

## **Section Four – City of Fairview Summary of Program Monitoring Municipal National Pollutant Discharge Elimination System Annual Report for Permit Year 18, Permit #101315, November 1, 2013**

### **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) 18 Annual Report documents implementation activities from July 1, 2012 through June 30, 2013 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 table that follows. Table 4-2 summarizes the time period July 1, 2012 to June 30, 2013 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.

As part of the annual adaptive management process, data and feedback were collected from staff responsible for implementing/reporting on each BMP. 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? In addition to assessing the implementation of each BMP, staff weighed resource availability and needs related to the overall stormwater program, including consideration of budget/funding, training needs, new technology and available equipment. The annual adaptive management process will inform any alterations to the stormwater program or future modifications to

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 18.

## Stormwater Management Program Budget

City of Fairview Stormwater Management program costs for Permit Year 18 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 18 and provides the anticipated budget for Permit Year 19, (Fiscal Year 2013-2014).

<b>Table 4-1</b>	<b>2012-2013</b>	<b>2013-2014</b>
<b>Program Area</b>	<b>PY 18 Expenditures</b>	<b>PY 19 Anticipated Budget</b>
Stormwater Fund	\$506,349	\$627,935
Street Fund	\$466,472	\$540,029

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications	Responsible Party
					2012-2013		
<b>SWMP Element #1- Illicit Discharge Detection and Elimination</b>							
Illicit Discharge Enforcement	Ongoing	<p>Implement City code sections 13.40.050 and 13.40.110:</p> <ul style="list-style-type: none"> <li>City code section 13.40.050 prohibits constructing, using, maintaining, or continuing an illicit connection to the storm drain system.</li> <li>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.</li> </ul> <p>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.</p>	For identified illicit discharges conduct appropriate enforcement actions.	Track number, location and resolution of enforcement actions.	<p>Three independent illicit discharge complaints were submitted to the City.</p> <ol style="list-style-type: none"> <li>150 Bridge Street - water flowing from property across Bridge Street. (11-29-2011)</li> <li>1601 NE 223rd (La Mixteca Tacqueria) - worker dumping mop bucket into catch basin. (10-29-12 and 1-10-13)</li> <li>20575 NE Sandy Blvd - landscape debris dumped adjacent to stormwater pond. (4-23-2013)</li> </ol> <p>Follow up inspections were conducted at all properties. The flow at 150 Bridge Street was associated with uncontaminated pumped groundwater, which is not an illicit discharge. A letter was sent to the homeowner, but no follow up measures were needed. For 1601 NE 223rd, a site visit was conducted and outreach efforts made. A letter was sent to the owner. A follow up complaint was logged, and no additional enforcement efforts taken. The debris at 20575 NE Sandy was reported to the property owners via phone call, and the debris was scheduled for removal.</p> <p>As part of the dry weather field screening efforts, no illicit discharges were identified.</p>	No modification	Sr Eng Tech
Illicit Discharge Field Screening Procedures	Ongoing	<p>Conduct dry weather inspections of accessible outfalls following the procedure in the Stormwater Operation and Maintenance (O&amp;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.</p> <p>Annually update maps as necessary to indicate field screening locations.</p>	Inspect accessible outfalls annually. Maintain maps of outfall inspection locations.	Track number and percent of outfalls inspected.	<p>The City of Fairview has identified and mapped a total of 38 outfalls, nine of which are considered high priority.</p> <p>Dry weather field screening was conducted in September and October 2012. 87% of the outfalls were inspected.</p> <p>No map updates were conducted this permit year.</p>	No modification	Storm Lead Worker Map Tech
Illicit Discharge Investigation Procedures	1-Jul-12	<p>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> <p>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.</p>	<p>Develop revised procedures by July 1, 2012.</p> <p>Until procedures are revised, investigate problems reported within 2 weeks of the initial report.</p>	Track number and type of problems reported, and track problem resolutions. Track status of revisions to procedures.	<p>See BMP: Illicit Discharge Enforcement for a description of reported illicit discharges.</p> <p>At the 150 Bridge Street property, the investigation procedures were implemented and field samples collected. Results from the field sampling effort confirmed all parameters below action levels, indicating no source of pollution. For other reported illicit discharges, no opportunity for additional investigation was possible.</p> <p>No investigation efforts were conducted based on results of the dry weather field screening.</p> <p>No updates to the procedure were made this reporting year.</p>	No modification	Sr Eng Tech

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications	Responsible Party
					2012-2013		
Spill Prevention	Ongoing	<p><b>Wellhead Protection Program.</b> 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><b>Wellhead Protection - Intergovernmental Agreement.</b> 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 commercial and industrial facilities by the City of Gresham. The entire city, except for a residential area, high school and park, is included in the wellhead protection program.</p> <p>Fairview, Gresham and Portland Staff meet at least annually to discuss any changes to code provisions and any rules promulgated thereunder by either party.</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.	<p>A total of five businesses were inspected for conformance with the WHPP. Inspection efforts were as follows:</p> <ol style="list-style-type: none"> <li>1) Navistar (1-14-13)</li> <li>2) Automobeals (1-15-13)</li> <li>3) Blue Lake Park (4-16-13)</li> <li>4) City Cop Yards (6-14-13)</li> <li>5) Blue Lake Auto (6-28-13)</li> </ol>	No modification	Sr Eng Tech PW Superintendent

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications	Responsible Party
					2012-2013		
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"> <li>• Is hazardous in any quantity</li> <li>• Is non-hazardous and greater than 42 gallons on the ground</li> <li>• Or is any quantity that has entered a waterway or a dry well.</li> </ul> <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>□</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><b>Non-Hazardous Substances</b> 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. 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> <p><b>Releases from Traffic Accidents</b> 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.</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.	Two spill incidents were reported by City of Gresham. 1) Leaking oil tank (500-1,000 gal) at Gresham Dodge (9-10-12). Spill incident reported to Fairview by Gresham. Clean up efforts (stormline flushing, booms, etc.) contracted to NRC. No evidence of spill reaching Fairview city boundary. 2) Ammonia nitrate (fertilizer) spilled on roadway (approximately 10 pounds) (4-25-13). Gresham Fire Dept. responded. No action required by Fairview.	No modification	Gresham Fire Sr Engineering Tech PW Superintendent
Municipal vehicle monitoring and maintenance	Ongoing	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. If any leaks are observed between the regular maintenance the vehicles are repaired immediately.	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.	No modification	PW Superintendent Police
Water Line Flushing	Ongoing	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.	Dechlorinate waterline flushing with vitamin C.	NA	No chlorine detected.	No modification	Water Lead Worker

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications	Responsible Party
					2012-2013		
<b>SWMP Element #2- Industrial and Commercial Facilities</b>							
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.	A total of five businesses were inspected for conformance with the WHPP (see BMP: Spill Prevention).  A follow up inspection was also conducted for the Knight Transportation facility, based on inspection results from PY 17. The inspection was conducted on September 19, 2012.	No modification	Sr Eng Tech
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.	City staff updated the business inventory that could potentially be subject to an industrial stormwater permit.  City staff coordinated with DEQ on 10-11-12 to confirm whether a permit was needed at a new facility at 5501 NE Marine Drive. Correspondence with DEQ (Dennis Jurries) indicates a permit may be necessary.	No modification	Sr Eng Tech
<b>SWMP Element #3 - Construction Site Runoff Control</b>							
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 <sup>2</sup> 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.	Six erosion control permits were issued for PY18.  None of the permits issued were for sites greater than 1 acre.	No modification	Permit Tech Sr Eng Tech
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	Permit Tech
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.	Six erosion and sediment control inspections were conducted during PY 18.  No enforcement actions were taken.	No modification	Permit Tech Sr Eng Tech

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications	Responsible Party
					2012-2013		
<b>SWMP Element #4 - Education and Outreach</b>							
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"> <li>• Programs with local area schools</li> <li>• Programs with volunteer groups</li> <li>• Columbia Slough Watershed Council activities</li> <li>• Business Assistance Program – Private Catch Basin Cleaning</li> <li>• Spring Clean-up</li> <li>• Metro Hazardous Waste Clean-up</li> <li>• Informational kiosks at City events and City Hall</li> <li>• Doggy Don't waste bag</li> </ul>	Publish stormwater related articles in the City newsletter. Support local education programs.	<p>Track newsletter articles produced annually.</p> <p>Track activities conducted to support local education programs.</p>	<p><u>Large scale public education campaigns:</u></p> <p>1) Fairview participated in KOIN's Do the Right thing campaign during July and August 2012. Budget and staffing issues prevented continued support at this time.</p> <p>2) Fairview coordinated via IGA with Gresham to provide public education services including public service announcements.</p> <p><u>Local outreach efforts:</u></p> <p>1) City public works staff maintained a booth at the chili festival (8-25-12) describing stormwater issues and problems and provided activities for children.</p> <p><u>Educational articles:</u></p> <p>The City of Fairview utilizes the local monthly newsletter "Fairview Point" to provide educational materials related to stormwater. Applicable articles included:</p> <p>1) Car washing challenge (Sep. 2012) - Summarized car washing practices to reduce/ minimize impacts to receiving waters.</p> <p>2) Fairview seeks public help keeping stormdrains clear (Nov. 2012) - Encouraged residents to clean catch basins to reduce flooding.</p> <p>3) Never dump in a stormdrain (Dec. 2012) - Described illicit discharges and provides citizen compliant number.</p> <p>4) Natural gardening and water quality (Apr. 2013) - Create natural landscaping to limit watering and resist pests.</p> <p>5) Spring clean up (May 2013) - Additional opportunities for spring cleaning disposal and recycling.</p> <p>6) Household toxic trash (June 2013) - Disposal mechanisms for potential toxic household items.</p>	No modification	Sr Eng Tech Development Analyst Event Coordinator
Report Illegal Dumping and Illegal Connections	Ongoing	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.	Respond to reports and/or complaints from citizens regarding observed water quality problems.	Track the number of reports/complaints received, and the follow-up actions conducted (including the timing of the follow-up action).	<p>See BMP: Illicit Discharge Enforcement and BMP: Illicit Discharge Investigation Procedures for a description of reported illicit discharges and response activities.</p> <p>In addition to the reported illicit discharges, the City had one ongoing clean up effort at 20347 NE Halsey St (Woodcreek Apartments). Primary and secondary private sewer pump failures resulted in overflow onto grassy area. The initial report was filed 2-19-13. Apartment maintenance staff repaired the primary pump and removed solids and spread lime over area. A second failure was reported 3-4-13, and a contractor replaced the secondary pump motor, removed solids, and applied lime. The final failure was reported 4-5-13, and resulted in the secondary pump system replacement. A follow up inspection 4-12-13 indicated all equipment was functioning properly.</p>	No modification	Sr Eng Tech PW Superintendent Code Compliance

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications	Responsible Party
					2012-2013		
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.	Contact information for reporting illegal dumping and illicit discharges including submission of a stormwater complaint form is included on the City's website.  The Fairview Point included two articles containing information regarding public recycling and disposal programs during the 2012-2013 reporting year.	No modification	PW Assistant Metro Recycling
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.	The City recently updated their IGA with the City of Gresham to include participation in the ACWA public education effectiveness evaluation. This coordinated effort involves compilation of existing educational survey information and development of conclusions to inform how public education efforts result in behavioral change. A proposal was received from DHM Consulting. ACWA coordinated with DEQ to ensure that the study would meet DEQ's intended requirements. ACWA developed a cost share breakdown among interested Phase I and Phase II communities.	No modification	Sr Eng Tech
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.	Training activities: 1) The Senior Engineering Technician attended the ACWA Stormwater Committee meetings on 11-8-2012, 12-6-12 and 1-17-13. 2) The Senior Engineering Technician attended the ACWA Stormwater Summit June 4, 2013. 3) Public Works field staff were trained on operations and maintenance procedures for drywells and oil water separators per updated O&M procedures (2-25-13). 4) Public Works field staff were trained on BMPs use at the Main City shop and Crestwood Shop per Stormwater Pollution Prevention Plans (3-11-13). 5) The Senior Engineering Technician attended the Center for Watershed Protection webcast on Smart Stormwater Retrofitting (3-13-13). 6) Public Works field staff were trained on inlet protection installation procedures (5-1-13).	No modification	Sr Eng Tech PW Superintendent Devel Analyst
<b>SWMP Element #5 - Public Involvement and Participation</b>							
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	Sr Eng Tech

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications	Responsible Party
					2012-2013		
<b>SWMP Element #6 - Post-Construction Site Runoff</b>							
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"> <li>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.</li> <li>Community Development Department—Land Use and Building Permits; Land Use Code Enforcement.</li> <li>Title 19, Development Code—requires accommodation and treatment of stormwater runoff and system installation conforming to standards and specifications adopted by the City.</li> <li>City of Fairview Standard Specifications for Public Works Construction</li> </ul>	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.	No new development or redevelopment applications were reviewed during this permit year.  Mapping updates for Permit Years 16-18 have not been completed due to staffing changes.	No modification	Permit Tech Sr Eng Tech Map Tech
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.	The City of Fairview is participating in the City of Gresham's phased process for updating their stormwater design standards and stormwater design manual. The Public Works Director attended four Phase I workshops with Gresham city staff to review design storms, calculation methods, facilities, and tools that may be used and incorporated into the updated design standards and manual. Phase II efforts are anticipated for the fall of 2013.	No modification	Sr Eng Tech Devel Analyst
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.	The City of Fairview completed the Salish Ponds Wetland Park improvement project, which included installation of an off-line stormwater retention facility. All work was performed in accordance with City of Fairview design and construction standards, and was designed by a local design consultant (Wallis Engineering) and constructed by a local environmental construction company (Henderson Environmental).	No modification	Sr Eng Tech

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications	Responsible Party
					2012-2013		
<b>SWMP Element #7 - Pollution Prevention for Municipal Operations</b>							
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 O&M Plan has been updated to reflect revised procedures for oil water separator inspection and maintenance and drywell (UIC) inspection and maintenance.	No modification	Sr Eng Tech PW Superintendent Storm Lead Worker
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	PW Superintendent
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.	During PY 18, Multnomah County conducted street sweeping 4 times.	No modification	PW Superintendent
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	PW Superintendent
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.	During PY 18, 5 riparian buffer permits were issued.	No modification	Permit Tech
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"> <li>• Timing of chemical applications to avoid runoff.</li> <li>• Mowing high grass and brush to reduce weed seed crops in rough areas.</li> <li>• Pruning of trees and shrubs to increase air circulation to reduce susceptibility to disease and insect problems.</li> <li>• Appropriate fertilizing to encourage plant health and resistance to pests (i.e., weeds, insects and disease).</li> <li>• Using plants with natural resistance to pests.</li> <li>• 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.</li> </ul>	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 Salish Ponds Wetland Park improvement project included re-vegetation of the banks of the west pond to eliminate bank degradation issues, and the creation of 18 natural viewing areas on the perimeter of the pond. The work also included the re-gravelling of the existing trail system, and the provision of informational boards related to wildlife in the park.	No modification	Sr Eng Tech Parks Lead Worker
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	PW Superintendent
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	

BMP Name	Compliance Date	BMP Description	Measurable Goals	Tracking Measures	Status	Summary and Date of Proposed Adaptive Management Modifications	Responsible Party
					2012-2013		
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.	Approximately 43 litter receptacles are maintained once a week and after significant events.	No modification	Parks Lead Worker
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.	No sanitary sewer problems or projects were initiated during PY 18.	No modification	Sr Eng Tech
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 stormwater CIPs aside from the Salish Ponds Wetland Park improvement were constructed this year due to funding and staff limitations.	No modification	Sr Eng Tech
<b>SWMP Element #8 - Structural Stormwater Facility Operations and Maintenance</b>							
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.	City staff coordinated with the East Multnomah Soil and Water Conservation District (EMSWCD) on development of a field guide for maintaining stormwater facilities. City staff inspected a total of 17 water quality manholes and over 50 catch basins during PY 18. Stormwater outfalls were inspected in conjunction with the dry weather field screening effort. No map updates were completed for structural stormwater facilities for PY 16-18 due to limited staff resources.	No modification	Sr Eng Tech Storm Lead Worker PW Superintendent Map Tech
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.	Private facility maintenance was conducted for the Knight Transportation Detention Pond on 9-20-12. City staff conducted an inspection as well.  The City of Fairview participates with the cities of Gresham, Troutdale, and Wood Village on a Stormdrain Cleaning Assistance Program for private property. The program prequalifies licensed contractors that can provide parking lot stormdrain cleaning at a flat fee for businesses.	No modification	Sr Eng Tech