



King County

Water and Land Resources Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 600

Seattle, WA 98104-3855

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TTY Relay: 711

March 29, 2013

Rachel McCrea
Municipal Stormwater Specialist
Washington State Department of Ecology
Water Quality Program, Municipal Stormwater Permits
PO Box 47696
Olympia, WA 98504-7696

RE: Annual Report for NPDES Permit WAR04-4501

Dear Ms. McCrea:

King County is committed to its partnership with the Department of Ecology and believes that the stormwater permit is an integral part of regional efforts that will reduce problems due to stormwater runoff and improve water quality in Puget Sound. King County would like to reiterate our commitment to improving local water quality and responsibly managing stormwater in unincorporated King County under the requirements of our National Pollutant Discharge Elimination System (NPDES) Municipal Stormwater Permit.

As a steward of our local environment, King County is undertaking significant investments in new programs that will result in improvements in local water quality. Since the previous permit was enacted in 2007, King County has constantly worked to ensure the implementation of a comprehensive stormwater management program. While this Annual Report presents information on 2012 and 2013, the County's effort has created tangible progress toward protecting the region's natural environment and water quality, including the following accomplishments since 2007:

- Removed more than 40,000 tons of sediment from the King County stormwater conveyance system and cleaned more than 11,000 catch basins.
- Inspected and provided technical assistance to more than 2,700 local businesses to help them understand their important role in protecting water quality.
- Implemented public education programs such as Puget Sound Starts Here, which help change public behaviors related to stormwater, and inform them on how our programs

help improve water quality. For example, County residents are now disposing of nearly four more tons of pet waste every day than they were when the program started in 2008.

- Inspected over 2,000 stormwater outfalls to locate and eliminate illicit connections to the stormwater system, such as sewage/septic pipes, and were pleasantly surprised to not find any through these inspections. However, using cutting-edge scientific methods we traced human-specific bacteria sources to find three illicit connections in White Center, which were corrected by working in partnership with the property owners and local sewer district.
- Responded to more than 2,800 water quality complaints and inquiries, with responses ranging from answering questions to inspections and technical assistance, which resulted in helping citizens and business owners take steps to protect water quality by cleaning up sites or implementing pollution preventing tools or actions.
- Inspected more than 4,000 stormwater conveyance structures to assess condition, resulting in maintenance or repair for almost 620 publicly owned and over 500 privately owned structures. Also prioritized construction of over 40 facility retrofits.

King County is a strong advocate of regional comprehensive stormwater management and believes that the municipal stormwater permits are an essential element for improving the region's environmental health. While the County is appealing on a limited number of conditions in the upcoming permit, we support much of the new permit's content, including the new regional monitoring approach and the appropriate use of Low Impact Development. The County is undertaking significant new investments in a number of programs required by the new permit, including facility inspections, expanded mapping, and pollution source tracing efforts for new total maximum daily load (TMDL) plans required in basins (White/Puyallup, Bear/Evans, Issaquah) around the County.

King County would like to take this opportunity to thank the Department of Ecology for providing many grant-funding opportunities to King County. These resources, and your ongoing support, have helped improve several key programs, including mapping, outreach and education, and illicit connection detection and elimination.

In closing, I would like to commend the hard work of numerous County staff cooperating across department boundaries, as well as the Department of Ecology for its support of King County's stormwater programs. Puget Sound and its rivers, lakes, and streams are a critical part of the quality of life in the region, and King County staff members are working every day to help preserve and restore this valuable natural resource for current and future generations.

Rachel McCrea
March 29, 2013
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Enclosed is King County's 2012 annual report, which outlines the County's efforts to comply with the Phase I NPDES Municipal Stormwater Permit. Included are the annual report spreadsheet and attachments for calendar year 2012 and the stormwater management program document for 2013. Please do not hesitate to call me at 206-296-6587 if you have any questions.

Sincerely,



Mark Isaacson
Division Director

Enclosures

cc: The Honorable Dow Constantine, King County Executive
Josh Baldi, Director, Northwest Regional Office (NWRO), Washington State
Department of Ecology (Ecology)
Kevin Fitzpatrick, Water Quality Section Manager, NWRO, Ecology
Kelly Susewind, Water Quality Program Manager, Headquarters, Ecology
Bill Moore, Program Development Services Section, Headquarters, Ecology
John Starbard, Director, Department of Permitting and Environmental Review
Caroline Whalen, Director, Department of Executive Services
Harold Taniguchi, Director, Department of Transportation
Christie True, Director, Department of Natural Resources and Parks

I. Permittee Information	
Permittee Name King County	Permittee Coverage Number WAR04-051
Contact Name Curt Crawford	Phone Number 206-296-8329
Mailing Address WLRD, DNRP, KSC-NR-0600 201 S Jackson St, Suite 600	
City Seattle	State Zip + 4 WA 98104-3855
Email Address curt.crawford@kingcounty.gov	

II. Regulated Medium or Large MS4 Location		
Jurisdiction King County	Entity Type: Check the box that applies	
	County	City/Town
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Other
		<input type="checkbox"/>
Major Receiving Water(s) Puget Sound, Green/Duwamish, Cedar, White Rivers, Lakes Washington & Sammamish		

III. Relying on another Governmental Entity	
<p>If you are relying on another governmental entity to satisfy one or more of the permit obligations, list the entity and briefly describe the permit obligation(s) they are implementing on your behalf below. <i>Attach a copy of your agreement with the other entity to provide additional detail.</i></p>	
Name of Entity:	Permit Obligation(s):

REMINDER: Save this Excel worksheet under a new name. Did you remember to include your permit coverage number? This can be found on

IV. Certification

All annual reports must be signed and certified by the responsible official(s) of permittee or co-permittees. Please print and sign this page of the reporting form and mail it (with an original signature) to Ecology at the address noted below. An electronic signature will not suffice.

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that Qualified Personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for willful violations.

Name <u>Malika</u>	Title <u>Director, WQTD</u>	Date <u>3.28.13</u>
Name _____	Title _____	Date _____
Name _____	Title _____	Date _____
Name _____	Title _____	Date _____
Name _____	Title _____	Date _____

V. Submittal-- Submit by March 31

If using this Excel version of the annual report form, email one electronic copy, including all identified attachments, to **PH1_AnnRpt@ecy.wa.gov** AND submit two printed, signed copies of the entire annual report PLUS attachments to:

Department of Ecology
Water Quality Program
Municipal Stormwater Permits
P.O. Box 47696
Olympia, WA 98504-7696

REMINDER: Proceed to the **ANNUAL REPORT (Section VI)** tab next.

PLEASE label any information in attachments with corresponding question numbers.
 NOTE: Items that have future compliance dates must still be answered to indicate status.
 PLEASE indicate reporting year and your jurisdiction in Line 1, above.
 PLEASE refer to the INSTRUCTIONS tab for assistance filling out this table.
 PLEASE review your work for completeness and accuracy. Save this worksheet as you go!

Question	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
1	Y			Section VII
S4. Compliance with Standards				
2	Y			Section VII
S5 Stormwater Management Program				
S5.C.1 Legal Authority				
3	Y			
S5.C.2 MS4 Mapping and Documentation				
4	Y			

Question		Y/N/NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
5	A program is in place to map the location of all known connection points between municipal separate storm sewers you own or operate and other municipalities or other public entities. (S5.C.2.b.i)	Y			
6	<p><u>Cities:</u> All storm sewer outfalls with a 24 inch nominal diameter or larger, or an equivalent cross-sectional area for non-pipe systems, and including tributary conveyances (type, material and size where known), associated drainage areas and land use throughout the city, are mapped. (S5.C.2.b.ii)</p> <p><u>Counties:</u> All storm sewer outfalls with a 24 inch nominal diameter or larger, or an equivalent cross-sectional area for non-pipe systems, and including tributary conveyances (type, material and size where known), associated drainage areas and land use in urban/higher density rural sub-basins, are mapped. (S5.C.2.b.ii)</p>	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
7	A program is in place to maintain a map of all connections to the MS4 that have been authorized or allowed after February 16, 2007. (S5.C.2.b.iii)	Y			

Question	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
<p>8 <u>Cities:</u> All existing, known connections over 8 inches to municipal separate storm sewers tributary to all storm sewer outfalls with a 24 inch nominal diameter or larger, or an equivalent cross-sectional area for non-pipe systems, are mapped. (S5.C.2.b.iv)</p> <p><u>Counties:</u> All existing, known connections over 8 inches to municipal separate storm sewers tributary to all storm sewer outfalls with a 24 inch nominal diameter or larger, or an equivalent cross-sectional area for non-pipe systems, located in one-half the area of the County within urban/higher density rural sub-</p>	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
9 Geographic areas served by the MS4 that do not discharge stormwater to surface waters are mapped. (S5.C.2.b.v)	Y			
10 Municipal storm sewer system GIS data layers that you have updated are listed in <i>Comments</i> field. (S5.C.2.b.vi)	Y		GIS effort has included work on a master drainage layer which includes features such as: pipes, outfalls, ditches and catch basins	
11 Mapping information has been made available to Ecology, Co-Permittees and Secondary Permittees upon request to the extent appropriate. (S5.C.2.b.vi and vii)	Y		Available upon request.	

Question	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
S5.C.3 Coordination				
12	Y			
13			[Reserved]	
14			[Reserved]	
S5.C.4 Public Involvement and Participation Program				
15	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
16	Y		For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	

Question		Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
	S5.C.5 Controlling Runoff from New Development, Redevelopment and Construction Sites				
17	Implemented a local program that meets the requirements in S5.C.5.b.i through S5.C.5.b.iii. (S5.C.5.b.iv)	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
18	[Reserved]				
19	Were exceptions or variances to the minimum requirements in Appendix 1 granted? (S5.C.5.b.ii. and Section 6 of Appendix 1)	N			
19a	Number of variances granted:		0		
20	To the extent allowable under state and federal law, established legal authority to inspect private stormwater facilities and enforce maintenance standards for all new development and redevelopment approved under the provisions of S5.C.5.b. (S5.C.5.b.v)	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	

Question		Y/N/NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
21	Implemented a process of permits, plan review, inspections, and enforcement capability to meet the requirements of S5.C.5.b.vi, including maintenance plans for permanent stormwater facilities/BMPs, recordkeeping and an enforcement strategy. (S5.C.5.b.vi)	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
22	Reviewed stormwater site plans submitted for proposed development involving land disturbing activities that meet the thresholds in S5.C.5.b.i. (S5.C.5.b.vi)	Y			
22a	Number of site plans submitted:		510		
22b	Number of site plans reviewed:		510		
23	Inspected, prior to clearing and construction, permitted development sites that meet the thresholds in S5.C.5.b.i and that have a high potential for sediment transport as determined through plan review based on definitions and requirements in Appendix 7 <i>Identifying Construction Site Sediment Transport Potential</i> . (S5.C.5.b.vi)	Y		All permits routed to drainage review are field checked. Assume all permits routed to drainage review had a high potential for sediment transport and were sensitive sites as defined by the 2009 SWDM appendix D.4.1. Permits that completed a field check in the reporting year were counted as the number of sites inspected.	
23a	Number of sites determined to have high sediment transport potential:		0		
23b	Number of sites inspected:		0		
24	Inspected construction-phase stormwater controls at permitted development sites that meet the thresholds in S5.C.5.b.i during construction to verify proper installation and maintenance of required erosion and sediment controls. (S5.C.5.b.vi)	Y		Any time a DPER inspector visits a site it is assumed that erosion control will be inspected. The time reporting system tracks both "office" tasks and "field" tasks. All "field" tasks charged to a permit will be interpreted as meeting the requirements of this question.	

Question		Y/N/NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
24a	Number of qualifying permitted development sites:		142		
24b	Number of sites inspected:		142		
25	Enforced as necessary based on the construction-phase inspection at new development and redevelopment projects. (S5.C.5.b.vi) List nature of enforcement actions in <i>Comments</i> field.	Y		KC DPER has a progressive enforcement program including technical assistance, notification letters and stop work orders, these do not qualify as enforcement under KCC Title 23 (Code Compliance).	
25a	Number of enforcement actions taken:		0		
26	Inspected permitted development sites that meet the thresholds in S5.C.5.b.i upon completion of construction and prior to final approval or occupancy to verify proper installation of permanent erosion controls and stormwater facilities / BMPs. (S5.C.5.b.vi)	Y		All permits routed to drainage review are inspected for permanent erosion control as part of the normal final inspection process. Final approval or occupancy indicates that installation of permanent erosion controls and stormwater facilities / BMPs is satisfactory.	
26a	Number of qualifying permitted development sites that completed construction:		87		
26b	Number of sites inspected:		87		
27	Verified that a maintenance plan for sites that meet the thresholds in S5.C.5.b.i is completed and responsibility for maintenance is assigned. (S5.C.5.b.vi)	Y		The maintenance plan is reviewed by DPER and maintenance responsibility is assigned.	
28	Enforced as necessary based on the post-construction inspection. (S5.C.5.b.vi) List the nature of enforcement actions in the <i>Comments</i> field.	Y		A performance bond is required for drainage system construction. DPER inspects the constructed drainage system. If the system is not constructed per plan, KC can use the bond to complete or correct the defects.	
28a	Number of enforcement actions taken:		0		

Question	Y/N/NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
29	Y		Compliance is handled through the performance bond requirement. For projects that are not in compliance, King County can pursue bond forfeiture.	
30	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
31	Y		Both are available. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
32	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	

Question	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
S5.C.6 Structural Stormwater Controls				
33	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
34	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	Section VII - SWMP
35	Y			

Question	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
S5.C.7 Source Control Program for Existing Development				
36 [Reserved]				
37 Enforced an ordinance, or other enforceable documents, requiring the application of source control BMPs per S5.C.7.b.i.	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
38 Implemented an inventory or listing of land uses/businesses using the categories in Appendix 8 to identify sites that are potentially pollution generating. (S5.C.7.b.ii)	Y		Inventory developed. See Appendix 7 of the SWMP for inventory development process explanation.	
39 Periodically updated the inventory or listing of land uses/businesses using the categories in Appendix 8, as required in S5.C.7.b.ii.	Y			
40 Implemented a program to respond to complaints and to identify other pollutant generating sources, such as mobile or home-based businesses. (S5.C.7.b.ii)	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
41 Implemented an audit/inspection program for sites identified pursuant to S5.C.7.b.ii. (S5.C.7.b.iii)	Y			

Question		Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
41a	Number of sites that were provided with information about activities that may generate pollutants and associated source control requirements:		583		
42	During the reporting period, inspected 20% of identified sites in the audit/inspection program established in S5.C.7.b.ii. (S5.C.7.b.iii)	Y			
43	During the reporting period, inspected 100% of sites identified through legitimate complaints. (S5.C.7.b.iii)	Y			
43a	Number of sites identified through legitimate complaints:		43		
43b	Number of sites inspected:		43		
44	Implemented a progressive enforcement policy to require sites to come into compliance with stormwater requirements. (S5.C.7.b.iv) List nature of enforcement actions in <i>Comments</i> field. (S9.E.2.d)	Y		See Appendix 8 of the SWMP for draft Progressive Enforcement Table. For 44a types of follow-up actions include: corrective action letter, re-inspection, Notice of Violation, Notice and Order.	Section VII - SWMP
44a	Number of follow-up actions taken:		74		
44b	Number of further enforcement actions taken:		0		
45	Contacted Ecology immediately upon discovering a source control violation that presented a severe threat to human health or the environment. (S5.C.7.b.iv and/or G3.)	Y		As part of normal procedure King County Staff contacts Ecology in such an event. The 45a violations are spills identified by various King County Agencies that had entered King County's MS4 and been reported to Ecology. These spills were contained and remediated by the county's spill response program.	
45a	Number of violations reported to Ecology:		16		

Question		Y/N/NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
46	Referred to Ecology non-emergency violation(s) of local ordinances after making a documented effort of progressive enforcement to bring them into compliance. (S5.C.7.b.iv)	Y			
46a	Number of referrals to Ecology:		0		
47	All staff whose primary duties are implementing the Source Control Program are trained to conduct these activities in accordance with S5.C.7.b.v.	Y			
S5.C.8 Illicit Connections and Illicit Discharge Detection and Elimination (IDDE) Program					
48	The SWMP includes an ongoing program to detect and remove illicit connections and illicit discharges into the MS4 owned or operated by the Permittee, including the provisions in S5.C.8.a and S5.C.8.b.i through S5.C.8.b.ii. (S5.C.8.b.i)	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
49	Implemented procedures for addressing pollutants entering the MS4 from an interconnected, adjoining MS4. (S5.C.8.b.i)	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
50	Enforced ordinances or other regulatory mechanisms to effectively prohibit non-stormwater, illicit discharges, and/or dumping into the MS4. (S5.C.8.b.ii)	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	

Question		Y/N/NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
51	All municipal field staff responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges, improper disposal and illicit connections are trained to conduct these activities. (S5.C.8.b.iii)	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
52	All municipal field staff which, as part of their normal job responsibilities might come in contact with or otherwise observe illicit connections or discharges are trained to identify illicit connections and discharges and the proper procedures for reporting and response. (S5.C.8.b.iv)	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
53	Provided a publicly-listed hotline or other local telephone number for water quality citizen complaints/reports. (S5.C.8.b.v)	Y		The numbers include the Roads 24-hour hotline (206-296-8100 or 800-KCROADS); the SWS Water Quality hotline (206-296-1900); and the Illegal Dumping Task Force (IDTF) hotline (206-296-SITE or 866-431-7483).	
54	[Reserved]				

Question		Y/N/NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
55	<p><u>Cities:</u> Completed field screening of at least 12% of the conveyance systems within the incorporated area.</p> <p><u>Counties:</u> Completed field screening of at least 12% of the conveyance systems in urban/higher density rural sub-basins. (S5.C.8.b.vi)</p>	Y		Using outfalls inspected as metric, we met this requirement for the second half of the 2012 calendar year. Our 6% target was 120 outfalls and we inspected 219.	
56	Upon discovery or upon receiving a report of a suspected illicit connection, initiated an investigation within 21 days. (S5.C.8.b.vii(1))	Y			
56a	Number of investigations:		3		
57	<p>Upon confirmation of the illicit connection, used enforcement authority to eliminate the illicit connection within 6 months. (S5.C.8.b.vii(2))</p> <p>List nature of enforcement actions in <i>Comments</i> field.</p>	Y		Sent corrective letters, worked closely with local sewer district to address and connect IC's to sewer.	
57a	Number of enforcement actions:		3		
57b	Number of illicit connections eliminated:		3		
58	Contacted Ecology immediately upon discovering an illicit connection presented a severe threat to human health or the environment. (S5.C.8.b.vii(3). See also question 7 of this report.)	Y			
58a	Number of illicit connections identified as presenting severe threat to human health or the environment:		0		

Question		Y/N/NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
59	Referred to Ecology illicit connection(s) after making a good faith and documented effort of progressive enforcement to terminate the violation(s). (S5.C.8.b.vii(3))	Y			
59a	Number of referrals to Ecology:		0		
60	Participated in a regional emergency response program or implement procedures to investigate and response to spills and improper disposal into the MS4. (S5.C.8.b.viii)	Y		For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
61	Implemented a program to prioritize and investigate complaints/reports or monitoring information that indicate potential illicit discharges, including spills. (S5.C.8.b.viii)	Y			
S5.C.9 Operation and Maintenance Program					
62	Implemented maintenance standards as protective, or more protective, of facility function than those specified in Chapter 4 of Volume V of the 2005 <i>Stormwater Management Manual for Western Washington</i> , and in accordance with the provisions in S5.C.9.b.i. (S5.C.9.b.i)	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	

Question		Y/N/NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
63	Implemented ordinances or enforceable documents requiring maintenance of all permanent stormwater treatment and flow control facilities, including catch basins, regulated by the Permittee, in accordance with maintenance standards established under S5.C.9.b.i. (S5.C.9.b.ii(1))	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
64	[Reserved]				
65	Implemented an ongoing inspection schedule to annually inspect all stormwater treatment and flow control facilities (other than catch basins) regulated by the Permittee. (Required to begin September 1, 2012, S5.C.9.b.ii(3))	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
66	Reduced the frequency of inspections to less than annually for stormwater treatment and flow control facilities (other than catch basins) regulated by the Permittee. Indicate in comments below if reduction is based on maintenance records or certification pursuant to S5.C.9.b.ii(3))	Y		King County reduced the frequency to every other year. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	

Question		Y/N/NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
67	Managing maintenance activities to inspect new permanent stormwater treatment and flow control facilities, including catch basins, in new residential developments every 6 months during period of heaviest construction to identify maintenance needs and enforce compliance. (S5.C.9.b.ii(4))	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
68	Required cleaning of catch basins found to be out of compliance with maintenance standards under the requirements of S5.C.7 (Source Control Program) and S5.C.8 (Illicit Discharges Detection and Elimination) or as part of facilities you regulate and inspected under S5.C.9 (Operation and Maintenance Program). (S5.C.9.b.ii(6))	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
69	Implemented a program to annually inspect all permanent stormwater treatment and flow control facilities (other than catch basins) owned or operated by the Permittee and to implement appropriate maintenance action in accordance with established maintenance standards. (S5.C.9.b.iii(1))	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	

Question		Y/N/NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
70	Changed the frequency of inspection schedule to less than annually for permanent stormwater treatment and flow control facilities (other than catch basins) owned or operated by the Permittee. Indicate in comments below if reduction is based on maintenance records or certification pursuant to S5.C.9.b.iii(1).	Y		King County reduced the frequency to every other year. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
71	Implemented a program to conduct spot checks of stormwater facilities owned or operated by Permittee (other than catch basins) after major storm events, and to respond to findings, in accordance with S5.C.9.b.iii(2). (S5.C.9.b.iii(2))	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
72	Implemented program to annually inspect catch basins and inlets owned or operated by the Permittee in accordance with the provisions in S5.C.9.b.iv(1). (S5.C.9.b.iv(1))	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
73	Changed the frequency of inspection schedule to less than annually for catch basins owned or operated by the Permittee. Indicate in comments below if reduction is based on maintenance records or certification pursuant to S5.C.9.b.iv(2))	N			

Question		Y/N/NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
74	Decant water from catch basin cleaning activities is disposed of in accordance with the requirements in Appendix 6. (S5.C.9.b.iv(3))	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
75	Attached (as part of the Program Evaluation and Other Activities narrative in Section VII.B) a summary of maintenance or repair activities conducted by the Permittee requiring capital construction of \$25,000 or more. (S5.C.9.b.v)	Y		One qualifying project at the King County International Airport.	Section VII
76	[Reserved]				
77	Implemented practices to reduce stormwater impacts associated with runoff from streets, parking lots, roads or highways owned or operated by the Permittee, and road maintenance activities listed in S5.C.9.b.vi conducted by the Permittee. (S5.C.9.b.vi)	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	

Question		Y/N/NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
78	Implemented policies and procedures, which address activities and lands listed in S5.C.9.b.vii, to reduce pollutants in discharges from lands owned or maintained by the Permittee. (S5.C.9.b.vii)	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
79	Implemented an ongoing training program for Permittee employees with primary construction, operations or maintenance job functions that could impact stormwater quality (S5.C.9.b.viii.)	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
80	Implemented Stormwater Pollution Prevention Plan(s) for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the Permittee in areas subject to this Permit that are not covered under another Ecology-issued stormwater discharge permit. (S5.C.9.b.xi)	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	

Question		Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
S5.C.10 Education and Outreach Program					
81	Implemented or participated in an education and outreach program designed to achieve measurable improvements in understanding of the problem and associated solutions for the target audiences listed in S5.C.10.b. (Required between February 16, 2007 and July 31, 2013, S5.C.10.b.i)	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	
82	Implemented or participated in an effort to measure understanding and adoption of the targeted behaviors by at least one target audience in at least one subject area (Required between February 16, 2007 and July 31, 2013, S5.C.10.b.i)	Y		Program in place currently. For further information see the King County SWMP. (http://www.kingcounty.gov/environment/wlr/stormwater-services/stormwater-program.aspx)	

Question	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
83	N			
84	NA			

Question		Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
85	If applicable, complied with the specific requirements identified in Appendix 2. (S7.A)	NA			
S8.B Monitoring					
86	During the reporting period, stormwater monitoring studies involving the Permittee's MS4 were conducted by the Permittee, on behalf of the Permittee, or were reported to the Permittee and attached (as part of the Program Evaluation and Other Activities narrative in Section VII.B) is a brief description of the type of information gathered or received. (S8.B.1)	Y		See attached monitoring reports	Section VIII
General Conditions					
87	Notified Ecology of the failure to comply with the permit terms and conditions within 30 days of becoming aware of the non-compliance. (G20)	Y			
88	Notified Ecology in cases where the Permittee becomes aware of a discharge into or from the Permittee's MS4 which could constitute a threat to human health, welfare, or the environment? (G3)	Y			
88a	Took appropriate action to correct or minimize discharges into or from the Permittee's MS4 which could constitute a threat to human health, welfare, or the environment? (G3)	Y			
S9. Low Impact Development (LID) Reporting					
89	Attached (as part of the Program Evaluation and Other Activities narrative in Section VII.B) a summary of barriers to implementation of Low Impact Development, and any actions taken to remove the barriers (S9.E.10).	Y			Section VII

Question	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
90 Attached (As part of the Program Evaluation and Other Activities narrative in Section VII.B) a summary of the extent to which basin or watershed planning is being conducted in the Permittee's jurisdiction, either voluntarily, or pursuant to the Growth Management Act or any other requirement (S9.E.11).	Y			Section VII
91 [Reserved]				
S8.C and S8.H Monitoring				
92a Attached (per Section VIII) the Annual Stormwater Monitoring Report for S8.D (S8.H and S9.E.5).	Y			Section VIII
92b Attached (per Section VIII) the Annual Stormwater Monitoring Report(s) for S8.E (S8.H and S9.E.5).	N		S8.E. Final Report submitted in last year's annual report, http://www.kingcounty.gov/environment/waterandland/stormwater/pollution-discharge-permit/annual-reports.aspx	
92c Attached (per Section VIII) the Annual Stormwater Monitoring Report for S8.F (S8.H and S9.E.5).	N		S8.E. Final Report submitted in last year's annual report, http://www.kingcounty.gov/environment/waterandland/stormwater/pollution-discharge-permit/annual-reports.aspx	
93 Three complete years of data has been collected pursuant to S8.D. (S8.C.1.a) If not complete, enter anticipated completion date in Comments field.	Y			
94 Entered into Ecology's Environmental Information Management (EIM) database all relevant data collected pursuant to S8.D. (Required by July 31, 2013, S8.C.1.a)	N		Will meet the 7/31/13 deadline	
95 Targeted Stormwater Management Program Effectiveness Monitoring is complete in accordance with S8.C.1.b. If not complete, enter anticipated completion date in Comments field.	Y			

Question	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, <u>if applicable</u>
96 Stormwater Treatment and Hydrologic BMP Evaluation Monitoring is complete in accordance with S8.C.1.c. If not complete, enter anticipated completion date in Comments field.	Y			
97 Entered into the International Stormwater BMP Database all relevant data collected pursuant to S8.F (Required by July 31, 2013, S8.C.1.c)	N		Will meet the 7/31/13 deadline	
98 Stormwater Treatment and Hydrologic BMP Evaluation Monitoring for a Flow Reduction Strategy is complete in accordance with S8.C.1.d. If not complete, enter anticipated completion date in Comments field.	Y			

REMINDER: Save your work as you go. Did you answer each question, provide necessary background information in the # and/or *Comments* field, and attach and/or note the filename and page number of all required documentation in the *Attachment* field? Proceed to the Attachments (**Section VII**) tab next.

VII. Annual Report Attachments

A. Annual Update of Stormwater Management Program Document (S5.A.1 and S9.E)

Attach your annual update of your Stormwater Management Program (SWMP) document to the email in which you transmit this Annual Report form to Ecology. Label each file clearly. If only parts of the SWMP document have changed, you may attach only those updated sections or pages provided you clearly describe that the provided attachments represent replacement pages.

B. Program Evaluation and Other Activities Narrative

Attach a document that includes your narrative program assessment and other additional required reporting as listed in the Table of Contents below.

Table of Contents

1. If applicable, notification of any changes to authorization pursuant to G19.C (S9.E.9).
2. If applicable, a summary of any actions taken pursuant to S4.F (S9.E.3).
3. Assessment of the appropriateness of your program design and/or specific BMPs identified for each component of the SWMP, including any changes made or anticipated to be made, and why (S9.E.6 and S8.B.2).
 - 3.1 Public Involvement and Participation
 - 3.2 Controlling Runoff from New Development, Redevelopment and Construction Sites
 - 3.3 Structural Stormwater Controls
 - 3.4 Source Control Program for Existing Development
 - 3.5 Illicit Connections and Illicit Discharges Detection and Elimination
 - 3.6 Operation and Maintenance Program
 - 3.7 Education and Outreach Program
4. Updated information required under S5.C.6.b about the Structural Stormwater Control Program (if not provided in the annual SWMP update in Section VII.A)

5. Summary of actions taken to comply with applicable TMDL requirements (S9.E.4).
6. Brief description of any stormwater monitoring studies not part of your Annual Stormwater Monitoring Report involving your MS4 in accordance with S8.B.1 (S9.E.6).
7. Operations and Maintenance Records, if applicable
 - 7.1 Justification of reduced inspection frequency, including records if applicable, pursuant to S5.C.9.b.ii(3), S5.C.9.b.iii(1) and S5.C.9.b.iv(2).
 - 7.2 Information pertaining to stormwater facility maintenance or repair requiring capital construction of \$25,000 or more (S5.C.9.b.v). This information may be presented in a summary table and, when the maintenance or repair has not yet been completed, should include an estimated cost and an estimated completion date
8. Notification of any annexations, incorporations or jurisdictional boundary changes in the geographic area of coverage during the reporting period, and implications for the SWMP (S9.E.8), if applicable.
9. Summaries of Low Impact Development (LID) reporting requirements pursuant to S9.E.10, S9.E.11 and S9.E.12.

REMINDER: Send electronic and hard copies of these attachments to Ecology according to directions in the Certification tab under Section V. Proceed to the **Monitoring (Section VII) tab next.**

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A) Annual update of Stormwater Management Program

See attached SWMP. Entire document has been revised.

B) Program evaluation and other activities narrative

1. Changes of authorization

None

2. Summary of actions pursuant to S4F

See the S4F related correspondence included herein as Appendix 1 of the 2012 Annual Report.

3. Assessment of appropriateness of program design and BMP selection

King County currently has no comments on the appropriateness of the program design and BMP selection of the Municipal NPDES Permit.

4. Updated information about the Structural Control Program

Please see Appendix 2 of the SWMP which outlines the Structural Control Program in detail.

5. Summary of actions taken to comply with applicable TMDL requirements (in response to specific information requirements posed in line 84 of annual report form)

None.

6. Description of any stormwater monitoring studies not included with Annual Stormwater Monitoring Report

The Georgetown Yard trucking facility

King County's Wastewater Treatment Division completed quarterly stormwater sampling of the Georgetown Yard trucking facility in 2012. Sampling and analyses include turbidity, oil and grease, zinc and pH. Visual monitoring observations are also recorded. Results of each monitoring event and visual observations are summarized in an inspection report which is submitted as required.

Hicklin Lake Stormwater Monitoring

Further water quality monitoring and investigation work was conducted by King County WLRD staff in 2012 in the stormwater conveyance system that drains to Hicklin Lake in unincorporated King County, located south of Seattle and north of Burien. Stormwater

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Services staff performed this work, furthering the work begun in 2011 by Science staff. Focused illicit connection detection work (intensive dye testing) was conducted, since analytical results from 2011 for fecal coliform, *E. coli* and human *Bacteroides thetaiotamicron* strongly suggested the existence of illicit sanitary sewer-to-stormwater connections. Dye testing work identified two illicit connections; these connections were eliminated by repairs conducted by the local sanitary sewer district (Southwest Suburban).

Additionally, more water quality samples were obtained from stormwater manholes in this area in 2012 to continue assessing contamination in the conveyance system. This work was performed jointly by WLRD Science and Stormwater Services staff. 14 manholes were sampled on May 15, 2012 and 11 manholes were sampled on October 15, 2012.

DPER Required Monitoring

King County's Department of Permitting and Environmental Review (DPER) requires developers to monitor some projects. These include some large urban developments and experimental design adjustments per King County's Surface Water Design Manual. King County does not do the monitoring, but sets requirements and receives reports, generally from developers' consultants. A project may involve monitoring flow control or water quality facilities or both. Flow control monitoring may involve detention or infiltration performance. Water quality monitoring typically involves levels and or removal rates for pollutants targeted for control, e.g. total suspended solids, total phosphorus, and/or pH. Monitoring may also be required for maintenance, e.g. frequency required for cleaning out built-up sediment, or vegetation maintenance requirements for a bioswale or rain garden.

7. Operation and maintenance records, if applicable

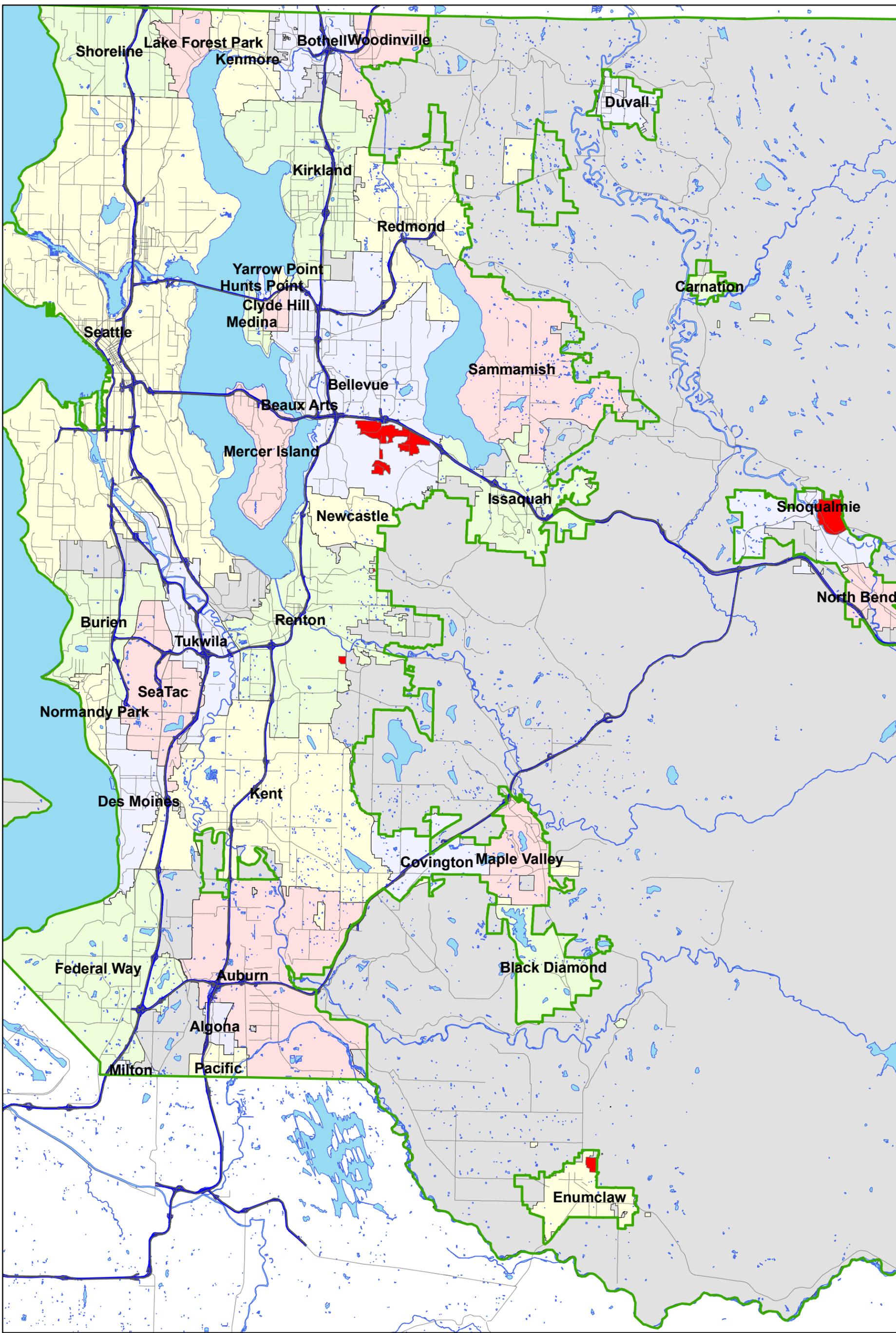
All King County custodial agencies were surveyed and one maintenance or repair activities, as described in S5.C.9.b.v, that exceeded the \$25,000 threshold took place in 2012. This project took place at the King County International Airport as part of the Taxiway Alpha Rehab Project. Under this project some stormwater infrastructure was repaired including replacement of damaged stormwater pipes, and construction a large water quality vault.

8. Annexation notification

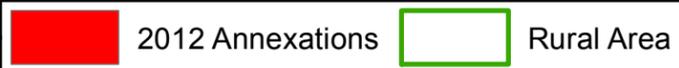
See attached 2012 annexation map.

9. Low Impact Development (LID) Summary

Since the issuance of the 2005 King County Surface Water Design Manual, King County has required the use of Flow Control Best Management Practices (FCBMP) AKA LID structures on all new developments in unincorporated King County. Property rights



2012 Annexations in King County



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opposition was the primary barrier to King County's adoption of LID requirements that mandated preservation of native habitat on development sites. Citizens opposed both the new buffer requirements of the Critical Areas Ordinance and the clearing limits in the Clearing and Grading Ordinance adopted in 2004. In 2008, as a result of a lawsuit by a property rights group, the adopted clearing limits were overturned because they were imposed too broadly independent of site-specific need. The loss of these limits is offset to some extent by other County requirements and incentives to install LID BMPs. Examples include:

- flow control BMPs required on all lot developments to mitigate runoff impacts from added impervious surface;
- flow control facility sizing credits given for application of LID BMPs on all new developments and redevelopments;
- the Public Benefit Rating System for giving tax relief to lot owners that preserve forest land; and
- surface water management fee discounts for application of flow control BMPs, including retention of forest and minimizing added impervious surface.

Property rights concerns also pose a challenge to acquiring access to inspect LID facilities on residential parcels, as many think it is an invasion of privacy to allow county personnel on their property. To address this barrier, King County created a covenant that gave homeowners the alternative of hiring professional engineers in the private sector to do the inspections.

Even with a right of access to inspect LID facilities on residential parcels, issues related to maintenance of BMPs are a significant barrier to their widespread use. First, it is uncertain what kind of and at what interval maintenance is necessary; which is compounded by homeowners having little incentive to maintain them. Second, if they are widely used for flow control, their loss of functionality over time could result in flow impacts to natural water bodies. Third, if their use is widespread, it may be impracticable to enforce maintenance on thousands of properties.

When King County began writing the requirements for using LID BMPs at individual home sites, it was a major effort to keep the requirements simple and doable at a reasonable cost, especially with the prospect of lowering the threshold for drainage review to capture all single family residential building permits. Once King County had moved beyond this barrier, a new barrier appeared--effective construction inspection. Many LID BMPs were not installed properly or were not installed at all because the Department of Development and Environmental Services (DDES) was not doing final inspections on them. DDES addressed this problem by re-organizing its inspection program which now ensures that the LID facilities are properly sited and correctly built. In addition, King County's post construction inspection program ensures that LID BMPs are properly maintained. The program will grow over time as more and more LID BMPs are added to the inventory due to the new permit requirements. Initial indications from the inspections of approximately 120 private flow control BMPs have shown troubling

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results of early installed LID BMPs. Of those BMPs inspected, approximately 47% were found to be either missing completely, installed incorrectly, in need of maintenance, or lacked access. King County currently has an inventory of approximately 1,000 FCBMPs and it is expected that the changes mentioned above will eliminate the issues found in the initial inspections.

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S9.E.11 & 12.

King County has undertaken basin planning in several basins including Juanita Creek, Miller and Walker Creek, Des Moines Creek, and Salmon Creek. The basins listed in the table below have been identified as falling within the Urban Growth Area of unincorporated King County. These basins would be most at risk for development and could therefore be locations for potential basin or watershed planning.

BASIN_NAME
Bear Creek
Black River
Cherry Creek
Coal Creek (Cedar)
Coal Creek (Snoqualmie)
Covington Creek
Duwamish River
East Lake Sammamish
East Lake Washington - Bellevue North
East Lake Washington - Bellevue South
Evans Creek
Hylebos Creek
Issaquah Creek
Jenkins Creek
Juanita Creek
Kelsey Creek
Little Bear Creek
Longfellow Creek
Lower Cedar River
Lower Green River - East
Lower Green River - West
Lower Puget Sound - Burien North
Lower White River

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May Creek
Mercer Slough
Middle Green River
Mill Creek
Miller Creek
Mud Mountain
Newaukum Creek
Patterson Creek
Salmon Creek
Sammamish River
Seola Creek
Snoqualmie River
Soos Creek
South Fork Snoqualmie River
Swamp Creek
Tibbetts Creek
Tokul Creek
West Lake Sammamish
West Lake Washington - Seattle South

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Appendix 1 – S4F Related Documents

**UPDATE OF PROPOSED TASKS WITH
POTENTIAL BENEFITS TO WATER QUALITY**

KERRISTON ROAD / 364TH AVENUE SE

Distance from end of asphalt (miles)	Left Side of Road (proceeding from end of asphalt)	Right Side of Road (proceeding from end of asphalt)	Permits Required	Estimated Completion Date	Actual Completion Date
0	Ditch and grade road, install CB, install cross culvert	Install culvert outlet structure	None	12/31/13	TBD
0.05	Clean sump/ditch		None	12/31/12	11/02/11
0.3	Pave crest to crest	Pave crest to crest, design drainage features	Yes, Type F buffer	12/31/16 ^a	Indefinite ^b
1.3	Clean ditch, pull shoulder, install BMP check dam		Yes, Type F buffer	12/31/12	11/02/11
1.3		Install 30 feet of new ditch out, pull shoulder	Yes, Type F buffer	12/31/12	11/02/11
1.3		Grade 100 feet of shoulder	Yes, Type F buffer	12/31/12	11/02/11
1.4		Grade 50 feet of shoulder, install new ditch out	Yes, Type F buffer	12/31/12	11/02/11
1.4	Clean and maintain ditch out		Yes, Type F buffer	12/31/12	11/02/11
1.4	Clean and maintain ditch out		Yes, Type F buffer	12/31/12	11/02/11
1.4		Grade shoulder, install new ditch out	Yes, Type F buffer	12/31/12	11/02/11
1.5		Grade shoulder, install new ditch out	None	12/31/12	11/02/11
1.5	Grade shoulder, clean and maintain ditch out. Evaluate for BMP installation.		None	12/31/12	11/02/11
1.5		Grade shoulder, clean and maintain ditch out	None	12/31/12	11/02/11
1.6		Grade shoulder, clean and maintain ditch out	None	12/31/12	11/02/11
1.6	Grade shoulder, clean and maintain ditch out		None	12/31/12	11/02/11
1.6		Grade shoulder, clean and maintain ditch out	None	12/31/12	11/02/11
1.8	Grade shoulder		None	12/31/12	11/02/11
2.8	Remove sediment from roadside pullout		Yes, Type F buffer	12/31/12	11/02/11
2.8		Clean culvert inlet and ditch, install sediment control BMP	Yes, Type F buffer	12/31/12	11/02/11
3.5	Evaluate installation of cross tile to relocate stream out of roadside ditch		Yes, Type N water	Indefinite ^b	Indefinite ^b
3.6-3.7	Evaluate relocation of stream away from road		Yes, Type F water	Indefinite ^b	Indefinite ^b
3.7	Clean catch basin and cross tile, install rock in road bed		Yes, Type F buffer	12/31/12	11/02/11
3.7		Maintain ditch out	None	12/31/12	11/02/11
3.7	Clean culvert inlet and ditch, install sediment control BMP		None	12/31/12	11/02/11
3.8	Clean ditches and sumps, repair culvert headwalls		Yes, Type F water and buffer	12/31/11	09/22/11
3.8	Replace culvert with fish passable structure	Replace culvert with fish passable structure	Yes, Type F water	12/31/2016 ^c	TBD
3.9		Evaluate removal of rock ditch, check dam and sump in wetland	Yes, wetland	No maintenance proposed at this time.	N/A ^d
3.9	Grade 50 feet of shoulder to remove berm		Yes, Type F stream buffer	12/31/12	11/02/11

Additional Tasks Completed	
Installation of approximately nine new ditch outs	Completed 11/02/11
Cleaning of approximately 24 cross culverts	Completed 11/02/11
Cleaning of one driveway culvert	Completed 11/02/11
Wet season inspection	Completed 11/23/11
Wet season inspection	Completed 11/19/12

Notes:

- ^a Proposed task has been identified as potentially beneficial to water quality. However, completion of proposed task subject to permitting approval and acquisition of right-of-way.
- ^b Proposed task has been identified as potentially beneficial to water quality. However, completion of proposed task would require grant funding and landowner authorization.
- ^c Proposed task has been identified as potentially beneficial to water quality. However, completion of proposed task subject to permitting approval.
- ^d Based on results of 11/23/11 evaluation, water quality benefits from removal of rock expected to be minimal.

VIII. Annual Stormwater Monitoring Report (S8.H and S9.E.5)

Refer to the Annual Stormwater Monitoring Report contents guidance for additional information regarding Ecology's expectations for this report.

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As required in the 2012 Annual Report, please find the attached monitoring report.