for stormwater control facility implementation (i.e., the hydromodification assessment and the stormwater retrofit strategy). Others will help identify opportunities for further

refinement and improvement of its stormwater management program, particularly as related to 303(d) parameters and TMDL benchmarks. Objectives and strategies identified in these deliverables will be considered in context of existing BMPs, and be used to revise appropriate BMPs (and associated measurable goals) during the NPDES MS4 permit renewal process. Finally, the City of Fairview will utilize all of the above described analysis to evaluate the adequacy of the SWMP in reducing pollutants from the MS4 to the MEP according to the permit requirements in Schedule B. 6. b.

4 Conclusion

The adaptive management approach described in this document identifies both annual and end of the NPDES MS4 permit cycle processes that will facilitate continuous improvement of the City of Fairview's stormwater management program. Each of the five steps identified in DEQ's Permit Evaluation Report and Fact Sheet for an adaptive management approach were addressed, including: 1) BMP implementation, 2) data collection, 3) assessment, 4) identifying needs, and 5) BMP modification. Implementation of these processes and the adaptive management approach, will assure the City of Fairview continues to improve its stormwater management programs and reduce the discharge of pollutants to the maximum extent practicable.

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES
Table 4-2 2010-2011 Annual Stormwater Compliance Report, July 1, 2010 - December 30, 2010

BMP Descriptions	Permit Year	BMP Implementation	Performance Measures	Status 2010-2011	Proposed Adaptive Management Modification
O&M plan	Ongoing	Implementation Activities: Over the next permit term, the City will develop an O&M Plan for stormwater infrastructure. The plan will maximize water quality benefits while maintaining flood capacity; incorporate methods to evaluate effectiveness; provide a means of recording the observations of field inspection and maintenance personnel; and define procedures to locate and eliminate the source of pollutants.	Develop an O&M Plan by June 2007.	The City is currently field collecting/verifying sanitary, storm and water utilities using GPS technology. It is anticipated that the storm updates will be completed by the end of November.	Update the manual by adding and modifying procedures and forms as necessary.
Maintenance frequency	Ongoing	Implementation Activities: Perform maintenance as stated in the O&M Plan (expected to be formalized by June 2007). Maintenance includes cleaning inlets, catch basins and storm sewers, sedimentation manholes, channels and stormwater retention basins in areas where sediment and/or debris tend to accumulate. The City reviews maintenance frequency during preparation of the Annual Report to DEQ, and employs adaptive management to improve effectiveness of maintenance activities where appropriate.	Review maintenance frequency and employ adaptive management annually.	Public Works staff completed field reports to document and track these activities.	No modification
Development review	Ongoing	Implementation Activities: Implement and enforce regulations which give legal authority to 1) require site-drainage designs and systems which address water quality; and/or 2) minimize the total volume of runoff and the peak rate of runoff, where local conditions permit. The City implements these regulations through its Community Development Department and Public Works Department. New development and redevelopment projects are reviewed for conformance to the following existing City regulations: <ul style="list-style-type: none"> • Fairview Comprehensive Plan, June 2004—provides the guiding direction to protect the natural environment and ensure that long-term growth does not adversely affect the natural resources. • Community Development Department—Land Use and Building Permits; Land Use Code Enforcement. • Title 19, Development Code—requires accommodation and treatment of stormwater runoff and system installation conforming to standards and specifications adopted by the City. 	Track the number of permits, new land use and acreage of development projects.	One new single family residence was permitted on 0.17 acres.	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES

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BMP Descriptions	Permit Year	BMP Implementation	Performance Measures	Status 2010-2011	Proposed Adaptive Management Modification
		<ul style="list-style-type: none"> • City of Fairview Standard Specifications for Public Works Construction • City of Portland Stormwater Management Manual (adopted by the City of Fairview) 			
Enforce regulations	Ongoing	Implementation Activities: Require plans at the time of permitting for stormwater facilities related to new private development and redevelopment/retrofitting. Conduct inspections and regular follow-up during and after construction to ensure that approved O&M plans are being followed.	Track inspections.	No new private stormwater facilities were permitted or constructed between July 1, 2010 and December 30, 2010.	No modification
Design standards	Ongoing	Implementation Activities: Follow the Standard Specifications for Public Works Construction which requires treatment of stormwater runoff through the use of BMPs as specified in the City of Portland Stormwater Management Manual.	Inventory and maintain database of BMPs that are implemented	The City is currently field collecting/verifying sanitary, storm and water utilities using GPS technology. It is anticipated that the storm updates will be completed by the end of November.	No modification
Right of way - O & M	Ongoing	Implementation Activities: The City contracts with Multnomah County for road maintenance that includes street sweeping, roadside mowing and brushing and pavement maintenance. The maintenance program is substantially similar to, and at least as protective as, the ODOT Routine Road Maintenance program approved under the current 4(d) limit.	Track and report management of rights-of-way.	Road maintenance provided through IGA with Multnomah County.	No modification
Street sweeping	Ongoing	Implementation Activities: The City contracts with Multnomah County for street sweeping (approximately 6 times per year). The frequency is based on weather conditions, road conditions and funding.	Track and report miles of street swept annually.	Approximately 50 miles of streets were swept.	No modification
De-icing activities	Ongoing	Implementation Activities: Sand and gravel are applied to roadway surfaces to assist with traction. The sand is removed and recycled as soon as possible after the snow or ice event, typically within five days of safe conditions.	Track and report annually.	No de-icing applied.	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES

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BMP Descriptions	Permit Year	BMP Implementation	Performance Measures	Status 2010-2011	Proposed Adaptive Management Modification
Retrofit of public drainage facilities	2007	Implementation Activities: The City hired a consultant to review the existing stormwater system to look for retrofit opportunities based on the new NPDES requirements. The City will include these recommendations in the CIP Program.	Document projects that are added to the CIP or are completed.	Retrofit projects have been incorporated into the Capital Improvement Program . See Update Stormwater CIP BMP for description of implemented projects.	No modification
Update stormwater CIP	2007	Implementation Activities: Update the stormwater section of the CIP, to reduce the risk of flooding and improve water quality in proposed and existing stormwater drainage and flood control projects. Evaluate opportunities to retrofit already constructed drainage and flood control structures to provide stormwater quality treatment. Assess project feasibility; develop and apply prioritization process; and develop cost estimates.	Track the number of projects that are added to the CIP or are completed.	No CIP Projects were completed between July 1, 2010 and December 30, 2010	No modification
Track municipal landfills	Ongoing	Implementation Activities: Keep copy of stormwater permits and any related reports from municipal landfills on file. The City has only one industry, Allwood Recyclers, Inc., that qualifies as a municipal landfill. The City will perform an inspection and enforce the illicit discharge program	Track number of municipal landfill permits in the City.	Allwood Recyclers, Inc. remains the only municipal landfill within the City.	No modification
Native vegetation	Ongoing	Implementation Activities: Encourage the use of native vegetation on private and public property to reduce the need for fertilizers, pesticides, and herbicides. Planting and landscape policies for riparian buffer areas encourage use of vegetation (indigenous or imported) that is self-sustainable without the need for pesticides or herbicides. Riparian buffer permits are issued for alterations to the landscape within 50 feet of Fairview Creek, Fairview Lake, the Columbia Slough and their tributaries (City code chapter 19.106).	Track riparian buffer permits.	No Riparian Buffer Permits were issued between July1, 2010 and December 30, 2010.	No modification

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BMP Descriptions	Permit Year	BMP Implementation	Performance Measures	Status 2010-2011	Proposed Adaptive Management Modification
Integrated pest management	Ongoing	<p>Implementation Activities: The City encourages use of the Portland Parks and Recreation Pest Management Guide. This guide emphasizes controlling pests that are harmful to the health or aesthetic value of park plantings in a manner that is cost-effective, safe, and environmentally responsible. It is an approach that uses multi-faceted strategies that minimize negative impacts on the environment and on human health.</p> <p>The controls used in this program include manual, mechanical, cultural, biological and chemical methods. Often a combination of methods is used. Examples of Integrated Pest Management include:</p> <ul style="list-style-type: none"> • Timing of chemical applications to avoid run-off. • Mowing high grass and brush to reduce weed seed crops in rough areas. • Pruning of trees and shrubs to increase air circulation to reduce susceptibility to disease and insect problems. • Appropriate fertilizing to encourage plant health and resistance to pests (i.e., weeds, insects and disease). • Using plants with natural resistance to pests. • Combining turf aeration and over-seeding along with any application of broadleaf weed control to eliminate the cause of the problem, and therefore the need for repeated applications. 	Track types and amounts of chemicals used by the Public Works Department.	The Public Works Department prepares a summary of all chemicals used by the department.	No modification
Chemical applicator licensing	Ongoing	Implementation Activities: Maintain staff certification in public pesticide application and follow Oregon Department of Agriculture requirements related to herbicide application.	Report names of license holders and expiration dates of licenses.	Steve Richards, Matt Hollenbeck and Duane Wilson maintain chemical applicator licenses with the Oregon Department of Agriculture.	No modification
Non-stormwater discharge program	Ongoing	<p>Implementation Activities: Continue to implement the non-stormwater discharge program which includes the following BMPs:</p> <ul style="list-style-type: none"> • Component #1 – integrated pest management, native vegetation 	Please see each individual BMP for the related performance measures	Please see each individual BMP for the related performance measures.	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES

Table 4-2 2010-2011 Annual Stormwater Compliance Report, July 1, 2010 - December 30, 2010

BMP Descriptions	Permit Year	BMP Implementation	Performance Measures	Status 2010-2011	Proposed Adaptive Management Modification
		<ul style="list-style-type: none"> • Component #2 – water line flushing, illicit discharge enforcement, illicit discharge field screening procedures, illicit discharge investigation procedures • Component #5 – educational programs 			
Water line flushing	Ongoing	Implementation Activities: The City periodically flushes all public water lines to ensure the reliability and quality of the domestic water system. To minimize impacts to the storm system, discharges are dechlorinated with the use of ascorbic acid (vitamin C). The flushing crew periodically tests the chlorine levels of the discharge prior to entering the storm system.	Track all discharges that test positive for chlorine.	No chlorine detected.	No modification
Illicit discharge enforcement	Ongoing	Implementation Activities: Continue to implement City code sections 13.40.050 and 13.40.110: <ul style="list-style-type: none"> • City code section 13.40.050 prohibits constructing, using, maintaining, or continuing an illicit connection to the storm drain system. • City code section 13.40.110 discusses enforcement actions for failing to comply with control of non-stormwater discharge. The penalty for a first violation is \$250. A penalty of \$1,000 may be imposed for each subsequent failure to comply and each day of a continuing violation shall constitute a separate offense. The City may order compliance by written notice that includes performance of monitoring, analysis, and reporting; elimination of illicit connections or discharges; abatement or remediation; payment of fines; and implementation of source control or treatment BMPs. The public works director may also exercise authority to enforce a construction permit or NPDES permit through a stop work order if necessary. 	Track number of enforcement actions.	No illicit discharge enforcement actions.	No modification
Illicit discharge field screening procedures	Ongoing	Implementation Activities: Conduct dry weather inspections of outfalls to search for, detect, and prevent illegal dumping of pollutants and illicit connections (including connections from sanitary sewers and commercial and/or industrial wastewater sewers) to the storm sewer system. Any dry weather flows identified will be reported to the public works department. The City will inspect every outfall each year.	Track number of illicit discharges and/or connections identified.	No illicit discharges identified.	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES

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BMP Descriptions	Permit Year	BMP Implementation	Performance Measures	Status 2010-2011	Proposed Adaptive Management Modification
Illicit discharge investigation procedures	Ongoing	<p>Implementation Activities: Implement follow-up actions on a prioritized basis when problems are reported to the public works department. Follow up actions may include sampling for pH, dissolved oxygen, temperature, conductivity, ammonia, and total chlorine. If elevated results or poor water quality are detected, additional samples could be collected for lab analysis. If screening results indicate a potential problem, staff will conduct upstream investigations.</p>	Document follow-up actions and final resolutions for each identified illicit discharge.	Staff responded to a citizen report of a contractor cleaning painting equipment at a catch basin. Staff used the opportunity to educate the contractor and the employees about surface water quality.	No modification
Spill prevention	Ongoing	<p>Implementation Activities: The wellhead protection program serves to prevent spills and illegal dumping. The City will work to maintain its existing agreement with the City of Gresham for wellhead inspection in the Columbia South Shore Well Field Wellhead Protection Area and continue to implement wellhead protection throughout Fairview.</p> <p>Wellhead Protection - Intergovernmental Agreement. The City of Gresham and the City of Portland entered into an intergovernmental agreement for the Implementation of the Columbia South Shore Well Field Wellhead Protection Program in 2003 (City of Gresham contract number 1609). This agreement provides protection of the Columbia South Shore Well Field Wellhead Protection Area lying within Gresham and Fairview from contamination by hazardous substances generated at industrial and commercial facilities.</p> <p>Fairview has adopted Ordinance #12-2002 to protect the Columbia South Shore Well Field Wellhead Protection Area from contamination by hazardous substances by establishing an inspection and enforcement program governing the utilization, storage and transportation of hazardous materials in Fairview's portion of the Columbia South Shore Well Field Wellhead Protection Area.</p> <p>A wellhead inspection is performed at all commercial and industrial facilities during regularly scheduled fire inspections. The entire city, except for a residential area, high school and park, is included in the wellhead protection program.</p>	Track number of businesses inspected and level of compliance.	City staff participated in updating the Wellhead Protection Program manual which was then adopted by the City.	No modification

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BMP Descriptions	Permit Year	BMP Implementation	Performance Measures	Status 2010-2011	Proposed Adaptive Management Modification
		<p>Fairview, Gresham and Portland Staff meet at least annually to discuss any changes to code provisions and any rules promulgated there under by either party.</p> <p>Wellhead Protection - City Code and Reference Manual. Wellhead protection is discussed in City code chapter 16.10. A wellhead protection program reference manual has been developed that establishes the wellhead protection boundaries. The code also includes requirements for reporting, standards, and inspections related to the storage, handling, use and transportation of hazardous materials; penalties for violations and enforcement actions; compliance requirements; building and site permit review and approval requirements; and inspection fees.</p>			
Spill clean-up	Ongoing	<p>Implementation Activities: Maintain agreement with the City of Gresham Fire Department for clean-up after structural fires and vehicular accidents to prevent pollutants and debris from being washed into the storm drain system.</p> <p>When there is a hazardous spill or a spill of any other substance that:</p> <ul style="list-style-type: none"> • Is hazardous in any quantity, • Is non-hazardous and greater than 42 gallons on the ground, • Or is any quantity that has entered a waterway or a dry well, <p>the City of Gresham Fire Department staff notifies the Oregon Emergency Response System (OERS). OERS then notifies the Oregon Department of Environmental Quality (DEQ) and other state and local agencies that may be affected. The responsible party, if identified, is required to contact an environmental clean-up company and pay for clean-up costs. Examples could include spillage of a 55 gallon drum of restaurant grease or sanitary sewer overflows on private property, resulting in or having the risk of resulting in, discharges to the public stormwater system. DEQ remains the enforcement authority in these cases. DEQ may choose to enforce against the responsible party under the following conditions: 1) the party has acted maliciously; 2) the party is a repeat offender; or 3) the party has failed to report the incident to DEQ.</p>	Track spill location, type of materials and response activities.	Gresham Fire Department responded to two vehicular accidents in which no hazardous materials were spilled.	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES

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BMP Descriptions	Permit Year	BMP Implementation	Performance Measures	Status 2010-2011	Proposed Adaptive Management Modification
		<p>Non-Hazardous Substances</p> <p>Public Works staff will investigate and provide emergency containment and clean-up as necessary. If the responsible party can be identified, he or she is directed to provide containment and site clean-up. If the spill is an imminent threat to waters of the state, the City reserves the right to provide clean-up and bill the responsible party for the work. The responsible party will be invoiced for any response and clean-up provided by the City. Examples include spills or dumping of paint, auto fluids, carpet cleaning wastes or concrete, etc. into catch basins or onto the street.</p> <p>In non-emergency situations, such as dumping of debris on private property near a stream bank, Public Works staff will notify the responsible party, verbally and in writing, and specify a timeframe for clean-up. Staff will refer the incident to Code Enforcement if the responsible party does not respond within the specified time frame. Code enforcement has the authority to issue Abatement Procedures, Violations or Civil Actions.</p>			

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES

Table 4-2 2010-2011 Annual Stormwater Compliance Report, July 1, 2010 - December 30, 2010

BMP Descriptions	Permit Year	BMP Implementation	Performance Measures	Status 2010-2011	Proposed Adaptive Management Modification
		<p>Releases from Traffic Accidents</p> <p>If there is a spill of automotive fluids resulting from a traffic accident, the Gresham Fire Department will spread an absorbent compound (usually clay) and specialized absorbent pads on automotive fluids. Buckets are placed underneath dripping fluids. The road is swept and cleaned and, when necessary, additional protection is placed around the catch basins. Large leaking spills from commercial vehicles or semi-trucks are captured using a children’s plastic pool. From a legal standpoint, the generator of the spill is responsible; therefore the waste materials are bagged and placed inside the wrecked vehicle or given to the tow truck driver for disposal.</p> <p>The City will perform the clean-up or utilize private clean-up contractors in order to continue the spill response program, when no responsible party can be identified.</p>			
Litter receptacles	Ongoing	Implementation Activities: Provide, collect, and maintain litter receptacles in strategic public areas, and during major public events.	Track number of receptacles and collection schedule.	43 litter receptacles are maintained once a week and after all events.	No modification
Municipal vehicle monitoring and maintenance	Ongoing	Implementation Activities: Ensure that materials from municipal vehicles do not leak, spill, or otherwise release contaminants onto roadways or open spaces where they may be washed into storm drains or waterways. Municipal vehicles are inspected by the driver during loading and unloading. The city fleet is maintained on a 4-month schedule. If any leaks are observed between the regular maintenance the vehicles are repaired immediately.	Track vehicle maintenance.	All vehicles in the City fleet were maintained as scheduled. No leaks were detected.	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES

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BMP Descriptions	Permit Year	BMP Implementation	Performance Measures	Status 2010-2011	Proposed Adaptive Management Modification
Report illegal dumping and illegal connections	Ongoing	Implementation Activities: Continue to facilitate efforts by the public to report illegal dumping, illicit connections, and other incidents. Develop a public reporting program that could include working with citizen action groups; operating a telephone hotline for citizens to report incidents; posting signs at areas where illegal dumping may occur, and/or encouraging citizens to report incidents. The City will respond to reports and/or complaints from citizens regarding observed water quality problems. After a program is developed, the City will track its implementation.	Develop public reporting program by November 2007.	One illicit discharge was reported. Please see BMP 19 for details.	Track number and outcome of illicit discharge and dumping reports received. Develop a reporting form for the City website. Please see each BMP 1, 17, 18 and 19 for the related performance measures.
Industrial inspection priorities and procedures	Ongoing	Implementation Activities: Develop an Industrial Stormwater Management Program to control the discharge of pollutants in stormwater from industrial and commercial facilities to the municipal separate storm sewer system based on the BMPs in Component #2 – illicit discharge field screening procedures and illicit discharge investigation procedures. Activities may include: <ul style="list-style-type: none"> • Compliance inspections of permitted sites • Routine reviews of discharge activities by non-permitted commercial/industrial facilities • Response to complaints and referrals 	Develop an Industrial Stormwater Management Program by November 2007.	One industrial inspection was performed in association with the wastewater pretreatment program.	Track number and location of industrial and commercial facilities inspected.
Track NPDES stormwater permits	Ongoing	Implementation Activities: The City will keep a copy of DEQ 1200 permits and any related reports on file. The City will also coordinate with DEQ regarding oversight of the stormwater permits issued to industries within Fairview. At a minimum, the City will print a list of facilities with stormwater permits from DEQ’s database each year and will review the previous year’s monitoring reports from those facilities, if DEQ has not done so.	Track location, number, and type of existing permits.	The DEQ water quality database of facilities was queried for permits issued within the City of Fairview during preparation of this annual report.	No modification

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Table 4-2 2010-2011 Annual Stormwater Compliance Report, July 1, 2010 - December 30, 2010

BMP Descriptions	Permit Year	BMP Implementation	Performance Measures	Status 2010-2011	Proposed Adaptive Management Modification
Erosion control activities	Ongoing	<p>Implementation Activities: Ordinance 3-1993 adopts an erosion control plan. The ordinance includes an Erosion Control Technical Guidance Handbook (Technical Guidance) that describes regulations, standards and provisions for erosion control as well as fees and penalties for violation. The City enforces the erosion control requirements through a permitting process as discussed under the BMP, Planning Review.</p> <p>The Technical Guidance prescribes the following four steps to consider in planning for erosion control:</p> <ul style="list-style-type: none"> Step 1: Identify Site Characteristics Step 2: Lay Out Preconstruction Plan and Proposed Base Measure Step 3: Measures During Construction Step 4: Post Construction Measures <p>The Technical Guidance also has requirements for single-family homes and duplexes on existing lots of record, private developments construction, private construction in public rights-of-way, public works construction, erosion control measures, inspections and enforcements, and penalties.</p>	Track erosion control permits, inspection, and enforcement.	The City maintains a database of all erosion control permits including inspection dates and enforcement activities.	No modification
Construction site inspections	Ongoing	<p>Implementation Activities: The City currently inspects all construction sites using the following procedure:</p> <ul style="list-style-type: none"> • Phone call before inspection to make sure BMPs are in place • Visit every site over 1 acre after the first significant rainfall event and periodically thereafter. <p>If time is limited, the City prioritizes inspections by visiting problem sites first, then visiting facilities that would have the highest environmental effect if the erosion control failed.</p>	Track the number of construction site inspections.	Four COF erosion control permits were issued for sites less than one acre.	No modification
Erosion control program training	Ongoing	Implementation Activities: Provide a copy of the Erosion Control Technical Guidance Handbook (Technical Guidance) that describes regulations, standards and provisions for erosion control as well as fees and penalties for violation, to developers and contractors.	Track number of erosion control handbooks that are provided to developers and contractors.	Handbooks were distributed with all new erosion control permit applications.	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES

Table 4-2 2010-2011 Annual Stormwater Compliance Report, July 1, 2010 - December 30, 2010

BMP Descriptions	Permit Year	BMP Implementation	Performance Measures	Status 2010-2011	Proposed Adaptive Management Modification
Educational activities	Ongoing	<p>Implementation Activities: The City supports community programs and publishes articles in the City newsletter. Current City public education programs that are related to stormwater include educational programs on stormwater quality and the use of nonpolluting alternative garden products, including low-volume uses of pesticides, herbicides, and fertilizers (e.g., household uses). The City also supports the following programs:</p> <ul style="list-style-type: none"> • Programs with local area schools • Programs with volunteer groups • Columbia Slough Watershed Council activities • Business Assistance Program – Private Catch Basin Cleaning • Spring Clean Up • Metro Hazardous Waste Clean Up • Informational kiosks at City events and City Hall • Doggy Don't waste bags 	Track the implementation of public education programs and, where appropriate, the number of people involved.	<p>City staff manned stormwater and water conservation display booths at the Fairview on the Green festival. Slough School activities for students in grades K-12 were financially supported by the City. Staff participated in the Children's Clean Water Festival where 4th and 5th grade students learn about water science and watershed ecology. Published stormwater related articles in the FairviewPoint newsletter and Public Works annual newsletter. Continued the Doggy Don't program and the Metro Recycling Program. The City is a sponsor of KGW's "Do the Right Thing" campaign designed to influence behaviors and attitudes regarding watershed health. The Fairview Police Department collects unused medications.</p>	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES

Table 4-2 2010-2011 Annual Stormwater Compliance Report, July 1, 2010 - December 30, 2010

BMP Descriptions	Permit Year	BMP Implementation	Performance Measures	Status 2010-2011	Proposed Adaptive Management Modification
Staff education and training	Ongoing	Implementation Activities: Conduct training for new employees on stormwater requirements and train existing employees when there is a significant update to the documents used by the City that regulates stormwater pollution control activities.	Track personnel who receive training.	The Senior Engineering Technician attended a Center for Watershed Protection webcast about design installation and maintenance of permeable pavement. City staff maintains membership on the ACWA stormwater committee and attends Columbia Slough Watershed Council meetings.	No modification
Illegal dumping and illegal connections, public education	Ongoing	<p>Implementation Activities: Educate the public about the harmful effects of dumping oil, antifreeze, pesticides, paints, solvents, and other potentially harmful chemicals into storm sewers or drainage channels. The City will:</p> <ul style="list-style-type: none"> • Support the development of convenient oil recycling and disposal • Support programs that provide convenient means for people to properly dispose of or recycle antifreeze, pesticides, herbicides, paints, solvents, and other potentially harmful chemicals and waste materials. • Support existing solid waste management programs (to reduce, recycle, and control trash and yard debris). • Educate the public regarding the stormwater pollution that results from littering practices. 	Track programs supported.	Staff published recycling and stormwater educational articles in the Fairview Update and implemented the Metro recycling program. The City participates in the Metro Regional Illegal Dumping Patrol - RID.	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES
Table 4-3 2010-2011 Annual Stormwater Compliance Report, January 1, 2011 - June 30, 2011

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications
					2010-2011	
SWMP Element #1- Illicit Discharge Detection and Elimination						
Illicit Discharge Enforcement	Ongoing	Implement City code sections 13.40.050 and 13.40.110: <ul style="list-style-type: none"> City code section 13.40.050 prohibits constructing, using, maintaining, or continuing an illicit connection to the storm drain system. City code section 13.40.110 discusses enforcement actions for failing to comply with control of non-stormwater discharge. The penalty for a first violation is \$250. A penalty of \$1,000 may be imposed for each subsequent failure to comply and each day of a continuing violation shall constitute a separate offense. The City may order compliance by written notice that includes performance of monitoring, analysis, and reporting; elimination of illicit connections or discharges; abatement or remediation; payment of fines; and implementation of source control or treatment BMPs. The public works director may also exercise authority to enforce a construction permit or NPDES permit through a stop work order if necessary.	For identified illicit discharges conduct appropriate enforcement actions.	Track number, location and resolution of enforcement actions.	No illicit discharges identified.	No modification
Illicit Discharge Field Screening Procedures	Ongoing	Conduct dry weather inspections of accessible outfalls following the procedure in the Stormwater Operation and Maintenance (O&M) Manual to search for, detect, and prevent illegal dumping of pollutants and illicit connections (including connections from sanitary sewers and commercial and/or industrial wastewater sewers) to the storm sewer system. Any dry weather flows identified will be reported to the public works department. Annually update maps as necessary to indicate field screening locations.	Inspect accessible outfalls annually. Maintain maps of outfall inspection locations.	Track number and percent of outfalls inspected.	No outfalls were inspected between January 1, 2011 and June 30, 2011.	No modification
Illicit Discharge Investigation Procedures	1-Jul-12	Implement follow-up actions on a prioritized basis when problems are reported to the public works department. Follow up actions may include sampling for pH, dissolved oxygen, temperature, conductivity, ammonia, and total chlorine. If elevated results or poor water quality are detected, additional samples could be collected for lab analysis. If screening results indicate a potential problem, staff will conduct upstream investigations. The City will revise and document standard operating procedures to address new permit requirements and to document and update the details of the illicit discharge field screening and investigation procedures by June 30, 2012.	Develop revised procedures by July 1, 2012. Until procedures are revised, investigate problems reported within 2 weeks of the initial report.	Track number and type of problems reported, and track problem resolutions. Track status of revisions to procedures.	City staff observed turbid water discharging into Fairview Creek. After following the discharge upstream it was determined to come from an adjacent jurisdiction who was then notified. The jurisdiction resolved the situation and erosion control measures were implemented.	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES
Table 4-3 2010-2011 Annual Stormwater Compliance Report, January 1, 2011 - June 30, 2011

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications
					2010-2011	
Spill Prevention	Ongoing	<p>Wellhead Protection Program. The wellhead protection program serves to prevent spills and illegal dumping. The City will work to maintain its existing agreement with the City of Gresham for wellhead inspection in the Columbia South Shore Well Field Wellhead Protection Area and continue to implement wellhead protection throughout Fairview for the protection of groundwater. This program is included here because of its residual benefits to stormwater.</p> <p>Wellhead Protection - Intergovernmental Agreement. The City of Gresham and the City of Portland entered into an intergovernmental agreement for the Implementation of the Columbia South Shore Well Field Wellhead Protection Program in 2003 (City of Gresham contract number 1609). This agreement provides protection of the Columbia South Shore Well Field Wellhead Protection Area lying within Gresham and Fairview from contamination by hazardous substances generated at industrial and commercial facilities.</p> <p>Fairview has adopted Ordinance #12-2002 to protect the Columbia South Shore Well Field Wellhead Protection Area from contamination by hazardous substances by establishing an inspection program. A wellhead inspection is performed at commercial and industrial facilities by the City of Gresham, Fairview, Gresham and Portland Staff meet at least annually to discuss any changes to code provisions.</p> <p>Wellhead Protection - City Code and Reference Manual.</p> <p>Wellhead protection is discussed in City code chapter 16.10. A wellhead protection program reference manual has been developed that establishes the wellhead protection boundaries. The code also includes requirements for reporting, standards, and inspections related to the storage, handling, use and transportation of hazardous materials; penalties for violations and enforcement actions; compliance requirements; building and site permit review and approval requirements; and inspection fees.</p>	Once during the permit term, conduct inspections of all businesses with regulated quantities in the well field.	Track the number of inspections conducted.	The City entered into an IGA with the City of Gresham for business inspections. 20 businesses were notified of upcoming inspections and 3 businesses were inspected for conformance with the WHPP.	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES
Table 4-3 2010-2011 Annual Stormwater Compliance Report, January 1, 2011 - June 30, 2011

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications
					2010-2011	
Spill Clean-up	Ongoing	<p>Maintain agreement with the City of Gresham Fire Department for clean-up after structural fires and vehicular accidents to prevent pollutants and debris from being washed into the storm drain system.</p> <p>When there is a hazardous spill or a spill of any other substance that:</p> <ul style="list-style-type: none"> • Is hazardous in any quantity • Is non-hazardous and greater than 42 gallons on the ground • Or is any quantity that has entered a waterway or a dry well. <p>The City of Gresham Fire Department staff notifies the Oregon Emergency Response System (OERS). OERS then notifies the Oregon Department of Environmental Quality (DEQ) and other state and local agencies that may be affected. The responsible party, if identified, is required to contact an environmental clean-up company and pay for clean-up costs. Examples could include spillage of a 55-gallon-drum of restaurant grease or sanitary sewer overflows on private property, resulting in or having the risk of resulting in, discharges to the public stormwater system. DEQ remains the enforcement authority in these cases. DEQ may choose to enforce against the responsible party under the following conditions:</p> <p>1) the party has acted maliciously; 2) the party is a repeat offender; or 3) the party has failed to report the incident to DEQ.</p> <p align="center">Non-Hazardous Substances</p> <p>Public Works staff will investigate and provide emergency containment and clean-up as necessary. If the responsible party can be identified, he or she is directed to provide containment and site clean-up. If the spill is an imminent threat to waters of the state, the City reserves the right to provide clean-up and bill the responsible party for the work. The responsible party will be invoiced for any response and clean-up provided by the City. Examples include spills or dumping of paint, auto fluids, carpet cleaning wastes or concrete, etc. into catch basins or onto the street.</p> <p>In non-emergency situations, such as dumping of debris on private property near a stream bank, Public Works staff will notify the responsible party, verbally and in writing, and specify a timeframe for clean-up. Staff will refer the incident to Code Enforcement if the responsible party does not respond within the specified time frame.</p>	Maintain agreement with City of Gresham Fire Department. Investigate spills and provide emergency containment and clean-up as necessary.	Track spill locations, type of materials and response activities.	Gresham Fire Department responded to one gasoline spill with a few gallons requiring clean-up with kitty litter.	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES
Table 4-3 2010-2011 Annual Stormwater Compliance Report, January 1, 2011 - June 30, 2011

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications
					2010-2011	
		Code enforcement has the authority to issue Abatement Procedures, Violations or Civil Actions Releases from Traffic Accidents If there is a spill of automotive fluids resulting from a traffic accident, the Gresham Fire Department will spread an absorbent compound (usually clay) and specialized absorbent pads on automotive fluids. Buckets are placed underneath dripping fluids. The road is swept and cleaned and, when necessary, additional protection is placed around the catch basins. Large leaking spills from commercial vehicles or semi-trucks are captured using a children’s plastic pool. From a legal standpoint, the generator of the spill is responsible; therefore the waste materials are bagged and placed inside the wrecked vehicle or given to the tow truck driver for disposal. The City will perform the clean-up or utilize private clean-up contractors in order to continue the spill response program, when no responsible party can be identified.				
Municipal vehicle monitoring and maintenance	Ongoing	If there is a spill of automotive fluids resulting from a traffic accident, the Gresham Fire Department will spread an absorbent compound (usually clay) and specialized absorbent pads on automotive fluids. Buckets are placed underneath dripping fluids. The road is swept and cleaned and, when necessary, additional protection is placed around the catch basins. Large leaking spills from commercial vehicles or semi-trucks are captured using a children’s plastic pool. From a legal standpoint, the generator of the spill is responsible; therefore the waste materials are bagged and placed inside the wrecked vehicle or given to the tow truck driver for disposal.	Maintain vehicles on a 4-month schedule.	Track status of municipal vehicle maintenance.	All vehicles in the City fleet were maintained as scheduled. No leaks were detected.	
Water Line Flushing	Ongoing	The City will perform the clean-up or utilize private clean-up contractors in order to continue the spill response program, when no responsible party can be identified.	Dechlorinate waterline flushing with vitamin C.	NA	No chlorine detected.	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES
Table 4-3 2010-2011 Annual Stormwater Compliance Report, January 1, 2011 - June 30, 2011

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications
					2010-2011	
SWMP Element #2- Industrial and Commercial Facilities						
Industrial and Commercial Facility Inspections	Ongoing	Implement the City's Industrial and Commercial Facility Inspection procedure that is included in the Stormwater Operation and Maintenance Manual to control the discharge of pollutants in stormwater from industrial and commercial facilities to the municipal separate storm sewer system.	Spend one week (40 hours) implementing commercial and industrial inspection procedures.	Track number of facility inspections and follow-up.	No inspections were performed January 1, 2011 through June 30, 2011.	No modification
Screen Industries/Businesses and Track NPDES Stormwater Permits	Annually	Annually, the City will review their business license inventory to determine whether any new facilities would be subject to an industrial stormwater NPDES permit. This determination will occur based on a review of the applicable SIC codes related to the 1200-series NPDES permit. If a facility is identified that would be subject to an industrial stormwater NPDES permit, the facility and DEQ will be notified within 30 days. During industrial and commercial inspections staff will obtain a copy of the facility's permit or work with the facility to either obtain a permit, or eliminate the potential for contact of pollutants with stormwater, thereby eliminating the need for a permit. In cases where discharges appear contaminated, the City will send a copy of the inspection report to DEQ.	Annually notify DEQ of any existing or new industrial facilities within the City's jurisdiction that may potentially be subject to an industrial stormwater NPDES permit.	Track number and type of new facilities identified as needing permits.	Provided list of potential businesses to DEQ during preparation of the annual report.	No modification
SWMP Element #3 - Construction Site Runoff Control						
Erosion Control Activities	Ongoing	Ordinance 3-1993 adopts an erosion control plan. The ordinance includes an Erosion Control Technical Guidance Handbook (Technical Guidance) that describes regulations, standards and provisions for erosion control as well as fees and penalties for violation. The City enforces the erosion control requirements through a permitting process required for sites disturbing 500 ft ² or more as discussed under the BMP, Development Review. The Technical Guidance prescribes the following four steps to consider in planning for erosion control: Step 1: Identify Site Characteristics Step 2: Lay Out Preconstruction Plan and Proposed Base Measure Step 3: Measures During Construction Step 4: Post Construction Measures The Technical Guidance also has requirements for single-family homes and duplexes on existing lots of record, private developments construction, private construction in public rights-of-way, public works construction, erosion control measures, inspections and enforcements, and penalties. Non-stormwater wastes on construction sites are also addressed through the City's nuisance ordinance in Chapter 8 of the municipal code.	Inform all construction site owners that have 1 acre or more of disturbed land that they are required to obtain a 1200-C permit from DEQ. Review development sites required to meet City erosion control requirements.	Track the number of erosion control permits issued annually.	The City issued 3 erosion control permits for sites less than 1 acre.	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES
Table 4-3 2010-2011 Annual Stormwater Compliance Report, January 1, 2011 - June 30, 2011

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications
					2010-2011	
Erosion Control Program Training	Ongoing	The Technical Guidance describes regulations, standards and provisions for erosion control as well as fees and penalties for violation.	Provide a copy of the Technical Guidance to all developers and contractors.	N/A	Technical Guidance handbooks were distributed with all new erosion control permit applications.	No modification
Construction Site Inspections	1-Jan-14	The City currently reviews plans and inspects construction sites required to meet the City's erosion control standards using the following procedures: 1. Phone call before inspection to make sure BMPs are in place. 2. Visit every site over 1 acre after the first significant rainfall event and periodically thereafter. If time is limited, the City prioritizes inspections by visiting problem sites first, then visiting facilities that would have the highest environmental effect if the erosion control failed.	Inspect all construction sites required to meet City erosion control standards. Audit or review existing codes to ensure legal and escalation clauses exist for site design, source control, stormwater treatment BMPs, and post-construction BMPs by January 1, 2014.	Track the number of sites that were permitted and inspected. Report the number and type of enforcement actions.	The City maintains a database of all erosion control permits including inspection dates and enforcement activities. No enforcement action was required.	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES
Table 4-3 2010-2011 Annual Stormwater Compliance Report, January 1, 2011 - June 30, 2011

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications
					2010-2011	
SWMP Element #4 - Education and Outreach						
Educational Activities	Ongoing	<p>The City supports community programs, publishes articles in the City newsletter and coordinates with the City of Gresham where appropriate. Current City public education programs that are related to stormwater include educational programs on stormwater quality and the use of nonpolluting alternative garden products, including low-volume uses of pesticides, herbicides, and fertilizers (e.g., household uses). The City also supports the following programs:</p> <ul style="list-style-type: none"> • Programs with local area schools • Programs with volunteer groups • Columbia Slough Watershed Council activities • Business Assistance Program – Private Catch Basin Cleaning • Spring Clean-up • Metro Hazardous Waste Clean-up • Informational kiosks at City events and City Hall • Doggy Don't waste bag 	<p>Publish stormwater related articles in the City newsletter.</p> <p>Support local education programs.</p>	<p>Track newsletter articles produced annually.</p> <p>Track activities conducted to support local education programs.</p>	<p>City staff manned stormwater and water conservation booths at the Big Truck Day. Slough School activities for students in grades K-12 were financially supported by the City. Staff participated in the Children's Clean Water Festival where 4th and 5th grade students learn about water science and watershed ecology. Published stormwater related articles in the Public Works newsletter. Continued the Doggy Don't program and the Metro Recycling Program. The City is a sponsor of KGW's "Do the Right Thing" campaign designed to influence behaviors and attitudes regarding watershed health. The Fairview Police Department collects unused medications.</p>	No modification
Report Illegal Dumping and Illegal Connections	Ongoing	<p>Continue to facilitate efforts by the public to report illegal dumping, illicit connections, and other incidents. Implement public reporting program as described in the Stormwater Operation and Maintenance (O&M) Manual.</p>	<p>Respond to reports and/or complaints from citizens regarding observed water quality problems.</p>	<p>Track the number of reports/complaints received, and the follow-up actions conducted (including the timing of the follow-up action).</p>	<p>After receiving a complaint about dog feces City staff sent a code compliance letter to the offending property owner. A follow-up inspection revealed the violation had been corrected. The City participates in the Metro Regional Illegal Dumping Patrol - RID.</p>	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES
Table 4-3 2010-2011 Annual Stormwater Compliance Report, January 1, 2011 - June 30, 2011

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications
					2010-2011	
Illegal Dumping and Illegal Connections, Public Education	Ongoing	Educate the public about the harmful effects of dumping oil, antifreeze, pesticides, paints, solvents, and other potentially harmful chemicals into storm sewers or drainage channels.	Support recycling and disposal programs; programs that provide convenient means to dispose of materials, existing solid waste management programs. Educate the public regarding the stormwater pollution that results from dumping and illegal connections.	Track the number of public recycling and disposal programs conducted annually.	Staff published recycling and stormwater educational articles in the Public Works Newsletter, hosted the annual Fairview Spring Clean-up and implemented the Metro recycling program.	No modification
Participate in a Public Education Effectiveness Evaluation	1-Nov-14	By November 1, 2014, the City of Fairview will coordinate with other local, Phase I jurisdictions to provide information related to an effectiveness evaluation. The effectiveness evaluation information will focus on assessing changes in targeted behaviors and will allow for additional information that can be used in adaptive management of the City's education and outreach strategy.	Coordinate with other local jurisdictions in providing/compiling information regarding a public education effectiveness evaluation by November 1, 2014.	Report on activities annually.	No new activity.	No modification
Staff Education and Training	Ongoing	Conduct training for new employees and contract employees on stormwater requirements and train existing employees when there is a significant update to the documents used by the City that regulates stormwater pollution control activities.	Provide annual training to personnel involved in stormwater management.	Track personnel receiving training annually.	The City maintains membership in the Association of Clean Water Agencies.	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES
Table 4-3 2010-2011 Annual Stormwater Compliance Report, January 1, 2011 - June 30, 2011

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications
					2010-2011	
SWMP Element #5 - Public Involvement and Participation						
Provide for Public Participation with the annual report, SWMP and Benchmark Submittals	Annually by November 1	Co-permittees must submit an annual report for the portion applicable to its jurisdiction by November 1 of each year. SWMP revisions and pollutant load reduction benchmarks are required for submittal to DEQ at the permit renewal submittal (180 days prior to permit expiration). Prior to submittal of these items, the City will provide the public with an opportunity to comment on the annual report, revisions to the SWMP and proposed pollutant load reduction benchmarks. The documents will be made available on the City's website or through web links. Comments on the documents will be collected and considered and a response to comments will be provided.	Provide for public participation with the annual report, SWMP and pollutant load reduction benchmarks prior to the permit renewal application deadline.	N/A	Comments were solicited for the draft NPDES Annual Report through publication on the City's website.	No modification
SWMP Element #6 - Post-Construction Site Runoff						
Development Review for Private Projects	Ongoing	Implement and enforce regulations which give legal authority to: 1) require site-drainage designs and systems which address water quality; and/or 2) minimize the total volume of runoff and the peak rate of runoff, where local conditions permit. The City implements these regulations through its Community Development Department and Public Works Department. New development and redevelopment projects are reviewed for conformance to the following existing City regulations: <ul style="list-style-type: none"> Fairview Comprehensive Plan, June 2004—provides the guiding direction to protect the natural environment and ensure that long-term growth does not adversely affect the natural resources. Community Development Department—Land Use and Building Permits; Land Use Code Enforcement. Title 19, Development Code—requires accommodation and treatment of stormwater runoff and system installation conforming to standards and specifications adopted by the City. City of Fairview Standard Specifications for Public Works Construction 	Review development plans for conformance with standards. Maintain map of private water quality facilities	Track acreage of new and re-development activities requiring stormwater treatment annually. Track the number and type of private water quality BMPs built.	One industrial redevelopment project was constructed. A stormfilter was installed to treat runoff from the existing facility, the new modular unit and a future parking lot. The new modular unit increased the imperious area by 2640sf. Public Works staff performed on-site inspection prior to final occupancy. The City is currently field collecting/verifying sanitary, storm and water utility features using GPS technology. It is anticipated that the storm updates will be completed by the end of November.	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES
Table 4-3 2010-2011 Annual Stormwater Compliance Report, January 1, 2011 - June 30, 2011

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications
					2010-2011	
Review Applicable Code and Development Standards related to Stormwater Management	1-Jan-14	In conjunction with the provisions and timeframe outlined in the City's MS4 NPDES permit, review and if necessary, revise existing stormwater design standards and relevant code provisions to ensure that they are consistent with applicable permit language. In addition, document the City's relevant inspection and enforcement response procedures.	Review and the City's current stormwater treatment standards for compliance with new MS4 NPDES permit language by January 1, 2014. Review the City's current public works development code provisions to ensure that applicable barriers related to the use of Low Impact Development techniques are minimized and eliminated where practicable by January 1, 2014. If necessary, update the City's post-construction stormwater design standards and code language. Document the City's post-construction inspection and enforcement response procedures by January 1, 2014	Track progress related to the review of the City's code and development standards per provisions in the MS4 NPDES permit.	No new activity.	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES
Table 4-3 2010-2011 Annual Stormwater Compliance Report, January 1, 2011 - June 30, 2011

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications
					2010-2011	
Design Standards for Public Projects	Ongoing	Follow the Standard Specifications for Public Works Construction which requires treatment of stormwater runoff through the use of BMPs. Maintain database of BMPs that are implemented.	Ensure that public works stormwater related projects address treatment of runoff as appropriate.	Number and type of public stormwater quality BMPs built.	Project GW-2 which was identified in the Consolidated Stormwater Master Plan and included construction of sedimentation manholes upstream of drywell was designed and bid for construction in PY 17.	No modification
SWMP Element #7 - Pollution Prevention for Municipal Operations						
O&M Plan	1-Nov-13	Use the O&M Plan as a guide for designing and maintaining public storm facilities in order to maximize water quality benefits while maintaining flood capacity. The O&M Plan is intended to help locate and eliminate pollutants and provides a framework for maintaining field inspections records.	Implement the procedures in the O&M Plan. Review the O&M Plan by November 1, 2013, and update as necessary to maximize water quality benefits while maintaining flood capacity.	Track annual changes made to the O&M Plan	The Pollutant Detection Procedure was revised to document the enforcement response that will be used when an illicit discharge is detected and a responsible party is identified.	No modification
Right of way-O&M	Ongoing	The City contracts with Multnomah County for road maintenance that includes street sweeping, roadside mowing and brushing and pavement maintenance. The maintenance program is substantially similar to, and at least as protective as, the ODOT Routine Road Maintenance program approved under the current 4(d) limit.	Maintain contract with Multnomah County for road maintenance.		Road maintenance provided through IGA with Multnomah County.	No modification
Street Sweeping	Ongoing	The City contracts with Multnomah County for street sweeping (approximately 6 times per year). The frequency is based on weather conditions, road conditions and funding.	Maintain contract with Multnomah County.	Track frequency of sweepings.	Multnomah County billed the City for street sweeping three times during PY 16 - twice in the fall and once in the spring.	No modification
De-icing and Yard Debris Activities	Ongoing	Sand and gravel are applied to roadway surfaces to assist with traction during inclement weather. The sand is removed and recycled as soon as possible after the snow or ice event. Yard debris is picked up from residents weekly by the City's solid waste provider.	As weather permits, remove gravel when it is no longer needed.	Track processes conducted for sand and gravel removal.	No deicing activities.	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES
Table 4-3 2010-2011 Annual Stormwater Compliance Report, January 1, 2011 - June 30, 2011

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications
					2010-2011	
Native Vegetation	Ongoing	Encourage the use of native vegetation in riparian areas on private and public property to reduce the need for fertilizers, pesticides, and herbicides. Planting and landscape policies for riparian buffer areas encourage use of vegetation (indigenous or imported) that is self-sustainable without the need for pesticides or herbicides. Riparian buffer permits are issued for alterations to the landscape within 50 feet of Fairview Creek, Fairview Lake, the Columbia Slough and their tributaries (City code chapter 19.106).	Review planting plans associated with riparian buffer permits.	Track number of riparian buffer permits.	One riparian buffer permit was issued for a dock on Fairview Lake.	No modification
Integrated Pest Management	Ongoing	The City encourages use of the Portland Parks and Recreation Pest Management Guide. This guide emphasizes controlling pests that are harmful to the health or aesthetic value of park plantings in a manner that is cost-effective, safe, and environmentally responsible. It is an approach that uses multi-faceted strategies that minimize negative impacts on the environment and on human health. The controls used in this program include manual, mechanical, cultural, biological and chemical methods. Often a combination of methods is used. Examples of Integrated Pest Management include: <ul style="list-style-type: none"> • Timing of chemical applications to avoid runoff. • Mowing high grass and brush to reduce weed seed crops in rough areas. • Pruning of trees and shrubs to increase air circulation to reduce susceptibility to disease and insect problems. • Appropriate fertilizing to encourage plant health and resistance to pests (i.e., weeds, insects and disease). • Using plants with natural resistance to pests. Combining turf aeration and over-seeding along with any application of broadleaf weed control to eliminate the cause of the problem, and therefore the need for repeated applications.	Use Portland Parks and Recreation approved chemicals. Incorporate native plants in City planting projects to reduce chemical and fertilizer usage, as well as maintenance requirements.	Track City planting projects that incorporate native plants.	The Public Works Department prepares a summary of all chemicals used by the department. The City sponsored a SOLV IT event for wetland restoration through invasive plant removal at Fairview Woods Park.	No modification
Chemical Applicator Licensing	Ongoing	Maintain staff certification in public pesticide application and follow Oregon Department of Agriculture (ODA) requirements related to herbicide application.	All chemical applications will be supervised by an ODA Certified Applicator.	N/A	All chemical applications are supervised by an ODA Certified Applicator.	No modification
Track Municipal Facilities	Ongoing	The City has one facility that includes the treatment, storage or transport of municipal waste. This facility is the Corporation Yard Dumpster. Collection of waste from municipal litter receptacles is collected and stored in a dumpster at this site until the City's garbage hauler collects the waste on a weekly basis. The dumpster has a cover on it and runoff from the site is treated by a structural stormwater filter. No additional stormwater management practices are deemed necessary for this site.		N/A	N/A	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES
Table 4-3 2010-2011 Annual Stormwater Compliance Report, January 1, 2011 - June 30, 2011

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications
					2010-2011	
Litter Receptacles	Ongoing	Provide, collect, and maintain litter receptacles in strategic public areas and during major public events to provide disposal of pet waste bags and prevent trash from entering the stormwater system.	Maintain at least one litter receptacle at all public parks greater than 1 acre. Provide collection a minimum of once per week.	Track number of litter receptacles.	43 litter receptacles are maintained once a week and after all events.	No modification
Sanitary Sewer System Program	Ongoing	Limit wastewater infiltration through the operation, maintenance and construction of the sanitary sewer infrastructure based on existing conditions and projected sanitary flows.	Respond to pump station failures. Perform cleaning of the problem areas of the City's sanitary sewer system. Construct pipe restoration projects to replace defective pipe and reduce inflow and infiltration.	Track identified sanitary problems and resolutions related to the storm system each year.	The Cedar Street Sanitary Sewer Rehabilitation Project was designed for construction in PY 17.	No modification
Consolidated Stormwater Master Plan (CSMP)	Ongoing	The Consolidated Stormwater Master Plan (CSMP) adopted in 2007 combines infrastructure improvements including retrofit opportunities with federal and state water quality requirements. Projects were developed to address water quantity and quality issues, utilizing hydrologic and hydraulic modeling as well as information from the TMDL regulatory program and the NPDES stormwater discharge permit.	Continue to make progress in the implementation of the CSMP.	Track the number, type and watershed location of projects that are completed.	No projects were completed between January 1, 2011 and June 30, 2011.	No modification

CITY OF FAIRVIEW BEST MANAGEMENT PRACTICES
Table 4-3 2010-2011 Annual Stormwater Compliance Report, January 1, 2011 - June 30, 2011

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications
					2010-2011	
SWMP Element #8 -Structural Stormwater Facility Operations and Maintenance						
Inspect and Maintain Public Storm Facilities	Ongoing	Perform inspection and required maintenance as stated in the O&M Plan—clean catch basins and storm pipe, sedimentation manholes, channels and stormwater detention basins in areas where sediment and/or debris tend to accumulate.	Inspect 50 percent of detention lines, ponds, swales and outfalls. Inspect natural stream channels from bridge and road crossing. Clean catch basins and inspect adjacent pipes in one third of the City annually. Clean all water quality manholes (5). Update maps of City Structural Stormwater Facilities.	Track facilities inspected and maintained. Track number of catch basins cleaned. Estimate quantity of sediment removed from catch basins and water quality manholes.	See Table 4.0 The City is currently field collecting/verifying sanitary, storm and water utility features using GPS technology. It is anticipated that the storm updates will be completed by the end of November.	No modification
Private Water Quality Facilities Inspection and Maintenance	Ongoing	Require plans conforming to the requirements of City of Fairview Standard Specifications for Public Works Construction and City of Portland Stormwater Management Manual at the time of permitting for stormwater facilities related to new private development and redevelopment/retrofitting. Include recording of operations and maintenance plans for stormwater quality facilities.	Ensure new private stormwater facility plans conform to City requirements. Inspect new facilities for conformance to approved O&M plans.	Track number of inspections conducted and inspection results.	No new facilities were constructed between January 1, 2011 and June 30, 2011.	No modification