Existing Infiltration/Inflow Policies K.C.C.	Task Force Proposed Amendments as of December 29, 2014	Comments/Discussion at MWPAAC RWSP Policy Review Task	Sub-committee and full MWPAAC Comments
Existing Infiltration/Inflow Policies K.C.C. 28.86.070 A. Explanatory material. The I/I policies are intended to guide the county in working cooperatively with component agencies to reduce the amount of I/I that flows into component agencies' local collection systems, thereby reducing the impact of I/I on the regional system's capacity. This cooperative process will assess levels of I/I in local conveyance systems and construct pilot projects and will evaluate the cost-effectiveness and environmental costs and benefits of local collection system rehabilitation. The executive will develop and recommend long-term measures to reduce existing and future levels of I/I into local collection systems. Incentives for component agencies to meet the adopted target for I/I reduction may include a surcharge.	A. Explanatory material. The infiltration and inflow (I/I) policies are intended to guide the county in working cooperatively with component agencies to review and update the county's I/I reduction program. The goal of the program is to delay or defer the need for identified future regional conveyance system improvements. reduce the amount of I/I that flows into component agencies' local collection systems The county and the agencies have been working collaboratively to reduce I/I in local agency systems and reduce the amount of I/I that enters the county's regional conveyance system. From 2000 through 2014, activities included: (1) extensive flow monitoring and modeling to define levels of I/I for each local agency tributary to the regional system; (2) ten pilot projects to test various technologies and gain cost information; (3) development of draft standards, procedures, policies, and guidelines for use by local agencies to reduce I/I in their systems; and (4) completion of one larger I/I reduction project to test cost-effectiveness of I/I reduction on a scale large enough to offset the need for a planned regional conveyance project. thereby reducing the impact of I/I on the regional system's capacity • This cooperative process will assess levels of I/I in local conveyance systems and construct pilot projects and will evaluate the cost-effectiveness and environmental costs and benefits of local collection system rehabilitation. The executive will develop and recommend long term measures to reduce existing and future levels of I/I into local collection systems. ((Incentives for component agencies to meet the adopted target for I/I reduction may include a surcharge.))	Comments/Discussion at MWPAAC RWSP Policy Review Task Force Meetings December 29, 2014: The policies were sent to Task Force members for final review. WTD staff suggested a word change in the last sentence from the Dec. 2 version. Task Force members concurred. December 2, 2014 discussion: There were comments to consider putting more information in the explanatory material that shows what has occurred over the past 14 years. The revised language is an attempt to provide such information. ***********************************	Full MWPAAC approved the Task Force amendments at its April 22, 2015 meeting. There were no comment made at the February 5, 2015 Rates and Finance subcommittee meeting.
	local collection systems. ((Incentives for component agencies to meet the adopted target for I/I reduction may	 It was noted that the way they policies are written, there is no incentive for local agencies to do something with I/I coming from private properties; would it be by ordinance? There was discussion about developing policy and or regulations about new construction; could King County 	
		 authority to have a local jurisdiction fix new construction if doesn't pass the pressure test? The high costs for the County to monitor and track where I/I comes from was noted. There was a suggestion that we need to think more broadly; if the County feels I/I is coming from a certain jurisdiction/agency, rather than the County try to prove that it is, have the jurisdiction/agency prove that it isn't. 	
		************************* October 30, 2014 discussion: The explanatory materials need to be re-written once recommendations for policy amendments are made.	

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		There should be processes in place to deal with poor construction, and if we are trying to solve new construction, that should be the focus. The construction should be dealt with through an inspection program.	
		Before we can use the Skyway project as an indicator of success or non-success of dealing with I/I on a large-scale basis, we need to know what the results would have been if the portion that wasn't accounted for was included in the project; or what would the results look like if that portion hadn't entered into the basin.	
I/IP-1: King County is committed to controlling I/I within its regional conveyance system and shall rehabilitate portions of its regional conveyance system to reduce I/I whenever the cost of rehabilitation is less than the costs of conveying and treating that flow or when rehabilitation provides significant environmental benefits to water quantity, water quality, stream flows,	No changes are proposed for this policy.	December 29, 2014: The policies were distributed for a final review. One member noted that the words added be taken out as it would allow for an I/I project to proceed simply if a capacity constraint existed in a facility that could result in an overflow, and not need to meet the cost effective test. The task force agreed to keep the language in its original form.	January 8, 2015, Engineering and Planning Subcommittee discussion: There was discussion about given the uncertainty of costs, how do you determine whether I/I will cost less? One member commented that the Skyway I/I initial project gave us construction cost estimates and how much I/I was removed. This would be the basis of future work by WTD and a part of the E&P's workplan.
wetlands or habitat for species listed under the ESA.		December 2, 2014 discussion: There was a suggestion to add the words "prevents overflows or" after "when rehabilitation" and before "provides" to the policy.	
I/IP-2: King County shall work cooperatively with component agencies to reduce I/I in local conveyance systems utilizing and evaluating I/I pilot rehabilitation projects, and developing draft local conveyance systems' design guidelines, procedures and policies, including inspection and enforcement standards. Evaluations of the pilot rehabilitation projects and a regional needs assessment of the conveyance system and assessments of I/I levels in each of the local sewer systems will form the basis for identifying and reporting on the options and the associated cost of removing I/I and preventing future increases. The executive shall submit to the council a report on the options, capital costs and environmental costs and benefits including but not limited to those related to water quality, groundwater inception, stream flows and wetlands, and habitat of species listed under the	 I/IP2 NEW: The county shall work with the local agencies to review and update the regional I/I reduction program. The review shall consider, but not be limited to the following: Past regional I/I efforts Changes to existing code and contract language that provide direction on I/I allowances Policy guidance related to inspection programs for new construction Incentives for local agencies to reduce I/I from entering their local systems Incentives to private property owners for inspection and repair of side sewers Comprehensive list of tools or actions associated with reduction of I/I The executive shall provide progress reports on the I/I program review as outlined in the reporting policies (K.C.C. 28.86.165). 	December 2, 2014 discussion There was discussion that the new policy (in red) should replace old I/IP-2. There was a suggestion that progress reports be made in accordance with the reporting policies in place of putting an arbitrary date for completion of the review. There was also discussion on whether there should be another policy that talks about holistic approaches. Is there a way to more clearly identify what we want from a program, and then discuss the tools and approaches needed to achieve that goal. The addition of the last bullet to the new I/IP-2 is an attempt to capture this discussion. ***********************************	January 8, 2015, Engineering and Planning Subcommittee discussion: There was a recommendation to add the following bullet to I/I Policy 2 (NEW): • "Updated cost assumptions and estimated reduction efficiencies." There was discussion about the importance of tracking efficiencies and showing how I/I removal is or isn't efficient.
ESA. No later than December 31, 2005, utilizing the prior assessments and reports the executive shall recommend target levels for I/I reduction in		October 30, 2014 discussion: There was discussion on why the 30 percent goal – what was the rationale. If we are going to have a target goal, there needs to be	

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local collection systems and propose long-term		rationale for that. One member noted that it was just a number	
measures to meet the targets. These measures		that was suggested way back when.	
shall include, but not be limited to, establishing			
new local conveyance systems design standards,		WTD staff reviewed old documents, and in the Executive's	
implementing an enforcement program,		Recommended Program the goal of 30 percent was evaluated,	
developing an incentive based cost sharing		the following is noted in that report:	
program and establishing a surcharge program.		"The benefit-cost analysis for the third alternative evaluated the	
The overall goal for peak I/I reduction in the		cost of removing 135 mgd of I/I from the regional collection	
service area should be thirty percent from the		system, which is 30 percent of the region's total estimated 450	
peak twenty-year level identified in the report.		mgd of I/I. The total cost to achieve this level of I/I reduction was	
The county shall pay one hundred percent of the		calculated at approximately \$398 million and would result in a	
cost of the assessments and pilot projects.		savings in capital CSI project costs of \$116 million. For this	
cost of the assessments and phot projects.		alternative, the benefit (\$116 million) to cost (\$398 million) ratio	
		for achieving 30 percent I/I reduction would be 0.29, which is	
		below the standard set for cost-effectiveness." Because of this,	
		the report noted that this alternative "was deemed infeasible".	
		the report noted that this afternative was deemed infeasible.	
		There was a comment that this policy should be taken apart	
		based on what was accomplished and what should be done.	
		There was also a question on the words "groundwater	
		inception" (highlighted in yellow). WTD checked the King County	
		Code, and the word "inception" is in the Code.	
I/IP-3: King County shall consider an I/I surcharge,	((I/IP-3: King County shall consider an I/I surcharge, no later than June	December 2, 2014 discussion:	
no later than June 30, 2006, on component	30, 2006, on component agencies that do not meet the adopted	Based on previous discussions, there is general agreement to	
agencies that do not meet the adopted target	target levels for I/I reduction in local collection systems. The I/I	delete this policy.	
levels for I/I reduction in local collection systems.	surcharge should be specifically designed to ensure the component	. ,	
The I/I surcharge should be specifically designed	agencies' compliance with the adopted target levels. King County	It was noted that regarding an I/I surcharge, from the	
to ensure the component agencies' compliance	shall pursue changes to component agency contracts if necessary or	recommendation section for long-term I/I control of the	
with the adopted target levels. King County shall	implement other strategies in order to levy an I/I surcharge.))	Executive's Recommended Program completed in 2005:	
pursue changes to component agency contracts if	, , , , , , , , , , , , , , , , , , , ,	"Do not implement a surcharge on local agencies for flows that	
necessary or implement other strategies in order		exceed targeted I/I reduction levels already established in the	
to levy an I/I surcharge.		King County Code. The County and local agencies found that	
, ,		implementing a surcharge, as contemplated in the King County	
		Code, would be costly to administer and would pose difficulties in	
		verifying violations."	
		,, 3	
		October 30 discussion:	
		If there is no incentive to do investigation and resolve the I/I,	
		what would support an I/I reduction program? It was noted that	
		not providing for a surcharge allows others to not do anything.	
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		If the surcharge is go away in these policies, than the policy	
		needs to be revised with incentives.	
		The way the contracts read about pre-1961 pipes allows leakage	

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		and contributes to regional costs. Is there a way to normalize	
		flows and see what would exceed the amount anticipated.	
		The essence of what needs to be resolved is what is most cost-	
		effective – to build the conveyance or fix I/I.	
		A complication is the majority of I/I comes from private side	
		sewers. We might want to look at Tacoma's mechanisms.	
		To re-energize the I/I program, perhaps there should be an end date to reach some conclusion.	
		Would it make sense to have an inspection oversight group?	
		It doesn't seem like any of the upcoming CSI projects are	
		projects that I/I reduction would have helped. Will we reapply	
		how I/I reduction would help to eliminate or delay a needed CSI	
		project?	