

# CITY OF KIRKLAND



2012

## STORMWATER MANAGEMENT PROGRAM (SWMP)

 Prepared March 2012



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# CITY OF KIRKLAND

## 2012 STORMWATER MANAGEMENT PROGRAM (SWMP)

Prepared March 2012

### 1. INTRODUCTION

#### 1.1 THE PURPOSE OF THE STORMWATER MANAGEMENT PROGRAM DOCUMENT

This document constitutes the City of Kirkland 2012 Stormwater Management Program (SWMP) as required under condition S5 of the *Western Washington Phase II Municipal stormwater Permit* (the Permit). The purpose of the document is to detail actions that the City of Kirkland will take between January 1, 2012 and December 31, 2012 to maintain compliance with conditions in the Permit. This SWMP will be an attachment to the Annual Compliance Report for the Permit for 2011, which is due at the Department of Ecology on March 31, 2012.

#### 1.2 THE NPDES PROGRAM

The National Pollutant Discharge Elimination System (NPDES) is a program created under the Federal Clean Water Act with the intent of protecting and restoring water quality in lakes and stream so that they can support “beneficial uses” such as fishing and swimming. Governmental and private entities wishing to discharge water or wastewater to surface waters regulated by the Federal Government (Waters of the US) must obtain permits and comply with certain conditions or face fines and other penalties. NPDES permits have been written for discharges from construction sites, concentrated animal feeding operations, industrial activities, publicly-owned wastewater treatment plants, and municipal stormwater systems.

In Washington State, the US Environmental Protection Agency has delegated the authority over NPDES permits to the Washington State Department of Ecology (Ecology). Ecology has issued several general permits for discharges from stormwater systems that apply to municipalities with different sizes of populations and that are located in different regions of the State (Eastern and Western Washington). Phase I refers to municipalities of >100,000, and Phase II to those with a population of less than 100,000 according to the 1990 census.

#### 1.3 THE WESTERN WASHINGTON PHASE II MUNICIPAL STORMWATER PERMIT

Kirkland has a population of less than 100,000 and is in Western Washington. Thus our stormwater program must comply with conditions in the *Western Washington Phase II Municipal Stormwater Permit*. The Permit was issued on February 16<sup>th</sup>, 2007, and will remain in effect until February 15<sup>th</sup> of 2012. During the 2011 session, the State legislature extended the Permit term from February 2012 to August 2013 in order to provide fiscal relief to municipalities from new unfunded mandates during the current economic downturn (Engrossed Substitute House Bill 1478). A Permit allows municipalities to discharge stormwater from municipal systems into “waters of the state” such as rivers, lakes and streams, as long as we implement programs to reduce pollutants in stormwater to the “maximum extent possible” by conducting programs and activities in the following program areas:

- Public Education and Outreach
- Public Involvement
- Illicit Discharge Detection and Elimination
- Construction and Post-construction runoff controls
- Pollution Prevention and Municipal Operations and Maintenance
- Monitoring



## **1.3 THE WESTERN WASHINGTON PHASE II MUNICIPAL STORMWATER PERMIT (CONTINUED)**

The SWMP must be prepared and submitted annually and must contain the planned actions and activities that will be used in the following year to gain compliance with the permit. In addition, the Permit requires the City to submit an Annual Compliance Report by March 31<sup>st</sup> of each year that details actions taken in the previous year to achieve compliance. The full text of the Permit is available at: <http://www.ecy.wa.gov/programs/wq/stormwater/municipal/phasellww/wwphiipermit.html> or can be viewed upon request by contacting the City of Kirkland at (425) 587-3850.

## **1.4 IMPLEMENTATION TIMING**

The Permit was valid for 5 years, from February 17, 2007 to February 15, 2012, except as noted above the end of the Permit term was extended to August 2013, and allows for phased implementation of stormwater management programs and actions. Table 1 provides an overall of schedule and due dates.

Kirkland continues to be in position to meet deadlines and maintain Permit compliance.

## **1.5 CURRENT AND PLANNED ACTIVITIES**

Each of sections 2 through 7 describes permit requirements, current activities, and planned activities for a specific piece of the Stormwater Management Program.

Although the focus of the SWMP document is on identifying upcoming deadlines and required actions to meet those deadlines, it should be noted that the bulk of on-going compliance activities are noted and discussed in the “current activities” section. As we move further into the Permit cycle, an increasing number of deadlines have been met and programs have been implemented. For this reason, a greater number of items appear in the “current activities” section, while fewer items appear in the “planned activities” section.

## **1.6 CITY COORDINATION AND RESPONSIBILITIES**

Compliance with the Permit will require coordination and documentation of activities in several City departments. The Public Works Department Surface Water Utility staff will coordinate City efforts, and will meet with staff from other departments regularly to insure that on-going and planned activities meet Permit requirements. It is anticipated that activities required for Permit compliance will be carried out largely by the Public Works, Information Technology, Planning, Parks, City Manager’s Office (City Attorney), and Finance departments. The Fire/Building and Police departments will be involved to a lesser extent.

## **1.7 THE SURFACE WATER MANAGEMENT UTILITY - OTHER ACTIVITIES**

This SWMP details activities that are planned and that fall under the purview of the Permit. Stormwater management is one part of the City’s overall surface water management strategy. The Surface Water Utility conducts a suite of programs that reduce flooding, protect and improve water quality, and protect and restore aquatic habitat in the City’s streams and lakes. Although not directly required, flood reduction and aquatic habitat restoration efforts can often further stormwater management goals. For details on Surface Water Utility activities not addressed in this SWMP, see the City website at [http://www.kirklandwa.gov/depart/Public Works/Storm\\_Surface Water.htm](http://www.kirklandwa.gov/depart/Public Works/Storm_Surface Water.htm) or contact the Public Works Department at (425) 587-3800.

## **1.8 THE PERMIT AS DOCUMENT MAP**

The remainder of this document details the required elements of the SWMP as noted in Condition S5C of the Permit, and notes current and planned compliance activities. The subsection of Condition S5C associated with each section is noted in parentheses in the section on Permit Requirements.

## 2. PUBLIC EDUCATION AND OUTREACH

### 2.1 PERMIT REQUIREMENTS

The Permit (Section 55C.1) requires the City to provide a stormwater education and outreach program that will:

- Prioritize and address the target audiences and subject areas listed in the Permit based on stormwater issues and practices currently existing in Kirkland.
- Develop education and outreach programs that are designed to reduce or eliminate behaviors and practices that cause or contribute to adverse stormwater impacts.
- Measure changes in the understanding and adoption of behaviors by the target audience, and use that information to evaluate past programs, and to direct future programs.
- Maintain records of public education and outreach activities.
- Summarize activities in the Annual Report.

### 2.2 CURRENT ACTIVITIES

The City currently has activities and programs that meet the Permit requirements. Table 2.1 lists target audiences and behaviors that are currently being addressed by education and outreach programs.

**TABLE 2.1**  
**CURRENT EDUCATION AND OUTREACH PROGRAMS AND ACTIVITIES**

Item	Target Audience	Goal and/or Behaviors Promoted
Car Wash Kits and Charity Car Wash Monitoring	General Public (Fundraising Groups)	Proper discharge of wastewater into the sanitary sewer
Storm Drain Stenciling	General Public	Awareness, prevention of discharge of non-stormwater materials into the stormwater system
Natural Yard Care Neighbors Program	Homeowners	Reduce or eliminate use of herbicides and pesticides, reduce water usage, develop healthy soil
Newspaper inserts and newsletters	General Public, Homeowners	General awareness of stormwater impacts and issues
Elementary schools workshops program	General Public	General awareness of stormwater impacts and issues
Business license issuance/renewal information on best management practices	Businesses, Property Managers	Use of management practices that prevent discharge of pollutants into the stormwater system
Hazardous waste management/reduction	Businesses	Reduce waste creation, and dispose properly of hazardous waste that is created
Private drainage system inspection and technical assistance	Property Managers	Reduce discharge of sediment and uncontrolled high flows into the public stormwater system
Developers Forum	Engineers, Contractors, Developers, Review Staff, Land Use Planners	Increase awareness of technical standards for stormwater site and erosion control plans, Low Impact Development (LID) techniques and tools
Booths and displays at various special and on-going events	General Public	Raise awareness of stormwater impacts and ways that citizens can reduce these impacts

Source control technical assistance	Businesses	Work with businesses to develop practical methods of reducing or eliminating discharge of non-stormwater materials into the stormwater system
Pet Waste Outreach	General Public (Dog Owners & Walkers)	Proper disposal of pet waste
Volunteer Stewardship Projects	General Public	Raise awareness of the importance of stream buffers & ways that citizens can help improve them
Low Impact Development	Residents, Developers	Provide education and incentives for property owners to construct rain gardens on their property, and to include rain gardens in their project designs.

In addition, the City participates with several other local jurisdictions in the Natural Yard Care Neighborhoods Program, and has conducted a survey of Kirkland participants in these workshops to determine their effectiveness at changing yard care behaviors and specifically pesticide use.

Kirkland has also been an active participant in the STORM (Stormwater Outreach for Regional Municipalities) Group to help identify appropriate program evaluation techniques.

The City tracks education and outreach efforts, and informally evaluates costs vs. benefits.

## 2.3 PLANNED ACTIVITIES

The end of the Permit term was extended from February 2012 to August 2013 during the 2011 state legislative session in order to provide fiscal relief to municipalities during the current economic downturn. Municipalities are required to continue full implementation of current Permit requirements in 2012.

Activities planned for continued compliance are shown in Table 2.2.

**TABLE 2.2**  
**EDUCATION AND OUTREACH WORK PLAN FOR 2012**

Item ID	Item Title	Additional Departments Involved	Schedule Notes
EDUC-1	Continue to refine and implement public education outreach activities and programs	none	On-going
EDUC-2	Summarize annual activities for "Public Education and Outreach" portion of Annual report; update SWMP as needed	none	The SWMP and Annual Compliance Report submittal is due on or before March 31 of each year

## 3. PUBLIC INVOLVEMENT AND PARTICIPATION

### 3.1 PERMIT REQUIREMENTS

The Permit requires the City to :

- Create opportunities for public involvement through advisory councils, watershed committees, participation in developing rate-structures, stewardship programs and environmental activities of other similar activities. At a minimum, the public must be able to participate in the decision-making processes involving the development, implementation and update of the SWMP.
- Make the SWMP and Annual Compliance Report available to the public, including posting on the City's website.
- Summarize activities for the Annual Compliance Report.

### 3.2 CURRENT ACTIVITIES

The City currently has activities and programs that meet the Permit requirements. Such activities include:

- Posting of the draft SWMP on the City's website along with an invitation to the public to submit comments on the document. The public was also invited to comment on the City's overall Surface Water Management Program (which encompasses the SWMP) through the 2013-2014 budget process.
- The City plans to post the final SWMP and Annual Compliance Report on the City website.

### 3.3 PLANNED ACTIVITIES

The end of the Permit term was extended from February 2012 to August 2013 during the 2011 state legislative session in order to provide fiscal relief to municipalities during the current economic downturn. Municipalities are required to continue full implementation of current Permit requirements in 2012.

Activities planned for continued compliance are shown in the Table 3.1.

**TABLE 3.1  
PUBLIC INVOLVEMENT WORK PLAN FOR 2012**

Item ID	Item Title	Additional Departments Involved	Schedule Notes
PUB-1	Conduct public involvement process for 2012 SWMP	City Manager's Office	To be complete by March 31, 2012
PUB-2	Post SWMP and Annual Report on City website	Information Technology	To be complete by March 31, 2012
PUB-3	Refine public involvement process for overall stormwater management program	City Manager's Office	On-going
PUB-4	Summarize annual activities for "Public Education and Outreach" portion of Annual Compliance Report; update SWMP as needed	none	The SWMP and Annual Compliance Report submittal is due on or before March 31st of each year

## 4. ILLICIT DISCHARGE DETECTION AND ELIMINATION

### 4.1 PERMIT REQUIREMENTS

The Permit (Section S5C.3) requires that the City:

- Develop an ongoing program to detect and remove illicit connections, discharges, and improper disposal including spills into the municipal stormwater system.
- Develop a municipal storm sewer map that includes attributes of stormwater system outfalls and notes receiving waters.
- Develop and implement an ordinance to prohibit non-stormwater discharges and dumping into the stormwater system.
- Publicly list and publicize a hotline or other local telephone number for public reporting of spills and other illicit discharges. Track reports of discharges and actions taken to address the reported problem.
- Provide training for municipal field staff on the identification and reporting of illicit discharges into the stormwater system.
- Conduct process to identify and prioritize areas likely to have illicit discharges. Such a process could include evaluating land uses and associated business/industrial areas, noting areas where complaints have been registered in the past, and identifying areas where large quantities of materials are stored that could result in spills.
- Conduct visual inspection of at least three high-priority water bodies by February 17, 2011, and then conduct visual inspection of at least one high-priority water body each year thereafter.
- Adopt and implement procedures for program evaluation and assessment.
- Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.
- Summarize activities for the Annual Compliance Report.

### 4.2 CURRENT ACTIVITIES

The City currently conducts activities that meet the Permit requirements. Current illicit discharge detection and elimination (IDDE) activities that are part of Permit compliance include:

- Maps and an associated GIS database have been created for the municipal separate stormwater system. Mapping of the private stormwater system is underway. Standard procedures are in place for maintaining the GIS database to document new connections, changes/alterations to existing system, and changes based on field verification. Drainage areas and land use have been identified for outfalls 24" or greater in size. Maps are available to Ecology and to co-permittees and secondary permittees upon request in electronic format.
- Kirkland Municipal Code Chapter 15.52 prohibits illicit discharges, and provides for progressive enforcement actions and penalties. Code was updated in 2009 to meet Permit requirements.
- The city has taken steps to identify and eliminate illicit discharges including the following:
  - Completed the study *Stormwater Pollutant Hot Spots Assessment for the City of Kirkland* (Parametrix, January, 2008) that identifies potential pollutant sources based on land use, traffic volumes and other data and makes recommendations for addressing potential hot spots.
  - Field assessment and screening of outfalls was completed for three high-priority water bodies by 2/15/2011, and was completed for 1 additional high-priority water body in 2011 (to meet the 2/15/2012 deadline for this activity).
  - Water quality complaints and reports of spills or dumping are investigated on average within 7 days of receipt and are resolved by referring the call to the appropriate party and/or by tracing pollutant sources and working with the responsible party or property owner to remove the source of the discharge.
  - A phone number 425-587-3800 (the public works front counter) is publicly listed for public reporting of spills and other illicit discharges, and is publicized as a reporting hotline. Records are kept of calls received, and actions taken as a result of these calls.

- The City has programs to educate businesses, and the general public about the hazards associated with improper disposal of waste through the King County Local Hazardous Waste Management Program, source control visits to businesses by City staff, and general awareness campaigns. Public feedback is solicited and compiled each year.
- Source control visits to businesses are on-going.

### 4.3 PLANNED ACTIVITIES

The end of the Permit term was extended from February 2012 to August 2013 during the 2011 state legislative session in order to provide fiscal relief to municipalities during the current economic downturn. Municipalities are required to continue full implementation of current Permit requirements in 2012.

Activities planned for continued compliance are shown in Table 4.1.

**TABLE 4.1  
ILLICIT DISCHARGE DETECTION AND ELIMINATION WORK PLAN FOR 2012**

Item ID	Item Title	Additional Departments Involved	Schedule Notes
IDDE-1	Continue to implement and refine the IDDE program	Police, Fire/Building, City Manager's Office	On-going
IDDE-2	Conduct field assessment of one high-priority water body (outfall screening)	none	To be completed each year
IDDE-3	Summarize annual activities for "Illicit Discharge Detection and Elimination" portion of Annual Compliance Report; update SWMP as needed	none	The SWMP and Annual Compliance Report submittal is due on or before March 31st of each year

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

### 5.1 PERMIT REQUIREMENTS

The Permit requires that Kirkland develop, implement and enforce a program to reduce pollutants in stormwater runoff from new development, redevelopment, and construction site activities. This program must include:

- Adopt an ordinance that addresses runoff from new development, redevelopment and construction sites.
- Adopt minimum stormwater design standards that are equivalent to the minimum technical requirements in Appendix 1 of the permit (i.e 2005 Ecology Stormwater Management Manual for Western Washington, equivalent Phase I Manual or one of the Manual options with a Kirkland-specific basin –planning overlay).
- Implement a program (permitting process) to review plans, inspect sites during construction, and to take enforcement action against those failing to follow approved guidelines or to provide facilities as required during plan review.
- Adopt codes and standards and develop practices to allow for non-structural preventative actions and source reduction practices such as Low Impact Development Techniques (LID) that use amended or native soils and vegetation to minimize runoff and remove pollutants from stormwater.
- Adopt an ordinance, maintenance standards, inspection procedures, and enforcement provisions to verify long-term operation and maintenance of permanent stormwater control facilities constructed after the effective date of the Permit.
- Provide for training staff on new/revised regulations, standards, processes and procedures.
- Provide training and outreach to the public including engineers and developers on the new codes, processes and procedures.
- Develop a process for centralized recordkeeping of activities associated with regulation of new development, redevelopment, and construction sites as required in the Permit.
- Summarize activities for the Annual Report.

### 5.2 CURRENT ACTIVITIES

- Kirkland currently has a program that meets Permit requirements. Current activities associated with controlling runoff from new development, redevelopment, and construction sites associated with Permit compliance include:
- The Kirkland Municipal Code Chapter 15.52 was amended in 2009 to meet Permit requirements. Effective January 1, 2010, Kirkland adopted the 2009 King County Surface Water Design Manual, which has been deemed equivalent to the 2005 Ecology Stormwater Manual. The 2009 King County Surface Water Design Manual allows for use of LID practices and facilities
- The City implements a program to review plans, inspect sites during construction, and to take enforcement action against those failing to follow approved guidelines or to provide facilities as required during plan review.
- The City maintains records of review, inspection, and enforcement actions by staff.
- Kirkland makes copies of the Notice of Intent for Construction Activity and Notice of Intent for Industrial Activity available to the applicants for development permits.
- Staff continue to attend trainings on erosion control, LID techniques, and stormwater design models, standards and practices.
- Outreach to the development community and the public is on-going to insure that they are adequately aware of both Kirkland requirements and LID requirements/opportunities.
- The City inspects post-construction stormwater facilities to meet Permit requirements.
- Program is continuously being reviewed and refined to ensure consistent application of regulations and to create appropriate documentation.
- The City developed a summary of LID barriers and a report on LID practices and submitted these documents with the 2010 Annual Compliance Report.

### 5.3 PLANNED ACTIVITIES

The end of the Permit term was extended from February 2012 to August 2013 during the 2011 state legislative session in order to provide fiscal relief to municipalities during the current economic downturn. Municipalities are required to continue full implementation of current Permit requirements in 2012.

Activities planned for continued compliance are shown in Table 5.1.

**TABLE 5.1**  
**CONTROLLING RUNOFF FROM NEW DEVELOPMENT, REDEVELOPMENT AND**  
**CONSTRUCTION SITES WORK PLAN FOR 2012**

Item ID	Item Title	Additional Departments Involved	Schedule Notes
CTRL-1	Continue to refine and implement program for Controlling Runoff from New Development, Redevelopment and Construction Sites	none	On-going
CTRL-2	Summarize annual activities for "Controlling Runoff from New Development, Redevelopment and Construction Sites" portion of Annual Compliance Report; update SWMP as needed	none	The SWMP and Annual Compliance Report submittal is due on or before March 31st of each year

## 6. POLLUTION PREVENTION AND OPERATION AND MAINTENANCE FOR MUNICIPAL OPERATIONS

### 6.1 PERMIT REQUIREMENTS

The Permit (Section 55C.5) requires the City to:

- Develop and implement a municipal operations and maintenance program that has the ultimate goal of preventing or reducing pollutant runoff from municipal operations.
- Adopt maintenance standards that are as protective as those noted in the *2005 Stormwater Management Manual for Western Washington*.
- Perform inspection of municipally owned and operated water quality treatment and flow control facilities and catch-basins at frequency required in the Permit.
- Establish and implement practices to reduce stormwater impacts associated with maintenance operations for streets, parking lots, roads or highways owned or maintained by the City.
- Establish and implement policies to reduce pollutants in runoff from all lands owned or maintained by the City.
- Develop and provide training to assist staff in implementing practices and policies to reduce pollutants in runoff from maintenance operations.
- Develop and implement a Stormwater Pollution Prevention Plan (SWPP) for all heavy equipment maintenance or storage yards, and material storage yards, and material storage facilities owned or operated by the City.

### 6.2 CURRENT ACTIVITIES

Kirkland currently has programs that meet Permit requirements including the following:

- The City Operations and Maintenance (O&M) Program takes steps to minimize pollutants in runoff from City activities as noted in the *ESA Regional Road Maintenance Program Guidelines*, which are being used though they have not been formally adopted.
- The 2009 King County Surface Water Design Manual was adopted in 2009, and includes maintenance standards for stormwater facilities.
- Water quality treatment and flow control facilities are inspected, and are cleaned and repaired to meet Permit requirements.
- Catch-basins are inspected and cleaned at a rate that will meet Permit requirements.
- O&M staff have attended training associated with pollutant reduction.
- A Stormwater Pollution Prevention Plan (SWPPP) has been developed and implemented for City Maintenance Facilities that qualify as "heavy equipment maintenance or storage yards, and materials storage facilities."
- The Parks Department and Public Works Departments use Integrated Pest Management and other techniques to minimize pollutant discharge from landscaped areas on City properties.
- The City has a list of all publicly-owned properties for use in evaluating potential for and reducing pollutant runoff.
- Through the Developer's Forum and associated listserv, Kirkland provides information and updates on proposed changes to design requirements, and discussion and information concerning Low Impact Development techniques.

### 6.3 PLANNED ACTIVITIES

The end of the Permit term was extended from February 2012 to August 2013 during the 2011 state legislative session in order to provide fiscal relief to municipalities during the current economic downturn. Municipalities are required to continue full implementation of current Permit requirements in 2012.

Activities planned for continued compliance are shown in Table 6.1.

**TABLE 6.1**  
**POLLUTION PREVENTION AND OPERATION AND MAINTENANCE FOR MUNICIPAL OPERATIONS WORK PLAN FOR 2012**

Item ID	Item Title	Additional Departments Involved	Schedule Notes
MUNI-1	Continue to refine and implement Pollution Prevention and Operation and Maintenance activities and programs	none	On-going
MUNI-2	Summarize annual activities for "Pollution Prevention and Operation and Maintenance for Municipal Operations" portion of Annual report; update SWMP as needed		The SWMP and Annual Compliance Report submittal is due by March 31st of each year

## 7. MONITORING

### 7.1 PERMIT REQUIREMENTS

The Permit (Section S8) requires jurisdictions to prepare for future comprehensive long-term monitoring of both stormwater and of Stormwater Management Program (SWMP) Effectiveness. Stormwater monitoring is intended to characterize stormwater runoff quantity and quality at a limited number of locations in a manner that allows analysis of loadings and changes in conditions over time and generalization across the permittees' jurisdictions. SWMP effectiveness monitoring is intended to improve stormwater management efforts by evaluating issues that significantly affect the success of, or confidence in, stormwater controls. Monitoring is not technically part of the SWMP, but is required by the Permit. Specifically, Kirkland must prepare for monitoring by doing the following:

- Identify two outfalls (representing commercial and high-density residential land uses) where permanent stormwater sampling stations could be established.
  - Document why these stormwater sampling sites were selected; possible site constraints for installation of an access to monitoring equipment; a brief description of the contributing drainage basin including size in acreage, dominant land use, and other contributing land uses; any water quality concerns in the receiving water of each selected outfall or conveyance.
- Identify two suitable questions concerning SWMP effectiveness and select sites where monitoring to answer these questions will be conducted. The questions shall be designed to answer 1) how effective is a targeted action or narrow suite of actions? and 2) Is the SWMP achieving a targeted environmental outcome? Develop a monitoring plan for each question.

Kirkland is required to provide information in the Annual Report concerning the following:

- Any stormwater monitoring or studies conducted by the City during the reporting period.
- An assessment of the appropriateness of the best management practices identified by the City for components of the Stormwater Management Program and any changes that are made or are anticipated to be made to the practices that were previously selected to implement the Program and why those changes are desirable.

### 7.2 CURRENT ACTIVITIES

Kirkland currently has activities and programs that meet the Permit requirements. The current compliance activities associated with the above include:

- The City participates in regional and state monitoring forums to develop feasible and effective future monitoring requirements as an alternative to those proposed in the current Permit.
- Identified two outfalls (representing commercial and high-density residential land uses) where permanent stormwater sampling stations could be established.
- Identified two questions regarding SWMP effectiveness and site where monitoring can be conducted and develop a monitoring plans for the questions.
- A report detailing why the two stormwater sampling outfalls were selected; possible site constraints for installation of an access to monitoring equipment; a brief description of the contributing drainage basin including size in acreage, dominant land use, and other contributing land uses; any water quality concerns in the receiving water of each selected outfall or conveyance was submitted along with the 2011 Annual Compliance Report.
- A report detailing the identified SWMP effectiveness questions and where monitoring can be conducted was submitted along with the 2011 Annual Compliance Report.

### 7.3 PLANNED ACTIVITIES

The end of the Permit term was extended from February 2012 to August 2013 during the 2011 state legislative session in order to provide fiscal relief to municipalities during the current economic downturn. Municipalities are required to continue full implementation of current Permit requirements in 2012.

Activities planned for continued compliance are shown in Table 7.1.

**TABLE 7.1  
MONITORING WORK PLAN FOR 2012**

Item ID	Item Title	Additional Departments Involved	Schedule Notes
MNTR-1	Continue to implement and refine Monitoring activities and programs	none	On-going
MNTR-2	Summarize annual activities for "Monitoring" portion of Annual Compliance Report; update SWMP as needed	none	The SWMP and Annual Compliance Report submittal is due on or before March 31st of each year

# Appendix A

## Public Comment:

**From:** [JanNevler@aol.com](mailto:JanNevler@aol.com) [<mailto:JanNevler@aol.com>]

**Sent:** Friday, March 23, 2012 12:54 PM

**To:** Jenny Gaus

**Subject:** Re: stormwater plan comment

great information ( and encouraging!)

Thanks!

In a message dated 3/23/2012 12:52:49 P.M. Pacific Daylight Time, [JGaus@kirklandwa.gov](mailto:JGaus@kirklandwa.gov) writes:

Hello Ms. Nevler –

Thanks for writing with a comment on Kirkland’s Stormwater Management Program (SWMP). The City is working in many ways on low impact development, but this is not reflected in the SWMP because this is a regulatory compliance document that shows how the City will meet specific requirements in the Western Washington Phase II Municipal Stormwater Permit (The NPDES Permit). Currently, there only a few elements of the NPDES Permit that pertain to low impact development – I would be happy to discuss those specific provisions with you, but my guess is that you are more interested City plans and actions with regards to LID than in specific regulatory info. Below is a summary of LID current LID happenings in the city.

[Rain Garden Workshop](#): May 16<sup>th</sup> Stewardship Partners will be holding a community workshop on building residential rain gardens. We will be surveying workshop participants regarding their interest in constructing a rain garden on their property or in their neighborhood, and discussing what type of city assistance would help with that effort. Please see this link for further information: [Rain Garden Workshop](#)

[Encouraging LID on private property](#): Surface Water Staff are in the process of developing a program to encourage and support existing residences to install rain gardens in their yards. We are targeting the Juanita watershed because of recent grant work that has been done there, which documents the damage that high flows have done to this urban creek. We would love to hear your ideas and interest in this type of program – please contact Betsy Adams our education and outreach specialist, at (425) 587-3858 to discuss your ideas and interest in this program.

[Development requirements](#) –In January of 2010, Kirkland adopted the 2009 King County Surface Water Design manual and a Kirkland addendum – these regulations require that a minimum of 10% of each project be directed to an LID facility, and provides flow control credits that encourage projects to use LID facilities to the extent possible.

[Green Codes](#) – On April 3<sup>rd</sup>, the City Council will be considering a package of zoning and municipal code amendments that provide incentives for a range of sustainable building practices. In particular Council will consider adopting a new “LID Chapter” in the Zoning Code which will provide developers with density bonuses and other incentives if they use LID for at least 50% of the impervious surfaces on the site. Here is a link to the Council package from the March 20<sup>th</sup> Council meeting where the Green Codes were also discussed: [Green Codes Council Packet 3-20-12](#)

[LID on public property](#) – LID facilities are being installed in parks as they add parking lots and other amenities. Juanita Beach Park and Carillon Woods are examples of this. LID is also being incorporated into city transportation projects – a recent sidewalk near Peter Kirk Elementary was constructed of permeable pavement, and rain gardens have been constructed on NE 73<sup>rd</sup> Street near 132<sup>nd</sup> Ave NE in South Rose Hill. You ask a good question about using park spaces and road right of ways for further water quality treatment – see below for info on this.

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## Public Comment:

[Surface Water Master Plan Update](#) – The Surface Water Master Plan sets the priorities for the next 5 years of utility operations. The Surface Water Utility has the goals of flood reduction, water quality improvement, and aquatic habitat improvement. The plan update will include direction for how to move forward with providing water quality treatment for city streets and other areas that are currently largely untreated – putting LID facilities in road right of ways would be one way of doing that. Please let me know if you would like to be contacted with updates about the Surface Water Master Plan.

For further information on LID in Kirkland, please see our LID tour brochure at this link: [Kirkland LID Tour](#) or visit the city website and type “low impact development” in the search box.

Thanks for your interest in Kirkland’s water resources.

Regards  
Jenny

Jenny Gaus  
[jgaus@kirklandwa.gov](mailto:jgaus@kirklandwa.gov)  
(425) 587-3850

**From:** [JanNevler@aol.com](mailto:JanNevler@aol.com) [<mailto:JanNevler@aol.com>]  
**Sent:** Wednesday, March 21, 2012 4:14 PM  
**To:** Jenny Gaus  
**Subject:** stormwater plan comment

I did not see any provisions in the stormwater plan document to suggest mitigation techniques such as “rain gardens” which I understand that the City or Seattle has implemented in partnership with neighborhood groups. Has there been any effort to develop a program that would encourage private property owners to consider implementing such a mitigation mechanism? And perhaps more importantly, has there been any consideration to construct more run-off cachement systems in our many parks that are nearly the last buffer zones between pavement and lake? Couldn’t there be many small collection points to aid in the filtering of run-off installed in median strips and the many small parks?

My acquaintance with such run-off mitigation techniques is sketchy at best, but the substance of the plan seems to be more oriented to talking about the problem (education) rather than more immediate action plans, even if starting out on a small scale. Sometimes the most effective education is achieved through demonstration.

Thanks very much,

Janis Nevler  
(425) 822-7778

---

## Public Comment:

**From:** [richrankin1@comcast.net](mailto:richrankin1@comcast.net) [<mailto:richrankin1@comcast.net>]  
**Sent:** Wednesday, March 21, 2012 3:41 PM  
**To:** Jenny Gaus  
**Subject:** Re: Stormwater Management Program

Thank you. I was hoping to get an answer like this.

**From:** "Jenny Gaus" <[JGaus@kirklandwa.gov](mailto:JGaus@kirklandwa.gov)>  
**To:** "Rich Rankin" <[richrankin1@comcast.net](mailto:richrankin1@comcast.net)>  
**Sent:** Tuesday, March 20, 2012 8:09:09 PM  
**Subject:** RE: Stormwater Management Program  
Hello Rich –

Thanks for submitting a comment on the 2012 Stormwater Management Program.

The City currently spends approximately \$1.5 million per year on activities required for NPDES compliance (i.e. required activities). Many of the activities required for compliance are things that the city had already chosen to do to protect public health and safety. For example, city crews clean catch-basins in public streets to prevent flooding as well as to protect water quality. The NPDES program is a significant cost, but preventing pollution is far less expensive than fixing problems after the fact. A large portion of the overall surface water management budget is spent fixing problems caused by uncontrolled runoff from past practices. For further information on Kirkland's surface water programs, please see this link: [Kirkland Surface Water Programs](#)

As for the Stormwater Management Program document, it was produced in-house and this year took a total of approximately 8 staff hours. The template for this document was produced 5 years ago based on review of templates used by other jurisdictions. The blank pages are included so that people wishing to print the document can use double-sided printing and have the formatting turn out correctly.

Please feel free to write with further questions or comments.

Regards

Jenny

Jenny Gaus  
[jgaus@kirklandwa.gov](mailto:jgaus@kirklandwa.gov)  
(425) 587-3850

**From:** Rich Rankin [<mailto:richrankin1@comcast.net>]  
**Sent:** Saturday, March 17, 2012 10:16 AM  
**To:** Jenny Gaus  
**Subject:** Stormwater Management Program

This looks like a mandatory requirement to comply with NPDES. It should be done in the least costly, least impactful, and most expedient way possible. I wonder how much the City has spent already to prepare this pretty document complete with blank pages. It would be useful to know how much it will cost the City to implement this complete with a breakdown of how much is discretionary and how much is mandated. Sorta seems like cost is no issue to NPDES or the City.

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## Public Comment:

-----Original Message-----

From: Mike [<mailto:miken@kirklandbuildersgroup.com>]

Sent: Friday, March 23, 2012 2:53 PM

To: Rob Jammerman

Cc: Jenny Gaus; 'Toby Nixon'

Subject: RE: Kirkland Neighborhood News: Public Invited to Comment on City's Stormwater Management Program

I know Toby has the same questions. Let me boil it down:

Has anyone measured the results?

You have a 'bio' swale right out your window at City Hall, that takes up about a half of a million dollars worth of commercial real estate, has anyone measured the bacteria cleansing the Jenny is talking about on THAT bioswale?

Is that worth losing \$500,000.00 of tax payer money for? Could that money be spent on a community system far more effectively elsewhere?

AND, never lose site of the FACT that the Army Corp of Engineers declared Lake Washington a dead lake in 1852!

For those of us who had to take Washington State History to graduate from High School, would remember!

Mike Nykreim

101 10th Ave.

Kirkland, Wa, 98033

Cell: 425-466-2611

Fax: 425-828-8951

Email: [miken@kirklandbuildersgroup.com](mailto:miken@kirklandbuildersgroup.com)

-----Original Message-----

From: Rob Jammerman [<mailto:RJammerman@kirklandwa.gov>]

Sent: Friday, March 23, 2012 2:26 PM

To: 'Mike'

Cc: Jenny Gaus

Subject: FW: Kirkland Neighborhood News: Public Invited to Comment on City's Stormwater Management Program

Hello Mike -

Hope you are enjoying the spring-like weather. Thanks for comments and questions about the Stormwater Management Program that you sent to Jenny Gaus. Your follow-up questions are in areas that Jenny can't really respond to in reference to the NDPES permit compliance. Although your questions are good, they are more appropriate for elected officials that have provided that direction to us to implement this plan. If you want to talk more in detail about these issues I'd be happy to discuss them with you; you can call me at 425-587-3845.

---

## Public Comment:

Thanks  
Rob

From: Mike [<mailto:miken@kirklandbuildersgroup.com>]  
Sent: Tuesday, March 20, 2012 9:34 PM  
To: Jenny Gaus  
Subject: RE: Kirkland Neighborhood News: Public Invited to Comment on City's Stormwater Management Program

Below...

Mike Nykreim  
101 10th Ave.  
Kirkland, Wa, 98033

Cell: 425-466-2611  
Fax: 425-828-8951  
Email:  
[miken@kirklandbuildersgroup.com](mailto:miken@kirklandbuildersgroup.com)<<mailto:miken@kirklandbuildersgroup.com>>

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From: Jenny Gaus [<mailto:JGaus@kirklandwa.gov>]  
Sent: Tuesday, March 20, 2012 7:56 PM  
To: 'Mike'  
Subject: RE: Kirkland Neighborhood News: Public Invited to Comment on City's Stormwater Management Program

Hi Mike -

The NPDES program became effective in 2007, and requirements in the Permit were phased in over a 5-year period. Again, many of the programs and activities required were already being done by the city to protect public health and safety. The Permit contains descriptive, rather than prescriptive performance measures. In other words, if the city is taking certain actions such as adopting regulations, conducting public education, or cleaning the public stormwater system, it is in compliance. There are not currently numeric standards such as turbidity for the municipal stormwater permits.

2007 marked the beginning of an 80% drop off in new construction. New construction contributed to 25% of our state's WSST revenues. I just submitted the first permit in 4 years. There were 250 pages of documentation required to permit a single family residence. That is one house on one lot.

The picture is my engineer holding the states 'end of 5 year' storm water manual 'update'. The manual is over 700 pages. We now have to hire an engineer just to understand what to do with water that hits a roof. This now impacts a 12k cost on top of the state's new Energy Code Regulations that also add over 20k of cost. BTW that cost is proven to save less then \$100/year of energy.

And on it goes.

You talk about cost to businesses, and that's an important consideration.

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## Public Comment:

In order for business to thrive, there need to be streets that don't flood, a lake where people can gather to swim, fish and spend money, and we need to get out from under Endangered Species Act listings of salmon that threaten to shut down development entirely. Kirkland depends on businesses not just surviving, but thriving. This takes investment in surface water management.

I couldn't swim in Lake Washington in 1962. How long ago was that? What 'storm water manual' cleaned that up? By the way, what salmon runs did not happen in 1962 when the lake was at its max of pollution? Can you answer any of those questions? Since the 'new' City storm utility went into effect in 1996 what percent increase has there been in impervious area in the City?

Not more than 2%. Is a 2% increase in storm run off worth a utility that soon will eclipse your sanitary sewer bill?

How are people going to 'spend money' when taxes and fees skyrocket and wages continue to fall for all people employed outside of the public sector?

My property taxes have doubled in the last 8 years and my homes value is below where it was in 2001. Where are these new 'investments' going to come from? The state is building a \$700,000,000.00 bike lane across Lake Washington, and there is a need for more 'investments' to this state?

The ESA listing only happened because we had a King County Executive not take the Listing to the Courts. Note USFWL web site and note the returning salmon population. It is going UP not down, despite ocean overfishing.

In asking about turbidity, you are asking about performance measures for surface water programs. The overall report of city performance measures can be viewed here: 2010 Kirkland Performance Measures<<http://www.kirklandwa.gov/Assets/CMO/CMO+PDFs/2010+Performance+Measure+Report.pdf>>. We have investigated a variety of surface water

measures over the years. A good performance measure gives reliable data for little cost, and truly measures the impact of individual actions. This is hard to find for surface water. What we have landed on in terms of quantitative data is the benthic index of biotic integrity (BIBI) - this is a measure of the number of species and number of individuals in each species of invertebrates that live in streams. It is inexpensive to measure BIBI and it gives an overall impression of how our streams are doing in terms of flow and water quality. This measure still integrates actions of all of us, not just those actions that can be attributed to the city, but at least it's somewhat quantitative. This measure has increased slightly in the last few years. The other types of performance measures that we use measure the efficiency of the work that we do - how many catch-basins are cleaned in a given amount of time, amount of time per inspection or per development review, etc.

Question: has there ever been any test of any 'storm water swale' of water at the inflow and outflow to see the difference? City Hall has one. Has it ever been tested? If you don't know this answer within 5 minutes of this question, then how can anyone qualify what you have stated?

Lake Washington is cleaner than at any time since the last Ice Age. Read Krunkeberg. Fact is, it is too clean. Only the State of Washington has DOE criteria to this extreme.

The amount collected from businesses and multi-family commercial properties is about 55% of the overall revenue collected by the utility. Rates are based on the amount of impervious surface on a property, so commercial and multi-family properties tend to pay more because they have more impervious surface. For further information on surface water rates, please see this

link: Kirkland Surface Water

Rates<[http://www.kirklandwa.gov/depart/Public\\_Works/Storm\\_\\_\\_Surface\\_Water/About\\_Surface\\_Water/Surface\\_Water\\_UTILITY.htm](http://www.kirklandwa.gov/depart/Public_Works/Storm___Surface_Water/About_Surface_Water/Surface_Water_UTILITY.htm)>

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## Public Comment:

And those cost must be passed on to the residents, or the businesses have to cut their wages to pay these taxes. Guess what? The residents lose again.

The NPDES program has required that the City increase the frequency of inspection and cleaning of the public system, that we inspect private facilities for maintenance, and that we increase the amount and nature of development review among other activities. These things have increased costs, but also have improved water quality, as shown by the amount of material removed from the system, number of people that are aware of the need to prevent pollution, and problems that are prevented through construction inspection and development review.

Storm water mitigation, during the course of construction is over 30% of all new highway construction cost, according to the City of Issaquah Public Works Road engineer staff. Storm water is now over 800% greater then sewer cost in new construction.

Please let me know if you have further questions.

Yes: show me the measurable results from 1997 to today.

We must get a serious handle on these cost. Boeing's new contract to build the 737 Extended is only to the existing production capacity. Boeing will now no longer build additional facilities in this state. New work will go to North Carolina or overseas. When you are successful in stopping all new construction, which it nearly is, Jenny, will you look forward to moving to North Carolina?

Regards

Jenny

Jenny Gaus

[jgaus@kirklandwa.gov](mailto:jgaus@kirklandwa.gov)<<mailto:jgaus@kirklandwa.gov>>

(425) 587-3850

From: Mike [<mailto:miken@kirklandbuildersgroup.com>]

Sent: Thursday, March 15, 2012 4:21 PM

To: Jenny Gaus

Subject: RE: Kirkland Neighborhood News: Public Invited to Comment on City's Stormwater Management Program

What is the total collected from businesses. Because businesses either have to pass the cost back to the taxpayer, or go out of business. Either way, the tax payer pays. What is the total cost for all aspects to meet this new standard, vs what we have paid in years in the past.

As an indicator of value- what is the turbidity standard from Lake Washington in 1998 when our storm water fees, City wide were only \$450k vs the turbidity standard today. What was that standard, as kept by the Army Corp of Engineers over the years?

Mike Nykreim

101 10th Ave.

Kirkland, Wa, 98033

Cell: 425-466-2611

Fax: 425-828-8951

Email:

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## Public Comment:

[miken@kirklandbuildersgroup.com](mailto:miken@kirklandbuildersgroup.com)<<mailto:miken@kirklandbuildersgroup.com>>

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From: Jenny Gaus [<mailto:JGaus@kirklandwa.gov>]

Sent: Thursday, March 15, 2012 4:05 PM

To: 'Mike'

Subject: RE: Kirkland Neighborhood News: Public Invited to Comment on City's Stormwater Management Program

Hi Mike -

A very rough estimate is that NPDES costs are \$1.5 million per year. There is however, significant overlap between work that the city is required to do under the NPDES permit, and work that it would choose to do anyway for public health and safety. For example, city crews clean catch basins to prevent flooding as well as to protect water quality; City staff respond to instances of spills and dumping to protect swimming beaches that attract tourists and support concessions; pollution prevention measures are used when city crews are doing maintenance and repairs to reduce costs of cleaning up after a project. There is some State funding that helps to defray the costs of NPDES compliance.

Surface water work, including NPDES compliance, is funded through the Surface Water Utility. Single-family properties pay \$187.20 per year, and commercial/multi-family properties are charged based on the amount of impervious service on the property (multiples of the single-family rate).

If you would like further information on the Surface Water Utility, please see:

[http://www.kirklandwa.gov/depart/Public\\_Works/Storm\\_Surface\\_Water.htm](http://www.kirklandwa.gov/depart/Public_Works/Storm_Surface_Water.htm)

Regards

Jenny Gaus

Jenny Gaus

[jgaus@kirklandwa.gov](mailto:jgaus@kirklandwa.gov)<<mailto:jgaus@kirklandwa.gov>>

(425) 587-3850

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From: Mike [<mailto:miken@kirklandbuildersgroup.com>]

Sent: Thursday, March 15, 2012 2:23 PM

To: Jenny Gaus

Subject: RE: Kirkland Neighborhood News: Public Invited to Comment on City's Stormwater Management Program

What is the cost of this program? What cost impacts has this had on taxpayers and their employees, city wide?

Mike Nykreim

101 10th Ave.

Kirkland, Wa, 98033

Cell: 425-466-2611

Fax: 425-828-8951

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## Public Comment:

Email:

[miken@kirklandbuildersgroup.com](mailto:miken@kirklandbuildersgroup.com)<<mailto:miken@kirklandbuildersgroup.com>>

---

From: Jenny Gaus [<mailto:JGaus@kirklandwa.gov>]

Sent: Thursday, March 15, 2012 2:14 PM

To: 'miken@kirklandbuildersgroup.com'

Subject: FW: Kirkland Neighborhood News: Public Invited to Comment on City's Stormwater Management Program

Hi Mike -

I had our IT department check into this, and it appears that there is some sort of filter on your end that's finding potential fraud. If it helps, here is the direct link to the document.

<http://www.kirklandwa.gov/Assets/Public+Works/Public+Works+PDFs/Surface+Waters/SWMP/Stormwater+Management+Program+2012.pdf>

Regards

Jenny

Jenny Gaus

[jgaus@kirklandwa.gov](mailto:jgaus@kirklandwa.gov)<<mailto:jgaus@kirklandwa.gov>>

(425) 587-3850

From: Kim Frye

Sent: Thursday, March 15, 2012 2:09 PM

To: Jenny Gaus

Subject: RE: Kirkland Neighborhood News: Public Invited to Comment on City's Stormwater Management Program

Hi Jenny -

You don't need to do anything. There is a little tracking piece in the link that this person's ISP picked up as "possible fraud." The fraud tag that's in there is on his end.

If he wants an additional explanation we can put something together, but the short answer is - not fraud, and not from us :)

Thanks!

Kim~

From: Jenny Gaus

Sent: Thursday, March 15, 2012 12:45 PM

To: Kim Frye

Subject: FW: Kirkland Neighborhood News: Public Invited to Comment on City's Stormwater Management

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## Public Comment:

Program

Hi Kim -

Could you please look into this and let me know if I need to do anything.

Thanks

Jenny

Jenny Gaus

[jgaus@kirklandwa.gov](mailto:jgaus@kirklandwa.gov)<<mailto:jgaus@kirklandwa.gov>>

(425) 587-3850

From: Mike [<mailto:miken@kirklandbuildersgroup.com>]

Sent: Thursday, March 15, 2012 12:19 PM

To: Jenny Gaus

Subject: RE: Kirkland Neighborhood News: Public Invited to Comment on City's Stormwater Management Program

There is a fraud warning on your link.....

Mike Nykreim

101 10th Ave.

Kirkland, Wa, 98033

Cell: 425-466-2611

Fax: 425-828-8951

Email:

[miken@kirklandbuildersgroup.com](mailto:miken@kirklandbuildersgroup.com)<<mailto:miken@kirklandbuildersgroup.com>>

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From: Jenny Gaus [<mailto:JGaus@kirklandwa.gov>]

Sent: Thursday, March 15, 2012 12:10 PM

To: 'Mike'

Subject: RE: Kirkland Neighborhood News: Public Invited to Comment on City's Stormwater Management Program

Hi Mike -

Thanks for your comment. The 2012 Stormwater Management Program does not include any changes or additions to Kirkland regulations - it describes how the city will continue to comply with the Phase II Western Washington Stormwater Permit which became effective in February 2007. City surface water development regulations were updated in 2009 to comply with the Permit, but no further changes are planned at this time.

Regards

---

## Public Comment:

Jenny Gaus

Jenny Gaus  
[jgaus@kirklandwa.gov](mailto:jgaus@kirklandwa.gov)<<mailto:jgaus@kirklandwa.gov>>  
(425) 587-3850

From: Mike [<mailto:miken@kirklandbuildersgroup.com>]  
Sent: Thursday, March 15, 2012 11:40 AM  
To: 'City of Kirkland'  
Cc: Jenny Gaus  
Subject: RE: Kirkland Neighborhood News: Public Invited to Comment on City's Stormwater Management Program

I hope this is fraud, because construction industry is dead, and these regulations will make it take forever to recover.

FYI, construction taxes used to cover 25% of the State WSST income. How are public employees going to retire when more regulations keep this economic growth from recovering?

Mike Nykreim  
101 10th Ave.  
Kirkland, Wa, 98033

Cell: 425-466-2611  
Fax: 425-828-8951  
Email:  
[miken@kirklandbuildersgroup.com](mailto:miken@kirklandbuildersgroup.com)<<mailto:miken@kirklandbuildersgroup.com>>

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From: City of Kirkland [<mailto:kirkland@service.govdelivery.com>]  
Sent: Thursday, March 15, 2012 10:45 AM  
To: [miken@kirklandbuildersgroup.com](mailto:miken@kirklandbuildersgroup.com)<<mailto:miken@kirklandbuildersgroup.com>>  
Subject: Kirkland Neighborhood News: Public Invited to Comment on City's Stormwater Management Program

[Image removed by sender.]

Thursday, March 15, 2012

City of Kirkland  
NEWS RELEASE  
123 - Fifth Avenue  
Kirkland, WA 98033

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## Public Comment:

MailFilterGateway has detected a possible fraud attempt from "links.govdelivery.comtrack" claiming to be [www.kirklandwa.gov](http://www.kirklandwa.gov)<<http://links.govdelivery.com:80/track?type=click&enid=ZWFzPTEmbWFpbGluZ2lkPTIwMTIwMzE1LjYxOTI1MDEmbWVzc2FnZWlkPU1EQi1QUkQtQlVMLTIwMTIwMzE1LjYxOTI1MDEmZGF0YWJhc2VpZD0xMDAxJnNlcmllhbD0xNjkxNDI1NSZlbWFpbGlkPW1pa2VuQGtpcmntsYW5kYnVpbGRlcnNncm91cC5jb20mdXNlcmllkPW1pa2VuQGtpcmntsYW5kYnVpbGRlcnNncm91cC5jb20mZmw9JmV4dHJhPU11bHRpdmFyaWF0ZUlKPSYmJg==&&&100&&&http://www.kirklandwa.gov>>

Contact: Jenny Gaus

Department: Public Works

Email: [jgaus@kirklandwa.gov](mailto:jgaus@kirklandwa.gov)<<mailto:jgaus@kirklandwa.gov>>

425-587-3850

March 15, 2012

Public Invited to Comment on Kirkland's Stormwater Management Program Comments due March 26

KIRKLAND, Wash - Kirkland residents are invited to provide comments by March 26 on the 2012 Stormwater Management Program which identifies the City's strategies to engage and educate the public about stormwater management, spill prevention, and dumping into the stormwater system, and requirements for development projects to control and treat runoff. These efforts will improve the quality of water in lakes and streams. The draft document is available online at MailFilterGateway has detected a possible fraud attempt from "links.govdelivery.comtrack" claiming to be [www.kirklandwa.gov](http://www.kirklandwa.gov)<<http://links.govdelivery.com:80/track?type=click&enid=ZWFzPTEmbWFpbGluZ2lkPTIwMTIwMzE1LjYxOTI1MDEmbWVzc2FnZWlkPU1EQi1QUkQtQlVMLTIwMTIwMzE1LjYxOTI1MDEmZGF0YWJhc2VpZD0xMDAxJnNlcmllhbD0xNjkxNDI1NSZlbWFpbGlkPW1pa2VuQGtpcmntsYW5kYnVpbGRlcnNncm91cC5jb20mdXNlcmllkPW1pa2VuQGtpcmntsYW5kYnVpbGRlcnNncm91cC5jb20mZmw9JmV4dHJhPU11bHRpdmFyaWF0ZUlKPSYmJg==&&&101&&&http://www.kirklandwa.gov>>

at Kirkland City Hall reference desk, or by calling (425) 587-3800. Comments can e-mailed to [jgaus@kirklandwa.gov](mailto:jgaus@kirklandwa.gov)<<mailto:jgaus@kirklandwa.gov>>, mailed to the City of Kirkland Public Works Department, 123 Fifth Avenue, Kirkland, WA 98033, or submitted by calling a member of the City's Stormwater Team.

The City's Stormwater Management Program is part of the City's compliance with the National Pollutant Discharge Elimination System (NPDES) municipal stormwater permit that was issued by Washington State Department of Ecology

(Ecology) in 2007. Stormwater has been identified by Ecology as a significant contributor to degraded water quality in Puget Sound. As part of its cleanup strategy for Puget Sound, Ecology has used its NPDES permitting authority to issue stormwater discharge permits to over 100 municipalities in Western Washington. Kirkland is developing a stormwater management program to meet permit requirements.

Stormwater pollution results from everyday activities such as driving, land development, and even yard care. Cleaning up stormwater will involve both reducing the amount of pollution that we put onto the landscape (source control), and removing contaminants from runoff before it reaches local waters (treatment).

For more information about the City's Stormwater Management Program and Surface Water Management

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## Public Comment:

Program, go to MailFilterGateway has detected a possible fraud attempt from “links.govdelivery.comtrack” claiming to be [www.kirklandwa.gov](http://links.govdelivery.com:80/track?type=click&enid=ZWFzPTEmbWFpbGluZ2lkPTIwMTIwMzE1LjYxOTI1MDEmbWVzc2FnZWlkPU1EQi1QUkQtQlVMLTIwMTIwMzE1LjYxOTI1MDEmZGF0YWJhc2VpZD0xMDAxJnNlcmllhbD0xNjlxNDI1NSZlbWFpbGlkPW1pa2VuQGtpcmntsYW5kYnVpbGRlcnNncm91cC5jb20mdXNlcmllkPW1pa2VuQGtpcmntsYW5kYnVpbGRlcnNncm91cC5jb20mZmw9JmV4dHJhPU11bHRpdmFyaWF0ZUlKPSYmJg==&&102&&http://www.kirklandwa.gov)<[http://links.govdelivery.com:80/track?type=click&enid=ZWFzPTEmbWFpbGluZ2lkPTIwMTIwMzE1LjYxOTI1MDEmbWVzc2FnZWlkPU1EQi1QUkQtQlVMLTIwMTIwMzE1LjYxOTI1MDEmZGF0YWJhc2VpZD0xMDAxJnNlcmllhbD0xNjlxNDI1NSZlbWFpbGlkPW1pa2VuQGtpcmntsYW5kYnVpbGRlcnNncm91cC5jb20mdXNlcmllkPW1pa2VuQGtpcmntsYW5kYnVpbGRlcnNncm91cC5jb20mZmw9JmV4dHJhPU11bHRpdmFyaWF0ZUlKPSYmJg==&&103&&http://www.ecy.wa.gov](http://links.govdelivery.com:80/track?type=click&enid=ZWFzPTEmbWFpbGluZ2lkPTIwMTIwMzE1LjYxOTI1MDEmbWVzc2FnZWlkPU1EQi1QUkQtQlVMLTIwMTIwMzE1LjYxOTI1MDEmZGF0YWJhc2VpZD0xMDAxJnNlcmllhbD0xNjlxNDI1NSZlbWFpbGlkPW1pa2VuQGtpcmntsYW5kYnVpbGRlcnNncm91cC5jb20mdXNlcmllkPW1pa2VuQGtpcmntsYW5kYnVpbGRlcnNncm91cC5jb20mZmw9JmV4dHJhPU11bHRpdmFyaWF0ZUlKPSYmJg==&&102&&http://www.kirklandwa.gov)> and search for “surface water” or contact Jenny Gaus, Kirkland Public Works Department at 425-587-3850 or [jgaus@kirklandwa.gov](mailto:jgaus@kirklandwa.gov)<<mailto:jgaus@kirklandwa.gov>>. To learn more about the State Department of Ecology stormwater permit, go to MailFilterGateway has detected a possible fraud attempt from “links.govdelivery.comtrack” claiming to be [www.ecy.wa.gov](http://links.govdelivery.com:80/track?type=click&enid=ZWFzPTEmbWFpbGluZ2lkPTIwMTIwMzE1LjYxOTI1MDEmbWVzc2FnZWlkPU1EQi1QUkQtQlVMLTIwMTIwMzE1LjYxOTI1MDEmZGF0YWJhc2VpZD0xMDAxJnNlcmllhbD0xNjlxNDI1NSZlbWFpbGlkPW1pa2VuQGtpcmntsYW5kYnVpbGRlcnNncm91cC5jb20mdXNlcmllkPW1pa2VuQGtpcmntsYW5kYnVpbGRlcnNncm91cC5jb20mZmw9JmV4dHJhPU11bHRpdmFyaWF0ZUlKPSYmJg==&&103&&http://www.ecy.wa.gov)<<http://links.govdelivery.com:80/track?type=click&enid=ZWFzPTEmbWFpbGluZ2lkPTIwMTIwMzE1LjYxOTI1MDEmbWVzc2FnZWlkPU1EQi1QUkQtQlVMLTIwMTIwMzE1LjYxOTI1MDEmZGF0YWJhc2VpZD0xMDAxJnNlcmllhbD0xNjlxNDI1NSZlbWFpbGlkPW1pa2VuQGtpcmntsYW5kYnVpbGRlcnNncm91cC5jb20mdXNlcmllkPW1pa2VuQGtpcmntsYW5kYnVpbGRlcnNncm91cC5jb20mZmw9JmV4dHJhPU11bHRpdmFyaWF0ZUlKPSYmJg==&&103&&http://www.ecy.wa.gov>> and search “Phase II Western Washington Stormwater Permit.”

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City of Kirkland - Neighborhood Services

123 5th Ave

Kirkland, WA, 98033

(425) 587-3011

e-mail the Neighborhood Services Coordinator at:

[kpage@kirklandwa.gov](mailto:kpage@kirklandwa.gov)<<mailto:kpage@kirklandwa.gov>>

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## Public Comment:

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