

# Surface Water Management Utility



Capital Improvement Program

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**City of Kirkland  
2011-2016 Capital Improvement Program**

**SURFACE WATER MANAGEMENT UTILITY PROJECTS**

**Funded Projects:**

Project Number	Project Title	Prior Year(s)	2011	2012	2013	2014	2015	2016	2011-2016 Total	Funding Source			
										Current Revenue	Reserve	Debt	External Source
SD 0047	Annual Replacement of Aging/Failing Infrastructure		200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	1,200,000			
SD 0051	Forbes Creek/KC Metro Access Road Culvert Enh.	232,200		733,700					733,700				44,000
SD 0053	Forbes Creek/Coors Pond Channel Grade Controls	260,200		570,700		184,200			855,900				
SD 0058	Surface Water Sediment Pond Reclamation Phase II			115,400		114,200			832,800				
SD 0059+	Totem Lake Boulevard Flood Control Measures		117,000						117,000				117,000
SD 0067	NE 129th Place/Juanita Creek Rockery Repair			115,500					338,800				
<b>SD 0072</b>	<b>Totem Lake Surface Water Opportunity Program</b>		<b>500,000</b>						<b>500,000</b>				
<b>SD 0073</b>	<b>Forbes Creek Surface Water Opportunity Program</b>		<b>500,000</b>						<b>500,000</b>				
SD 8888*	Annual Streambank Stabilization Program			57,700		165,800		311,900	835,400				
SD 9999*	Annual Storm Drain Replacement Program			922,600		923,800		350,000	2,670,400				
<b>Total Funded Surface Water Management Utility Projects</b>		<b>492,400</b>	<b>1,317,000</b>	<b>1,512,200</b>	<b>2,330,900</b>	<b>1,588,000</b>	<b>974,000</b>	<b>861,900</b>	<b>8,584,000</b>	<b>8,423,000</b>	<b>0</b>	<b>0</b>	<b>161,000</b>

**Unfunded Projects:**

Project Number	Project Title	Total
SD 0045^	Carillon Woods Erosion Control Measures	549,600
SD 0046#	Regional Detention in Forbes and Juanita Creek Basins	2,810,200
SD 0048*	Cochran Springs / Lake Washington Blvd Crossing Enh.	1,637,100
SD 0049#	Forbes Creek/108th Avenue NE Fish Passage Improvements	332,900
SD 0050#	NE 95th Street/126th Avenue NE Flood Control Measures	55,900
SD 0052^	Forbes Creek/Slater Avenue Embankment Stabilization	139,700
SD 0054#	Forbes Creek/BNSFRR Fish Passage Improvements	424,200
SD 0055	Forbes Creek / 98th Avenue NE Riparian Plantings	75,500
SD 0056^	Forbes Creek Ponds Fish Passage/Riparian Plantings	213,000
SD 0061^	Everest Park Stream Channel/Riparian Enhancements	1,095,500
SD 0062^	Stream Flood Control Measures at Kirkland Post Office	345,400
SD 0063^	Everest Creek/Slater Avenue at Alexander Street	830,300
SD 0068	128th Ave NE/NE 60th Street To NE 64th St Drainage Imp.	270,300
SD 0070	Juanita Creek Watershed Enhancement Study	50,000
SD 0537	Streambank Stabilization Program – NE 86th Street	640,200
<b>Subtotal Unfunded Surface Water Management Utility Projects</b>		<b>9,469,800</b>
<b>Funding Available from Annual Programs for Candidate Projects</b>		<b>3,505,800</b>
<b>Net Unfunded Surface Water Management Utility Projects</b>		<b>5,964,000</b>

**Prior Year(s) Funding (Budget to Actuals):**

Project Number	Project Title	Budget	Actual	Balance
SD 0051	Forbes Creek/KC Metro Access Road Culvert Enh.	232,200	88,092	144,108
SD 0053	Forbes Creek/Coors Pond Channel Grade Controls	260,200	84,147	176,053
<b>Total Prior Year(s) Funding (Budget to Actuals):</b>		<b>492,400</b>	<b>172,239</b>	<b>320,161</b>

**Notes:**

- \* = Modification in timing and/or cost (see Project Modification Schedule for greater detail)
- + = Moved from unfunded status to funded status
- " = Moved from funded status to unfunded status
- ^ = Annual Streambank Stabilization Program Project Candidates
- # = Annual Storm Drain Replacement Program Project Candidates
- Shaded year(s) = Previous timing
- Bold italics = New projects



Funded  
Surface Water Management  
Utility Projects



**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0047 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	ANNUAL REPLACEMENT OF AGING /FAILING INFRASTRUCTURE		
<b>PROJECT LOCATION</b>	Various locations	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		Ongoing	Existing Project

**DESCRIPTION/JUSTIFICATION**

The regular replacement of aging and/or failing Surface Water Utility infrastructure. The City will prioritize system improvements through the use of a video system that will investigate surface water piping. Following the prioritization, improvements will be identified for either reconstruction using City forces or through the normal contractor bidding process.

**REASON FOR MODIFICATION (WHERE APPLICABLE)**

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<b>POLICY BASIS</b>	<b>METHOD OF FINANCING (%)</b>
Surface Water Comprehensive Plan	Current Revenue 100 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 0 %

<b>CAPITAL COSTS</b>	Prior Year(s)	2011	2012	2013	2014	2015	2016	<b>2011-2016 TOTAL</b>	Future Year(s)	<b>Total Project</b>
Planning/Design/Engineering	0	0	0	0	0	0	0	0	0	0
In-House Professional Svcs.	0	0	0	0	0	0	0	0	0	0
Land Acquisition	0	0	0	0	0	0	0	0	0	0
Construction	0	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	0	1,200,000
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	0	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	0	1,200,000
<b>NEW MAINT. AND OPER.</b>	0	0	0	0	0	0	0	0	0	0
<b>NEW FTE</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0047 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	ANNUAL REPLACEMENT OF AGING /FAILING INFRASTRUCTURE
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>During construction, traffic detours, delays and disruption should be anticipated. These system improvements could also entail the use of "trenchless" technology which could reduce impacts to the public. Design considerations will strive to minimize public disruption.</i>
Community economic impacts	<i>The degradation of surface water infrastructure without appropriate scheduled and proactive repair/reconstruction will increase overall community costs due to repeated maintenance requirements.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Failing surface water infrastructure could lead to roadway, stream bank or other property damage. This damage in turn could lead to a decreased community support level for City services and/or claims, accidents, or high cost failures.</i>
Responds to an urgent need or opportunity	<i>This project is an important recommendation in the Surface Water Comprehensive Plan and will limit unanticipated expenses from the Surface Water operating fund.</i>
Feasibility, including public support and project readiness	<i>Projects have yet to be identified, however the community has historically supported proactive system maintenance.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>The timely replacement of failing infrastructure is consistent with Governmental Accounting Standards Board (GASB) Statement 34 and the Growth Management Act.</i>
Benefits to other capital projects	<i>Unknown specifics at this point, however, the project will reduce potential failure of streets or other above ground facilities if pipes fail while also reducing materials and downstream sedimentation that currently enter the drainage system from broken, separated, or failing pipes.</i>
Implications of deferring the project	<i>Increased maintenance commitment, potential system collapse, sedimentation downstream of failed pipe.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>City-wide</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0051 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	FORBES CREEK / KING COUNTY METRO ACCESS ROAD CULVERT ENHANCEMENT		
<b>PROJECT LOCATION</b>	Adjacent to the 11100 block of Forbes Creek Drive at Forbes Creek	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		2006	Existing Project

**DESCRIPTION/JUSTIFICATION**

An existing 12-foot-wide bottomless arch culvert conveys Forbes Creek under a King County sewer easement access road, approximately 145 yards upstream of Forbes Creek Drive and is in need of repair. The stream is eroding under the culvert footings, a hanging outfall at the downstream end of the culvert has created a fish blockage and the gabion walls on the upstream end of the culvert are collapsing. Corrective measures include the installation of log-boulder grade controls to promote channel aggradations up to and inside the culvert, placement of aggraded gravel to protect the eroding footings, repair to the gabion wall and stabilization of the adjacent streambanks.

**REASON FOR MODIFICATION (WHERE APPLICABLE)**

<b>POLICY BASIS</b>	<b>PRIOR YEAR(S) BUDGET TO ACTUALS</b>	<b>METHOD OF FINANCING (%)</b>	
Surface Water Comprehensive Plan <i>FO-05</i>	Budget \$232,200	Current Revenue	94%
	Actual \$88,092	Reserve	0%
	Balance \$144,108	Grants	0%
		Other Sources King County	6%
		Debt	0%
		Unfunded	0%

<b>CAPITAL COSTS</b>	Prior Year(s)	2011	2012	2013	2014	2015	2016	<b>2011-2016 TOTAL</b>	Future Year(s)	<b>Total Project</b>
Planning/Design/Engineering	25,000	0	0	0	0	0	0	0	0	25,000
In-House Professional Svcs.	30,000	0	0	0	0	0	0	0	0	30,000
Land Acquisition	0	0	0	0	0	0	0	0	0	0
Construction	177,200	0	0	733,700	0	0	0	733,700	0	910,900
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	232,200	0	0	733,700	0	0	0	733,700	0	965,900
<b>NEW MAINT. AND OPER.</b>	0	0	0	0	0	0	0	0	0	0
<b>NEW FTE</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0051 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	FORBES CREEK / KING COUNTY METRO ACCESS ROAD CULVERT ENHANCEMENT
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>None. This project is located outside of the public right of way and is not adjacent to any private residents or commercial activity.</i>
Community economic impacts	<i>N/A</i>
Health and safety, environmental, aesthetic, or social effects	<i>Project will stabilize the existing footings that support an existing 12' culvert, improve fish passage, and stabilize the bank on the upstream end of the culvert that if unchecked could fail at a future date.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>A number of projects are identified in the Forbes Creek basin; this is one element of those improvements.</i>
Implications of deferring the project	<i>Possible erosion leading to failure of existing facilities; failure of King County Sewermain.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>South Juanita</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0053 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	FORBES CREEK / COORS POND CHANNEL GRADE CONTROLS		
<b>PROJECT LOCATION</b>	South side of Forbes Creek Drive between 115th Ct NE and 113th Ct NE	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		2006	Existing Project

**DESCRIPTION/JUSTIFICATION**

Existing structures in the stream have created barriers to fish passage while channel downcutting continues. Install grade control structures, cut down height of structures and install habitat structures. These improvements will raise the channel, improve the fish passage and improve the instream habitat.

**REASON FOR MODIFICATION (WHERE APPLICABLE)**

<b>POLICY BASIS</b>	<b>PRIOR YEAR(S) BUDGET TO ACTUALS</b>	<b>METHOD OF FINANCING (%)</b>	
Surface Water Comprehensive Plan <i>FO-07</i>	Budget	\$260,200	Current Revenue 100 %
	Actual	\$84,147	Reserve 0 %
	Balance	\$176,053	Grants 0 %
			Other Sources 0 %
		Debt 0 %	
		Unfunded 0 %	

<b>CAPITAL COSTS</b>	Prior Year(s)	2011	2012	2013	2014	2015	2016	<b>2011-2016 TOTAL</b>	Future Year(s)	<b>Total Project</b>
Planning/Design/Engineering	45,000	0	57,700	110,500	35,100	0	0	203,300	0	248,300
In-House Professional Svcs.	30,000	0	43,300	45,200	15,000	0	0	103,500	0	133,500
Land Acquisition	0	0	0	0	0	0	0	0	0	0
Construction	185,200	0	0	415,000	134,100	0	0	549,100	0	734,300
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	260,200	0	101,000	570,700	184,200	0	0	855,900	0	1,116,100
<b>NEW MAINT. AND OPER.</b>	0	0	0	0	0	0	0	0	0	0
<b>NEW FTE</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0053 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	FORBES CREEK / COORS POND CHANNEL GRADE CONTROLS
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>None; project is not on public right of way, nor near any existing buildings.</i>
Community economic impacts	<i>Reduces downstream sediment load and thus reduces need for City forces to conduct routine maintenance.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Would reduce flooding, sedimentation, channel migration/incision associated health, safety and the above community impacts.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>A number of projects are identified in the Forbes Creek basin; this is one element of those improvements.</i>
Implications of deferring the project	<i>Continued flooding, sedimentation, channel migration/incision, habitat degradation, reduction of downstream conveyance capacity, damage to downstream capital projects and possible violations of state and/or federal stormwater regulations.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>South Juanita</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0058 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	SURFACE WATER SEDIMENT POND RECLAMATION (PHASE II)		
<b>PROJECT LOCATION</b>	Southwest corner of the intersection of NE 128th St and 100th Ave NE	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		2012	Existing Project

<b>DESCRIPTION/JUSTIFICATION</b>	
<p>Improve riparian understory vegetation. Plant trees and understory shrubs on City-owned parcel downstream of NE 128th Street. Planting will provide shading for the stream, which will reduce water temperature. Phase I of the Sediment Pond reclamation project took place in 2004/2005. Project may include additional planting along Juanita Creek.</p>	

<b>REASON FOR MODIFICATION (WHERE APPLICABLE)</b>

<b>POLICY BASIS</b>	<b>METHOD OF FINANCING (%)</b>
Surface Water Comprehensive Plan	Current Revenue 100 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 0 %

<b>CAPITAL COSTS</b>	Prior Year(s)	2011	2012	2013	2014	2015	2016	<b>2011-2016 TOTAL</b>	Future Year(s)	<b>Total Project</b>
Planning/Design/Engineering	0	0	72,100	99,900	22,100	0	0	194,100	0	194,100
In-House Professional Svcs.	0	0	43,300	41,600	9,200	0	0	94,100	0	94,100
Land Acquisition	0	0	0	0	0	0	0	0	0	0
Construction	0	0	0	461,700	82,900	0	0	544,600	0	544,600
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	0	0	115,400	603,200	114,200	0	0	832,800	0	832,800
<b>NEW MAINT. AND OPER.</b>	0	0	0	0	0	0	0	0	0	0
<b>NEW FTE</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0058 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	SURFACE WATER SEDIMENT POND RECLAMATION (PHASE II)
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>None; project is located within public easements off of the right of way.</i>
Community economic impacts	<i>Would reduce the potential for property damage, loss of business and road closures due to localized flooding, channel migration/incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Would reduce flooding, sedimentation, channel migration/incision associated health, safety and the above community impacts. Proposed riparian and channel enhancements would provide aquatic, terrestrial and avian habitat benefits as well as aesthetically pleasing community green/open space. The location of this project would provide the opportunity for public education relating to natural resources stewardship and stormwater quality.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>A number of projects are identified in the Juanita Creek basin; this is one element of those improvements.</i>
Implications of deferring the project	<i>Continued flooding, sedimentation, channel migration/incision, habitat degradation, reduction of downstream conveyance capacity, damage to downstream capital projects and possible violations of state and/or federal stormwater regulations.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>South Juanita</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0059 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	TOTEM LAKE BOULEVARD FLOOD CONTROL MEASURES		
<b>PROJECT LOCATION</b>	Totem Lake Boulevard between 120th Ave NE and 124th Ave NE	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		2007	Modified Project

**DESCRIPTION/JUSTIFICATION**

Totem Lake Boulevard floods during mid-to-large storms several times per year. Further evaluation of the storm drainage system in the area is warranted with various options being investigated and identified prior to implementing improvements. This project will reduce the frequency and magnitude of flooding on Totem Lake Boulevard.

**REASON FOR MODIFICATION (WHERE APPLICABLE)**

Project moved from unfunded to funded status based on availability of King County Opportunity Funds for flood control study in 2011.

<b>POLICY BASIS</b>	<b>PRIOR YEAR(S) BUDGET TO ACTUALS</b>	<b>METHOD OF FINANCING (%)</b>	
Surface Water Comprehensive Plan	Budget	\$82,400	Current Revenue 0 %
	Actual	\$74,754	Reserve 0 %
	Balance	\$7,646	Grants King County (2011) 10 %
			Other Sources 0 %
		Debt 0 %	
		Unfunded 90 %	

<b>CAPITAL COSTS</b>	Prior Year(s)	2011	2012	2013	2014	2015	2016	<b>2011-2016 TOTAL</b>	Future Year(s)	<b>Total Project</b>
Planning/Design/Engineering	62,400	94,000	0	0	0	0	0	94,000	260,900	417,300
In-House Professional Svcs.	20,000	23,000	0	0	0	0	0	23,000	52,900	95,900
Land Acquisition	0	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	623,000	623,000
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	82,400	117,000	0	0	0	0	0	117,000	936,800	1,136,200
<b>NEW MAINT. AND OPER.</b>	0	0	0	0	0	0	0	0	0	0
<b>NEW FTE</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0059 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	TOTEM LAKE BOULEVARD FLOOD CONTROL MEASURES
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>Depending on the design of the preferred alternative, any improvements along Totem Lake Boulevard will be significant to the traveling public, transit, emergency services, and the surrounding businesses. Significant public information will be incorporated into the design process.</i>
Community economic impacts	<i>Would reduce the potential for property damage, loss of business and road closures due to localized flooding, channel migration/incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Localized flooding and environmental degradation will continue if the sedimentation along this stretch of Juanita Creek is not addressed. Available fish habitat could be enhanced with the project.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the surrounding businesses and traveling public will be addressed. This project presents significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	
Implications of deferring the project	<i>Continued flooding, sedimentation, channel migration/incision, habitat degradation, reduction of downstream conveyance capacity, damage to downstream capital projects and possible violations of state and/or federal stormwater regulations.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>Totem Lake</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input checked="" type="checkbox"/> Project provides new capacity. Amount of new capacity provided: approximately 30-50% <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0067 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	NE 129TH PLACE/JUANITA CREEK ROCKERY REPAIR		
<b>PROJECT LOCATION</b>	NE 129th Place east of 100th Ave NE	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		2012	Existing Project

<b>DESCRIPTION/JUSTIFICATION</b>			
Repair streambank rockery damaged during the December 2007 Storm.			

<b>REASON FOR MODIFICATION (WHERE APPLICABLE)</b>			

<b>POLICY BASIS</b>	<b>METHOD OF FINANCING (%)</b>
Surface Water Comprehensive Plan	Current Revenue 100 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 0 %

<b>CAPITAL COSTS</b>	Prior Year(s)	2011	2012	2013	2014	2015	2016	<b>2011-2016 TOTAL</b>	Future Year(s)	<b>Total Project</b>
Planning/Design/Engineering	0	0	86,700	10,500	0	0	0	97,200	0	97,200
In-House Professional Svcs.	0	0	28,800	9,600	0	0	0	38,400	0	38,400
Land Acquisition	0	0	0	0	0	0	0	0	0	0
Construction	0	0	0	203,200	0	0	0	203,200	0	203,200
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	0	0	115,500	223,300	0	0	0	338,800	0	338,800
<b>NEW MAINT. AND OPER.</b>	0	0	0	0	0	0	0	0	0	0
<b>NEW FTE</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0067 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	NE 129TH PLACE/JUANITA CREEK ROCKERY REPAIR
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>Minor. Work can be accomplished by closing one lane of a residential collector street.</i>
Community economic impacts	<i>Project will maintain stability of the street and associated access.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Project will stabilize streambank, thus preventing erosion.</i>
Responds to an urgent need or opportunity	<i>Rockery was damaged by a large rainstorm and now is vulnerable to further damage.</i>
Feasibility, including public support and project readiness	<i>Project will require extensive local State and Federal permitting.</i>
Conforms to legal or contractual obligations	<i>Protects City infrastructure.</i>
Responds to state and/or federal mandate	<i>Project may include minor habitat improvements for salmon and trout and is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>None identified</i>
Implications of deferring the project	<i>Continued erosion may threaten stability of the street and will deliver fine sediment to the stream.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>North Juanita</i> Is there a specific reference to this project or land use in the immediate vicinity? <i>No</i> How does the project conform to such references? <i>Not applicable</i> Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0072 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	TOTEM LAKE SURFACE WATER OPPORTUNITY PROGRAM		
<b>PROJECT LOCATION</b>	The Eastside Rail Corridor with in the Totem Lake Neighborhood and surrounding areas.	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		2011	New Project

**DESCRIPTION/JUSTIFICATION**

Establishing a new project that adds \$500,000 in surface water utility revenue identified for surface water projects in the Totem Lake area that would utilize the right-of-way offered by the acquisition of the Eastside Rail Corridor Trail Acquisition.

**REASON FOR MODIFICATION (WHERE APPLICABLE)**

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<b>POLICY BASIS</b>	<b>METHOD OF FINANCING (%)</b>
Current service and/or functional objectives	Current Revenue 100 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 0 %

<b>CAPITAL COSTS</b>	Prior Year(s)	2011	2012	2013	2014	2015	2016	<b>2011-2016 TOTAL</b>	Future Year(s)	<b>Total Project</b>
Planning/Design/Engineering	0	100,000	0	0	0	0	0	100,000	0	100,000
In-House Professional Svcs.	0	50,000	0	0	0	0	0	50,000	0	50,000
Land Acquisition	0	50,000	0	0	0	0	0	50,000	0	50,000
Construction	0	300,000	0	0	0	0	0	300,000	0	300,000
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	0	500,000	0	0	0	0	0	500,000	0	500,000
<b>NEW MAINT. AND OPER.</b>	0	0	0	0	0	0	0	0	0	0
<b>NEW FTE</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0072 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	TOTEM LAKE SURFACE WATER OPPORTUNITY PROGRAM
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>Minimal.</i>
Community economic impacts	<i>Project will reduce the frequency and severity of flooding resulting in fewer road closures.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Parts of the Totem Lake Area is prone to flooding during heavy rainfall events. This project will provide the City with the ability to study, design and construct improvements as deemed appropriate to resolve future flooding issues that have had adverse impacts on adjacent properties.</i>
Responds to an urgent need or opportunity	<i>Flood frequency has increased over the years because there is less storage in the lake due to the elevated water level.</i>
Feasibility, including public support and project readiness	<i>This project would lead to increased stormwater conveyance and lessen storm water flooding issues..</i>
Conforms to legal or contractual obligations	<i>Not applicable</i>
Responds to state and/or federal mandate	<i>Not applicable.</i>
Benefits to other capital projects	<i>Would benefit transportation in the area, enhancing redevelopment opportunities for the Totem Lake Mall and surrounding areas.</i>
Implications of deferring the project	<i>Continued localized flooding..</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>Totem Lake, North Juanita</i> Is there a specific reference to this project or land use in the immediate vicinity? <i>No</i> How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input checked="" type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0073 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	FORBES CREEK SURFACE WATER OPPORTUNITY PROGRAM		
<b>PROJECT LOCATION</b>	The Eastside Rail Corridor in the area of Forbes Creek, in the Everest and Moss Bay Neighborhoods.	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		2011	New Project

<b>DESCRIPTION/JUSTIFICATION</b>	
Establishing a new project that adds \$500,000 in surface water utility revenue identified for surface water projects in the area of Forbes Creek that would utilize the right-of-way offered by the acquisition of the Eastside Rail Corridor Trail Acquisition.	

<b>REASON FOR MODIFICATION (WHERE APPLICABLE)</b>

<b>POLICY BASIS</b>	<b>METHOD OF FINANCING (%)</b>
Current service and/or functional objectives	Current Revenue 100 % Reserve 0 % Grants 0 % Other Sources 0 % Debt 0 % Unfunded 0 %

<b>CAPITAL COSTS</b>	Prior Year(s)	2011	2012	2013	2014	2015	2016	<b>2011-2016 TOTAL</b>	Future Year(s)	<b>Total Project</b>
Planning/Design/Engineering	0	100,000	0	0	0	0	0	100,000	0	100,000
In-House Professional Svcs.	0	50,000	0	0	0	0	0	50,000	0	50,000
Land Acquisition	0	50,000	0	0	0	0	0	50,000	0	50,000
Construction	0	300,000	0	0	0	0	0	300,000	0	300,000
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	0	500,000	0	0	0	0	0	500,000	0	500,000
<b>NEW MAINT. AND OPER.</b>	0	0	0	0	0	0	0	0	0	0
<b>NEW FTE</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0073 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	FORBES CREEK SURFACE WATER OPPORTUNITY PROGRAM
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>Minimal.</i>
Community economic impacts	<i>Project will reduce the frequency and severity of flooding resulting in fewer road closures.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Parts of the Totem Lake Area is prone to flooding during heavy rainfall events. This project will provide the City with the ability to study, design and construct improvements as deemed appropriate to resolve future flooding issues that have had adverse impacts on adjacent properties.</i>
Responds to an urgent need or opportunity	<i>Flood frequency has increased over the years because there is less storage in the lake due to the elevated water level.</i>
Feasibility, including public support and project readiness	<i>This project would lead to increased stormwater conveyance and lessen storm water flooding issues..</i>
Conforms to legal or contractual obligations	<i>Not applicable</i>
Responds to state and/or federal mandate	<i>Not applicable.</i>
Benefits to other capital projects	<i>Would benefit transportation in the area, enhancing redevelopment opportunities for the Totem Lake Mall and surrounding areas.</i>
Implications of deferring the project	<i>Continued localized flooding..</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>Everest, Moss Bay</i> Is there a specific reference to this project or land use in the immediate vicinity? <i>No</i> How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input checked="" type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 8888 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	ANNUAL STREAMBANK STABILIZATION PROGRAM		
<b>PROJECT LOCATION</b>	City-wide	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		Ongoing	Modified Project

**DESCRIPTION/JUSTIFICATION**

Goals of the streambank stabilization program are to provide the public benefits of improved water quality and decreased flooding by stabilizing and restoring stream channels which may in many cases be located on private property. Most common stabilization methods will be upstream detention and in-stream stabilization/restoration using bioengineering techniques. Candidate projects under this Annual Program include: SD 0063 - Everest Creek - Slater Ave at Alexander St, SD 0061 - Everest Park Stream Channel/Riparian Enhancements, SD 0045 - Carillon Woods Erosion Control Measures, SD 0062 - Street Flood Control Measures at Kirkland Post Office, SD 0056 - Forbes Creek Ponds Fish Passage/Riparian Plantings and SD 0052 - Forbes Creek/ Slater Ave Embankment Stabilization.

**REASON FOR MODIFICATION (WHERE APPLICABLE)**

An updated priority ranking of the individual Projects within the description above; total cost change from \$223,500 to \$835,400.

**POLICY BASIS**

Surface Water Comprehensive Plan

**METHOD OF FINANCING (%)**

Current Revenue	100 %
Reserve	0 %
Grants	0 %
Other Sources	0 %
Debt	0 %
Unfunded	0 %

<b>CAPITAL COSTS</b>	Prior Year(s)	2011	2012	2013	2014	2015	2016	<b>2011-2016 TOTAL</b>	Future Year(s)	<b>Total Project</b>
Planning/Design/Engineering	0	0	0	0	0	0	0	0	0	0
In-House Professional Svcs.	0	0	0	0	0	0	0	0	0	0
Land Acquisition	0	0	0	0	0	0	0	0	0	0
Construction	0	0	57,700	0	165,800	300,000	311,900	835,400	0	835,400
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	0	0	57,700	0	165,800	300,000	311,900	835,400	0	835,400
<b>NEW MAINT. AND OPER.</b>	0	0	0	0	0	0	0	0	0	0
<b>NEW FTE</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 8888 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	ANNUAL STREAMBANK STABILIZATION PROGRAM
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>Variable - most of the project will be located off City streets.</i>
Community economic impacts	<i>Would protect adjacent and downstream properties from erosion and/or flood damage.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Would improve water quality and reduce potential for flooding.</i>
Responds to an urgent need or opportunity	<i>Project on private property may in many cases provide more cost effective solutions to City-wide problems than solutions constructed entirely within City right of way.</i>
Feasibility, including public support and project readiness	<i>Most projects will require easements from private property owners, and will require Fisheries and Corps of Engineers permits in addition to SEPA review.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Consistent with the intent of the Puget Sound Water Quality Management Plan.</i>
Benefits to other capital projects	<i>Would protect and improve the effectiveness of publicly owned surface water infrastructure by reducing sedimentation and flooding.</i>
Implications of deferring the project	<i>Continued erosion that may cause sedimentation and flood damage.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>City-wide</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 9999 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	ANNUAL STORM DRAIN REPLACEMENT PROGRAM		
<b>PROJECT LOCATION</b>	City-wide	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		Ongoing	Modified Project

**DESCRIPTION/JUSTIFICATION**

Goals of the storm drain replacement program are to provide the public benefits of improved storm water conveyance. Individual projects will come from the prioritized list within the Surface Water Master Plan and through urgent maintenance needs as they may arise. Candidate projects under this Annual Program include: SD 0046 - Regional Detention in Forbes and Juanita Basins, SD 0049 - Forbes Creek/108th Ave NE Fish Passage Improvements, SD 0050 - NE 95th St/126th Ave NE Flood Control Measures, SD 0054 - Forbes Creek/BNSFRR Fish Passage Improvements.

**REASON FOR MODIFICATION (WHERE APPLICABLE)**

An updated priority ranking of the individual Projects within the description above; total cost change from \$1,846,400 to \$2,670,400.

<b>POLICY BASIS</b>	<b>METHOD OF FINANCING (%)</b>
Surface Water Comprehensive Plan	Current Revenue 100 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 0 %

<b>CAPITAL COSTS</b>	Prior Year(s)	2011	2012	2013	2014	2015	2016	<b>2011-2016 TOTAL</b>	Future Year(s)	<b>Total Project</b>
Planning/Design/Engineering	0	0	0	0	0	0	0	0	0	0
In-House Professional Svcs.	0	0	0	0	0	0	0	0	0	0
Land Acquisition	0	0	0	0	0	0	0	0	0	0
Construction	0	0	922,600	0	923,800	474,000	350,000	2,670,400	0	2,670,400
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	0	0	922,600	0	923,800	474,000	350,000	2,670,400	0	2,670,400
<b>NEW MAINT. AND OPER.</b>	0	0	0	0	0	0	0	0	0	0
<b>NEW FTE</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 9999 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	ANNUAL STORM DRAIN REPLACEMENT PROGRAM
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>Minor. Construction access would be via a private street.</i>
Community economic impacts	<i>Little to none.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Failing surface water infrastructure could lead to roadway, stream bank or other property damage. This damage in turn could lead to a decreased community support level for City services and/or claims, accidents, or high cost failures.</i>
Responds to an urgent need or opportunity	<i>The projects arising out of this program will be identified through the priority list within the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>Projects are feasible and will require minimal permitting.</i>
Conforms to legal or contractual obligations	<i>Projects will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Not applicable</i>
Benefits to other capital projects	<i>None identified.</i>
Implications of deferring the project	<i>Increased maintenance commitment, potential system collapse, sedimentation downstream of failed pipe.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>City-wide</i> Is there a specific reference to this project or land use in the immediate vicinity? <i>No</i> How does the project conform to such references? <i>No</i> Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input checked="" type="checkbox"/> Project provides new capacity. Amount of new capacity provided: 20 - 50% <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

Unfunded  
Surface Water Management  
Utility Projects



**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0045 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	CARILLON WOODS EROSION CONTROL MEASURES		
<b>PROJECT LOCATION</b>	Carillon Woods, NE 55th Street at 105th Avenue NE	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		Undetermined	Modified Project

**DESCRIPTION/JUSTIFICATION**

The new Carillon Woods (formerly the King County Water District #1 property) requires further evaluation and the possible establishment of erosion control measures to handle the re-direction of ground water into an established drainage basin situated on the west side of the property. This is a candidate project included as a component of the Annual Annual Streambank Stabilization Program Project, SD 8888.

**REASON FOR MODIFICATION (WHERE APPLICABLE)**

Project identified as potential candidate for SD 8888 - Annual Streambank Stabilization Program Project.

<b>POLICY BASIS</b>	<b>METHOD OF FINANCING (%)</b>
Surface Water Comprehensive Plan <i>CA-1</i>	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

<b>CAPITAL COSTS</b>	<b>COSTS TO BE FUNDED</b>
Planning/Design/Engineering	142,800
In-House Professional Svcs.	69,100
Land Acquisition	0
Construction	337,700
Computer Hardware/Software	0
Equipment	0
Other Services	0
<b>Total</b>	<b>549,600</b>
<b>NEW MAINT. AND OPER.</b>	<b>0</b>
<b>NEW FTE</b>	<b>0.00</b>

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0045 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	CARILLON WOODS EROSION CONTROL MEASURES
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>None; project entirely within Park area that is currently off limits to the public.</i>
Community economic impacts	<i>Depending on solution will reduce maintenance costs.</i>
Health and safety, environmental, aesthetic, or social effects	<i>If allowed to go unchecked, existing spring water could lead to erosion and/or other environmental issues.</i>
Responds to an urgent need or opportunity	<i>The results of removing this source of water for the Point communities is not yet known. Monitoring will establish the need and scope of the improvements.</i>
Feasibility, including public support and project readiness	<i>Design/solution is pending.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>A more monitored and consistent water supply was required for the Point communities; the resulting surplus of ground water from these springs will revert to natural conditions. Alternative solutions will need to meet the Department of Ecology requirements.</i>
Benefits to other capital projects	<i>None at this time.</i>
Implications of deferring the project	<i>Unknown at this time.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>Central Houghton</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0046 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	REGIONAL DETENTION IN FORBES AND JUANITA CREEK BASINS		
<b>PROJECT LOCATION</b>	Various locations along Forbes and Juanita Creeks	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		Undetermined	Modified Project

**DESCRIPTION/JUSTIFICATION**

The establishment of in-line ponds within both Forbes and Juanita Creeks to provide for detention, sediment control and flood prevention in connection with both public construction and private development activities. Siting of these facilities will be dependent on development patterns and will require that staff monitor private and public development. This is a candidate project included as a component of the Annual Storm Drain Replacement Program Project, SD 9999.

**REASON FOR MODIFICATION (WHERE APPLICABLE)**

Project identified as potential candidate for SD 9999 - Annual Storm Drain Replacement Program Project.

<b>POLICY BASIS</b>	<b>METHOD OF FINANCING (%)</b>
Surface Water Comprehensive Plan <i>CW-1</i>	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

<b>CAPITAL COSTS</b>	<b>COSTS TO BE FUNDED</b>
Planning/Design/Engineering	747,800
In-House Professional Svcs.	358,700
Land Acquisition	0
Construction	1,703,700
Computer Hardware/Software	0
Equipment	0
Other Services	0
<b>Total</b>	<b>2,810,200</b>
<b>NEW MAINT. AND OPER.</b>	<b>0</b>
<b>NEW FTE</b>	<b>0.00</b>

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0046 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	REGIONAL DETENTION IN FORBES AND JUANITA CREEK BASINS
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>Depending on actual siting of facilities.</i>
Community economic impacts	<i>Detention will improve overall drainage system by reducing flooding, erosion and overall degradation of the system. Partnership opportunities will be available that could allow private development and public resources to coordinate and reduce overall cost to system improvements.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Depending on actual siting of facilities.</i>
Responds to an urgent need or opportunity	<i>Continued development and the reduction of open space limits and or eliminates the opportunity to reduce surface water flows. Current standards can only be incorporated during redevelopment and or new construction – this project will allow implementation of community goals as outlined in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>Depending on actual siting of facilities.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Detention standards are mandated and enforced by the Department of Ecology along with other regulatory agencies; drainages into Lake Washington are critical in the overall efforts to enhance fish and environmental habitat.</i>
Benefits to other capital projects	<i>Depending on actual siting of facilities.</i>
Implications of deferring the project	<i>Continued degradation of drainage system and potential loss of opportunities for retrofit of outdated systems.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>City-wide</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input checked="" type="checkbox"/> Project provides new capacity. Amount of new capacity provided: will be site dependent <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0048 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	COCHRAN SPRINGS / LAKE WASHINGTON BLVD CROSSING ENHANCEMENT		
<b>PROJECT LOCATION</b>	3700 Block of Lake Washington Boulevard at Cochran Springs Creek	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		Undetermined	Modified Project

**DESCRIPTION/JUSTIFICATION**

Sedimentation deposits in the channel downstream of this culvert results in backwater conditions and sedimentation presenting an ongoing maintenance task for City crews. The backwater condition impedes the culvert's capacity to convey large peak events. Additionally, sediment deposition downstream of Lake Washington Boulevard increases the risk of overbank flooding water in the Yarrow Bay business park. Improving fish passage at the culvert will allow access to approximately 375 feet of breeding and rearing habitat. Increasing the culvert's flow capacity will reduce the risk of flooding on Lake Washington Boulevard.

**REASON FOR MODIFICATION (WHERE APPLICABLE)**

Project cost changed from \$1,627,100 to \$1,637,100 due to revised estimates.

<b>POLICY BASIS</b>	<b>METHOD OF FINANCING (%)</b>
Surface Water Comprehensive Plan <i>CO-01</i>	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

<b>CAPITAL COSTS</b>	<b>COSTS TO BE FUNDED</b>
Planning/Design/Engineering	349,100
In-House Professional Svcs.	449,200
Land Acquisition	0
Construction	838,800
Computer Hardware/Software	0
Equipment	0
Other Services	0
<b>Total</b>	<b>1,637,100</b>
<b>NEW MAINT. AND OPER.</b>	<b>0</b>
<b>NEW FTE</b>	<b>0.00</b>

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0048 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	COCHRAN SPRINGS / LAKE WASHINGTON BLVD CROSSING ENHANCEMENT
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<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>The preferred alternative for this project would require closure and detours on Lake Washington Boulevard which handles approximately 25,000 vehicles per day including transit, residential, commuting traffic, and business services. It is anticipated that the installation of the bottomless culvert would require closure of approximately two weeks and require a dedicated detour.</i>
Community economic impacts	<i>The closure during construction will have a temporary economic impact to drivers and possibly surrounding businesses. The long-term impact of continued sedimentation would contribute to seasonal flooding of the Boulevard which would have disruptive impacts to drivers.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Localized flooding and environmental degradation will continue if the sedimentation along this stretch of Cochran Creek is not addressed. Available fish habitat would be enhanced with the projects.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>The preferred alternative will require significant permitting, community information, and a significant detour/traffic control plan in order to be successful.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>None identified.</i>
Implications of deferring the project	<i>Continued sedimentation, loss of habitat, and potential flooding of Lake Washington Boulevard and surrounding commercial properties.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>Lakeview</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input checked="" type="checkbox"/> Project provides new capacity. Amount of new capacity provided: approximately 30-40% <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0049 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	FORBES CREEK / 108TH AVENUE NE FISH PASSAGE IMPROVEMENTS		
<b>PROJECT LOCATION</b>	108th Ave NE, between Forbes Creek Drive and NE 108th Street at Forbes Creek	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		Undetermined	Modified Project

**DESCRIPTION/JUSTIFICATION**

108th Avenue NE is elevated above Forbes Creek and the adjacent wetlands. Curbs on both sides of the road appear to prevent street runoff from draining to the stream resulting in standing water on the road during storm events. The existing dual 36-inch corrugated metal pipe culverts also have created a barrier to fish passage. The culverts are located in a depositional area of Forbes Creek resulting in one of the two culverts filling with sediment, restricting fish passage. This is a candidate project included as a component of the Annual Storm Drain Replacement Program Project, SD 9999.

**REASON FOR MODIFICATION (WHERE APPLICABLE)**

Project identified as potential candidate for SD 9999 - Annual Storm Drain Replacement Program Project.

<b>POLICY BASIS</b>	<b>METHOD OF FINANCING (%)</b>
Surface Water Comprehensive Plan <i>FO-01</i>	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

<b>CAPITAL COSTS</b>	<b>COSTS TO BE FUNDED</b>
Planning/Design/Engineering	86,500
In-House Professional Svcs.	41,800
Land Acquisition	0
Construction	204,600
Computer Hardware/Software	0
Equipment	0
Other Services	0
<b>Total</b>	<b>332,900</b>
<b>NEW MAINT. AND OPER.</b>	<b>0</b>
<b>NEW FTE</b>	<b>0.00</b>

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0049 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	FORBES CREEK / 108TH AVENUE NE FISH PASSAGE IMPROVEMENTS
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>During construction, anticipated to last 2-3 weeks, alternate routes for the residents living north of Forbes Creek along 108th Ave NE will be required.</i>
Community economic impacts	<i>Overall maintenance costs will be reduced.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Localized flooding and environmental degradation will continue if the sedimentation along this stretch of Forbes Creek is not addressed. Available fish habitat would be enhanced with the projects.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>Project timing will be coordinated with other utility projects (WA 0101 and SS 0062).</i>
Implications of deferring the project	<i>Continued flooding events.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>South Juanita</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input checked="" type="checkbox"/> Project provides new capacity. Amount of new capacity provided: approximately 30-40% <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0050 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	NE 95TH STREET / 126TH AVENUE NE FLOOD CONTROL MEASURES		
<b>PROJECT LOCATION</b>	9400 block of 126th Ave NE	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		Undetermined	Modified Project

**DESCRIPTION/JUSTIFICATION**

Water in a tributary to Forbes Creek backs up under NE 95th Street during storm events causing minor flooding within the crawl space of a home located at 9432 126th Ave NE. The most cost-effective solution to alleviate the flooding is to construct a berm that extends along the low lying area adjacent to the affected property. The length of the berm must be long enough to ensure that water will not flow around it. This is a candidate project included as a component of the Annual Storm Drain Replacement Program Project, SD 9999.

**REASON FOR MODIFICATION (WHERE APPLICABLE)**

Project identified as potential candidate for SD 9999 - Annual Storm Drain Replacement Program Project.

<b>POLICY BASIS</b>	<b>METHOD OF FINANCING (%)</b>
Surface Water Comprehensive Plan <i>FO-03</i>	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

<b>CAPITAL COSTS</b>	<b>COSTS TO BE FUNDED</b>
Planning/Design/Engineering	21,300
In-House Professional Svcs.	6,000
Land Acquisition	0
Construction	28,600
Computer Hardware/Software	0
Equipment	0
Other Services	0
<b>Total</b>	<b>55,900</b>
<b>NEW MAINT. AND OPER.</b>	<b>0</b>
<b>NEW FTE</b>	<b>0.00</b>

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0050 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	NE 95TH STREET / 126TH AVENUE NE FLOOD CONTROL MEASURES
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>This project will possibly require traffic detours and or delays during construction periods anticipated to last two to three weeks.</i>
Community economic impacts	<i>The improvements will allow City crews to reduce the required maintenance efforts.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Localized flooding and environmental degradation will continue if the sedimentation along this tributary to Forbes Creek is not addressed. Available fish habitat would be enhanced with the projects.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>A number of projects have been identified in the Forbes Creek basin, this is one element of those improvements.</i>
Implications of deferring the project	<i>Continued localized flood events are possible.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>North Rose Hill</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input checked="" type="checkbox"/> Project provides new capacity. Amount of new capacity provided: approximately 20-30% <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0052 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	FORBES CREEK / SLATER AVENUE EMBANKMENT STABILIZATION		
<b>PROJECT LOCATION</b>	Driveway crossing at 10041 Slater Ave NE	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		Undetermined	Modified Project

<b>DESCRIPTION/JUSTIFICATION</b>			
Private stream crossing is deteriorating. Additional deterioration of culvert may result in fish passage impediment. Replacement crossing shall consist of a bottomless arch culvert. This project will reduce the risk of fish passage impediment and/or flooding caused by the current deteriorated crossing. This is a candidate project included as a component of the Annual Streambank Stabilization Program Project, SD 8888.			

<b>REASON FOR MODIFICATION (WHERE APPLICABLE)</b>			
Project identified as potential candidate for SD 8888 - Annual Streambank Stabilization Program Project.			

<b>POLICY BASIS</b>	<b>METHOD OF FINANCING (%)</b>	
Surface Water Comprehensive Plan <i>FO-06</i>	Current Revenue	0 %
	Reserve	0 %
	Grants	0 %
	Other Sources	0 %
	Debt	0 %
	Unfunded	100 %

<b>CAPITAL COSTS</b>	<b>COSTS TO BE FUNDED</b>
Planning/Design/Engineering	36,300
In-House Professional Svcs.	17,600
Land Acquisition	0
Construction	85,800
Computer Hardware/Software	0
Equipment	0
Other Services	0
<b>Total</b>	139,700
<b>NEW MAINT. AND OPER.</b>	0
<b>NEW FTE</b>	0.00

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0052 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	FORBES CREEK / SLATER AVENUE EMBANKMENT STABILIZATION
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>Driveway access to one private resident.</i>
Community economic impacts	<i>N/A</i>
Health and safety, environmental, aesthetic, or social effects	<i>Project will reduce the fish impediment along this stretch of Forbes Creek.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the resident will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>A number of projects are identified in the Forbes Creek basin; this is one element of those improvements.</i>
Implications of deferring the project	<i>Erosion and flooding continue.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>North Rose Hill</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input checked="" type="checkbox"/> Project provides new capacity. Amount of new capacity provided: approximately 30-50% <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0054 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	FORBES CREEK / BNSFRR FISH PASSAGE IMPROVEMENTS		
<b>PROJECT LOCATION</b>	Forbes Creek crossing under the BNSFRR behind the business located at 10830 117th Ave NE	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		Undetermined	Modified Project

**DESCRIPTION/JUSTIFICATION**

The grade of the existing culverts passing under an abandoned railroad spur and then under active railroad track is too great, creating an impediment to fish passage. Restore open channel under abandoned rail spur and replace culvert under active railroad. These improvements will improve fish passage to upstream habitat. This is a candidate project included as a component of the Annual Storm Drain Replacement Program Project, SD 9999.

**REASON FOR MODIFICATION (WHERE APPLICABLE)**

Project identified as potential candidate for SD 9999 - Annual Storm Drain Replacement Program Project.

<b>POLICY BASIS</b>	<b>METHOD OF FINANCING (%)</b>
Surface Water Comprehensive Plan	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

<b>CAPITAL COSTS</b>	<b>COSTS TO BE FUNDED</b>
Planning/Design/Engineering	110,200
In-House Professional Svcs.	53,300
Land Acquisition	0
Construction	260,700
Computer Hardware/Software	0
Equipment	0
Other Services	0
<b>Total</b>	<b>424,200</b>
<b>NEW MAINT. AND OPER.</b>	<b>0</b>
<b>NEW FTE</b>	<b>0.00</b>

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0054 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	FORBES CREEK / BNSFRR FISH PASSAGE IMPROVEMENTS
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>Permitting and coordination will be required with the Burlington Northern Sante Fe railroad. No anticipated public impacts.</i>
Community economic impacts	<i>Would reduce the potential for property damage, localized flooding, channel migration/incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Improvements to Forbes Creek fish habitat are enhanced with these improvements.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>A number of projects are identified in the Forbes Creek basin; this is one element of those improvements.</i>
Implications of deferring the project	<i>Continued flooding, sedimentation, channel migration/incision, habitat degradation, reduction of downstream conveyance capacity, damage to downstream capital projects and possible violations of state and/or federal stormwater regulations.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>South Juanita</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input checked="" type="checkbox"/> Project provides new capacity. Amount of new capacity provided: approximately 30-50% <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0055 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	FORBES CREEK / 98TH AVENUE NE RIPARIAN PLANTINGS		
<b>PROJECT LOCATION</b>	Along Forbes Creek, upstream from the 98th Ave NE bridge	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		Undetermined	Existing Project

<b>DESCRIPTION/JUSTIFICATION</b>	
Riparian vegetation is lacking along Forbes Creek, upstream from the 98th Ave NE bridge. Plant trees and understory shrubs between the bridge and 550 feet upstream of the bridge. Planting will provide shading for the stream, which will reduce water temperature impacts.	

<b>REASON FOR MODIFICATION (WHERE APPLICABLE)</b>

<b>POLICY BASIS</b>	<b>METHOD OF FINANCING (%)</b>
Surface Water Comprehensive Plan	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

<b>CAPITAL COSTS</b>	<b>COSTS TO BE FUNDED</b>
Planning/Design/Engineering	0
In-House Professional Svcs.	12,800
Land Acquisition	0
Construction	62,700
Computer Hardware/Software	0
Equipment	0
Other Services	0
<b>Total</b>	75,500
<b>NEW MAINT. AND OPER.</b>	0
<b>NEW FTE</b>	0.00

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0055 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	FORBES CREEK / 98TH AVENUE NE RIPARIAN PLANTINGS
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>None.</i>
Community economic impacts	<i>Would reduce the potential for property damage, loss of business and road closures due to localized flooding, channel migration/incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Proposed riparian and channel enhancements would provide aquatic, terrestrial and avian habitat benefits as well as aesthetically pleasing community green/open space. The location of this project would provide the opportunity for public education relating to natural resources stewardship and stormwater quality.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>A number of projects are identified in the Forbes Creek basin; this is one element of those improvements.</i>
Implications of deferring the project	<i>Continued flooding, sedimentation, channel migration/incision, habitat degradation, reduction of downstream conveyance capacity, damage to downstream capital projects and possible violations of state and/or federal stormwater regulations.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>South Juanita</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0056 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	FORBES CREEK PONDS FISH PASSAGE / RIPARIAN PLANTINGS		
<b>PROJECT LOCATION</b>	Backyard of the private residence located at 12055 NE 100th St	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		Undetermined	Modified Project

**DESCRIPTION/JUSTIFICATION**

Area surrounding two in-line ponds is poorly vegetated, resulting in heating of standing water. Trash rack grate at pond outlet prevents fish passage. Remove or replace trash rack grate. Plant riparian vegetation in and around ponds. These improvements will reduce temperatures and improve fish passage in Forbes Creek. This is a candidate project included as a component of the Annual Streambank Stabilization Program Project, SD 8888.

**REASON FOR MODIFICATION (WHERE APPLICABLE)**

Project identified as potential candidate for SD 8888 - Annual Streambank Stabilization Program Project.

<b>POLICY BASIS</b>	<b>METHOD OF FINANCING (%)</b>
Surface Water Comprehensive Plan <i>FO-11</i>	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

<b>CAPITAL COSTS</b>	<b>COSTS TO BE FUNDED</b>
Planning/Design/Engineering	55,300
In-House Professional Svcs.	26,800
Land Acquisition	0
Construction	130,900
Computer Hardware/Software	0
Equipment	0
Other Services	0
<b>Total</b>	213,000
<b>NEW MAINT. AND OPER.</b>	0
<b>NEW FTE</b>	0.00

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0056 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	FORBES CREEK PONDS FISH PASSAGE / RIPARIAN PLANTINGS
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>None.</i>
Community economic impacts	<i>Would reduce the potential for property damage, loss of business and road closures due to localized flooding, channel migration/incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Would reduce flooding, sedimentation, channel migration/incision associated health, safety and the above community impacts. Proposed riparian and channel enhancements would provide aquatic, terrestrial and avian habitat benefits as well as aesthetically pleasing community green/open space. The location of this project would provide the opportunity for public education relating to natural resources stewardship and stormwater quality.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>A number of projects are identified in the Forbes Creek basin; this is one element of those improvements.</i>
Implications of deferring the project	<i>Continued flooding, sedimentation, channel migration/incision, habitat degradation, reduction of downstream conveyance capacity, damage to downstream capital projects and possible violations of state and/or federal stormwater regulations.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>South Juanita</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0061 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	EVEREST PARK STREAM CHANNEL / RIPARIAN ENHANCEMENTS		
<b>PROJECT LOCATION</b>	Everest Park, adjacent to 10th Street South	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		Undetermined	Modified Project

**DESCRIPTION/JUSTIFICATION**

Channel downcutting, unstable banks, poor quality riparian vegetation, and invasive vegetation will be minimized through the installation of 12 grade control log-boulder channel structures together with bioengineering methods employed to stabilize the streambanks. The blackberries are to be removed with trees and understory shrubs being planted along a 50-foot riparian planting zone for 1000 feet of channel. This is a candidate project included as a component of the Annual Streambank Stabilization Program Project, SD 8888.

**REASON FOR MODIFICATION (WHERE APPLICABLE)**

Project identified as potential candidate for SD 8888 - Annual Streambank Stabilization Program Project.

<b>POLICY BASIS</b>	<b>METHOD OF FINANCING (%)</b>	
Surface Water Comprehensive Plan	Current Revenue	0 %
	Reserve	0 %
	Grants	0 %
	Other Sources	0 %
	Debt	0 %
	Unfunded	100 %

<b>CAPITAL COSTS</b>	<b>COSTS TO BE FUNDED</b>
Planning/Design/Engineering	284,600
In-House Professional Svcs.	137,700
Land Acquisition	0
Construction	673,200
Computer Hardware/Software	0
Equipment	0
Other Services	0
<b>Total</b>	<b>1,095,500</b>
<b>NEW MAINT. AND OPER.</b>	<b>0</b>
<b>NEW FTE</b>	<b>0.00</b>

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0061 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	EVEREST PARK STREAM CHANNEL / RIPARIAN ENHANCEMENTS
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>Stretches of this stream are located within Everest Park and as such will require design/construction to avoid peak activity periods. Coordination with the Parks and Community Services schedule of events will be developed during the design process. A public pedestrian easement will be utilized for construction access and alternatives will need to be developed for pedestrians impacted by the construction activities.</i>
Community economic impacts	<i>Would reduce the potential for property damage, loss of business and road closures due to localized flooding, channel migration/incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Would reduce flooding, sedimentation, channel migration/incision associated health, safety and the above community impacts. Proposed riparian and channel enhancements would provide aquatic, terrestrial and avian habitat benefits as well as aesthetically pleasing community green/open space. The location of this project would provide the opportunity for public education relating to natural resources stewardship and stormwater quality.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>None at this time.</i>
Implications of deferring the project	<i>Continued flooding, sedimentation, channel migration/incision, habitat degradation, reduction of downstream conveyance capacity, damage to downstream capital projects and possible violations of state and/or federal stormwater regulations.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>Everest</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0062 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	STREAM FLOOD CONTROL MEASURES AT KIRKLAND POST OFFICE		
<b>PROJECT LOCATION</b>	Post Office Creek, adjacent to the Post Office parking lot near 10th Street at 5th Avenue	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		Undetermined	Modified Project

**DESCRIPTION/JUSTIFICATION**

Flooding of business park property along Post Office Creek, above the Kirkland Post Office property, has occurred due to heavy weed/grass growth in the channel, a 90-degree channel turn and an undersized culvert. The channel also has poorly vegetated banks and requires ongoing dredging. This project will improve or remove the culvert under the Post Office property fence, improve riparian vegetation along the reach upstream of the culvert, remove blackberries and weeds, and replant native vegetation in an effort to reduce the frequency and magnitude of flooding, and eliminate the need for future dredging. This is a candidate project included as a component of the Annual Streambank Stabilization Program Project, SD 8888.

**REASON FOR MODIFICATION (WHERE APPLICABLE)**

Project identified as potential candidate for SD 8888 - Annual Streambank Stabilization Program Project.

**POLICY BASIS**

Surface Water Comprehensive Plan

**METHOD OF FINANCING (%)**

Current Revenue	0 %
Reserve	0 %
Grants	0 %
Other Sources	0 %
Debt	0 %
Unfunded	100 %

<b>CAPITAL COSTS</b>	<b>COSTS TO BE FUNDED</b>
Planning/Design/Engineering	89,700
In-House Professional Svcs.	43,400
Land Acquisition	0
Construction	212,300
Computer Hardware/Software	0
Equipment	0
Other Services	0
<b>Total</b>	<b>345,400</b>
<b>NEW MAINT. AND OPER.</b>	<b>0</b>
<b>NEW FTE</b>	<b>0.00</b>

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0062 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	STREAM FLOOD CONTROL MEASURES AT KIRKLAND POST OFFICE
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>This creek runs adjacent to a public pedestrian pathway that would necessitate closure during construction that is anticipated to last approximately three to four weeks; alternate routes are located nearby.</i>
Community economic impacts	<i>Would reduce the potential for property damage, loss of business and road closures due to localized flooding, channel migration/incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Localized flooding and environmental degradation will continue if the sedimentation along this stretch of an unnamed creek is not addressed. Proposed riparian and channel enhancements would provide aquatic, terrestrial and avian habitat benefits as well as aesthetically pleasing community green/open space. The location of this project would provide the opportunity for public education relating to natural resources stewardship and stormwater quality.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>None identified.</i>
Implications of deferring the project	<i>Continued flooding, sedimentation, channel migration/incision, habitat degradation, reduction of downstream conveyance capacity, damage to downstream capital projects and possible violations of state and/or federal stormwater regulations.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>Moss Bay</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0063 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	EVEREST CREEK - SLATER AVENUE AT ALEXANDER STREET		
<b>PROJECT LOCATION</b>	Slater Avenue and Alexander Street	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		2008	Modified Project

**DESCRIPTION/JUSTIFICATION**

Flow enters this small ravine from an approximately 135 acre upstream basin via a pipe. Severe erosion around the pipe outlet has de-stabilized a road near the ravine, and sends large quantities of sand to downstream reaches of the creek, which results in increased maintenance needs in Everest Park. Installation of a highflow bypass and/or other stabilization features will prevent further damage to the road, and will reduce delivery of sediment to downstream areas thus reducing maintenance needs. This project is a potential candidate for the Annual Streambank Stabilization Program Project (SD 8888).

**REASON FOR MODIFICATION (WHERE APPLICABLE)**

Project identified as potential candidate for SD 8888 - Annual Streambank Stabilization Program Project.

<b>POLICY BASIS</b>	<b>PRIOR YEAR(S) BUDGET TO ACTUALS</b>	<b>METHOD OF FINANCING (%)</b>	
Current service and/or functional objectives		Current Revenue	0 %
Surface Water Comprehensive Plan	Budget \$120,200	Reserve	0 %
	Actual \$1,359	Grants	0 %
	Balance \$118,841	Other Sources	0 %
		Debt	0 %
		Unfunded	100 %

<b>CAPITAL COSTS</b>	<b>COSTS TO BE FUNDED</b>
Planning/Design/Engineering	126,700
In-House Professional Svcs.	119,500
Land Acquisition	0
Construction	584,100
Computer Hardware/Software	0
Equipment	0
Other Services	0
<b>Total</b>	<b>830,300</b>
<b>NEW MAINT. AND OPER.</b>	<b>0</b>
<b>NEW FTE</b>	<b>0.00</b>

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0063 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	EVEREST CREEK - SLATER AVENUE AT ALEXANDER STREET
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>During construction of this project, adjacent property owners and motorists will be impacted by construction equipment and possible traffic detours.</i>
Community economic impacts	<i>Would reduce the potential fro property damage and road closures due to localized flooding, channel incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Would reduce flooding, sedimentation, channel migration/incision associated health, safety and the above community impacts.</i>
Responds to an urgent need or opportunity	<i>Ravine is inherently unstable as it has highly erosive soils in a high seismic hazard area. It is difficult to predict when or if the walls of the ravine will collapse, but the damage that would occur if this were to happen is significant. Because of this uncertainty, there is a somewhat urgent need for this project.</i>
Feasibility, including public support and project readiness	<i>Access to the project area is relatively easy, and public support would likely by high. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Project would improve water quality by reducing sediment delivery to Lake Washington. Several species listed under the Federal Endangered Species Act live in Lake Washington. The City is obligated to protect these species by improving the quality of water that flows to Lake Washington.</i>
Benefits to other capital projects	<i>May reduce the required scope of SD-0061 as sediment delivery will be reduced.</i>
Implications of deferring the project	<i>Ravine is unstable. Deferring the project may increase the likelihood of ravine collapse.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>Moss Bay</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0068 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	128TH AVE NE/NE 60TH STREET TO NE 64TH STREET DRAINAGE IMPROVEMENTS		
<b>PROJECT LOCATION</b>	128th Avenue NE between NE 60th and NE 64th Streets	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		Undetermined	Existing Project

<b>DESCRIPTION/JUSTIFICATION</b>	
<p>Flooding of several homes occurs during large storm events due to a nearby drainage system that has deadends. This project will modify the system to either drain to the north, or to store and infiltrate water to reduce flooding.</p>	

<b>REASON FOR MODIFICATION (WHERE APPLICABLE)</b>

<b>POLICY BASIS</b>	<b>METHOD OF FINANCING (%)</b>
Surface Water Comprehensive Plan	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

<b>CAPITAL COSTS</b>	<b>COSTS TO BE FUNDED</b>
Planning/Design/Engineering	70,200
In-House Professional Svcs.	34,000
Land Acquisition	0
Construction	166,100
Computer Hardware/Software	0
Equipment	0
Other Services	0
<b>Total</b>	270,300
<b>NEW MAINT. AND OPER.</b>	0
<b>NEW FTE</b>	0.00

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0068 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	128TH AVE NE/NE 60TH STREET TO NE 64TH STREET DRAINAGE IMPROVEMENTS
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>Little to none. Project is adjacent to City right of way on a low-traffic street</i>
Community economic impacts	<i>Little to none.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Project will prevent flooding of homes. Project may use low impact development features, which are aesthetically pleasing and which encourage infiltration of stormwater.</i>
Responds to an urgent need or opportunity	<i>Flooding occurs during large storm events, so urgency of project depends on weather patterns.</i>
Feasibility, including public support and project readiness	<i>Project is feasible. City will need to work with neighbors to develop a project that meets aesthetic as well as flood-reduction needs.</i>
Conforms to legal or contractual obligations	<i>Project will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Not applicable</i>
Benefits to other capital projects	<i>None identified.</i>
Implications of deferring the project	<i>Flooding will continue to occur at the same frequency and magnitude.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>Bridle Trails</i> Is there a specific reference to this project or land use in the immediate vicinity? <i>No</i> How does the project conform to such references? <i>Not applicable</i> Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input checked="" type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0070 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	JUANITA CREEK WATERSHED ENHANCEMENT STUDY		
<b>PROJECT LOCATION</b>	Juanita Creek Watershed	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		Undetermined	Existing Project

**DESCRIPTION/JUSTIFICATION**

This project is to identify opportunities for habitat restoration, especially in partnership with private parties that have an interest in constructed bank stabilization projects, and to review projects that are in proximity to each other to facilitate State and Federal permitting.

**REASON FOR MODIFICATION (WHERE APPLICABLE)**

<b>POLICY BASIS</b>	<b>METHOD OF FINANCING (%)</b>
Surface Water Comprehensive Plan	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

<b>CAPITAL COSTS</b>	<b>COSTS TO BE FUNDED</b>
Planning/Design/Engineering	35,000
In-House Professional Svcs.	15,000
Land Acquisition	0
Construction	0
Computer Hardware/Software	0
Equipment	0
Other Services	0
<b>Total</b>	<b>50,000</b>
<b>NEW MAINT. AND OPER.</b>	<b>0</b>
<b>NEW FTE</b>	<b>0.00</b>

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0070 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	JUANITA CREEK WATERSHED ENHANCEMENT STUDY
<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>None</i>
Community economic impacts	<i>May identify projects where public habitat restoration funds can be leveraged through partnerships with private land owners</i>
Health and safety, environmental, aesthetic, or social effects	<i>Would identify projects to improve fish habitat and water quality.</i>
Responds to an urgent need or opportunity	<i>Many land owners along Juanita Creek experienced bank erosion during the December 2007 storm, and are interested in pursuing stabilization projects.</i>
Feasibility, including public support and project readiness	<i>Project is a study. Public support would be one criteria used in prioritizing projects identified through the study.</i>
Conforms to legal or contractual obligations	<i>Addresses fish habitat restoration, which is a City obligation under the WRIA 8 Chinook Salmon Conservation Plan as adopted by the City Council.</i>
Responds to state and/or federal mandate	<i>Project is consistent with State and Federal mandates to protect and restore fish habitat.</i>
Benefits to other capital projects	<i>Project will unify an approach and goals for projects and will leverage City funds. Project will prepare City to leverage funds through grants. Project will coordinate with Juanita Basin Retrofitting Ecology grant project being conducted in partnership with King County and WSDOT.</i>
Implications of deferring the project	<i>Project list will be more fractured, and opportunities for partnering with private land owners may be lost.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>South Juanita, North Juanita</i> Is there a specific reference to this project or land use in the immediate vicinity? <i>No</i> How does the project conform to such references? <i>No</i> Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input checked="" type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND  
CAPITAL IMPROVEMENT PROGRAM  
2011 TO 2016**

<b>PROJECT #</b>	<b>SD 0537 000</b>
<b>DEPARTMENT</b>	Public Works
<b>DEPARTMENT CONTACT</b>	Ray Steiger

<b>PROJECT TITLE</b>	STREAMBANK STABILIZATION PROGRAM – NE 86TH STREET		
<b>PROJECT LOCATION</b>	NE 86th Street east of 128th Avenue NE, and NE 86th and NE 87th Street, west of 128th Avenue NE	<b>PROJECT START</b>	<b>PROJECT STATUS</b>
		2005	Existing Project

**DESCRIPTION/JUSTIFICATION**

Two small unnamed tributaries to Forbes Creek flow north from NE 86th Street at approximately 126th and 128th Avenues NE. In their current condition, these unstable channels are eroding and the material is clogging downstream drainage systems, leading to flooding. Stabilization using bioengineering techniques will reduce the frequency and severity of flooding and will improve water quality. Project will occur over approximately 500 feet of stream on private property.

**REASON FOR MODIFICATION (WHERE APPLICABLE)**

<b>POLICY BASIS</b>	<b>PRIOR YEAR(S) BUDGET TO ACTUALS</b>	<b>METHOD OF FINANCING (%)</b>		
Surface Water Comprehensive Plan <i>FO-04</i>	Budget	\$50,000	Current Revenue	0 %
	Actual		Reserve	0 %
	Balance		Grants	0 %
			Other Sources	0 %
		Debt	0 %	
		Unfunded	100 %	

<b>CAPITAL COSTS</b>	<b>COSTS TO BE FUNDED</b>
Planning/Design/Engineering	149,400
In-House Professional Svcs.	64,000
Land Acquisition	0
Construction	426,800
Computer Hardware/Software	0
Equipment	0
Other Services	0
<b>Total</b>	<b>640,200</b>
<b>NEW MAINT. AND OPER.</b>	<b>0</b>
<b>NEW FTE</b>	<b>0.00</b>

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<b>CRITERIA</b>	<b>PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)</b>
Amount of public disruption and inconvenience caused	<i>During construction of this project, adjacent property owners and motorists will be impacted by construction equipment and possible traffic detours.</i>
Community economic impacts	<i>Would reduce the potential for property damage, loss of business and road closures due to localized flooding, channel migration/incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Would reduce flooding, sedimentation, channel migration/incision associated health, safety and the above community impacts.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>Project will coordinate with the Route 540 improvements along NE 85th Street by the City of Kirkland and Sound Transit, specifically TR-0078, TR-0080, NM-0051, and SD-0025.</i>
Implications of deferring the project	<i>Continued flooding, sedimentation, channel migration/incision, habitat degradation, reduction of downstream conveyance capacity, damage to downstream capital projects and possible violations of state and/or federal stormwater regulations.</i>
<b>CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN</b>	Name of Neighborhood(s) in which located: <i>North Rose Hill</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
<b>LEVEL OF SERVICE IMPACT</b>	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.