

**SPU -  
DRAINAGE AND  
WASTEWATER**



## Overview of Facilities and Programs

Seattle Public Utilities (SPU) is responsible for maintaining the network of sewer and drainage systems throughout the City of Seattle. The system includes approximately:

- 448 miles of sanitary sewers
- 460 miles of storm drains
- 968 miles of combined sewers
- 68 pump stations
- 90 permitted combined sewer overflow outfalls
- 342 storm drain outfalls
- 130 stormwater quality treatment facilities
- 145 flow control facilities
- 38 combined sewer overflow control detention tanks/pipes

The Seattle Public Utilities' Capital Improvement Program (CIP) is the vehicle for maintaining, upgrading, and expanding this infrastructure, as well as constructing projects that protect, conserve, and enhance our region's environmental resources. The overriding goal of the CIP is to ensure facilities are properly constructed and maintained, and regulatory requirements are met. Projects in the CIP are also guided by various federal regulations, City policies, long-term plan documents, and the SPU Asset Management Committee (AMC) benefit criteria. Many Drainage and Wastewater (DWF) CIP projects are outlined in the Wastewater System Plan, Combined Sewer Overflow Reduction Plan, and the Comprehensive Drainage Plan.

Historically, the DWF CIP has been funded primarily by revenue bonds. However, DWF financial policies adopted in 2003 gradually increase cash contributions from the Utility to fund the CIP. By 2007, 25% of total CIP costs were funded by a cash contribution, with the remaining capital needs being debt financed. Overhead costs for the CIP are budgeted in the SPU operating fund and are reimbursed as CIP expenditures are incurred.

## Highlights

- **Combined Sewer Overflow (CSO) Program:** Approximately \$17.8 million is included in the 2011 Adopted CIP for the combined sewer overflow program. In many parts of Seattle, sewage and stormwater flow together in pipes through a Combined Sewer System. Heavy rains may cause these pipes to fill, causing overflows through outfalls into Lake Union, Lake Washington, or Puget Sound. Projects in the 2011-2016 Adopted CIP respond to federal and state regulations requiring the City to monitor and reduce CSOs. These include development of a Long Term Control Plan (LTCP) as well as CSO reduction projects in the Windermere, Genesee and Henderson basins.
- **Flooding, Sewer Back-up, and Landslides:** The 2011 Adopted CIP includes \$35.1 million to address the prevention and alleviation of flooding and sewer backups in the City of Seattle. The main focus of the 2011 program will be on the construction phases of the Madison Valley Long Term Solution and South Park Pump Station projects.
- **Sediments:** The City of Seattle is named as a potentially responsible party (PRP) for the Duwamish River Superfund Site because of alleged contamination of sediments in the river from CSO and storm drain discharges. The City continues to work with the Washington State Department of Ecology, King County, and other PRPs on an assessment of contaminants and sources.

### Project Selection Process

SPU has adopted an asset management methodology for selecting projects to build. This is a triple bottom line approach which includes an in-depth analysis of the project's economic, social, and environmental benefits, and the ability to meet customer service levels. Using this approach, SPU has established a consistent analytical and modeling framework to achieve the most economical balance between capital investments and operation and maintenance expenditures to minimize the life cycle costs of any capital asset.

The Asset Management Committee (AMC), a committee of senior SPU executives, reviews each project valued at \$1 million or more and assures that only projects which minimize life cycle costs and meet triple bottom line criteria move forward. As a result of this analysis, several projects have been dropped when costs far exceed the benefits. Several cost-effective master planning efforts were approved to create up-to-date improvement and/or upgrade plans for several groups of assets. Other projects have been expanded or expedited because the benefits exceed the costs.

### Program Category Summaries

The Adopted 2011 Drainage and Wastewater CIP totals approximately \$83.8 million which is \$3.5 million higher than amounts planned for 2011 in the 2010-2015 Adopted CIP. These numbers are inclusive of Technology projects funded by the Drainage and Wastewater Fund which are displayed in a separate section of this CIP.

In the Combined Sewer Overflows (CSO) BCL, the 2011 Adopted CIP is \$17.8 million, which is a \$10.2 million decrease from the \$28.0 million planned for 2011 in the 2010-2015 Adopted CIP. This reduction reflects changes in scope and schedules for the Windermere, S. Genesee and S. Henderson CSO projects. Recent modeling and monitoring work has shown lower control volumes than originally anticipated, resulting in the need for smaller, and therefore, less costly solutions. When the Windermere, S. Genesee and S. Henderson projects are complete, CSO volumes into Lake Washington will be cut by about 14 million gallons per year, a reduction of about 60 percent from current overflows.

In the Protection of Beneficial Uses BCL, the 2011 Adopted CIP is \$2.3 million, which is just slightly higher (\$500,000) than the 2011 planned funding level in the 2010-2015 Adopted CIP. In 2012, the Adopted CIP is \$6.0 million, or \$4.4 million higher than the Endorsed Budget.

These increases will restore funding of two cost effective stormwater quality projects: the Venema Creek Natural Drainage System project and the Capitol Hill Water Quality project. Both of these projects were cancelled in 2009 due to financial constraints. The Venema Creek Natural Drainage System project was later re-instated in the 2010 Adopted Budget, though at reduced funding levels for 2012. Capital funding is also approved in 2011 and 2012 to initiate the Street Sweeping for Water Quality project, which will result in improved water quality of roadway runoff.

In the Shared Costs Projects BCL, the 2011 Adopted CIP is \$11.8 million, which is \$3.1 million lower than the \$14.9 million planned for 2011 in the 2010-2015 Adopted CIP. This decrease is driven by the Integrated Control Monitoring Program (I-SCADA), which was reduced in order to fund higher priority projects while still meeting the overall CIP fund target.

In the Flooding, Sewer Back-up, and Landslides BCL, the 2011 Adopted CIP is \$35.1 million, which is \$16.6 million higher than the 2011 planned funding of \$18.5 million in the 2010-2015 Adopted CIP. This sizable increase is consistent with the Drainage and Wastewater Fund's approach of restoring core services that were reduced during last year's budget process due to financial constraints. Increases to the Sanitary Sewer Overflow Capacity project will achieve reduced backups on both residential and commercial properties, while

## SPU – Drainage & Wastewater

the new Culvert Replacement Program will address culverts that need to be rehabilitated before they fail. Substantial increases are also included for the South Park Pump Station project. Issues over property rights and investigation of soil contamination issues have delayed the start of construction and pushed costs originally planned for 2010 into 2011 and 2012.

In the Rehabilitation BCL, the 2011 Adopted CIP is \$6.5 million, which is \$0.1 million higher than 2011 planned funding in the 2010-2015 Adopted CIP. The approved funding essentially maintains 2011 funding levels although some shifts were made between projects within the BCL. The No-Dig Pipe & Maintenance Rehabilitation project was reduced in 2011 due to resource limitations within SPU, as well as to help balance the overall fund. SPU typically awards two No-Dig Contracts each year, but will only award one No-Dig contract in 2011. This funding is being shifted to the Point Sewer Pipe Rehabilitation-Crews activity within the Point Sewer Pipe Rehabilitation project, which was reduced during last year's budget process due to financial constraints.

The Drainage and Wastewater CIP is comprised of seven program categories, which are summarized below.

**Protection of Beneficial Uses:** This program makes improvements to the City's drainage system to reduce the harmful effects of stormwater runoff on creeks and receiving water bodies by improving water quality and protecting or enhancing habitat. The program includes projects to improve water quality, protect creeks, meet regulatory requirements, and use best available science to meet community expectations for habitat.

**Sediments:** This program provides funding for preliminary studies and analysis for cleanup of contaminated sediment sites in which the City is a participant, for actual cleanup of contaminated sites, for preliminary engineering for future cleanup efforts, and for liability allocation negotiations. Funding is used to develop studies and analyses required by regulatory agencies for determining the boundaries and cleanup requirements for specific action sites. The study phase of sediment remediation projects often requires multiple years before specific cleanup actions are defined. As regulatory agency cleanup requirements become clear, additional individual cleanup projects are included in subsequent CIP proposals.

**Combined Sewer Overflows:** This program consists of projects that are mandated by State and Federal regulations to control CSOs into the City's receiving waters. Projects include large infrastructure projects (e.g., storage structures, pipes, tunnels, wet weather treatment plants, stormwater separation, pump stations, etc.), smaller retrofits, construction of green infrastructure for CSO control, and development of regulatory-required plans such as the Long-Term Control Plan.

**Rehabilitation:** This program consists of projects to rehabilitate or replace existing drainage and wastewater (DWW) assets in-kind to maintain the current functionality level of the system. Projects include pump station structures, major mechanical & electrical components, and force mains; DWW control structures and appurtenances; and pipes and culverts.

**Flooding, Sewer Back-up, and Landslides:** This program is responsible for preventing and alleviating flooding and sewer backups in the City of Seattle, with a primary focus on the protection of public health, safety, and property. The program area is focused on planning, design, and construction of channels, pipes, roadside ditches, culverts, detention ponds, and natural drainage systems that control and/or convey storm runoff to receiving bodies. This program also involves protecting SPU drainage and wastewater infrastructure from landslides and providing drainage improvements where surface water generated from the city right-of-way is contributing to landslides.

**Shared Cost Projects:** This program includes individual capital improvement projects which typically benefit multiple lines of business (e.g., the Water line of business and the Drainage and Wastewater line of business) and whose costs are "shared," or paid for, by more than one of SPU's utility funds. In 2011, the Drainage and

## **SPU – Drainage & Wastewater**

Wastewater program includes funding for the Alaskan Way Viaduct & Seawall Replacement, Integrated Control Monitoring Program, Mercer Corridor, Heavy Equipment Purchases and Bridging the Gap.

**Technology** (projects funded by the Drainage and Wastewater Fund, displayed in a separate section of this CIP): This program makes use of recent technological advances to increase the Department's efficiency and productivity. Drainage and Wastewater-supported technology projects are shown grouped with other technology projects following the Department's three CIP sections.

### **Anticipated Operating Expenses Associated with Capital Facilities Projects**

When appropriate, the projects in the Drainage and Wastewater Fund CIP include operations and maintenance cost estimates. These estimates will be refined after project completion and will be included as part of SPU's future O&M Proposed Budget submittals.

### **City Council Provisos to the CIP**

There are no Council provisos.

## SPU-Drainage & Wastewater

### Project Summary

BCL/Program Name/ Project Title & ID	LTD Actuals	2010	2011	2012	2013	2014	2015	2016	Total
<b>Protection of Beneficial Uses</b>		<b>BCL/Program Code:</b>							<b>C333B</b>
Best Management Practice Program (C3313)	572	3,905	153	0	0	703	2,399	2,590	10,323
Capitol Hill Water Quality Project (C3373)	581	350	306	2,497	2,122	379	0	0	6,236
Street Sweeping for Water Quality (C3363)	0	0	314	825	0	0	0	0	1,139
Taylor Creek Culvert Replacement (C3353)	769	0	0	117	584	1,300	140	0	2,909
Thornton Creek Water Quality Channel Project (C3343)	14,329	150	20	0	0	0	0	0	14,499
Venema Creek Natural Drainage System (C3333)	1,018	600	1,489	2,601	170	108	0	0	5,986
<b>Protection of Beneficial Uses</b>	<b>17,269</b>	<b>5,005</b>	<b>2,283</b>	<b>6,040</b>	<b>2,876</b>	<b>2,490</b>	<b>2,539</b>	<b>2,590</b>	<b>41,092</b>
<b>Sediments</b>		<b>BCL/Program Code:</b>							<b>C350B</b>
Sediment Remediation - DWF (C3503)	20,890	2,721	6,350	5,385	1,460	933	491	497	38,727
<b>Sediments</b>	<b>20,890</b>	<b>2,721</b>	<b>6,350</b>	<b>5,385</b>	<b>1,460</b>	<b>933</b>	<b>491</b>	<b>497</b>	<b>38,727</b>
<b>Combined Sewer Overflows</b>		<b>BCL/Program Code:</b>							<b>C360B</b>
Ballard Roadside Raingardens Phase I - ARRA-CWSRF (C3603)	546	999	115	36	4	0	0	0	1,702
Combined Sewer Overflow Facility Retrofit (C3611)	5,740	1,550	2,040	3,031	4,825	6,158	6,447	0	29,791
Green Stormwater Infrastructure Program (C3610)	0	0	1,836	2,601	1,910	1,732	375	450	8,905
Long Term Control Plan (C3604)	9,661	8,160	7,726	6,691	7,558	4,183	2,487	1,971	48,437
S Genesee Combined Sewer Overflow (C3608)	3,819	3,162	704	1,248	4,775	4,871	0	0	18,579
S Henderson Combined Sewer Overflow Storage (C3609)	4,767	2,754	2,142	3,225	5,412	3,355	22,082	22,974	66,712
Windermere Combined Sewer Overflow Storage (C3605)	7,553	5,381	3,244	8,937	13,923	12,718	607	0	52,363
<b>Combined Sewer Overflows</b>	<b>32,085</b>	<b>22,007</b>	<b>17,807</b>	<b>25,770</b>	<b>38,408</b>	<b>33,017</b>	<b>31,998</b>	<b>25,396</b>	<b>226,488</b>
<b>Rehabilitation</b>		<b>BCL/Program Code:</b>							<b>C370B</b>
Emergency Rehabilitation (C3705)	6,398	801	1,020	1,910	2,101	2,164	2,230	2,252	18,877
No Dig Pipe & Maintenance Rehabilitation (C3707)	12,419	1,500	714	1,561	1,592	1,624	1,656	1,689	22,754
Point Sewer Pipe Rehabilitation (C3704)	26,692	5,961	3,162	4,771	6,493	6,921	7,145	7,208	68,353

*\*Amounts in thousands of dollars*

**2011 - 2016 Adopted Capital Improvement Program**

## SPU-Drainage & Wastewater

### Project Summary

BCL/Program Name/ Project Title & ID	LTD Actuals	2010	2011	2012	2013	2014	2015	2016	Total
Pump Station and Force Main Improvements (C3703)	2,651	1,022	1,270	1,829	1,971	2,437	2,686	2,816	16,680
Sewer Full Line Replacements (C3702)	19	0	306	456	492	538	579	563	2,954
<b>Rehabilitation</b>	48,179	9,284	6,472	10,526	12,649	13,683	14,297	14,528	129,618
<b>Flooding, Sewer Back-up, and Landslides</b>									<b>C380B</b>
Culvert Replacement Program (C3810)	395	1,020	1,476	3,096	3,184	3,247	3,312	3,379	19,108
Densmore Basin Drainage Improvements (C3803)	95	5,821	5,306	552	0	0	0	0	11,774
Inflow/Infiltration Control (C3807)	0	0	510	1,397	3,747	4,035	4,345	4,505	18,540
Localized Flood Control Program (C3802)	393	1,466	2,621	5,249	6,340	7,198	6,700	5,631	35,599
Madison Valley Long Term Solution (C3805)	9,503	10,812	9,924	124	67	0	0	0	30,429
Meadowbrook Pond Sediment Management (C3808)	0	0	0	2,601	0	0	0	0	2,601
Sanitary Sewer Overflow Capacity (C3804)	1,682	1,000	2,040	4,162	4,245	4,330	4,416	4,505	26,379
South Park Pump Station (C3806)	4,050	5,478	8,818	5,514	53	0	0	0	23,913
Thornton Confluence Improvement (C3811)	351	1,424	4,375	546	0	0	0	0	6,696
<b>Flooding, Sewer Back-up, and Landslides</b>	16,469	27,022	35,070	23,241	17,635	18,810	18,774	18,019	175,039
<b>Shared Cost Projects</b>									<b>C410B</b>
1% for Art – DWF (C4118-DWF)	654	448	526	461	660	656	690	629	4,725
Alaskan Way Viaduct & Seawall Replacement Program - DWF (C4102-DWF)	930	2,543	4,100	6,703	6,073	11,016	11,987	9,589	52,943
Bridging the Gap - DWF (C4119-DWF)	0	510	1,224	1,248	1,273	1,299	1,325	1,351	8,231
Emergency Storms - DWF (C4120-DWF)	1,219	2,444	589	200	209	226	690	0	5,577
First Hill Streetcar - DWF (C4130-DWF)	0	106	149	152	71	0	0	0	478
Heavy Equipment Purchases - DWF (C4116-DWF)	3,753	1,377	1,612	1,800	1,618	1,867	2,208	3,604	17,840
Integrated Control Monitoring Program - DWF (C4108-DWF)	6,181	3,524	1,012	2,725	3,222	2,414	2,556	63	21,698
Mercer Corridor Project East Phase - DWF (C4114-DWF)	398	3,915	1,050	812	636	0	0	0	6,811

*\*Amounts in thousands of dollars*

**2011 - 2016 Adopted Capital Improvement Program**

## SPU-Drainage & Wastewater

### Project Summary

BCL/Program Name/ Project Title & ID	LTD Actuals	2010	2011	2012	2013	2014	2015	2016	Total
Mercer Corridor Project West Phase - DWF (C4133-DWF)	0	507	370	1,428	1,327	0	0	0	3,633
Meter Replacement - DWF (C4101-DWF)	3,008	587	565	579	672	603	615	627	7,256
Operational Facility - Construction - DWF (C4106-DWF)	0	19	453	0	1,322	3,160	3,360	2,260	10,574
Operational Facility - Other - DWF (C4115-DWF)	0	91	0	0	162	162	0	0	415
Operations Control Center - DWF (C4105-DWF)	2,181	32	52	80	56	8	0	131	2,540
Other Major Transportation Projects - DWF (C4123-DWF)	1	0	10	10	11	11	11	11	66
Security Improvements - DWF (C4113-DWF)	41	26	23	362	236	149	135	25	997
Sound Transit – University Link - DWF (C4110-DWF)	143	50	69	100	237	142	53	0	794
<b>Shared Cost Projects</b>	18,509	16,181	11,804	16,660	17,788	21,712	23,631	18,291	144,576
<b>Technology</b>									<b>BCL/Program Code: C510B</b>
Asset Information Management (C5407)	328	997	1,235	784	1,414	1,323	962	962	8,006
Customer Contact & Billing (C5402)	0	1,166	469	1,119	3,813	4,447	2,111	1,451	14,575
Enterprise Information Management (C5403)	0	305	171	397	384	263	278	272	2,069
IT Infrastructure (C5404)	456	493	769	604	616	617	673	769	4,999
Project Delivery & Performance (C5405)	34	754	829	1,008	955	1,105	1,056	1,056	6,797
Science & System Performance (C5406)	0	377	590	1,088	481	669	809	809	4,823
<b>Technology</b>	819	4,091	4,062	5,001	7,664	8,425	5,888	5,319	41,269
<b>Department Total*:</b>	154,219	86,311	83,848	92,624	98,480	99,069	97,618	84,641	796,810

\*Amounts in thousands of dollars

**2011 - 2016 Adopted Capital Improvement Program**



# SPU-Drainage & Wastewater

## Fund Summary

<b>Fund Name &amp; Code</b>	<b>LTD Actuals</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>Total</b>
Drainage and Wastewater Fund (44010)	154,219	86,311	83,848	92,624	98,480	99,069	97,618	84,641	796,810
<b>Department Total*:</b>	154,219	86,311	83,848	92,624	98,480	99,069	97,618	84,641	796,810

*\*Amounts in thousands of dollars*



## SPU-Drainage & Wastewater

### 1% for Art – DWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2001
<b>Project ID:</b>	C4118-DWF	<b>End Date:</b>	ONGOING
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides the Drainage & Wastewater funding for Seattle Public Utilities' 1% for Arts contribution. Eligibility is determined at the individual project level, with payment occurring from this program. Funds contributed to the 1% for Art program allow the commission, purchase, and installation of art in City-owned properties that is accessible to the public. The Municipal Arts Plan, which is prepared annually, describes the status of ongoing art projects and establishes the scope of work and allocations for new art projects.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	654	448	526	461	660	656	690	629	4,725
<b>Total:</b>	654	448	526	461	660	656	690	629	4,725
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	654	448	526	461	660	656	690	629	4,725
<b>Total*:</b>	654	448	526	461	660	656	690	629	4,725
<b>O &amp; M Costs (Savings)</b>			47	47	47	47	47	47	282
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		394	526	461	660	656	690	629	4,016
<b>Total:</b>		394	526	461	660	656	690	629	4,016

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Alaskan Way Viaduct & Seawall Replacement Program - DWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q1/2004
<b>Project ID:</b>	C4102-DWF	<b>End Date:</b>	Q4/2018
<b>Location:</b>	SR 99 / Battery St		
<b>Neighborhood Plan:</b>	In more than one Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This program relocates, replaces, and protects drainage and wastewater infrastructure affected by the replacement of the Alaskan Way Viaduct and Seawall. This program encompasses many sub-projects which are collectively known as the "Alaskan Way Viaduct and Seawall Replacement Program" (AWVSR Program.) The Washington State Department of Transportation (WSDOT) is the lead for the SR-99 replacement, while the City of Seattle is the lead on development of the waterfront public space, implementation of the new surface Alaskan Way, and design and construction of the seawall.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	930	2,543	4,100	6,703	6,073	11,016	11,987	9,589	52,943
<b>Total:</b>	930	2,543	4,100	6,703	6,073	11,016	11,987	9,589	52,943
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	930	2,543	4,100	6,703	6,073	11,016	11,987	9,589	52,943
<b>Total*:</b>	930	2,543	4,100	6,703	6,073	11,016	11,987	9,589	52,943
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		1,394	4,100	6,703	6,073	11,016	11,987	9,589	50,864
<b>Total:</b>		1,394	4,100	6,703	6,073	11,016	11,987	9,589	50,864

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### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Ballard Roadside Raingardens Phase I - ARRA-CWSRF

<b>BCL/Program Name:</b>	Combined Sewer Overflows	<b>BCL/Program Code:</b>	C360B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q4/2009
<b>Project ID:</b>	C3603	<b>End Date:</b>	Q4/2013
<b>Location:</b>	Ballard		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Ballard	<b>Urban Village:</b>	Ballard

This establishes a separate project to track the American Recovery and Reinvestment Act (ARRA) funding for the Ballard Roadside Raingardens Phase I project, which is a component of the Ballard Combined Sewer Overflow project (C303101). SPU will receive \$1.4M from the Washington State Department of Ecology as a low interest loan. The separate project complies with the requirements of ARRA reporting. In addition to reducing a portion of the combined sewer overflow volumes in the Ballard area, this project will develop the design templates and inform the cost and performance data for bioretention cells in the right-of-way. This information will be used to better evaluate, and provide a higher level of confidence for, the role of this green stormwater infrastructure strategy in achieving Seattle's combined sewer system compliance. Construction of the roadside raingardens begins in June 2010.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Federal ARRA Funds: Clean Water State Revolving Fund	546	999	115	36	4	0	0	0	1,702
<b>Total:</b>	546	999	115	36	4	0	0	0	1,702
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	546	999	115	36	4	0	0	0	1,702
<b>Total*:</b>	546	999	115	36	4	0	0	0	1,702
<b>O &amp; M Costs (Savings)</b>			0	20	20	20	20	20	100
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		950	115	36	4	0	0	0	1,106
<b>Total:</b>		950	115	36	4	0	0	0	1,106

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Best Management Practice Program

<b>BCL/Program Name:</b>	Protection of Beneficial Uses	<b>BCL/Program Code:</b>	C333B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q2/2000
<b>Project ID:</b>	C3313	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing program provides high priority water quality improvement projects in the Norfolk, South Park, and Densmore drainage basins. Incorporating Best Management Practices (BMP), projects are identified, developed, and implemented. The results will be improved quality of stormwater runoff from City-owned storm drains, discharged to nearby receiving water bodies such as streams and lakes. Budget for 2011 will fund work on the Norfolk Basin Water Quality project. No work is currently planned for the 2012-2013 timeframe.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	572	3,905	153	0	0	703	2,399	2,590	10,323
<b>Total:</b>	572	3,905	153	0	0	703	2,399	2,590	10,323
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	572	3,905	153	0	0	703	2,399	2,590	10,323
<b>Total*:</b>	572	3,905	153	0	0	703	2,399	2,590	10,323
<b>O &amp; M Costs (Savings)</b>			0	0	0	103	103	103	310
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		3,900	153	0	0	703	2,399	2,590	9,746
<b>Total:</b>		3,900	153	0	0	703	2,399	2,590	9,746

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### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Bridging the Gap - DWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2008
<b>Project ID:</b>	C4119-DWF	<b>End Date:</b>	Q4/2016
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This multi-year, multi-project program funds assessments, repairs, and improvements to SPU's drainage and wastewater utility infrastructure at sites chosen by the Seattle Department of Transportation (SDOT) for bridge improvements and pedestrian and bicycle safety improvements within its "Bridging the Gap" program. SPU assesses the condition of its utility infrastructure at SDOT's project sites and conducts repairs and improvements as needed. It is too early in the program to determine the impact on operation and maintenance costs or savings as a result of this program.

		LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>										
Drainage and Wastewater Rates		0	510	1,224	1,248	1,273	1,299	1,325	1,351	8,231
<b>Total:</b>		0	510	1,224	1,248	1,273	1,299	1,325	1,351	8,231
<b>Fund Appropriations/Allocations</b>										
Drainage and Wastewater Fund		0	510	1,224	1,248	1,273	1,299	1,325	1,351	8,231
<b>Total*:</b>		0	510	1,224	1,248	1,273	1,299	1,325	1,351	8,231
<b>O &amp; M Costs (Savings)</b>				0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>										
Drainage and Wastewater Fund			1,188	1,224	1,248	1,273	1,299	1,325	1,351	8,909
<b>Total:</b>			1,188	1,224	1,248	1,273	1,299	1,325	1,351	8,909

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### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Capitol Hill Water Quality Project

<b>BCL/Program Name:</b>	Protection of Beneficial Uses	<b>BCL/Program Code:</b>	C333B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q1/2006
<b>Project ID:</b>	C3373	<b>End Date:</b>	Q4/2014
<b>Location:</b>	Yale Ave N/Pontius Ave N/Thomas Street		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Lake Union	<b>Urban Village:</b>	South Lake Union

This project provides construction of four blocks of biofiltration swales in the South Lake Union neighborhood. As part of a regional storm water treatment facility, this project will be constructed in partnership with an adjacent land developer and includes new sidewalks and road surfaces. The project treats runoff from approximately 200 acres of Capitol Hill. This project was included in the 2010-2015 Adopted CIP as C306001.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	581	350	306	2,497	2,122	379	0	0	6,236
<b>Total:</b>	581	350	306	2,497	2,122	379	0	0	6,236
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	581	350	306	2,497	2,122	379	0	0	6,236
<b>Total*:</b>	581	350	306	2,497	2,122	379	0	0	6,236
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	62	62	125
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		0	306	2,497	2,122	379	0	0	5,304
<b>Total:</b>		0	306	2,497	2,122	379	0	0	5,304

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## SPU-Drainage & Wastewater

### Combined Sewer Overflow Facility Retrofit

<b>BCL/Program Name:</b>	Combined Sewer Overflows	<b>BCL/Program Code:</b>	C360B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/2002
<b>Project ID:</b>	C3611	<b>End Date:</b>	ONGOING
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing project retrofits, upgrades, and modifies existing Combined Sewer Overflows (CSO) reduction facilities in Seattle CSO basins. Retrofit projects cost-effectively optimize system operation and storage, mitigate the extent of CSOs, and postpone and/or downsize large CSO reduction projects. This project assists in achieving State Department of Ecology's requirement of an average of no more than one wet-weather overflow event per outfall per year. Although this is an ongoing project, no work is currently planned for 2016. This project was included in the 2010-2015 Adopted CIP as C302102.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	5,740	1,550	2,040	3,031	4,825	6,158	6,447	0	29,791
<b>Total:</b>	5,740	1,550	2,040	3,031	4,825	6,158	6,447	0	29,791
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	5,740	1,550	2,040	3,031	4,825	6,158	6,447	0	29,791
<b>Total*:</b>	5,740	1,550	2,040	3,031	4,825	6,158	6,447	0	29,791
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	298	298
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		1,500	2,040	3,031	4,825	6,158	6,447	0	24,001
<b>Total:</b>		1,500	2,040	3,031	4,825	6,158	6,447	0	24,001

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### 2011 - 2016 Adopted Capital Improvement Program

# SPU-Drainage & Wastewater

## Culvert Replacement Program

<b>BCL/Program Name:</b>	Flooding, Sewer Back-up, and Landslides	<b>BCL/Program Code:</b>	C380B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q2/2008
<b>Project ID:</b>	C3810	<b>End Date:</b>	ONGOING
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing program provides for the repair and replacement of stream culverts that are part of SPU's critical drainage infrastructure. Culverts will be repaired or replaced based on risks and benefits of the project, including flooding and public infrastructure risk and benefits. Replacements will be addressed as part of this capital program, while small repairs and retrofits will be covered within the Operations and Maintenance budget. This is a new program for 2011, though it includes the existing NE 105th & 17th Culvert Replacement activity, which was previously included as part of the Emergency Storms Program (C4120).

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	395	1,020	1,476	3,096	3,184	3,247	3,312	3,379	19,108
<b>Total:</b>	395	1,020	1,476	3,096	3,184	3,247	3,312	3,379	19,108
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	395	1,020	1,476	3,096	3,184	3,247	3,312	3,379	19,108
<b>Total*:</b>	395	1,020	1,476	3,096	3,184	3,247	3,312	3,379	19,108
<b>O &amp; M Costs (Savings)</b>			27	27	27	27	27	27	165
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		0	1,476	3,096	3,184	3,247	3,312	3,379	17,694
<b>Total:</b>		0	1,476	3,096	3,184	3,247	3,312	3,379	17,694

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### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Densmore Basin Drainage Improvements

<b>BCL/Program Name:</b>	Flooding, Sewer Back-up, and Landslides	<b>BCL/Program Code:</b>	C380B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q1/2009
<b>Project ID:</b>	C3803	<b>End Date:</b>	Q4/2012
<b>Location:</b>	Densmore Basin		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Northwest	<b>Urban Village:</b>	Bitter Lake Village

This program reduces surface water flooding and stormwater pollutant loading within the Densmore Basin. Improvements may include increasing the detention volume of the existing Stone Pond facility in order to address stormwater flow, and using traditional storage facilities and/or low impact development techniques to reduce flooding impacts at key locations in the upper Densmore Basin.

		LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>										
Drainage and Wastewater Rates		95	5,821	5,306	552	0	0	0	0	11,774
<b>Total:</b>		95	5,821	5,306	552	0	0	0	0	11,774
<b>Fund Appropriations/Allocations</b>										
Drainage and Wastewater Fund		95	5,821	5,306	552	0	0	0	0	11,774
<b>Total*:</b>		95	5,821	5,306	552	0	0	0	0	11,774
<b>O &amp; M Costs (Savings)</b>				0	0	86	86	86	86	343
<b>Spending Plan by Fund</b>										
Drainage and Wastewater Fund			5,858	5,306	552	0	0	0	0	11,716
<b>Total:</b>			5,858	5,306	552	0	0	0	0	11,716

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### 2011 - 2016 Adopted Capital Improvement Program

# SPU-Drainage & Wastewater

## Emergency Rehabilitation

<b>BCL/Program Name:</b>	Rehabilitation	<b>BCL/Program Code:</b>	C370B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/1998
<b>Project ID:</b>	C3705	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Urban Village:</b>	In more than one Urban Village
<b>Neighborhood District:</b>	In more than one District		

This ongoing project provides emergency sewer response to collapsed mainlines, surface street subsidence or voids resulting from leaking pipes, and storm-related incidents in Seattle, as well as emergency rehabilitation to drainage pipes that collapse, cause surface problems, or otherwise endanger public health or welfare. Typical improvements may include, but are not limited to, rehabilitation or replacement of structurally damaged pipes that caused the emergency and restoring surrounding areas. Rehabilitation or replacement quickly corrects the situation, avoids repeat incident, and extends the life of the asset. This project was included in the 2010-2015 Adopted CIP as C309007 and C310001.

	<b>LTD Actuals</b>	<b>2010 Rev</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>Total</b>
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	6,398	801	1,020	1,910	2,101	2,164	2,230	2,252	18,877
<b>Total:</b>	6,398	801	1,020	1,910	2,101	2,164	2,230	2,252	18,877
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	6,398	801	1,020	1,910	2,101	2,164	2,230	2,252	18,877
<b>Total*:</b>	6,398	801	1,020	1,910	2,101	2,164	2,230	2,252	18,877
<b>O &amp; M Costs (Savings)</b>			50	50	50	50	50	50	300
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		660	1,020	1,910	2,101	2,164	2,230	2,252	12,338
<b>Total:</b>		660	1,020	1,910	2,101	2,164	2,230	2,252	12,338

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## SPU-Drainage & Wastewater

### Emergency Storms - DWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q3/2007
<b>Project ID:</b>	C4120-DWF	<b>End Date:</b>	ONGOING
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program funds Drainage & Wastewater infrastructure capital improvement projects resulting from previous and possible future storm events. These projects are potentially Federal Emergency Management Agency (FEMA) reimbursable and need to be separated out for tracking and reimbursement purposes. Typical improvements include, but are not limited to, repairing and mitigating landslides, restoring detention ponds, and replacing culverts and detention walls. Although this is an ongoing program, no work is currently planned for 2016.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	1,219	2,444	589	200	209	226	690	0	5,577
<b>Total:</b>	1,219	2,444	589	200	209	226	690	0	5,577
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	1,219	2,444	589	200	209	226	690	0	5,577
<b>Total*:</b>	1,219	2,444	589	200	209	226	690	0	5,577
<b>O &amp; M Costs (Savings)</b>			74	74	74	74	74	74	444
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		2,687	589	200	209	226	690	0	4,601
<b>Total:</b>		2,687	589	200	209	226	690	0	4,601

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### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### First Hill Streetcar - DWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2010
<b>Project ID:</b>	C4130-DWF	<b>End Date:</b>	Q4/2013
<b>Location:</b>	First Hill		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This project plans and relocates drainage and wastewater facilities that will be impacted by the SDOT-led First Hill streetcar project, which will connect major employment centers on First Hill to the regional light rail system stations on Capitol Hill and in the International District. Currently this project is in the planning phase. This project was included in the 2010-2015 Adopted CIP as C409034.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	0	106	149	152	71	0	0	0	478
<b>Total:</b>	0	106	149	152	71	0	0	0	478
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	0	106	149	152	71	0	0	0	478
<b>Total*:</b>	0	106	149	152	71	0	0	0	478
<b>O &amp; M Costs (Savings)</b>			0	0	0	5	5	5	14
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		104	149	152	71	0	0	0	476
<b>Total:</b>		104	149	152	71	0	0	0	476

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### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Green Stormwater Infrastructure Program

<b>BCL/Program Name:</b>	Combined Sewer Overflows	<b>BCL/Program Code:</b>	C360B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q1/2011
<b>Project ID:</b>	C3610	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Urban Village:</b>	In more than one Urban Village
<b>Neighborhood District:</b>	In more than one District		

This ongoing program provides construction of Green Stormwater Infrastructure as a component of combined sewer overflow (CSO) reduction within the uncontrolled CSO basins. Work includes roadside raingardens, permeable pavement alleys, and the Rainwise program. The Rainwise program provides financial incentives to private property owners within our uncontrolled CSO basins for construction of properly sized and installed raingardens, cisterns or downspout disconnections. The program supports the City's current regulatory strategy for compliance with CSO National Pollutant Discharge Elimination System (NPDES) permit.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	0	0	1,836	2,601	1,910	1,732	375	450	8,905
<b>Total:</b>	0	0	1,836	2,601	1,910	1,732	375	450	8,905
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	0	0	1,836	2,601	1,910	1,732	375	450	8,905
<b>Total*:</b>	0	0	1,836	2,601	1,910	1,732	375	450	8,905
<b>O &amp; M Costs (Savings)</b>			100	100	150	150	150	150	800
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		0	1,836	2,601	1,910	1,732	375	450	8,905
<b>Total:</b>		0	1,836	2,601	1,910	1,732	375	450	8,905

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### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Heavy Equipment Purchases - DWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	New Investment	<b>Start Date:</b>	ONGOING
<b>Project ID:</b>	C4116-DWF	<b>End Date:</b>	ONGOING
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides SPU's Drainage and Wastewater Utility crews with new and replacement heavy equipment that is used throughout Seattle. Typical purchases include vactors, backhoes, loaders, service trucks, "TV" trucks and dump trucks, as well as retrofitting existing equipment to meet SPU operational needs and initiatives. This equipment transports work crews and tools to jobsites and supports the safe and efficient replacement, repair, and maintenance of Seattle's Drainage and Wastewater system. This program is one of three SPU fund-specific heavy equipment CIP programs.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	3,753	1,377	1,612	1,800	1,618	1,867	2,208	3,604	17,840
<b>Total:</b>	3,753	1,377	1,612	1,800	1,618	1,867	2,208	3,604	17,840
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	3,753	1,377	1,612	1,800	1,618	1,867	2,208	3,604	17,840
<b>Total*:</b>	3,753	1,377	1,612	1,800	1,618	1,867	2,208	3,604	17,840
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		1,497	1,612	1,800	1,618	1,867	2,208	3,604	14,206
<b>Total:</b>		1,497	1,612	1,800	1,618	1,867	2,208	3,604	14,206

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## SPU-Drainage & Wastewater

### Inflow/Infiltration Control

<b>BCL/Program Name:</b>	Flooding, Sewer Back-up, and Landslides	<b>BCL/Program Code:</b>	C380B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2011
<b>Project ID:</b>	C3807	<b>End Date:</b>	ONGOING
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing project reduces inflow and infiltration (I/I) to sanitary sewers from side sewers and other pipe openings. Reductions may result from inspections, repair, and/or enforcement of codes. I/I reduction improves the capacity of the existing sanitary sewer system by removing excess storm flows, thereby reducing the potential for overflows and decreasing quantities going to Metro's treatment facilities. This project was included in the 2010-2015 Adopted CIP as C309003.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	0	0	510	1,397	3,747	4,035	4,345	4,505	18,540
<b>Total:</b>	0	0	510	1,397	3,747	4,035	4,345	4,505	18,540
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	0	0	510	1,397	3,747	4,035	4,345	4,505	18,540
<b>Total*:</b>	0	0	510	1,397	3,747	4,035	4,345	4,505	18,540
<b>O &amp; M Costs (Savings)</b>			185	185	185	185	185	185	1,112
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		0	510	1,397	3,747	4,035	4,345	4,505	18,539
<b>Total:</b>		0	510	1,397	3,747	4,035	4,345	4,505	18,539

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## SPU-Drainage & Wastewater

### Integrated Control Monitoring Program - DWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	New Investment	<b>Start Date:</b>	Q1/2002
<b>Project ID:</b>	C4108-DWF	<b>End Date:</b>	ONGOING
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program funds improvements to the centralized monitoring and control of the drainage and wastewater portion of the overall Supervisory Control and Data Acquisition (SCADA) system infrastructure throughout Seattle. Infrastructure affected may include, but is not limited to, pipes related to potential combined sewer overflows, rain gauges, and wastewater pump stations. This program enhances and protects the quality and condition of lakes and streams, and addresses the Environmental Protection Agency's (EPA) National Pollutant Discharge Elimination System (NPDES) permit requirements.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	6,181	3,524	1,012	2,725	3,222	2,414	2,556	63	21,698
<b>Total:</b>	6,181	3,524	1,012	2,725	3,222	2,414	2,556	63	21,698
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	6,181	3,524	1,012	2,725	3,222	2,414	2,556	63	21,698
<b>Total*:</b>	6,181	3,524	1,012	2,725	3,222	2,414	2,556	63	21,698
<b>O &amp; M Costs (Savings)</b>			222	222	222	222	222	222	1,332
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		3,251	1,012	2,725	3,222	2,414	2,556	63	15,244
<b>Total:</b>		3,251	1,012	2,725	3,222	2,414	2,556	63	15,244

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Localized Flood Control Program

<b>BCL/Program Name:</b>	Flooding, Sewer Back-up, and Landslides	<b>BCL/Program Code:</b>	C380B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q1/2007
<b>Project ID:</b>	C3802	<b>End Date:</b>	ONGOING
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Northwest	<b>Urban Village:</b>	Bitter Lake Village

This ongoing program provides flood control and local drainage and wastewater projects in under-served parts of Seattle to improve system capacity or increase the existing level of service. Candidate projects are identified through claims, complaints, studies, and field investigations. Drainage and Landslide Spot projects are also included within this program. The Localized Flood Control Program improves Drainage and Wastewater levels of service.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	393	1,466	2,621	5,249	6,340	7,198	6,700	5,631	35,599
<b>Total:</b>	393	1,466	2,621	5,249	6,340	7,198	6,700	5,631	35,599
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	393	1,466	2,621	5,249	6,340	7,198	6,700	5,631	35,599
<b>Total*:</b>	393	1,466	2,621	5,249	6,340	7,198	6,700	5,631	35,599
<b>O &amp; M Costs (Savings)</b>			356	356	356	356	356	356	2,136
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		2,007	2,621	5,249	6,340	7,198	6,700	5,631	35,746
<b>Total:</b>		2,007	2,621	5,249	6,340	7,198	6,700	5,631	35,746

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# SPU-Drainage & Wastewater

## Long Term Control Plan

<b>BCL/Program Name:</b>	Combined Sewer Overflows	<b>BCL/Program Code:</b>	C360B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q3/2008
<b>Project ID:</b>	C3604	<b>End Date:</b>	Q4/2030
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This program creates a Long Term Control Plan (LTCP) in accordance with SPU's Combined Sewer Overflow (CSO) National Pollutant Discharge Elimination System (NPDES) permit and the Federal CSO Control Policy. SPU is required to develop and implement the plan to reduce the number and volume of its CSO overflows, meet receiving water quality standards, and protect designated beneficial uses. The program includes establishing tools for managing the plan, flow characterization, monitoring, and hydraulic modeling; consideration and prioritization of sensitive CSO locations; development and analysis of site-specific CSO control alternatives; development of a comprehensive set of reasonable control alternatives that takes into consideration overall cost and performance; operational plan revisions to include agreed-upon long-term CSO controls; a public participation process; an implementation schedule; and a post-construction compliance monitoring program to verify compliance. This plan will be submitted to the Washington State Department of Ecology for approval in 2015 and will include all CSO basins within the City of Seattle, excluding existing CSO Projects at Windermere, Genesee, Henderson and the Central Waterfront. This program also includes CSO program management activities extending through 2030. Program management activities include the development and implementation of a Program Management Implementation Plan (PMIP) that will define the CSO Program organization, governance, scope, schedule, communications management plan, quality assurance/quality control plan, and environmental review/permitting plan. Implementation of the PMIP will include monitoring and control of the CSO Program's scope, schedule, budget, and risks, and adherence to the procedures and plans laid out in the PMIP. This program was included in the 2010-2015 Adopted CIP as C3602.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	9,661	8,160	7,726	6,691	7,558	4,183	2,487	1,971	48,437
<b>Total:</b>	9,661	8,160	7,726	6,691	7,558	4,183	2,487	1,971	48,437
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	9,661	8,160	7,726	6,691	7,558	4,183	2,487	1,971	48,437
<b>Total*:</b>	9,661	8,160	7,726	6,691	7,558	4,183	2,487	1,971	48,437
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

## 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Madison Valley Long Term Solution

<b>BCL/Program Name:</b>	Flooding, Sewer Back-up, and Landslides	<b>BCL/Program Code:</b>	C380B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q1/2007
<b>Project ID:</b>	C3805	<b>End Date:</b>	Q4/2013
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Central	<b>Urban Village:</b>	Not in an Urban Village

This project provides stormwater flood control facilities to greatly reduce the potential for flooding in the Madison Valley area, especially in the vicinity of 30th Ave E. and E. John St, and in the area of 29th Ave E. and E. Madison St. Work will include construction of a large stormwater pipe in the NW section of the Madison Valley basin, a new stormwater storage facility in Washington Park, and an expanded stormwater retention area at 30th Ave E. and E. John St. This project was included in the 2010-2015 Adopted CIP as C307014.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	9,503	10,812	9,924	124	67	0	0	0	30,429
<b>Total:</b>	9,503	10,812	9,924	124	67	0	0	0	30,429
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	9,503	10,812	9,924	124	67	0	0	0	30,429
<b>Total*:</b>	9,503	10,812	9,924	124	67	0	0	0	30,429
<b>O &amp; M Costs (Savings)</b>			0	0	0	304	304	304	913
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		10,500	9,924	124	67	0	0	0	20,615
<b>Total:</b>		10,500	9,924	124	67	0	0	0	20,615

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## SPU-Drainage & Wastewater

### Meadowbrook Pond Sediment Management

<b>BCL/Program Name:</b>	Flooding, Sewer Back-up, and Landslides	<b>BCL/Program Code:</b>	C380B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2012
<b>Project ID:</b>	C3808	<b>End Date:</b>	Q1/2013
<b>Location:</b>	35th AVE NE/NE 105th ST/NE 110th ST		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

The project provides for dredging of sediment in Meadowbrook Pond and modifying existing structures to improve functionality of the facility. These tasks will improve the maintenance operations and the cost efficiency and management of Meadowbrook Pond by reducing flow volume, sediments, and contaminants; capturing sediments more efficiently to improve maintenance and worker safety; improving dredging methods; developing definitive maintenance triggers; modifying structures to manage debris, improving flood control; expanding bypass capacity; and increasing water quality in the pond and downstream.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	0	0	0	2,601	0	0	0	0	2,601
<b>Total:</b>	0	0	0	2,601	0	0	0	0	2,601
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	0	0	0	2,601	0	0	0	0	2,601
<b>Total*:</b>	0	0	0	2,601	0	0	0	0	2,601
<b>O &amp; M Costs (Savings)</b>			0	0	26	26	26	26	104
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		500	0	2,601	0	0	0	0	3,101
<b>Total:</b>		500	0	2,601	0	0	0	0	3,101

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## SPU-Drainage & Wastewater

### Mercer Corridor Project East Phase - DWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2007
<b>Project ID:</b>	C4114-DWF	<b>End Date:</b>	Q4/2013
<b>Location:</b>	South Lake Union		
<b>Neighborhood Plan:</b>	South Lake Union	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Lake Union	<b>Urban Village:</b>	South Lake Union

This program funds the repair, relocation, protection, and upgrade of drainage and wastewater infrastructure related to the redevelopment of the South Lake Union neighborhood. Program work includes, but is not limited to, flow modeling and development of green roofs. This effort identifies SPU drainage and wastewater system direct impacts, opportunities for system improvements, and cost responsibility. This program also funds planning-level coordination with other city departments on projects within the South Lake Union area. This project was included in the 2010-2015 Adopted CIP with the title "Mercer Corridor Project - DWF".

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	398	3,915	1,050	812	636	0	0	0	6,811
<b>Total:</b>	398	3,915	1,050	812	636	0	0	0	6,811
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	398	3,915	1,050	812	636	0	0	0	6,811
<b>Total*:</b>	398	3,915	1,050	812	636	0	0	0	6,811
<b>O &amp; M Costs (Savings)</b>			0	0	0	93	93	93	278
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		2,190	1,050	812	636	0	0	0	4,688
<b>Total:</b>		2,190	1,050	812	636	0	0	0	4,688

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### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Mercer Corridor Project West Phase - DWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2010
<b>Project ID:</b>	C4133-DWF	<b>End Date:</b>	Q4/2013
<b>Location:</b>	Mercer St/Elliott Ave W/Dexter Ave N		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	T01, T02, T03, T11 T15
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This project provides drainage and wastewater utility improvements and relocations related to the Mercer Corridor project, West phase. The project will convert Mercer Street to a two-way street between Dexter Ave. and Elliott Ave. West. The Mercer underpass at Aurora Ave will be widened to allow for six travel lanes and a bicycle/pedestrian shared-use path between Dexter Ave and 5th Ave North. Roy Street, between Aurora and Queen Anne Ave., will also be converted to a two-way street with on-road bicycle lanes. This project was included in the 2010-2015 Adopted CIP as C410005.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	0	507	370	1,428	1,327	0	0	0	3,633
<b>Total:</b>	0	507	370	1,428	1,327	0	0	0	3,633
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	0	507	370	1,428	1,327	0	0	0	3,633
<b>Total*:</b>	0	507	370	1,428	1,327	0	0	0	3,633
<b>O &amp; M Costs (Savings)</b>			0	0	0	36	36	36	109
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		128	370	1,428	1,327	0	0	0	3,254
<b>Total:</b>		128	370	1,428	1,327	0	0	0	3,254

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Meter Replacement - DWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/2004
<b>Project ID:</b>	C4101-DWF	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing program funds replacement of existing water meters when they fail or become obsolete. Meters measuring up to two inches are replaced when they stop running. Meters measuring three inches or more are repaired when possible, but are replaced when repair costs exceed replacement costs. Accurate water meters ensure that customers are billed fairly for the water they use. Since water meters also are used to bill customers for their wastewater discharges, 48 percent of the funding is allocated to the Drainage and Wastewater line of business.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	3,008	587	565	579	672	603	615	627	7,256
<b>Total:</b>	3,008	587	565	579	672	603	615	627	7,256
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	3,008	587	565	579	672	603	615	627	7,256
<b>Total*:</b>	3,008	587	565	579	672	603	615	627	7,256
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		819	565	579	672	603	615	627	4,480
<b>Total:</b>		819	565	579	672	603	615	627	4,480

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### No Dig Pipe & Maintenance Rehabilitation

<b>BCL/Program Name:</b>	Rehabilitation	<b>BCL/Program Code:</b>	C370B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/1998
<b>Project ID:</b>	C3707	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Urban Village:</b>	In more than one Urban Village
<b>Neighborhood District:</b>	In more than one District		

This ongoing project provides trenchless technology to reline wastewater pipe in Seattle. Generally, prioritized critical sewer pipe that is intact though leaking, and very near the end of its useful life, is relined by a specialized vendor. Installation of the liner extends pipe segment life for more than fifty years. This project was included in the 2010-2015 Adopted CIP as C309006.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	12,419	1,500	714	1,561	1,592	1,624	1,656	1,689	22,754
<b>Total:</b>	12,419	1,500	714	1,561	1,592	1,624	1,656	1,689	22,754
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	12,419	1,500	714	1,561	1,592	1,624	1,656	1,689	22,754
<b>Total*:</b>	12,419	1,500	714	1,561	1,592	1,624	1,656	1,689	22,754
<b>O &amp; M Costs (Savings)</b>			100	100	100	100	100	100	600
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		760	714	1,561	1,592	1,624	1,656	1,689	9,595
<b>Total:</b>		760	714	1,561	1,592	1,624	1,656	1,689	9,595

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### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Operational Facility - Construction - DWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2004
<b>Project ID:</b>	C4106-DWF	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing facilities program renovates, rehabilitates, and replaces existing buildings and constructs new facilities at various locations within the city limits to address deficiencies, failures, and functional changes in the SPU Lines of Business. Typical improvements include, but are not limited to, roof replacements, exterior wall or cladding replacements, and improvements to administrative office space, crew and shop space, lighting, heating and ventilation systems, and facilities structures. These improvements increase the useful life of the facilities, preserve the value of the assets, and provide a safe working environment. No work is planned for drainage and wastewater facilities in 2012.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	0	19	453	0	1,322	3,160	3,360	2,260	10,574
<b>Total:</b>	0	19	453	0	1,322	3,160	3,360	2,260	10,574
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	0	19	453	0	1,322	3,160	3,360	2,260	10,574
<b>Total*:</b>	0	19	453	0	1,322	3,160	3,360	2,260	10,574
<b>O &amp; M Costs (Savings)</b>			176	176	176	176	176	176	1,059
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		218	453	0	1,322	3,160	3,360	2,260	10,772
<b>Total:</b>		218	453	0	1,322	3,160	3,360	2,260	10,772

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Operational Facility - Other - DWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2006
<b>Project ID:</b>	C4115-DWF	<b>End Date:</b>	ONGOING
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing facilities program provides funding to purchase, replace, or install new building materials or building equipment within the city limits to address deficiencies, failures, and functional changes in the SPU Lines of Business. Typical improvements include, but are not limited to, drainage systems, prefabricated buildings, storage buildings, and fencing. No work is currently planned for drainage and wastewater facilities in 2011-2012 or 2015-2016.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	0	91	0	0	162	162	0	0	415
<b>Total:</b>	0	91	0	0	162	162	0	0	415
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	0	91	0	0	162	162	0	0	415
<b>Total*:</b>	0	91	0	0	162	162	0	0	415
<b>O &amp; M Costs (Savings)</b>			0	0	7	7	7	7	30
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		75	0	0	162	162	0	0	399
<b>Total:</b>		75	0	0	162	162	0	0	399

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

## SPU-Drainage & Wastewater

### Operations Control Center - DWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2003
<b>Project ID:</b>	C4105-DWF	<b>End Date:</b>	ONGOING
<b>Location:</b>	2700 Airport Way S		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Greater Duwamish	<b>Urban Village:</b>	Duwamish

This ongoing facilities program renovates, rehabilitates, replaces existing buildings, and constructs new facilities at the Operations Control Center located at 2700 Airport Way South to improve the efficiency and effectiveness of the field crews delivering utility services to customers. Typical improvements include, but are not limited to, roof and other exterior replacements, improvements to public spaces, office and crew spaces and lighting, and heating and ventilation systems. These improvements increase the useful life of the facility, preserve the value of the asset, and provide a safe work and public space environment. No work is currently planned for drainage and wastewater facilities in 2015.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	2,181	32	52	80	56	8	0	131	2,540
<b>Total:</b>	2,181	32	52	80	56	8	0	131	2,540
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	2,181	32	52	80	56	8	0	131	2,540
<b>Total*:</b>	2,181	32	52	80	56	8	0	131	2,540
<b>O &amp; M Costs (Savings)</b>			27	27	27	27	27	27	162
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		32	52	80	56	8	0	131	359
<b>Total:</b>		32	52	80	56	8	0	131	359

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

## SPU-Drainage & Wastewater

### Other Major Transportation Projects - DWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q2/2008
<b>Project ID:</b>	C4123-DWF	<b>End Date:</b>	ONGOING
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program funds Drainage and Wastewater projects that mitigate undesirable impacts from, and takes advantage of opportunities generated by, capital transportation projects of the Washington State Department of Transportation (WSDOT) and the Seattle Department of Transportation (SDOT) throughout the city. Work may include, but is not limited to, physically protecting the infrastructure during the transportation construction process, repairing and replacing damaged infrastructure, and improving existing infrastructure to meet higher standards. Project sites may include, but are not limited to, State Route 520, Interstate 5, and Interstate 90.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	1	0	10	10	11	11	11	11	66
<b>Total:</b>	1	0	10	10	11	11	11	11	66
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	1	0	10	10	11	11	11	11	66
<b>Total*:</b>	1	0	10	10	11	11	11	11	66
<b>O &amp; M Costs (Savings)</b>			1	1	1	1	1	1	4

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

## SPU-Drainage & Wastewater

### Point Sewer Pipe Rehabilitation

<b>BCL/Program Name:</b>	Rehabilitation	<b>BCL/Program Code:</b>	C370B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/2003
<b>Project ID:</b>	C3704	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing project provides complex point sewer rehabilitation of sewer mains that are greater than seventeen feet deep in the downtown corridor, landslide prone areas, or difficult access areas. Failed or nonfunctional sections of pipe are assessed and prioritized for rehabilitation through one or two public works contracts. This project also provides point sewer rehabilitation of sewer mains that are less than seventeen feet deep in non-arterial Seattle roadways. In these cases, failed or nonfunctional sections of pipe are assessed and prioritized for rehabilitation by Seattle Public Utilities field operation crews. Sewer trouble spots and voids are addressed while increasing the sewer main asset life and function. This project was included in the 2010-2015 Adopted CIP as C309004 and C309005.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	26,692	5,961	3,162	4,771	6,493	6,921	7,145	7,208	68,353
<b>Total:</b>	26,692	5,961	3,162	4,771	6,493	6,921	7,145	7,208	68,353
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	26,692	5,961	3,162	4,771	6,493	6,921	7,145	7,208	68,353
<b>Total*:</b>	26,692	5,961	3,162	4,771	6,493	6,921	7,145	7,208	68,353
<b>O &amp; M Costs (Savings)</b>			200	200	200	200	200	200	1,200
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		5,970	3,162	4,771	6,493	6,921	7,145	7,208	41,669
<b>Total:</b>		5,970	3,162	4,771	6,493	6,921	7,145	7,208	41,669

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### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Pump Station and Force Main Improvements

<b>BCL/Program Name:</b>	Rehabilitation	<b>BCL/Program Code:</b>	C370B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q1/2008
<b>Project ID:</b>	C3703	<b>End Date:</b>	ONGOING
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides for improvements and upgrades to the 68 SPU-owned wastewater pump stations and force mains. Typical improvements may include, but are not limited to, replacement of existing pump station assets including pumps, motors, and valves, and installation of new assets such as SCADA systems, generators, and emergency plugs. This program enhances and extends the useful life of the existing pump stations which, in turn, protects water quality.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	2,651	1,022	1,270	1,829	1,971	2,437	2,686	2,816	16,680
<b>Total:</b>	2,651	1,022	1,270	1,829	1,971	2,437	2,686	2,816	16,680
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	2,651	1,022	1,270	1,829	1,971	2,437	2,686	2,816	16,680
<b>Total*:</b>	2,651	1,022	1,270	1,829	1,971	2,437	2,686	2,816	16,680
<b>O &amp; M Costs (Savings)</b>			167	167	167	167	167	167	1,001
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		1,022	1,270	1,829	1,971	2,437	2,686	2,816	14,030
<b>Total:</b>		1,022	1,270	1,829	1,971	2,437	2,686	2,816	14,030

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### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### S Genesee Combined Sewer Overflow

<b>BCL/Program Name:</b>	Combined Sewer Overflows	<b>BCL/Program Code:</b>	C360B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q1/2005
<b>Project ID:</b>	C3608	<b>End Date:</b>	Q4/2014
<b>Location:</b>	S. Genesee St.		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	
<b>Neighborhood District:</b>	Southeast	<b>Urban Village:</b>	Not in an Urban Village

This project provides construction of combined sewer overflows (CSO) facilities in the Genesee area in the southeast part of Seattle. Facilities will be built to meet level of service requirements for CSOs and comply with state and federal regulations. The project will meet requirements of the City's current National Pollutant Discharge Elimination System (NPDES) Wastewater Discharge Permit. This project was included in the 2010-2015 Adopted CIP as C303103.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	3,819	3,162	704	1,248	4,775	4,871	0	0	18,579
<b>Total:</b>	3,819	3,162	704	1,248	4,775	4,871	0	0	18,579
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	3,819	3,162	704	1,248	4,775	4,871	0	0	18,579
<b>Total*:</b>	3,819	3,162	704	1,248	4,775	4,871	0	0	18,579
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	186	186	372
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		1,250	704	1,248	4,775	4,871	0	0	12,848
<b>Total:</b>		1,250	704	1,248	4,775	4,871	0	0	12,848

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## SPU-Drainage & Wastewater

### S Henderson Combined Sewer Overflow Storage

<b>BCL/Program Name:</b>	Combined Sewer Overflows	<b>BCL/Program Code:</b>	C360B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q1/2005
<b>Project ID:</b>	C3609	<b>End Date:</b>	Q4/2020
<b>Location:</b>	S Henderson St.		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Southeast	<b>Urban Village:</b>	Not in an Urban Village

This project provides construction of combined sewer overflows (CSO) facilities in the Henderson area in the southeast part of Seattle. Facilities will be built to meet level of service requirements for CSOs and comply with state and federal regulations. The project will meet requirements of the City's current National Pollutant Discharge Elimination System (NPDES) Wastewater Discharge Permit. Maintenance costs will not begin until after 2020, when the project completes construction. This project was included in the 2010-2015 Adopted CIP as C304102.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	4,767	2,754	2,142	3,225	5,412	3,355	22,082	22,974	66,712
<b>Total:</b>	4,767	2,754	2,142	3,225	5,412	3,355	22,082	22,974	66,712
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	4,767	2,754	2,142	3,225	5,412	3,355	22,082	22,974	66,712
<b>Total*:</b>	4,767	2,754	2,142	3,225	5,412	3,355	22,082	22,974	66,712
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		2,050	2,142	3,225	5,412	3,355	22,082	22,974	61,241
<b>Total:</b>		2,050	2,142	3,225	5,412	3,355	22,082	22,974	61,241

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### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Sanitary Sewer Overflow Capacity

<b>BCL/Program Name:</b>	Flooding, Sewer Back-up, and Landslides	<b>BCL/Program Code:</b>	C380B
<b>Project Type:</b>	New Investment	<b>Start Date:</b>	Q2/2002
<b>Project ID:</b>	C3804	<b>End Date:</b>	ONGOING
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing project provides capacity improvements to the existing Seattle wastewater conveyance system. Typical improvements may include, but are not limited to, increasing the diameter of existing pipes or installing additional relief pipes to eliminate or avoid sewer backups and overflows. This project was included in the 2010-2015 Adopted CIP as C302205.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	1,682	1,000	2,040	4,162	4,245	4,330	4,416	4,505	26,379
<b>Total:</b>	1,682	1,000	2,040	4,162	4,245	4,330	4,416	4,505	26,379
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	1,682	1,000	2,040	4,162	4,245	4,330	4,416	4,505	26,379
<b>Total*:</b>	1,682	1,000	2,040	4,162	4,245	4,330	4,416	4,505	26,379
<b>O &amp; M Costs (Savings)</b>			264	264	264	264	264	264	1,583
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		1,000	2,040	4,162	4,245	4,330	4,416	4,505	24,697
<b>Total:</b>		1,000	2,040	4,162	4,245	4,330	4,416	4,505	24,697

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### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Security Improvements - DWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2007
<b>Project ID:</b>	C4113-DWF	<b>End Date:</b>	Q4/2016
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides physical integrated security system components throughout the City of Seattle. Typical improvements may include, but are not limited to, fences, gates, access control card readers, intercoms, lighting, door and hatch contacts, CCTV cameras, motion detection devices, and fiber and conduit. This program enhances protection of SPU's critical infrastructure and addresses vulnerabilities identified in U.S. Environmental Protection Agency (EPA) mandated vulnerability assessments.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	41	26	23	362	236	149	135	25	997
<b>Total:</b>	41	26	23	362	236	149	135	25	997
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	41	26	23	362	236	149	135	25	997
<b>Total*:</b>	41	26	23	362	236	149	135	25	997
<b>O &amp; M Costs (Savings)</b>			19	19	19	19	19	19	116
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		126	23	362	236	149	135	25	1,056
<b>Total:</b>		126	23	362	236	149	135	25	1,056

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### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Sediment Remediation - DWF

<b>BCL/Program Name:</b>	Sediments	<b>BCL/Program Code:</b>	C350B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q4/2000
<b>Project ID:</b>	C3503	<b>End Date:</b>	ONGOING
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides for City of Seattle participation in cleanup of contaminated sediment sites at multiple locations across the city for which the City's drainage and wastewater utilities may have some liability. Typical phases of such projects include preliminary studies and analyses, preliminary engineering for actual cleanup efforts, and liability allocation negotiations. This program enhances the natural environment of Seattle and addresses both state and federal regulatory agency requirements.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	20,890	2,721	6,350	5,385	1,460	933	491	497	38,727
<b>Total:</b>	20,890	2,721	6,350	5,385	1,460	933	491	497	38,727
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	20,890	2,721	6,350	5,385	1,460	933	491	497	38,727
<b>Total*:</b>	20,890	2,721	6,350	5,385	1,460	933	491	497	38,727
<b>O &amp; M Costs (Savings)</b>			387	387	387	387	387	387	2,323
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		3,379	6,350	5,385	1,460	933	491	497	18,495
<b>Total:</b>		3,379	6,350	5,385	1,460	933	491	497	18,495

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### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Sewer Full Line Replacements

<b>BCL/Program Name:</b>	Rehabilitation	<b>BCL/Program Code:</b>	C370B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/2001
<b>Project ID:</b>	C3702	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Urban Village:</b>	In more than one Urban Village
<b>Neighborhood District:</b>	In more than one District		

This ongoing program provides for replacement of existing sewer lines citywide with pipes of the same diameter and capacity. Closed circuit television inspections identify defects in sewer mainlines, and each mainline defect is catalogued in an SPU database and assigned a priority that reflects the urgency of repair. Replacement is done by pipe-bursting methods that avoid extended pavement cutting.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	19	0	306	456	492	538	579	563	2,954
<b>Total:</b>	19	0	306	456	492	538	579	563	2,954
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	19	0	306	456	492	538	579	563	2,954
<b>Total*:</b>	19	0	306	456	492	538	579	563	2,954
<b>O &amp; M Costs (Savings)</b>			30	30	30	30	30	30	177
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		0	306	456	492	538	579	563	2,934
<b>Total:</b>		0	306	456	492	538	579	563	2,934

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

## SPU-Drainage & Wastewater

### Sound Transit – University Link - DWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q1/2007
<b>Project ID:</b>	C4110-DWF	<b>End Date:</b>	Q4/2015
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	In more than one Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This program funds relocation, replacement, and protection of drainage and wastewater infrastructure affected by the development of Sound Transit's Link Light Rail System. Sound Transit is constructing the second segment of their electrical light rail transit system that includes 3.15 miles of tunnel, two additional stations, and other supporting facilities from downtown to the University of Washington.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	143	50	69	100	237	142	53	0	794
<b>Total:</b>	143	50	69	100	237	142	53	0	794
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	143	50	69	100	237	142	53	0	794
<b>Total*:</b>	143	50	69	100	237	142	53	0	794
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	8	8
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		132	69	100	237	142	53	0	733
<b>Total:</b>		132	69	100	237	142	53	0	733

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

# SPU-Drainage & Wastewater

## South Park Pump Station

<b>BCL/Program Name:</b>	Flooding, Sewer Back-up, and Landslides	<b>BCL/Program Code:</b>	C380B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q3/2008
<b>Project ID:</b>	C3806	<b>End Date:</b>	Q4/2013
<b>Location:</b>	698 S Riverside DR/Holden/Austin		
<b>Neighborhood Plan:</b>	South Park	<b>Neighborhood Plan Matrix:</b>	
<b>Neighborhood District:</b>	Greater Duwamish	<b>Urban Village:</b>	Duwamish

This project provides for the construction of a pump station and water quality facility in South Park. The pump station will allow the existing storm drain trunk to meet the level of service adopted in the 2004 Comprehensive Drainage Plan. In turn, this allows for future projects to expand the collection system to address flooding complaints. The water quality facility will treat most stormwater flows from the basin, reducing pollutant loading to the Duwamish River. High flows (over 11 CFS) will bypass the water quality facility and be pumped directly to the river. This project was included in the 2010-2015 Adopted CIP as C308011.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	4,050	5,478	8,818	5,514	53	0	0	0	23,913
<b>Total:</b>	4,050	5,478	8,818	5,514	53	0	0	0	23,913
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	4,050	5,478	8,818	5,514	53	0	0	0	23,913
<b>Total*:</b>	4,050	5,478	8,818	5,514	53	0	0	0	23,913
<b>O &amp; M Costs (Savings)</b>			0	0	0	280	280	280	840
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		4,562	8,818	5,514	53	0	0	0	18,947
<b>Total:</b>		4,562	8,818	5,514	53	0	0	0	18,947

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# SPU-Drainage & Wastewater

## Street Sweeping for Water Quality

<b>BCL/Program Name:</b>	Protection of Beneficial Uses	<b>BCL/Program Code:</b>	C333B
<b>Project Type:</b>	New Investment	<b>Start Date:</b>	Q1/2011
<b>Project ID:</b>	C3363	<b>End Date:</b>	Q4/2012
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This program provides for a cost-effective, significant reduction in the toxic pollutant load carried by stormwater runoff discharged by SPU's storm drain system to Puget Sound using new, high efficiency street sweeping technology. This program will leverage the existing Seattle Department of Transportation (SDOT) street sweeping program expertise and equipment. SDOT will be responsible for managing the sweeper fleet and staff and delivering street sweeping for water quality services, while SPU will be responsible for selecting the water quality routes, sweeping frequency, and performance standards. SPU's capital costs for this program will include sweepers and/or signs, license plate recognition equipment and program start up. Requested funding represents total costs for the capital portion of the street sweeping program, though timing of these investments may vary. Assuming the street sweeping program successfully and cost-effectively reduces the toxic pollutant load in stormwater runoff, the program will continue after 2012, with impacts on SPU's operating but not capital budget.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	0	0	314	825	0	0	0	0	1,139
<b>Total:</b>	0	0	314	825	0	0	0	0	1,139
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	0	0	314	825	0	0	0	0	1,139
<b>Total*:</b>	0	0	314	825	0	0	0	0	1,139
<b>O &amp; M Costs (Savings)</b>			712	1,050	1,071	1,091	1,113	1,124	6,161

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program

# SPU-Drainage & Wastewater

## Taylor Creek Culvert Replacement

<b>BCL/Program Name:</b>	Protection of Beneficial Uses	<b>BCL/Program Code:</b>	C333B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q4/1999
<b>Project ID:</b>	C3353	<b>End Date:</b>	Q4/2015
<b>Location:</b>	Taylor Creek at Rainier Ave S		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Southeast	<b>Urban Village:</b>	Not in an Urban Village

This project provides funding to replace the barrier culvert at Rainier Avenue South for lower Taylor Creek. Design alternatives include rerouting and other habitat improvements. The Taylor Creek culvert at Rainier Avenue South is the number one fish-passage barrier in the city that blocks access to a majority of spawning and rearing habitat in upper Taylor Creek to all species of salmonids. This project was included in the 2010-2015 Adopted CIP as C399315.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	769	0	0	117	584	1,300	140	0	2,909
<b>Total:</b>	769	0	0	117	584	1,300	140	0	2,909
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	769	0	0	117	584	1,300	140	0	2,909
<b>Total*:</b>	769	0	0	117	584	1,300	140	0	2,909
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	29	29
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		0	0	117	584	1,300	140	0	2,140
<b>Total:</b>		0	0	117	584	1,300	140	0	2,140

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

## SPU-Drainage & Wastewater

### Thornton Confluence Improvement

<b>BCL/Program Name:</b>	Flooding, Sewer Back-up, and Landslides	<b>BCL/Program Code:</b>	C380B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2008
<b>Project ID:</b>	C3811	<b>End Date:</b>	Q4/2012
<b>Location:</b>	Thornton Creek		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This project provides creek realignment, floodplain excavation, culvert replacement, and riparian plantings at the confluence of the north and south branches of Thornton Creek. SPU has acquired a number of flood prone properties in this area over the last decade. Using these properties, this project increases culvert capacity, floodplain area and flood storage, and provides stream habitat benefits. The project will help alleviate flooding and reduce maintenance at Meadowbrook Pond. This project was included in the 2010-2015 Adopted CIP under C4120 Emergency Storms.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	351	1,424	4,375	546	0	0	0	0	6,696
<b>Total:</b>	351	1,424	4,375	546	0	0	0	0	6,696
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	351	1,424	4,375	546	0	0	0	0	6,696
<b>Total*:</b>	351	1,424	4,375	546	0	0	0	0	6,696
<b>O &amp; M Costs (Savings)</b>			0	0	67	67	67	67	268
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		1,424	4,375	546	0	0	0	0	6,344
<b>Total:</b>		1,424	4,375	546	0	0	0	0	6,344

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Thornton Creek Water Quality Channel Project

<b>BCL/Program Name:</b>	Protection of Beneficial Uses	<b>BCL/Program Code:</b>	C333B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q4/2004
<b>Project ID:</b>	C3343	<b>End Date:</b>	Q4/2011
<b>Location:</b>	330 NE 100th ST		
<b>Neighborhood Plan:</b>	Northgate	<b>Neighborhood Plan Matrix:</b>	
<b>Neighborhood District:</b>	North	<b>Urban Village:</b>	Northgate

This project provides preliminary engineering, design, and construction of a water quality facility on the south lot of Northgate Mall. The project includes excavation of fill material and creation of a water quality channel for storm flow from the existing public drainage system under NE 100th St. at 3rd Avenue NE. The project also includes improvements to pedestrian access and landscaping. The collaboration with private enterprise has resulted in land development with open space, natural drainage and economic viability, as well as enhanced water quality. This project was included in the 2010-2015 Adopted CIP as C343306.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	14,329	150	20	0	0	0	0	0	14,499
<b>Total:</b>	14,329	150	20	0	0	0	0	0	14,499
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	14,329	150	20	0	0	0	0	0	14,499
<b>Total*:</b>	14,329	150	20	0	0	0	0	0	14,499
<b>O &amp; M Costs (Savings)</b>			0	145	145	145	145	145	725
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		148	20	0	0	0	0	0	168
<b>Total:</b>		148	20	0	0	0	0	0	168

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Venema Creek Natural Drainage System

<b>BCL/Program Name:</b>	Protection of Beneficial Uses	<b>BCL/Program Code:</b>	C333B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q1/2003
<b>Project ID:</b>	C3333	<b>End Date:</b>	Q4/2014
<b>Location:</b>	1st and 2nd Ave NW/NW 120th St/NW 122nd St		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Northwest	<b>Urban Village:</b>	Not in an Urban Village

This project provides stormwater flow control and water quality treatment using a Natural Drainage System approach within the Venema Creek sub basin of Pipers Creek. Proposed design uses the concept developed for the Pinehurst Natural Drainage System project (parking on only one side of road, large bioretention swale on the other side of road). Alley improvements using permeable pavements are also being considered. The project focus is retrofitting stormwater runoff from the 105-acre residential and commercial land area in an effort to reduce the effect of stormwater flow on the aquatic biota within Venema Creek. This project was included in the 2010-2015 Adopted CIP as C302317.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	1,018	600	1,489	2,601	170	108	0	0	5,986
<b>Total:</b>	1,018	600	1,489	2,601	170	108	0	0	5,986
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	1,018	600	1,489	2,601	170	108	0	0	5,986
<b>Total*:</b>	1,018	600	1,489	2,601	170	108	0	0	5,986
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	125	125	250
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		600	1,489	2,601	170	108	0	0	4,968
<b>Total:</b>		600	1,489	2,601	170	108	0	0	4,968

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Drainage & Wastewater

### Windermere Combined Sewer Overflow Storage

<b>BCL/Program Name:</b>	Combined Sewer Overflows	<b>BCL/Program Code:</b>	C360B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q2/2002
<b>Project ID:</b>	C3605	<b>End Date:</b>	Q4/2015
<b>Location:</b>	Windermere Basin		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Northeast	<b>Urban Village:</b>	Not in an Urban Village

This project provides construction of off-line storage and best management practice combined sewer overflow (CSO) facilities in the Windermere area in the northeast part of Seattle. Facilities will be built to meet water quality standards for Lake Washington in accordance with state and federal regulations. The project also intends to meet requirements of the City's current CSO National Pollutant Discharge Elimination System (NPDES) permit. This project was included in the 2010-2015 Adopted CIP as C302103.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Drainage and Wastewater Rates	7,553	5,381	3,244	8,937	13,923	12,718	607	0	52,363
<b>Total:</b>	7,553	5,381	3,244	8,937	13,923	12,718	607	0	52,363
<b>Fund Appropriations/Allocations</b>									
Drainage and Wastewater Fund	7,553	5,381	3,244	8,937	13,923	12,718	607	0	52,363
<b>Total*:</b>	7,553	5,381	3,244	8,937	13,923	12,718	607	0	52,363
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	524	524
<b>Spending Plan by Fund</b>									
Drainage and Wastewater Fund		5,104	3,244	8,937	13,923	12,718	607	0	44,533
<b>Total:</b>		5,104	3,244	8,937	13,923	12,718	607	0	44,533

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### 2011 - 2016 Adopted Capital Improvement Program

**SPU -  
SOLID WASTE**



# Seattle Public Utilities – Solid Waste

## Overview of Facilities and Programs

Seattle Public Utilities (SPU) is responsible for the collection and disposal of solid waste generated within the City of Seattle. To fulfill this responsibility the City owns two recycling and disposal stations, two household hazardous waste facilities, and a fleet of trucks and heavy equipment. In addition, the Solid Waste Capital Improvement Plan (CIP) supports post-closure projects on two landfills previously used by the City.

The City's solid waste collection system consists of the South Recycling and Disposal Station (SRDS), located in the South Park area of the city, and the North Recycling and Disposal Station, located just north of the Lake Washington Ship Canal near Stone Way. The South Household Hazardous Waste facility is located on the same site as the SRDS, while the North Household Hazardous Waste facility is located at North 125th Street, adjacent to the City-owned Haller Lake shops.

Private contractors collect household refuse and recyclables and deliver the waste to the recycling and disposal stations for its ultimate disposal. Private contractors also collect the City's commercial waste and deliver some of that waste to the City's recycling and disposal stations. Self-haulers, private individuals, and small contractors can also deliver their own refuse to the stations. Once deposited at a station, the trash is processed through a large compaction machine and placed in a sealed shipping container. This container is hauled by solid waste fleet trucks to the Union Pacific Railhead where it is placed on a train. Six times a week, the trains carry the loaded containers to a privately-owned regional landfill in eastern Oregon, where final disposal is accomplished. The trains return with empty containers to be refilled. Self-haulers may also bring their recyclables to the recycling and disposal stations. Materials are separated by the customer and placed in large bins. Once the bins are full, Solid Waste Field Operations personnel haul these bins to private recyclers for processing. Large goods (refrigerators, stoves, etc.) may also be brought to the stations for recycling. Customers can also bring unused pesticides and solvents to one of the two household hazardous waste sites. The City contracts with a private company to pick up and dispose of these materials.

The Solid Waste CIP is funded through solid waste rates and revenue bonds. Overhead costs for the CIP (such as rent and utilities) are currently budgeted in SPU's operating budget and then repaid as CIP expenditures are incurred.

## Highlights

- **South Transfer Station Rebuild:** This project will replace the existing solid waste transfer station that was built in 1966. The existing station is outdated and nearing the end of its useful life. The design and construction of replacement facilities include demolition of existing structures, excavation and removal of contaminated soil, backfill with clean soil, clean-up of the bus yard, re-alignment of a subsurface storm drain pipe to the perimeter of the site, and construction of the new recycling and reuse facilities, a household hazardous waste facility, and other utility facilities.
- **North Transfer Station Rebuild:** This project will replace the existing North Recycling and Disposal Station that was built in 1967. The existing station is outdated and nearing the end of its useful life. The design and construction of the new facility includes the demolition of the existing transfer station, demolition of a warehouse building, and construction of a new administrative building, employee facilities, recycling facilities, and other utility facilities. It also includes upgrading the parking lot for station parking. These two projects provide essential facilities for solid waste management in the City and enhance the recycling capability. They also provide the citizens of Seattle with sufficient recycling and solid waste services. Costs for both rebuilds include State

## Seattle Public Utilities – Solid Waste

Environmental Policy Act (SEPA) evaluations, permitting, property acquisition, design, construction, and purchase of facility equipment.

### Project Selection Process

SPU has adopted an asset management methodology for selecting projects to build. This is a triple bottom line approach which includes an in-depth analysis of the project's economic, social, and environmental benefits, and the ability to meet customer service levels. Using this approach, SPU has established a consistent analytical and modeling framework to achieve the most economical balance between capital investments and operation and maintenance expenditures to minimize the life cycle costs of any capital asset.

The Asset Management Committee (AMC), a committee of senior SPU executives, reviews each project valued at \$1 million or more and assures that only projects which minimize life cycle costs and meet triple bottom line criteria move forward. As a result of this analysis, several projects have been dropped when costs far exceed the benefits. Several cost-effective master planning efforts were approved to create up-to-date improvement and/or upgrade plans for several groups of assets. Other projects have been expanded or expedited because the benefits exceed the costs.

### Program Category Summaries

The 2011 Adopted Solid Waste CIP totals approximately \$29.2 million, (including Technology projects funded by the Solid Waste Fund, displayed in a separate section of this CIP), or \$10.1 million less than amounts planned for 2011 in the 2010-2015 Adopted CIP.

In the New Facilities Budget Control Level (BCL), the 2011 Adopted Budget of \$25.7 million is \$9.9 million lower than the 2011 planned funding level in the 2010-2015 Adopted CIP. This is mainly due to a reduction of \$8.1 million for the South Transfer Station Rebuild project. Delays in the design/build procurement process have delayed the start of construction and pushed significant costs into 2012. The 2011 allocation for the North Transfer Station Rebuild project was decreased by \$2.5 million; SPU has been working to build community support for the replacement of the Station, and the design/build procurement process will not start until 2011 after the community input process on station replacement alternatives has been completed.

In the Rehabilitation and Heavy Equipment BCL, the 2011 Adopted Budget of \$262,000 is \$116,000 higher than the 2011 planned funding level in the 2010-2015 Adopted CIP. The slight increase in this BCL is driven by two projects within the Kent Highlands Landfill project. The Kent Highlands Flare Replacement project was deferred from 2010 due to field modifications which have extended the useful life of the existing flare, and regulatory approval delays have resulted in overall delays to the Kent Highlands North Pond Diversion project.

In the Shared Cost Projects BCL, the 2011 Adopted Budget of \$1.9 million is \$93,000 lower than the planned funding level in the 2010-2015 Adopted CIP. This small change overall is related to minor adjustments to several of the projects in this BCL.

The Solid Waste CIP is composed of four program categories, which are summarized below.

**New Facilities:** This program plans, designs, and constructs new facilities to enhance solid waste operations. In 2011, SPU continues the implementation of its Solid Waste Facilities Master Plan, which features a two-station configuration.

## Seattle Public Utilities – Solid Waste

**Rehabilitation and Heavy Equipment:** This program designs and constructs projects to repair and/or upgrade solid waste facilities.

**Shared Cost Projects:** This program includes individual capital improvement projects which typically benefit multiple Lines of Business (e.g., the Water line of business and the Drainage and Wastewater line of business) and whose costs are "shared," or paid for, by more than one of SPU's utility funds. In 2011 the funding from the Solid Waste Fund is primarily for Heavy Equipment Purchases, with minimal funding for the Operations Control Center Upgrade and Security Improvements.

**Technology:** This program makes use of recent technology advances to increase efficiency and productivity in addition to replacing vital systems that will no longer be supported beyond 2011. This program also includes Solid Waste portion of shared fund technology projects.

### **Anticipated Operating Expenses Associated with Capital Facilities Projects**

When appropriate, the projects in the Solid Waste Fund CIP include operations and maintenance cost estimates. These estimates are refined after project completion and are included as part of SPU's budget.

### **City Council Provisos to the CIP**

There are no Council provisos.



**SPU-Solid Waste**

**Project Summary**

<b>BCL/Program Name/ Project Title &amp; ID</b>	<b>LTD Actuals</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>Total</b>
<b>New Facilities</b>									<b>C230B</b>
Miscellaneous Station Improvements (C2303)	2,332	309	306	312	212	108	0	0	3,580
North Transfer Station Rebuild (C2306)	1,158	1,360	1,479	9,462	21,542	25,003	662	34	60,702
South Park Development (C2304)	788	920	690	667	10,082	9,816	0	0	22,963
South Recycling Disposal Station Household Hazardous Waste Relocation (C2305)	1	0	0	0	0	173	2,032	0	2,205
South Transfer Station Rebuild (C2302)	16,306	22,298	23,236	24,970	531	1,624	18,770	3,942	111,675
<b>New Facilities</b>	<b>20,585</b>	<b>24,887</b>	<b>25,710</b>	<b>35,411</b>	<b>32,368</b>	<b>36,725</b>	<b>21,464</b>	<b>3,975</b>	<b>201,124</b>
<b>Rehabilitation and Heavy Equipment</b>									<b>C240B</b>
2010 Solid Waste Comprehensive Plan Update (C2407)	83	160	97	0	0	0	0	0	340
Disaster Debris Management Plan (C2405)	213	30	7	0	0	0	0	0	250
Historic Landfill Improvements (C2406)	195	50	26	0	0	0	0	0	271
Kent Highlands Landfill (C2402)	433	631	82	198	32	22	22	23	1,442
Midway Landfill (C2403)	89	85	51	73	27	27	28	28	407
Solid Waste Containers (C2404)	11,606	4,500	0	0	0	0	0	0	16,106
<b>Rehabilitation and Heavy Equipment</b>	<b>12,619</b>	<b>5,456</b>	<b>262</b>	<b>271</b>	<b>58</b>	<b>49</b>	<b>50</b>	<b>51</b>	<b>18,815</b>
<b>Shared Cost Projects</b>									<b>C410B</b>
1% for Art – SWF (C4118-SWF)	34	236	252	358	353	349	148	335	2,066
Heavy Equipment Purchases - SWF (C4116-SWF)	2,237	1,986	1,576	1,859	1,592	1,624	1,656	1,689	14,219
Operational Facility - Construction - SWF (C4106-SWF)	0	0	0	0	83	86	329	236	734
Operational Facility - Other - SWF (C4115-SWF)	60	0	0	0	0	0	0	0	60
Operations Control Center - SWF (C4105-SWF)	613	13	17	26	18	3	0	41	730
Security Improvements - SWF (C4113-SWF)	27	17	15	52	53	27	17	17	225
<b>Shared Cost Projects</b>	<b>2,971</b>	<b>2,252</b>	<b>1,860</b>	<b>2,295</b>	<b>2,098</b>	<b>2,088</b>	<b>2,150</b>	<b>2,318</b>	<b>18,033</b>

*\*Amounts in thousands of dollars*

**2011 - 2016 Adopted Capital Improvement Program**

**SPU-Solid Waste**

**Project Summary**

<b>BCL/Program Name/</b>									
<b>Project Title &amp; ID</b>	<b>LTD Actuals</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>Total</b>
<b>Technology</b>									<b>C510B</b>
Asset Information Management (C5407)	19	337	384	625	607	568	413	413	3,366
Customer Contact & Billing (C5402)	0	588	296	481	3,143	3,793	1,283	623	10,206
Enterprise Information Management (C5403)	0	192	73	170	165	113	119	117	949
IT Infrastructure (C5404)	101	201	291	271	276	276	300	348	2,065
Project Delivery & Performance (C5405)	14	321	371	438	410	474	453	453	2,936
Science & System Performance (C5406)	0	127	0	154	207	287	347	347	1,469
<b>Technology</b>	135	1,767	1,415	2,138	4,808	5,512	2,916	2,302	20,992
<b>Department Total*:</b>	36,310	34,362	29,248	40,115	39,332	44,373	26,580	8,646	258,965

*\*Amounts in thousands of dollars*

**2011 - 2016 Adopted Capital Improvement Program**

## SPU-Solid Waste

### Fund Summary

<b>Fund Name &amp; Code</b>	<b>LTD Actuals</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>Total</b>
Solid Waste Fund (45010)	36,310	34,362	29,248	40,115	39,332	44,373	26,580	8,646	258,965
<b>Department Total*:</b>	36,310	34,362	29,248	40,115	39,332	44,373	26,580	8,646	258,965

*\*Amounts in thousands of dollars*

**2011 - 2016 Adopted Capital Improvement Program**



## SPU-Solid Waste

### 1% for Art – SWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2001
<b>Project ID:</b>	C4118-SWF	<b>End Date:</b>	ONGOING
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides the Solid Waste funding for Seattle Public Utilities' 1% for Arts contribution. Eligibility is determined at the individual project level, with payment occurring from this program. Funds contributed to the 1% for Art program allow the commission, purchase, and installation of art in City-owned properties that are accessible to the public. The Municipal Arts Plan, prepared annually, describes the status of ongoing art projects and establishes the scope of work and allocations for new art projects.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Solid Waste Rates	34	236	252	358	353	349	148	335	2,066
<b>Total:</b>	34	236	252	358	353	349	148	335	2,066
<b>Fund Appropriations/Allocations</b>									
Solid Waste Fund	34	236	252	358	353	349	148	335	2,066
<b>Total*:</b>	34	236	252	358	353	349	148	335	2,066
<b>O &amp; M Costs (Savings)</b>			22	22	22	22	22	22	131
<b>Spending Plan by Fund</b>									
Solid Waste Fund		237	252	358	353	349	148	335	2,032
<b>Total:</b>		237	252	358	353	349	148	335	2,032

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Solid Waste

### 2010 Solid Waste Comprehensive Plan Update

<b>BCL/Program Name:</b>	Rehabilitation and Heavy Equipment	<b>BCL/Program Code:</b>	C240B
<b>Project Type:</b>	New Investment	<b>Start Date:</b>	Q1/2009
<b>Project ID:</b>	C2407	<b>End Date:</b>	Q4/2011
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	In more than one Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This project updates Seattle's Solid Waste Comprehensive Plan, which is required by the State of Washington every five years. The Comprehensive Plan guides the City's solid waste management and was included in the 2010-2015 Adopted CIP as C209001.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Solid Waste Rates	83	160	97	0	0	0	0	0	340
<b>Total:</b>	83	160	97	0	0	0	0	0	340
<b>Fund Appropriations/Allocations</b>									
Solid Waste Fund	83	160	97	0	0	0	0	0	340
<b>Total*:</b>	83	160	97	0	0	0	0	0	340
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Solid Waste Fund		181	97	0	0	0	0	0	278
<b>Total:</b>		181	97	0	0	0	0	0	278

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Solid Waste

### Disaster Debris Management Plan

<b>BCL/Program Name:</b>	Rehabilitation and Heavy Equipment	<b>BCL/Program Code:</b>	C240B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2006
<b>Project ID:</b>	C2405	<b>End Date:</b>	Q1/2011
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This project develops a citywide disaster debris management plan. Federal grant funds have been requested. The scope of the plan will depend on grant funding levels and grant requirements. This project was included in the 2010-2015 Adopted CIP as C206401.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Solid Waste Rates	213	30	7	0	0	0	0	0	250
<b>Total:</b>	213	30	7	0	0	0	0	0	250
<b>Fund Appropriations/Allocations</b>									
Solid Waste Fund	213	30	7	0	0	0	0	0	250
<b>Total*:</b>	213	30	7	0	0	0	0	0	250
<b>O &amp; M Costs (Savings)</b>			7	3	3	3	3	3	20
<b>Spending Plan by Fund</b>									
Solid Waste Fund		30	7	0	0	0	0	0	37
<b>Total:</b>		30	7	0	0	0	0	0	37

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Solid Waste

### Heavy Equipment Purchases - SWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	New Investment	<b>Start Date:</b>	ONGOING
<b>Project ID:</b>	C4116-SWF	<b>End Date:</b>	ONGOING
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides SPU's Solid Waste Utility crews with new and replacement heavy equipment that is used throughout Seattle and in parts of King County. Typical purchases include loaders, dozers, class 8 trucks, rail container chassis, yard waste and metal trailers, backhoes, and yard "goats" (a type of tractor.) These equipment purchases provide safe and efficient loading, transfer and short haul transportation of garbage, yard waste, metal, and other recyclables to the rail yard for "long haul" to the landfill and to contracted recycling processors. This project is one of four SPU fund-specific heavy equipment CIP projects.

		LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>										
Solid Waste Rates		2,237	1,986	1,576	1,859	1,592	1,624	1,656	1,689	14,219
<b>Total:</b>		2,237	1,986	1,576	1,859	1,592	1,624	1,656	1,689	14,219
<b>Fund Appropriations/Allocations</b>										
Solid Waste Fund		2,237	1,986	1,576	1,859	1,592	1,624	1,656	1,689	14,219
<b>Total*:</b>		2,237	1,986	1,576	1,859	1,592	1,624	1,656	1,689	14,219
<b>O &amp; M Costs (Savings)</b>				0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>										
Solid Waste Fund			1,981	1,576	1,859	1,592	1,624	1,656	1,689	11,977
<b>Total:</b>			1,981	1,576	1,859	1,592	1,624	1,656	1,689	11,977

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Solid Waste

### Historic Landfill Improvements

<b>BCL/Program Name:</b>	Rehabilitation and Heavy Equipment	<b>BCL/Program Code:</b>	C240B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2006
<b>Project ID:</b>	C2406	<b>End Date:</b>	Q4/2011
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This project provides improvements at historic landfills within the City as required by Public Health to ensure protection of human health and the environment. These improvements include underground gas extractions, which are necessary when high levels of gasses are detected. This project was included in the 2010-2015 Adopted CIP as C206601.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Solid Waste Rates	195	50	26	0	0	0	0	0	271
<b>Total:</b>	195	50	26	0	0	0	0	0	271
<b>Fund Appropriations/Allocations</b>									
Solid Waste Fund	195	50	26	0	0	0	0	0	271
<b>Total*:</b>	195	50	26	0	0	0	0	0	271
<b>O &amp; M Costs (Savings)</b>			26	3	3	3	3	3	39
<b>Spending Plan by Fund</b>									
Solid Waste Fund		25	26	0	0	0	0	0	51
<b>Total:</b>		25	26	0	0	0	0	0	51

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Solid Waste

### Kent Highlands Landfill

<b>BCL/Program Name:</b>	Rehabilitation and Heavy Equipment	<b>BCL/Program Code:</b>	C240B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2005
<b>Project ID:</b>	C2402	<b>End Date:</b>	ONGOING
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This program funds compliance activities related to the Kent Highlands landfill closure project. These activities include environmental and feasibility studies to demonstrate the effectiveness of the Kent Highlands landfill closure project, as well as various landfill improvements. The environmental and feasibility studies are required under the existing Consent Decree with the State Department of Ecology and validate that current environmental controls are effective and reduce the likelihood of additional capital or O&M expenditures. The landfill improvements include replacement of existing flares, drainage improvements, groundwater protection and water treatment. This program was included in the 2010-2015 Adopted CIP as three different projects: C205404, C205405 and C205406.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Solid Waste Rates	433	631	82	198	32	22	22	23	1,442
<b>Total:</b>	433	631	82	198	32	22	22	23	1,442
<b>Fund Appropriations/Allocations</b>									
Solid Waste Fund	433	631	82	198	32	22	22	23	1,442
<b>Total*:</b>	433	631	82	198	32	22	22	23	1,442
<b>O &amp; M Costs (Savings)</b>			14	14	14	14	14	14	87
<b>Spending Plan by Fund</b>									
Solid Waste Fund		572	82	198	32	22	22	23	949
<b>Total:</b>		572	82	198	32	22	22	23	949

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Solid Waste

### Midway Landfill

<b>BCL/Program Name:</b>	Rehabilitation and Heavy Equipment	<b>BCL/Program Code:</b>	C240B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2005
<b>Project ID:</b>	C2403	<b>End Date:</b>	ONGOING
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This program funds compliance activities related to the Midway landfill closure project. These activities include environmental and feasibility studies to demonstrate the effectiveness of the Midway landfill closure project as well as retrofits to the existing Midway flare facility. The studies are required under the existing Consent Decree with the State Department of Ecology and validate that current environmental controls are effective and reduce the likelihood of additional capital or O&M expenditures. The flare improvements are also a regulatory requirement and to ensure that SPU maintains regulatory compliance, a smaller flare or new technology will be required. This program was included in the 2010-2015 Adopted CIP as two different projects: C205407 and C207003.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Solid Waste Rates	89	85	51	73	27	27	28	28	407
<b>Total:</b>	89	85	51	73	27	27	28	28	407
<b>Fund Appropriations/Allocations</b>									
Solid Waste Fund	89	85	51	73	27	27	28	28	407
<b>Total*:</b>	89	85	51	73	27	27	28	28	407
<b>O &amp; M Costs (Savings)</b>			4	4	4	4	4	4	24
<b>Spending Plan by Fund</b>									
Solid Waste Fund		9	51	73	27	27	28	28	242
<b>Total:</b>		9	51	73	27	27	28	28	242

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

## SPU-Solid Waste

### Miscellaneous Station Improvements

<b>BCL/Program Name:</b>	New Facilities	<b>BCL/Program Code:</b>	C230B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q4/2003
<b>Project ID:</b>	C2303	<b>End Date:</b>	Q4/2014
<b>Location:</b>	8101 2nd Ave S		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Greater Duwamish	<b>Urban Village:</b>	Duwamish

This project provides repairs to the existing City solid waste transfer stations. The existing City solid waste transfer stations were constructed in 1966 and are at the end of their useful life. This work allows short term actions to ensure that these facilities operate reliably and safely, pending the completion of the Solid Waste Facilities Master Plan. The work includes emergency repair of a scale deck, installation of protective walls, replacement of a failing retaining wall, and temporary replacement/refurbishment of aging crew facilities. This project was included in the 2010-2015 Adopted CIP as C203005.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Solid Waste Rates	2,332	309	306	312	212	108	0	0	3,580
<b>Total:</b>	2,332	309	306	312	212	108	0	0	3,580
<b>Fund Appropriations/Allocations</b>									
Solid Waste Fund	2,332	309	306	312	212	108	0	0	3,580
<b>Total*:</b>	2,332	309	306	312	212	108	0	0	3,580
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	36	36	72
<b>Spending Plan by Fund</b>									
Solid Waste Fund		500	306	312	212	108	0	0	1,439
<b>Total:</b>		500	306	312	212	108	0	0	1,439

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### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Solid Waste

### North Transfer Station Rebuild

<b>BCL/Program Name:</b>	New Facilities	<b>BCL/Program Code:</b>	C230B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q1/2006
<b>Project ID:</b>	C2306	<b>End Date:</b>	Q4/2016
<b>Location:</b>	1350 N 34th St		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Lake Union	<b>Urban Village:</b>	Not in an Urban Village

This project provides for the replacement of the existing North Recycling and Disposal Station (NRDS) in Wallingford. The existing station was built in 1967 and is outdated and nearing the end of its useful life. The design and construction of a new facility includes the demolition of the existing transfer station and construction of a new transfer station on the existing site. It also includes demolition of a warehouse building on the adjacent property to the east and construction of a new administrative building, employee facilities, recycling facilities, other utility facilities, and upgrading the parking lot to the northeast of the existing station for station parking. This project provides essential facilities for solid waste management in the city and enhances the recycling capability and was included in the 2010-2015 Adopted CIP as C207005.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Solid Waste Rates	1,158	1,360	1,479	9,462	21,542	25,003	662	34	60,702
<b>Total:</b>	1,158	1,360	1,479	9,462	21,542	25,003	662	34	60,702
<b>Fund Appropriations/Allocations</b>									
Solid Waste Fund	1,158	1,360	1,479	9,462	21,542	25,003	662	34	60,702
<b>Total*:</b>	1,158	1,360	1,479	9,462	21,542	25,003	662	34	60,702
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Solid Waste Fund		1,120	1,479	9,462	21,542	25,003	662	34	59,303
<b>Total:</b>		1,120	1,479	9,462	21,542	25,003	662	34	59,303

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### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Solid Waste

### Operational Facility - Construction - SWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2004
<b>Project ID:</b>	C4106-SWF	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing facilities program renovates, rehabilitates, replaces existing buildings, and constructs new facilities at various locations within the city limits to address deficiencies, failures, and functional changes in the SPU Lines of Business. Typical improvements include, but are not limited to, roof replacements, exterior wall or cladding replacements, and improvements to administrative office space, crew and shop space, lighting, heating and ventilation systems, and facilities structures. These improvements increase the useful life of the facilities, preserve the value of the assets, and provide a safe working environment. No work is currently planned until 2013.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Solid Waste Rates	0	0	0	0	83	86	329	236	734
<b>Total:</b>	0	0	0	0	83	86	329	236	734
<b>Fund Appropriations/Allocations</b>									
Solid Waste Fund	0	0	0	0	83	86	329	236	734
<b>Total*:</b>	0	0	0	0	83	86	329	236	734
<b>O &amp; M Costs (Savings)</b>			32	32	32	32	32	32	193
<b>Spending Plan by Fund</b>									
Solid Waste Fund		0	0	0	83	86	329	236	734
<b>Total:</b>		0	0	0	83	86	329	236	734

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### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Solid Waste

### Operational Facility - Other - SWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2006
<b>Project ID:</b>	C4115-SWF	<b>End Date:</b>	ONGOING
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing facilities program provides funding to purchase, replace, or install new building materials or building equipment within the city limits to address deficiencies, failures, and functional changes in the SPU Lines of Business. Typical improvements include but are not limited to solid waste systems, prefabricated buildings, storage buildings, and fencing. No spending is currently anticipated in the 2011-2016 timeframe but as future projects are identified, necessary funding will be requested.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Solid Waste Rates	60	0	0	0	0	0	0	0	60
<b>Total:</b>	60	0	0	0	0	0	0	0	60
<b>Fund Appropriations/Allocations</b>									
Solid Waste Fund	60	0	0	0	0	0	0	0	60
<b>Total*:</b>	60	0	0	0	0	0	0	0	60
<b>O &amp; M Costs (Savings)</b>			4	4	4	4	4	0	20
<b>Spending Plan by Fund</b>									
Solid Waste Fund		70	0	0	0	0	0	0	70
<b>Total:</b>		70	0	0	0	0	0	0	70

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Solid Waste

### Operations Control Center - SWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2003
<b>Project ID:</b>	C4105-SWF	<b>End Date:</b>	ONGOING
<b>Location:</b>	2700 Airport Way S		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Greater Duwamish	<b>Urban Village:</b>	Duwamish

This ongoing facilities program renovates, rehabilitates, replaces existing buildings, and constructs new facilities at the Operations Control Center located at 2700 Airport Way South to improve the efficiency and effectiveness of the field crews delivering utility services to customers. Typical improvements include, but are not limited to, roof and other exterior replacements, improvements to public spaces, office and crew spaces and lighting, and heating and ventilation systems. These improvements increase the useful life of the facility, preserve the value of the asset, and provide a safe work and public space environment. Minimal spending is planned for 2014 and 2015.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Solid Waste Rates	613	13	17	26	18	3	0	41	730
<b>Total:</b>	613	13	17	26	18	3	0	41	730
<b>Fund Appropriations/Allocations</b>									
Solid Waste Fund	613	13	17	26	18	3	0	41	730
<b>Total*:</b>	613	13	17	26	18	3	0	41	730
<b>O &amp; M Costs (Savings)</b>			8	8	8	8	8	8	47
<b>Spending Plan by Fund</b>									
Solid Waste Fund		10	17	26	18	3	0	41	114
<b>Total:</b>		10	17	26	18	3	0	41	114

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### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Solid Waste

### Security Improvements - SWF

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2007
<b>Project ID:</b>	C4113-SWF	<b>End Date:</b>	Q4/2016
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program funds physical, integrated security system components at Solid Waste infrastructure sites throughout the City. Components may include, but are not limited to, fences, gates, access control card readers, intercoms, lighting, door and hatch contacts, CCTV cameras, motion detection devices, and fiber and conduit. In addition, this program enhances protection of SPU's critical infrastructure and addresses vulnerabilities identified in U.S. Environmental Protection Agency (EPA) mandated vulnerability assessments.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Solid Waste Rates	27	17	15	52	53	27	17	17	225
<b>Total:</b>	27	17	15	52	53	27	17	17	225
<b>Fund Appropriations/Allocations</b>									
Solid Waste Fund	27	17	15	52	53	27	17	17	225
<b>Total*:</b>	27	17	15	52	53	27	17	17	225
<b>O &amp; M Costs (Savings)</b>			13	13	13	13	13	13	80
<b>Spending Plan by Fund</b>									
Solid Waste Fund		18	15	52	53	27	17	17	198
<b>Total:</b>		18	15	52	53	27	17	17	198

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### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Solid Waste

### Solid Waste Containers

<b>BCL/Program Name:</b>	Rehabilitation and Heavy Equipment	<b>BCL/Program Code:</b>	C240B
<b>Project Type:</b>	New Investment	<b>Start Date:</b>	Q1/2005
<b>Project ID:</b>	C2404	<b>End Date:</b>	Q1/2011
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This project funds the acquisition of carts, cans, and dumpsters to support the collection of garbage, food, yardwaste, and recyclables under the new collection contracts. The desired inventory level is expected to be achieved by the end of 2010, but it is included in the 2011 CIP Budget for possible closeout expenditures. This project was included in the 2010-2015 Adopted CIP as C205412.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Solid Waste Rates	11,606	4,500	0	0	0	0	0	0	16,106
<b>Total:</b>	11,606	4,500	0	0	0	0	0	0	16,106
<b>Fund Appropriations/Allocations</b>									
Solid Waste Fund	11,606	4,500	0	0	0	0	0	0	16,106
<b>Total*:</b>	11,606	4,500	0	0	0	0	0	0	16,106

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Solid Waste

### South Park Development

<b>BCL/Program Name:</b>	New Facilities	<b>BCL/Program Code:</b>	C230B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q2/2006
<b>Project ID:</b>	C2304	<b>End Date:</b>	Q4/2014
<b>Location:</b>	8100 2nd Ave S		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Greater Duwamish	<b>Urban Village:</b>	Duwamish

This project complies with a Washington State Department of Ecology Agreed Order to conduct a Remedial Investigation and Feasibility Study of the historic South Park Landfill site and covers investigation and eventual remediation of the landfill site to protect human health and the environment. Final cost allocation among potentially liable parties will occur at a later stage. This project was included in the 2010-2015 Adopted CIP as C206402.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Solid Waste Rates	788	920	690	667	10,082	9,816	0	0	22,963
<b>Total:</b>	788	920	690	667	10,082	9,816	0	0	22,963
<b>Fund Appropriations/Allocations</b>									
Solid Waste Fund	788	920	690	667	10,082	9,816	0	0	22,963
<b>Total*:</b>	788	920	690	667	10,082	9,816	0	0	22,963
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	50	50	100
<b>Spending Plan by Fund</b>									
Solid Waste Fund		975	690	667	10,082	9,816	0	0	22,230
<b>Total:</b>		975	690	667	10,082	9,816	0	0	22,230

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Solid Waste

### South Recycling Disposal Station Household Hazardous Waste Relocation

<b>BCL/Program Name:</b>	New Facilities	<b>BCL/Program Code:</b>	C230B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2014
<b>Project ID:</b>	C2305	<b>End Date:</b>	Q4/2015
<b>Location:</b>	8105 5th Ave S		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Greater Duwamish	<b>Urban Village:</b>	Duwamish

This project relocates the South Household Hazardous Waste (SHHW) facility and makes facility improvements required by code and ensures other South Recycling and Disposal Station (SRDS) redevelopment efforts are not constrained. Work on the North Transfer Station and South Transfer Station projects needs to be complete before this project can start. This project was included in the 2010-2015 Adopted CIP as C207002.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Solid Waste Rates	1	0	0	0	0	173	2,032	0	2,205
<b>Total:</b>	1	0	0	0	0	173	2,032	0	2,205
<b>Fund Appropriations/Allocations</b>									
Solid Waste Fund	1	0	0	0	0	173	2,032	0	2,205
<b>Total*:</b>	1	0	0	0	0	173	2,032	0	2,205
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	22	22

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program

## SPU-Solid Waste

### South Transfer Station Rebuild

<b>BCL/Program Name:</b>	New Facilities	<b>BCL/Program Code:</b>	C230B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q1/2006
<b>Project ID:</b>	C2302	<b>End Date:</b>	Q4/2016
<b>Location:</b>	8100 2nd AVE S		
<b>Neighborhood Plan:</b>	Duwamish	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Greater Duwamish	<b>Urban Village:</b>	Duwamish

This program provides for the replacement of the existing South Recycling and Disposal Station (SRDS) in South Park. The existing solid waste transfer station was built in 1966 and is outdated and nearing the end of its useful life. The design and construction of replacement facilities is a two phase project. The first phase includes the development of a new transfer station and associated facilities adjacent to the existing facility on a 9.1 acre parcel to the northwest of the existing station. The second phase includes demolition of the existing facilities and development of new recycling and reuse facilities, a household hazardous waste facility, and other utility facilities. This program also allows for clean up at the bus-yard facility. This program provides essential facilities for solid waste management in the city and enhances recycling capability.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Solid Waste Rates	16,306	22,298	23,236	24,970	531	1,624	18,770	3,942	111,675
<b>Total:</b>	16,306	22,298	23,236	24,970	531	1,624	18,770	3,942	111,675
<b>Fund Appropriations/Allocations</b>									
Solid Waste Fund	16,306	22,298	23,236	24,970	531	1,624	18,770	3,942	111,675
<b>Total*:</b>	16,306	22,298	23,236	24,970	531	1,624	18,770	3,942	111,675
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Solid Waste Fund		17,012	23,236	24,970	531	1,624	18,770	3,942	90,083
<b>Total:</b>		17,012	23,236	24,970	531	1,624	18,770	3,942	90,083

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

### 2011 - 2016 Adopted Capital Improvement Program



**SPU -  
TECHNOLOGY  
PROJECTS**



**Project Summary**

<b>BCL/Program Name/</b>									
<b>Project Title &amp; ID</b>	<b>LTD Actuals</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>Total</b>
<b>Technology</b>									<b>C510B</b>
Asset Information Management (C5407)	410	2,315	3,258	3,072	3,771	3,529	2,566	2,566	21,487
Customer Contact & Billing (C5402)	0	2,523	1,311	2,985	11,127	13,060	5,869	3,869	40,744
Enterprise Information Management (C5403)	0	1,105	455	1,059	1,025	701	740	725	5,810
IT Infrastructure (C5404)	1,175	1,355	2,137	1,685	1,716	1,720	1,869	2,169	13,825
Project Delivery & Performance (C5405)	106	2,337	2,350	2,721	2,548	2,946	2,815	2,815	18,638
Science & System Performance (C5406)	0	940	737	1,685	1,284	1,784	2,156	2,156	10,742
<b>Technology</b>	1,691	10,575	10,248	13,207	21,471	23,740	16,015	14,301	111,247
<b>Department Total*:</b>	1,691	10,575	10,248	13,207	21,471	23,740	16,015	14,301	111,247

*\*Amounts in thousands of dollars*



## SPU-Technology

### Fund Summary

<b>Fund Name &amp; Code</b>	<b>LTD Actuals</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>Total</b>
Drainage and Wastewater Fund (44010)	819	4,091	4,062	5,001	7,664	8,425	5,888	5,319	41,269
Solid Waste Fund (45010)	135	1,767	1,415	2,138	4,808	5,512	2,916	2,302	20,992
Water Fund (43000)	738	4,717	4,770	6,067	8,998	9,803	7,211	6,680	48,985
<b>Department Total*:</b>	<b>1,691</b>	<b>10,575</b>	<b>10,248</b>	<b>13,207</b>	<b>21,471</b>	<b>23,740</b>	<b>16,015</b>	<b>14,301</b>	<b>111,247</b>

*\*Amounts in thousands of dollars*

**2011 - 2016 Adopted Capital Improvement Program**



# SPU-Technology

## Asset Information Management

<b>BCL/Program Name:</b>	Technology	<b>BCL/Program Code:</b>	C510B
<b>Project Type:</b>	New Investment	<b>Start Date:</b>	ONGOING
<b>Project ID:</b>	C5407	<b>End Date:</b>	ONGOING
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides technology applications, upgrades and data management tools in support of SPU's field operations and asset maintenance programs. Several new and updated technology solutions designed to enhance the efficiency and effectiveness of drinking water, sewer, drainage, and solid waste operations are planned. These include the development of an Asset Data Register (central repository of asset data), dispatch and emergency response systems, vehicle location tracking tools, and essential upgrades to the Work Management System. Other related, but as yet undetermined projects will be undertaken to further enhance safety and improve responsiveness of SPU's utility operations. In the 2010-2015 Adopted CIP, this project was titled "Technical Information Management".

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Solid Waste Rates	19	337	384	625	607	568	413	413	3,366
Drainage and Wastewater Rates	328	997	1,235	784	1,414	1,323	962	962	8,006
Water Rates	63	981	1,640	1,663	1,750	1,638	1,191	1,191	10,115
<b>Total:</b>	410	2,315	3,258	3,072	3,771	3,529	2,566	2,566	21,487
<b>Fund Appropriations/Allocations</b>									
Water Fund	63	981	1,640	1,663	1,750	1,638	1,191	1,191	10,115
Drainage and Wastewater Fund	328	997	1,235	784	1,414	1,323	962	962	8,006
Solid Waste Fund	19	337	384	625	607	568	413	413	3,366
<b>Total*:</b>	410	2,315	3,258	3,072	3,771	3,529	2,566	2,566	21,487
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Water Fund		755	1,640	1,663	1,750	1,638	1,191	1,191	9,826
Drainage and Wastewater Fund		640	1,235	784	1,414	1,323	962	962	7,321
Solid Waste Fund		0	384	625	607	568	413	413	3,010
<b>Total:</b>		1,395	3,258	3,072	3,771	3,529	2,566	2,566	20,157

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## 2011 - 2016 Adopted Capital Improvement Program

# SPU-Technology

## Customer Contact & Billing

<b>BCL/Program Name:</b>	Technology	<b>BCL/Program Code:</b>	C510B
<b>Project Type:</b>	New Investment	<b>Start Date:</b>	ONGOING
<b>Project ID:</b>	C5402	<b>End Date:</b>	ONGOING
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This program will provide technology solutions and business application upgrades in support of SPU's Customer Contact Center and activities carried out by the Customer Service Branch. Planned projects include, but are not limited to, an upgrade to the Consolidated Customer Service System and new technology solutions for enhanced customer contact management. This program is intended to enhance customer service, ensure accurate billing, and improve efficiency in the Call Center.

		LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>										
Water Rates		0	769	547	1,385	4,171	4,820	2,475	1,795	15,962
Drainage and Wastewater Rates		0	1,166	469	1,119	3,813	4,447	2,111	1,451	14,575
Solid Waste Rates		0	588	296	481	3,143	3,793	1,283	623	10,206
<b>Total:</b>		0	2,523	1,311	2,985	11,127	13,060	5,869	3,869	40,744
<b>Fund Appropriations/Allocations</b>										
Water Fund		0	769	547	1,385	4,171	4,820	2,475	1,795	15,962
Drainage and Wastewater Fund		0	1,166	469	1,119	3,813	4,447	2,111	1,451	14,575
Solid Waste Fund		0	588	296	481	3,143	3,793	1,283	623	10,206
<b>Total*:</b>		0	2,523	1,311	2,985	11,127	13,060	5,869	3,869	40,744
<b>O &amp; M Costs (Savings)</b>				0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>										
Water Fund			496	547	1,385	4,171	4,820	2,475	1,795	15,688
Drainage and Wastewater Fund			366	469	1,119	3,813	4,447	2,111	1,451	13,776
Solid Waste Fund			169	296	481	3,143	3,793	1,283	623	9,787
<b>Total:</b>			1,030	1,311	2,985	11,127	13,060	5,869	3,869	39,251

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## 2011 - 2016 Adopted Capital Improvement Program

# SPU-Technology

## Enterprise Information Management

<b>BCL/Program Name:</b>	Technology	<b>BCL/Program Code:</b>	C510B
<b>Project Type:</b>	New Investment	<b>Start Date:</b>	ONGOING
<b>Project ID:</b>	C5403	<b>End Date:</b>	ONGOING
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This program will provide several integrated technology solutions in support of the management of SPU's corporate knowledge, including data, information, documents, and web content. Typical improvements may include, but are not limited to, replacement of shared file storage, new online collaboration tools, introduction of workflow, tracking & reporting applications, web content management systems, and an enterprise document management solution. This program enhances SPU's ability to retrieve, share, distribute and manage corporate information. In the 2010-2015 Adopted CIP, this project was titled "Information Management".

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Solid Waste Rates	0	192	73	170	165	113	119	117	949
Drainage and Wastewater Rates	0	305	171	397	384	263	278	272	2,069
Water Rates	0	608	211	491	476	325	343	336	2,791
<b>Total:</b>	0	1,105	455	1,059	1,025	701	740	725	5,810
<b>Fund Appropriations/Allocations</b>									
Water Fund	0	608	211	491	476	325	343	336	2,791
Drainage and Wastewater Fund	0	305	171	397	384	263	278	272	2,069
Solid Waste Fund	0	192	73	170	165	113	119	117	949
<b>Total*:</b>	0	1,105	455	1,059	1,025	701	740	725	5,810
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Water Fund		1,225	211	491	476	325	343	336	3,408
Drainage and Wastewater Fund		770	171	397	384	263	278	272	2,534
Solid Waste Fund		380	73	171	165	113	119	117	1,138
<b>Total:</b>		2,375	455	1,059	1,025	701	740	725	7,080

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### 2011 - 2016 Adopted Capital Improvement Program

# SPU-Technology

## IT Infrastructure

<b>BCL/Program Name:</b>	Technology	<b>BCL/Program Code:</b>	C510B
<b>Project Type:</b>	New Investment	<b>Start Date:</b>	ONGOING
<b>Project ID:</b>	C5404	<b>End Date:</b>	ONGOING
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This IT asset management program ensures the availability, reliability, and security of SPU's corporate computing infrastructure. The program acquires and maintains SPU-owned and managed servers, local networks, shared storage and backup systems, operating software, and communications infrastructure.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	618	661	1,076	810	824	826	895	1,051	6,762
Drainage and Wastewater Rates	456	493	769	604	616	617	673	769	4,999
Solid Waste Rates	101	201	291	271	276	276	300	348	2,065
<b>Total:</b>	1,175	1,355	2,137	1,685	1,716	1,720	1,869	2,169	13,825
<b>Fund Appropriations/Allocations</b>									
Water Fund	618	661	1,076	810	824	826	895	1,051	6,762
Drainage and Wastewater Fund	456	493	769	604	616	617	673	769	4,999
Solid Waste Fund	101	201	291	271	276	276	300	348	2,065
<b>Total*:</b>	1,175	1,355	2,137	1,685	1,716	1,720	1,869	2,169	13,825
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Water Fund		904	1,076	810	824	826	895	1,051	6,387
Drainage and Wastewater Fund		700	769	604	616	617	673	769	4,750
Solid Waste Fund		186	291	271	276	276	300	348	1,949
<b>Total:</b>		1,790	2,137	1,685	1,716	1,720	1,869	2,169	13,086

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## 2011 - 2016 Adopted Capital Improvement Program

# SPU-Technology

## Project Delivery & Performance

<b>BCL/Program Name:</b>	Technology	<b>BCL/Program Code:</b>	C510B
<b>Project Type:</b>	New Investment	<b>Start Date:</b>	ONGOING
<b>Project ID:</b>	C5405	<b>End Date:</b>	ONGOING
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides technology applications and application upgrades in support of improvements to project delivery and performance. Planned projects include development of an Enterprise Project Management System, replacement of the Engineering Support Contract Payments system, and SPU's share of costs for the City's central financial system upgrades. Future projects may include development of new Enterprise Resource Planning systems such as HR provisioning and financial reporting. This program will result in an improved ability to plan and deliver projects on schedule and within budget.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Solid Waste Rates	14	321	371	438	410	474	453	453	2,936
Drainage and Wastewater Rates	34	754	829	1,008	955	1,105	1,056	1,056	6,797
Water Rates	57	1,262	1,150	1,275	1,182	1,367	1,306	1,306	8,905
<b>Total:</b>	106	2,337	2,350	2,721	2,548	2,946	2,815	2,815	18,638
<b>Fund Appropriations/Allocations</b>									
Water Fund	57	1,262	1,150	1,275	1,182	1,367	1,306	1,306	8,905
Drainage and Wastewater Fund	34	754	829	1,008	955	1,105	1,056	1,056	6,797
Solid Waste Fund	14	321	371	438	410	474	453	453	2,936
<b>Total*:</b>	106	2,337	2,350	2,721	2,548	2,946	2,815	2,815	18,638
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Water Fund		1,586	1,150	1,275	1,182	1,367	1,306	1,306	9,172
Drainage and Wastewater Fund		992	829	1,008	955	1,105	1,056	1,056	7,001
Solid Waste Fund		428	371	438	410	474	453	453	3,029
<b>Total:</b>		3,006	2,350	2,721	2,548	2,946	2,815	2,815	19,201

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## 2011 - 2016 Adopted Capital Improvement Program

# SPU-Technology

## Science & System Performance

<b>BCL/Program Name:</b>	Technology	<b>BCL/Program Code:</b>	C510B
<b>Project Type:</b>	New Investment	<b>Start Date:</b>	ONGOING
<b>Project ID:</b>	C5406	<b>End Date:</b>	ONGOING
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program will provide new and improved technology applications and accompanying data management tools to support the gathering, monitoring, tracking and analysis of science and engineering information. Several planned projects include replacement of obsolete regulatory compliance tracking applications, improvements to the drinking water laboratory information system, upgrades to field monitoring equipment, and the integration of SCADA data with other data systems. This program enhances SPU's ability to control water quality and comply with environmental and health regulations. In the 2010-2015 Adopted CIP, this project was titled "Science Information Management".

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	0	436	147	443	596	828	1,000	1,000	4,450
Drainage and Wastewater Rates	0	377	590	1,088	481	669	809	809	4,823
Solid Waste Rates	0	127	0	154	207	287	347	347	1,469
<b>Total:</b>	0	940	737	1,685	1,284	1,784	2,156	2,156	10,742
<b>Fund Appropriations/Allocations</b>									
Water Fund	0	436	147	443	596	828	1,000	1,000	4,450
Drainage and Wastewater Fund	0	377	590	1,088	481	669	809	809	4,823
Solid Waste Fund	0	127	0	154	207	287	347	347	1,469
<b>Total*:</b>	0	940	737	1,685	1,284	1,784	2,156	2,156	10,742
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Water Fund		178	147	443	596	828	1,000	1,000	4,193
Drainage and Wastewater Fund		407	590	1,088	482	669	809	809	4,852
Solid Waste Fund		242	0	154	207	287	347	347	1,584
<b>Total:</b>		828	737	1,685	1,284	1,784	2,156	2,156	10,630

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## 2011 - 2016 Adopted Capital Improvement Program

# **SPU - WATER**



## Overview of Facilities and Programs

Seattle Public Utilities (SPU) operates the City-owned water system serving a population of approximately 1.45 million people in a 450-square-mile area. The system extends from Edmonds to Des Moines and from Puget Sound to Lake Joy near Duvall. SPU retails water in Seattle and adjacent areas, and sells wholesale to 21 suburban water utilities and two interlocal associations for distribution of water to their customers. SPU's Capital Improvement Program (CIP) is the vehicle for upgrading and expanding water infrastructure as well as constructing projects that protect, conserve, and enhance the region's environmental resources. The overarching goal of the CIP is to assure that the water system is properly upgraded and expanded to reliably deliver high-quality, safe drinking water to customers, protect the environment, and comply with regulations.

The Utilities' Water Fund (WF) financial policies, adopted in 2005, require cash contributions to be provided to the CIP, averaging 20% of total CIP costs over any given rate period. The remaining portion of the Water Fund CIP is bond funded. Overhead costs for the CIP are budgeted in the SPU operating fund and are reimbursed as CIP expenditures are incurred.

The 2011-2016 time period will substantially close out the era of major projects in the Water Fund, including two water treatment plants, coverings for several reservoirs, fish passage improvements and construction of a sockeye hatchery consistent with regulatory requirements and the Cedar River Habitat Conservation Plan. These projects have helped secure the supply of safe drinking water and provide appropriate stewardship of the watersheds consistent with federal and state requirements. In the coming years, the overall CIP will be reduced, and investments will be focused on maintaining the physical infrastructure for distribution and transmission of clean drinking water, with continued watershed stewardship. Only one large construction project is contemplated during the period 2011-2016: the Morse Lake Pump project. The project is not funded after 2011 in the 2011-2016 Adopted CIP, however, because major design options for the project are currently under evaluation. Full funding is anticipated when project options have been determined. The project will ensure that Masonry Pool, which abuts Morse Lake, discharges enough water into the Cedar River to maintain the supply of fresh drinking water in the region and sustain fish habitats.

## Highlights

- **Open Distribution System Reservoirs:** Consistent with Ordinance 120899, Seattle Public Utilities (SPU) is replacing its open finished drinking water reservoirs with underground structures that will improve the quality and security of the water system. The City finished underground replacement work on Magnolia Reservoir in 1995 and Lincoln Reservoir in 2004. Construction of the Beacon and Myrtle Reservoir under-grounding began in 2006. Both of these reservoirs have been put back into service and will be completed in 2011. Construction of a new buried reservoir to replace West Seattle Reservoir began in 2008 and is targeted for completion by the end of 2013. The construction of Maple Leaf Reservoir's replacement began in 2009 and is scheduled to end in mid 2013. SPU plans to decommission Roosevelt Reservoir, and further evaluate the possibility of decommissioning Volunteer Reservoir; however, permanent actions at these two reservoirs are not expected to occur until after Maple Leaf Reservoir is completed and the City has had an opportunity to take them off-line for a period of time to observe the water system's performance without them.
- **Cedar River Watershed Habitat Conservation Plan (HCP):** In 2000, after seven years of intensive study and negotiation with state, federal, and tribal authorities, the City entered into a 50-year habitat conservation plan for the Cedar River Watershed. This agreement commits the City to certain projects and management practices to mitigate the environmental impacts of drinking water diversions. Major HCP components include investments in fisheries enhancement projects such as

the Landsburg Fish Passage Improvements, which was completed in 2004. The remaining large fisheries enhancement projects within the Cedar River HCP Program are the Cedar Sockeye Hatchery, and acquisition of fish habitat lands in the lower Cedar River. Other HCP projects within the municipal watershed include culvert improvements and other stream restoration work, removal of logging roads, and forest restoration. Research and monitoring are also being conducted in association with many of these projects. Approximately \$30.0 million is included in the 2011-2016 Adopted CIP for these projects.

- **Morse Lake Pump Plant:** This project, when fully funded, will replace or rehabilitate the existing barge-mounted pump plants at Chester Morse Lake, which are near or at the end of their useful life. These pumps are designed for drought situations to access so-called "dead storage" at the lake, which is at or below the level that drains by gravity. The improvements enhance the ability to provide reliable water supply and in-stream flows in the Cedar River during drought conditions and to address requirements of the Habitat Conservation Plan. Various project options are currently being evaluated through the Asset Management process and the project will not be fully funded until final determination has been made.

### Project Selection Process

SPU has adopted an asset management methodology for selecting projects to build. This is a triple bottom line approach which includes an in-depth analysis of the project's economic, social, and environmental benefits, and the ability to meet customer service levels. Using this approach, SPU has established a consistent analytical and modeling framework to achieve the most economical balance between capital investments and operation and maintenance expenditures to minimize the life cycle costs of any capital asset.

The Asset Management Committee (AMC), a committee of senior SPU executives, reviews each project valued at \$1 million or more and assures that only projects which minimize life cycle costs and meet triple bottom line criteria move forward. As a result of this analysis, several projects have been dropped when costs far exceed the benefits. Several cost-effective master planning efforts were approved to create up-to-date improvement and/or upgrade plans for several groups of assets. Other projects have been expanded or expedited because the benefits exceed the costs.

### Program Category Summaries

The Adopted Water CIP totals approximately \$79.1 million in 2011, including Technology projects funded by the Water Fund and displayed in a separate section of this CIP, or \$8.4 million less than the 2011 Endorsed Budget.

In the Distribution Budget Control Level (BCL), the 2011 Adopted Budget of \$20.5 million is \$0.8 million lower than the 2011 planned funding level in the 2010-2015 Adopted CIP. This is largely due to a reduction in the New Taps project to reflect the continued slowdown in real estate development, which has resulted in a decrease in the demand for new taps.

In the Habitat Conservation Program BCL, the 2011 Adopted Budget of \$11.1 million is \$2.5 million higher than the 2011 planned funding level in the 2010-2015 Adopted CIP. This is due mostly to timing shifts in the Cedar Sockeye Hatchery project. This project is a requirement of the Cedar River Watershed's Habitat Conservation Plan and was initially slated for completion in 2005, but significant and numerous legal challenges resulted in a multiple-year delay in construction contract procurement. Construction commenced in July of 2010.

In the Shared Cost Projects BCL, the 2011 Adopted Budget of \$15.0 million is \$5.7 million lower than the 2011 planned funding level in the 2010-2015 Adopted CIP. This reduction is driven in part by schedule changes to some of the major transportation projects as well as the expected completion of other transportation projects in 2010. Reductions were also made to the Integrated Control Monitoring Program (I-SCADA), primarily to fund higher priority projects while still meeting the overall CIP fund target. The Heavy Equipment Purchases program was also reduced in 2011 and 2012 to reflect equipment downsizing efforts and projected heavy equipment fleet replacements in those years.

In the Transmission BCL, the 2011 Adopted Budget of \$1.7 million is lower than the 2011 planned funding level in the 2010-2015 Adopted CIP by \$1.6 million. This net reduction is the result of two conflicting financial pressures. While this BCL is to be the focus of several asset management investments by the Water Fund in the coming years, SPU is also committed to reducing the overall size of the Water CIP, including this BCL. In addition, more is known about the projects in this BCL than when the Endorsed Budget was created.

In the Water Quality and Treatment BCL, the 2011 Adopted Budget of \$18.3 million is lower than the 2011 planned funding level in the 2010-2015 Adopted CIP by \$2.6 million. The majority of the Reservoir Covering projects are nearing completion, and Volunteer Reservoir is being evaluated for possible decommissioning once others are back in service.

In the Water Resources BCL, the 2011 Adopted Budget of \$6.5 million is higher than the 2011 planned funding level in the 2010-2015 Adopted CIP by \$0.6 million. Funding for the Morse Lake Pump project is not included in the out years of the 2011-2016 Adopted CIP. The project was the subject of a value engineering evaluation in late 2009, which identified several different options. The City will consider full funding for this project once final project direction has been determined.

In the Watershed Stewardship BCL, the 2011 Adopted Budget of \$1.1 million is lower than the 2011 planned funding level in the 2010-2015 Adopted CIP by \$1.1 million. This reduction reflects the Water Fund's focus on investments in the Distribution and Transmission BCLs. In addition, all bridge projects in this BCL have been zeroed out pending Business Case approval, and will be considered for funding during 2011. Finally, funding for road improvements has been shifted from this BCL to the Habitat Conservation Program BCL in order to simplify tracking of Habitat Conservation Plan commitments.

The Water CIP is comprised of eight program categories, which are summarized below.

**Distribution:** Projects and programs in this program category relate to repairs and upgrades to the City's water lines, pump stations, and other facilities that are part of the distribution system (serving only retail customers).

**Habitat Conservation Plan:** This program category includes projects and programs directly related to implementation of the Cedar River Watershed Habitat Conservation Plan. Projects are grouped into eight categories: road improvements and decommissioning, stream and riparian restoration, upland forest restoration, Landsburg fish passage, Cedar River sockeye hatchery, improvements to the Ballard Locks for fish passage and water conservation, fish habitat protection and restoration in the lower Cedar River below the municipal watershed boundary, and evaluation of Cedar permanent dead storage in Chester Morse Lake.

**Shared Cost Projects:** This program includes individual capital improvement projects which typically benefit multiple lines of business (e.g., the water line of business and the drainage and wastewater line of business) and whose costs are "shared," or paid for, by more than one of SPU's utility funds. In 2011, the

Water program includes funding for the Alaskan Way Viaduct & Seawall Replacement, Bridging the Gap, Heavy Equipment Purchases, and Security Improvements.

**Technology:** This program category makes use of recent technology advances to increase efficiency and productivity. Water-supported technology projects are shown grouped with technology projects supported by SPU's other fund sources.

**Transmission:** The purpose of this program category is to repair and upgrade the City's large transmission pipelines that bring untreated water to the treatment facilities, and convey water from the treatment facilities to Seattle and its suburban wholesale customers' distribution systems.

**Water Quality & Treatment:** The purpose of this program category is to design, construct, and repair water treatment facilities, and remaining open water reservoirs. This program also manages the delivery of drinking water quality and treatment services to meet customer and environmental service levels and to comply with state and federal drinking water regulations.

**Water Resources:** The purpose of this program category is to manage untreated water to meet anticipated demands at our supply-reliability standard and instream flow requirement, and promote residential and commercial water conservation.

**Watershed Stewardship:** Projects and programs in this program category provide habitat protection and restoration, sustain the environment, and enhance environmental quality, both locally and regionally. Most of the projects in this program category are located within the Cedar and Tolt River municipal watersheds. Three of these projects are being carried out in response to the listing of the Chinook salmon as a threatened species under the Endangered Species Act.

### **Anticipated Operating Expenses Associated with Capital Facilities Projects**

When appropriate, the projects in the Water Fund CIP include operations and maintenance cost estimates. These estimates will be refined after project completion and will be included as part of SPU's future budget submittals.

### **City Council Provisos to the CIP**

There are no Council provisos.

## Project Summary

BCL/Program Name/ Project Title & ID	LTD Actuals	2010	2011	2012	2013	2014	2015	2016	Total
<b>Distribution</b>									<b>C110B</b>
Chamber Upgrades - Distribution (C1137)	684	175	26	26	27	27	28	28	1,020
Distribution System Improvements (C1128)	404	33	816	4,682	4,775	10,824	11,041	11,262	43,837
Distribution System In-Line Gate Valves (C1136)	774	510	765	586	106	108	110	113	3,072
Multiple Utility Relocation (C1133)	1,178	1,580	510	520	531	812	828	845	6,804
Pump Station Improvements (C1135)	2	77	79	780	796	541	552	563	3,390
Tank Improvements (C1134)	491	1,294	1,123	1	1	1	1	1	2,913
Water Infrastructure - Hydrant Replacement/Relocation (C1110)	3,876	372	177	276	288	299	311	318	5,917
Water Infrastructure - New Hydrants (C1112)	514	112	114	110	115	119	125	127	1,336
Water Infrastructure - New Taps (C1113)	78,387	8,207	7,650	7,803	7,959	8,118	8,281	8,447	134,851
Water Infrastructure - Service Renewal (C1109)	78,541	7,732	7,854	3,849	3,926	4,005	4,085	4,167	114,160
Water Infrastructure - Watermain Extensions (C1111)	11,329	1,530	612	624	1,148	1,195	1,243	1,268	18,950
Water Infrastructure-Seismic Upgrade Pipelines (C1102)	958	306	1	1	318	325	331	338	2,578
Watermain Rehabilitation (C1129)	587	452	765	1,561	1,592	3,247	3,312	3,379	14,895
<b>Distribution</b>	177,725	22,380	20,492	20,819	21,582	29,621	30,249	30,855	353,722
<b>Transmission</b>									<b>C120B</b>
Cathodic Protection Program (C1208)	572	300	357	1,665	1,698	1,732	1,767	1,802	9,892
Purveyor Meters Replace - SPU (C1206)	78	200	102	104	106	108	110	113	921
Replace Air Valve Chambers (C1209)	196	100	107	111	115	119	125	127	1,000
Transmission Pipelines Rehabilitation (C1207)	1,787	2,464	1,020	1,040	1,061	1,082	1,104	1,126	10,685
Water System Dewatering (C1205)	103	100	102	104	106	108	110	113	846
<b>Transmission</b>	2,736	3,164	1,688	3,024	3,086	3,150	3,216	3,281	23,345
<b>Watershed Stewardship</b>									<b>C130B</b>
Cedar Bridges (C1307)	170	100	0	0	0	0	0	0	270

\*Amounts in thousands of dollars

**2011 - 2016 Adopted Capital Improvement Program**

## Project Summary

BCL/Program Name/ Project Title & ID	LTD Actuals	2010	2011	2012	2013	2014	2015	2016	Total
Cedar River - Boundary Land Acquisition (C1312)	2,848	298	265	187	249	140	0	0	3,988
Cedar River Watershed Cultural Resource Information Management System (C1315)	17	106	102	0	0	0	0	0	225
Endangered Species Act Snohomish River Basin (C1313)	292	0	53	0	0	0	0	0	345
Kerriston Road (C1314)	37	0	612	624	637	649	662	676	3,897
Tolt Bridges (C1308)	0	0	0	0	0	0	0	0	0
Tolt Watershed Restoration (C1310)	42	278	109	85	0	0	0	0	514
<b>Watershed Stewardship</b>	<b>3,405</b>	<b>782</b>	<b>1,142</b>	<b>897</b>	<b>886</b>	<b>789</b>	<b>662</b>	<b>676</b>	<b>9,238</b>
<b>Water Quality &amp; Treatment</b>									<b>BCL/Program Code: C140B</b>
Cedar Fluoridation Relocation (C1416)	0	299	408	2,601	106	0	0	0	3,414
Cedar Treatment Screening Improvements (C1415)	67	408	153	416	424	0	0	0	1,469
Landsburg Chlorination Upgrades (C1417)	0	0	20	208	743	108	0	0	1,080
Reservoir Covering - Beacon (C1408)	41,977	1,501	255	0	0	0	0	0	43,733
Reservoir Covering - Maple Leaf (C1411)	3,842	15,440	16,728	4,474	618	0	0	0	41,102
Reservoir Covering - Myrtle (C1410)	12,022	300	102	0	0	0	0	0	12,424
Reservoir Covering - Volunteer (C1407)	94	54	0	0	0	108	552	2,252	3,061
Reservoir Covering - West Seattle (C1409)	28,962	6,300	510	104	27	0	0	0	35,902
Treatment Facility/Water Quality Improvements (C1413)	124	154	102	104	106	108	110	113	921
Water Quality Equipment (C1414)	180	200	51	208	212	0	0	0	852
<b>Water Quality &amp; Treatment</b>	<b>87,268</b>	<b>24,656</b>	<b>18,329</b>	<b>8,115</b>	<b>2,236</b>	<b>325</b>	<b>662</b>	<b>2,365</b>	<b>143,957</b>
<b>Water Resources</b>									<b>BCL/Program Code: C150B</b>
Dam Safety Program (C1506)	3,224	0	689	609	186	108	1,104	3,942	9,861
Morse Lake Pump Plant (C1508)	7,943	11,750	1,326	0	0	0	0	0	21,019
Regional Water Conservation Program (C1504)	12,157	3,025	3,366	3,229	3,495	3,636	3,783	3,942	36,632

\*Amounts in thousands of dollars

### 2011 - 2016 Adopted Capital Improvement Program

## Project Summary

BCL/Program Name/ Project Title & ID	LTD Actuals	2010	2011	2012	2013	2014	2015	2016	Total
Seattle Direct Service Additional Conservation (C1505)	4,069	765	663	676	690	704	718	732	9,016
Water Supply Flexibility Program (C1507)	125	154	0	0	0	0	739	3,563	4,580
Water System Plan - 2013 (C1509)	0	99	473	256	26	0	0	0	854
Water System Plan - 2019 (C1510)	0	0	0	0	0	0	0	113	113
<b>Water Resources</b>	27,519	15,793	6,516	4,770	4,396	4,448	6,343	12,291	82,075
<b>Habitat Conservation Program</b>									<b>BCL/Program Code: C160B</b>
Ballard Locks Improvements (C1606)	357	22	8	0	0	1,474	0	0	1,862
Cedar Sockeye Hatchery (C1605)	5,966	4,802	5,669	520	0	0	0	0	16,957
Downstream Fish Habitat (C1607)	3,612	1,743	2,474	652	994	11	11	0	9,497
Instream Flow Management Studies (C1608)	1,203	683	516	554	572	590	610	617	5,345
Stream & Riparian Restoration (C1602)	5,274	620	375	389	424	439	349	356	8,226
Upland Reserve Forest Restoration (C1603)	5,105	634	599	611	623	636	649	327	9,185
Watershed Road Improvement/Decommissioning (C1601)	8,360	832	1,482	1,511	1,541	1,572	1,603	1,014	17,915
<b>Habitat Conservation Program</b>	29,878	9,337	11,123	4,237	4,154	4,722	3,222	2,314	68,987
<b>Shared Cost Projects</b>									<b>BCL/Program Code: C410B</b>
1% for Art – WF (C4118-WF)	713	219	200	132	192	257	276	238	2,227
Alaskan Way Viaduct & Seawall Replacement Program - WF (C4102-WF)	1,202	1,449	3,216	3,982	2,540	2,126	1,587	1,139	17,239
Bridging the Gap - WF (C4119 -WF)	3,550	4,543	2,020	1,946	1,910	1,948	1,987	2,027	19,930
Emergency Storms - WF (C4120-WF)	4	102	51	52	53	54	55	56	428
First Hill Streetcar - WF (C4130-WF)	0	556	732	801	226	0	0	0	2,316
Heavy Equipment Purchases - WF (C4116-WF)	997	2,469	2,162	1,831	2,122	2,165	2,208	2,252	16,207
Integrated Control Monitoring Program - WF (C4108-WF)	4,474	1,889	462	504	530	538	552	514	9,462

\*Amounts in thousands of dollars

### 2011 - 2016 Adopted Capital Improvement Program

## Project Summary

BCL/Program Name/ Project Title & ID	LTD Actuals	2010	2011	2012	2013	2014	2015	2016	Total
Mercer Corridor Project East Phase - WF (C4114-WF)	96	1,200	800	600	511	0	0	0	3,207
Mercer Corridor Project West Phase - WF (C4133-WF)	0	168	251	958	911	0	0	0	2,288
Meter Replacement - WF (C4101-WF)	3,259	1,000	612	628	728	653	666	679	8,225
Operational Facility - Construction - WF (C4106-WF)	72	356	278	522	1,287	4,734	3,414	2,474	13,138
Operational Facility - Other - WF (C4115-WF)	12	152	379	353	82	0	0	0	979
Operations Control Center - WF (C4105-WF)	4,022	73	118	179	126	18	0	279	4,814
Other Major Transportation Projects - WF (C4123-WF)	0	0	20	52	265	271	55	56	720
Regional Facility - WF (C4107-WF)	435	1,214	1,961	4,054	3,994	1,653	2,494	5,012	20,817
Security Improvements - WF (C4113-WF)	1,080	1,456	1,441	1,574	1,842	1,827	1,780	1,816	12,816
Sound Transit - Water Betterment (C4125)	1,477	214	204	208	0	0	0	0	2,103
Sound Transit – University Link - WF (C4110-WF)	73	147	71	108	226	130	43	0	797
Spokane Street Viaduct - WF (C4134-WF)	1,699	452	70	0	0	0	0	0	2,221
<b>Shared Cost Projects</b>	<b>23,165</b>	<b>17,658</b>	<b>15,048</b>	<b>18,482</b>	<b>17,547</b>	<b>16,374</b>	<b>15,118</b>	<b>16,543</b>	<b>139,935</b>
<b>Technology</b>									<b>BCL/Program Code: C510B</b>
Asset Information Management (C5407)	63	981	1,640	1,663	1,750	1,638	1,191	1,191	10,115
Customer Contact & Billing (C5402)	0	769	547	1,385	4,171	4,820	2,475	1,795	15,962
Enterprise Information Management (C5403)	0	608	211	491	476	325	343	336	2,791
IT Infrastructure (C5404)	618	661	1,076	810	824	826	895	1,051	6,762
Project Delivery & Performance (C5405)	57	1,262	1,150	1,275	1,182	1,367	1,306	1,306	8,905
Science & System Performance (C5406)	0	436	147	443	596	828	1,000	1,000	4,450
<b>Technology</b>	<b>738</b>	<b>4,717</b>	<b>4,770</b>	<b>6,067</b>	<b>8,998</b>	<b>9,803</b>	<b>7,211</b>	<b>6,680</b>	<b>48,985</b>
<b>Department Total*:</b>	<b>352,433</b>	<b>98,487</b>	<b>79,108</b>	<b>66,411</b>	<b>62,886</b>	<b>69,231</b>	<b>66,685</b>	<b>75,003</b>	<b>870,245</b>

\*Amounts in thousands of dollars

**2011 - 2016 Adopted Capital Improvement Program**

**Fund Summary**

<b>Fund Name &amp; Code</b>	<b>LTD Actuals</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>Total</b>
Water Fund (43000)	352,433	98,487	79,108	66,411	62,886	69,231	66,685	75,003	870,245
<b>Department Total*:</b>	352,433	98,487	79,108	66,411	62,886	69,231	66,685	75,003	870,245

*\*Amounts in thousands of dollars*



**1% for Art – WF**

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2001
<b>Project ID:</b>	C4118-WF	<b>End Date:</b>	ONGOING
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides the Water funding for Seattle Public Utilities' 1% for Arts contribution. Eligibility is determined at the individual project level, with payment occurring from this program. Funds contributed to the 1% for Art program allow the commission, purchase, and installation of art in City-owned properties that are accessible to the public. The Municipal Arts Plan, prepared annually, describes the status of ongoing art projects and establishes the scope of work and allocations for new art projects.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	713	219	200	132	192	257	276	238	2,227
<b>Total:</b>	713	219	200	132	192	257	276	238	2,227
<b>Fund Appropriations/Allocations</b>									
Water Fund	713	219	200	132	192	257	276	238	2,227
<b>Total*:</b>	713	219	200	132	192	257	276	238	2,227
<b>O &amp; M Costs (Savings)</b>			23	23	23	23	23	23	138
<b>Spending Plan by Fund</b>									
Water Fund		158	200	132	192	257	276	238	1,453
<b>Total:</b>		158	200	132	192	257	276	238	1,453

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

**Alaskan Way Viaduct & Seawall Replacement Program - WF**

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q1/2004
<b>Project ID:</b>	C4102-WF	<b>End Date:</b>	Q4/2018
<b>Location:</b>	SR 99 / Battery St		
<b>Neighborhood Plan:</b>	In more than one Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This program relocates, replaces, and protects water infrastructure affected by the replacement of the Alaskan Way Viaduct and Seawall. This project encompasses many sub-projects which are collectively known as the “Alaskan Way Viaduct and Seawall Replacement Program” (AWVSR Program.) The Washington State Department of Transportation (WSDOT) is the lead for the SR-99 replacement, while the City of Seattle is the lead on development of the waterfront public space, implementation of the new surface Alaskan Way, and design and construction of the seawall.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	1,202	1,449	3,216	3,982	2,540	2,126	1,587	1,139	17,239
<b>Total:</b>	1,202	1,449	3,216	3,982	2,540	2,126	1,587	1,139	17,239
<b>Fund Appropriations/Allocations</b>									
Water Fund	1,202	1,449	3,216	3,982	2,540	2,126	1,587	1,139	17,239
<b>Total*:</b>	1,202	1,449	3,216	3,982	2,540	2,126	1,587	1,139	17,239
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Water Fund		1,270	3,216	3,982	2,540	2,126	1,587	1,139	15,859
<b>Total:</b>		1,270	3,216	3,982	2,540	2,126	1,587	1,139	15,859

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

**Ballard Locks Improvements**

<b>BCL/Program Name:</b>	Habitat Conservation Program	<b>BCL/Program Code:</b>	C160B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2000
<b>Project ID:</b>	C1606	<b>End Date:</b>	Q4/2014
<b>Location:</b>	NW 54th St /30th Ave NW		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Ballard	<b>Urban Village:</b>	Ballard Interbay

This program provides improvements at the Ballard Locks to upgrade conditions for salmon. Improvements are focused on conserving the amount of freshwater needed to operate the locks to reduce the demand for freshwater from the Cedar River and increase the availability of freshwater for salmon. No work is currently planned for the 2011-2013 timeframe. This program is a requirement of the Cedar River Habitat Conservation Plan (HCP.)

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	357	22	8	0	0	1,474	0	0	1,862
<b>Total:</b>	357	22	8	0	0	1,474	0	0	1,862
<b>Fund Appropriations/Allocations</b>									
Water Fund	357	22	8	0	0	1,474	0	0	1,862
<b>Total*:</b>	357	22	8	0	0	1,474	0	0	1,862
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	19	19	37
<b>Spending Plan by Fund</b>									
Water Fund		21	8	0	0	1,474	0	0	1,503
<b>Total:</b>		21	8	0	0	1,474	0	0	1,503

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

**Bridging the Gap - WF**

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2008
<b>Project ID:</b>	C4119-WF	<b>End Date:</b>	Q4/2016
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This multi-year, multi-project program funds assessments, repairs, and improvements to SPU's drinking water utility infrastructure at sites chosen by the Seattle Department of Transportation (SDOT) for bridge improvements and pedestrian and bicycle safety improvements within its "Bridging the Gap" program. SPU assesses the condition of its utility infrastructure at SDOT's project sites and conducts repairs and improvements as needed. It is too early in the program to determine the impact on Operation and Maintenance costs or savings as a result of this program.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	3,550	4,543	2,020	1,946	1,910	1,948	1,987	2,027	19,930
<b>Total:</b>	3,550	4,543	2,020	1,946	1,910	1,948	1,987	2,027	19,930
<b>Fund Appropriations/Allocations</b>									
Water Fund	3,550	4,543	2,020	1,946	1,910	1,948	1,987	2,027	19,930
<b>Total*:</b>	3,550	4,543	2,020	1,946	1,910	1,948	1,987	2,027	19,930
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Water Fund		1,610	2,020	1,946	1,910	1,948	1,987	2,027	13,448
<b>Total:</b>		1,610	2,020	1,946	1,910	1,948	1,987	2,027	13,448

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

**Cathodic Protection Program**

<b>BCL/Program Name:</b>	Transmission	<b>BCL/Program Code:</b>	C120B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/2004
<b>Project ID:</b>	C1208	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program installs corrosion protection systems that prevent external corrosion of water transmission pipelines located in Seattle and throughout King County. The cathodic protection systems extend the life of buried pipelines made of ductile iron, steel, and concrete cylinder pipe.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	572	300	357	1,665	1,698	1,732	1,767	1,802	9,892
<b>Total:</b>	572	300	357	1,665	1,698	1,732	1,767	1,802	9,892
<b>Fund Appropriations/Allocations</b>									
Water Fund	572	300	357	1,665	1,698	1,732	1,767	1,802	9,892
<b>Total*:</b>	572	300	357	1,665	1,698	1,732	1,767	1,802	9,892
<b>O &amp; M Costs (Savings)</b>			10	10	10	10	10	10	60
<b>Spending Plan by Fund</b>									
Water Fund		150	357	1,665	1,698	1,732	1,767	1,802	9,170
<b>Total:</b>		150	357	1,665	1,698	1,732	1,767	1,802	9,170

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**Cedar Bridges**

<b>BCL/Program Name:</b>	Watershed Stewardship	<b>BCL/Program Code:</b>	C130B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2007
<b>Project ID:</b>	C1307	<b>End Date:</b>	ONGOING
<b>Location:</b>	Cedar River Watershed		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This program replaces aging bridges and related structures, such as abutments, asphalt approaches, and guardrails in the Cedar River Watershed. Projects within this program improve aging bridge assets on priority roads in the watershed transportation system to provide City employees, City contractors, and visitors with safe and adequate access to City water supply and hydroelectric assets while minimizing and reducing environmental impacts over time. Work in this program also maintains compliance with state laws, safety and environmental regulations, and tribal access agreements including Washington Department of Natural Resources (WDNR) forest practice regulations, Washington Department of Health (DOH) Watershed Protection Plan regulations, and Cedar River Habitat Conservation Plan (HCP) restoration commitments. No budget authority is currently being requested for the 2011-2016 timeframe but once specific projects receive Asset Management Committee approval, necessary funding will be requested.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	170	100	0	0	0	0	0	0	270
<b>Total:</b>	170	100	0	0	0	0	0	0	270
<b>Fund Appropriations/Allocations</b>									
Water Fund	170	100	0	0	0	0	0	0	270
<b>Total*:</b>	170	100	0	0	0	0	0	0	270
<b>O &amp; M Costs (Savings)</b>			0	0	0	23	23	0	46

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**Cedar Fluoridation Relocation**

<b>BCL/Program Name:</b>	Water Quality & Treatment	<b>BCL/Program Code:</b>	C140B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2010
<b>Project ID:</b>	C1416	<b>End Date:</b>	Q4/2013
<b>Location:</b>	SE 16207 Old SE Petrovitsky Road W		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This project constructs fluoride tanks, an associated chemical feed system, and containment at the Cedar Water Treatment Plant at Lake Youngs to replace current fluoride treatment occurring at the Cedar River Headworks. It will also replace aging facilities and create efficiencies by incorporating fluoride treatment with the rest of the water treatment processes currently located at Lake Youngs. Relocating the process downstream of the lake will improve the lake water quality by eliminating a nutrient source for algae production. This project was included in the 2010-2015 Adopted CIP as C110001.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	0	299	408	2,601	106	0	0	0	3,414
<b>Total:</b>	0	299	408	2,601	106	0	0	0	3,414
<b>Fund Appropriations/Allocations</b>									
Water Fund	0	299	408	2,601	106	0	0	0	3,414
<b>Total*:</b>	0	299	408	2,601	106	0	0	0	3,414
<b>O &amp; M Costs (Savings)</b>			0	0	0	34	34	34	102
<b>Spending Plan by Fund</b>									
Water Fund		300	408	2,601	106	0	0	0	3,415
<b>Total:</b>		300	408	2,601	106	0	0	0	3,415

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**Cedar River - Boundary Land Acquisition**

<b>BCL/Program Name:</b>	Watershed Stewardship	<b>BCL/Program Code:</b>	C130B
<b>Project Type:</b>	New Investment	<b>Start Date:</b>	Q1/1999
<b>Project ID:</b>	C1312	<b>End Date:</b>	ONGOING
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Outside Seattle City	<b>Urban Village:</b>	Outside Seattle City

This ongoing project enables the City to evaluate risks to protection and security of the Cedar River Municipal Watershed posed by changes in adjacent and surrounding land uses, and to respond as opportunities arise by acquiring real property. Although the City owns virtually all lands draining to the municipal water supply intake on the Cedar River, some exceptions remain along the boundary. The past decade has seen significant changes in ownership and land use of properties immediately adjoining the City's property. Although this is an ongoing project, no work is currently planned for 2015-2016. In addition, this project was included in the 2010-2015 Adopted CIP as C109017.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	2,848	298	265	187	249	140	0	0	3,988
<b>Total:</b>	2,848	298	265	187	249	140	0	0	3,988
<b>Fund Appropriations/Allocations</b>									
Water Fund	2,848	298	265	187	249	140	0	0	3,988
<b>Total*:</b>	2,848	298	265	187	249	140	0	0	3,988
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Water Fund		398	265	187	249	140	0	0	1,239
<b>Total:</b>		398	265	187	249	140	0	0	1,239

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**Cedar River Watershed Cultural Resource Information Management System**

<b>BCL/Program Name:</b>	Watershed Stewardship	<b>BCL/Program Code:</b>	C130B
<b>Project Type:</b>	New Investment	<b>Start Date:</b>	Q1/2007
<b>Project ID:</b>	C1315	<b>End Date:</b>	Q4/2011
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This project provides a comprehensive information management system to preserve and archive archaeological artifacts from the Cedar River and South Fork Tolt River Municipal Watersheds housed in the Gale Archives at the Cedar River Watershed Education Center. It also enhances accessibility, protection, and security for irreplaceable cultural resources and artifacts held in trust for Native Tribes, as well as other historic artifacts and historic documents as part of SPU's watershed stewardship mandate.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	17	106	102	0	0	0	0	0	225
<b>Total:</b>	17	106	102	0	0	0	0	0	225
<b>Fund Appropriations/Allocations</b>									
Water Fund	17	106	102	0	0	0	0	0	225
<b>Total*:</b>	17	106	102	0	0	0	0	0	225
<b>O &amp; M Costs (Savings)</b>			0	2	2	2	2	2	11
<b>Spending Plan by Fund</b>									
Water Fund		0	102	0	0	0	0	0	102
<b>Total:</b>		0	102	0	0	0	0	0	102

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**Cedar Sockeye Hatchery**

<b>BCL/Program Name:</b>	Habitat Conservation Program	<b>BCL/Program Code:</b>	C160B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q1/2000
<b>Project ID:</b>	C1605	<b>End Date:</b>	Q3/2012
<b>Location:</b>	Cedar River Watershed		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This program provides a sockeye salmon hatchery to replace the interim hatchery on the Cedar River at Landsburg Dam, and includes a broodstock collection facility in Renton near the I-405 overpass, and a state-of-the-art hatchery facility located near the Landsburg Dam. These facilities are a requirement of the Cedar River Habitat Conservation Plan (HCP.)

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	5,966	4,802	5,669	520	0	0	0	0	16,957
<b>Total:</b>	5,966	4,802	5,669	520	0	0	0	0	16,957
<b>Fund Appropriations/Allocations</b>									
Water Fund	5,966	4,802	5,669	520	0	0	0	0	16,957
<b>Total*:</b>	5,966	4,802	5,669	520	0	0	0	0	16,957
<b>O &amp; M Costs (Savings)</b>			0	0	170	170	170	170	678
<b>Spending Plan by Fund</b>									
Water Fund		4,700	5,669	520	0	0	0	0	10,889
<b>Total:</b>		4,700	5,669	520	0	0	0	0	10,889

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**Cedar Treatment Screening Improvements**

<b>BCL/Program Name:</b>	Water Quality & Treatment	<b>BCL/Program Code:</b>	C140B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2009
<b>Project ID:</b>	C1415	<b>End Date:</b>	Q4/2013
<b>Location:</b>	16207 SE Petrovitsky Road, Renton		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This project provides improvements to the Cedar Water Treatment Plant at Lake Youngs. Work in this project includes upgrades to intake screens, in-plant screening/straining systems, and other provisions required to lessen the impacts of seasonal algae blooms on the proper functioning of the water treatment and flow metering equipment. In addition, it enhances the Cedar Water Treatment Plant's capability to maintain production capacity during seasonal algae blooms and screen small fish out of the water intake piping. This project was included in the 2010-2015 Adopted CIP as C109005.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	67	408	153	416	424	0	0	0	1,469
<b>Total:</b>	67	408	153	416	424	0	0	0	1,469
<b>Fund Appropriations/Allocations</b>									
Water Fund	67	408	153	416	424	0	0	0	1,469
<b>Total*:</b>	67	408	153	416	424	0	0	0	1,469
<b>O &amp; M Costs (Savings)</b>			0	0	0	15	15	15	44
<b>Spending Plan by Fund</b>									
Water Fund		0	153	416	424	0	0	0	994
<b>Total:</b>		0	153	416	424	0	0	0	994

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**Chamber Upgrades - Distribution**

<b>BCL/Program Name:</b>	Distribution	<b>BCL/Program Code:</b>	C110B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/2003
<b>Project ID:</b>	C1137	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing project improves access to the chambers throughout the water distribution system. The replacement and/or enlargement of the entrance to distribution chambers improves the health and safety of workers who need to access chambers and meets Occupational, Safety, and Health Administration (OSHA) and Washington Safety and Health Administration (WSHA) safety and health requirements. This project was included in the 2010-2015 Adopted CIP as C109011.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	684	175	26	26	27	27	28	28	1,020
<b>Total:</b>	684	175	26	26	27	27	28	28	1,020
<b>Fund Appropriations/Allocations</b>									
Water Fund	684	175	26	26	27	27	28	28	1,020
<b>Total*:</b>	684	175	26	26	27	27	28	28	1,020
<b>O &amp; M Costs (Savings)</b>			10	10	10	10	10	10	61
<b>Spending Plan by Fund</b>									
Water Fund		25	26	26	27	27	28	28	186
<b>Total:</b>		25	26	26	27	27	28	28	186

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

**Dam Safety Program**

<b>BCL/Program Name:</b>	Water Resources	<b>BCL/Program Code:</b>	C150B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/2008
<b>Project ID:</b>	C1506	<b>End Date:</b>	ONGOING
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program maintains the safety of SPU's water supply dams in the Cedar River and South Fork Tolt River Municipal Watersheds and the in-town reservoir dams. Typical improvements may include, but are not limited to upgrades to, the dams' failure warning systems, spillways, outlet works, piping, and other civil, mechanical, and structural systems. This program ensures the continuing safe functioning, operation and monitoring of SPU's water supply dams and associated facilities per Federal Energy Regulatory Commission (FERC), state and local regulations, and SPU requirements to prevent loss of life and/or property damage and loss of SPU's ability to deliver reliable drinking water supply to its customers.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	3,224	0	689	609	186	108	1,104	3,942	9,861
<b>Total:</b>	3,224	0	689	609	186	108	1,104	3,942	9,861
<b>Fund Appropriations/Allocations</b>									
Water Fund	3,224	0	689	609	186	108	1,104	3,942	9,861
<b>Total*:</b>	3,224	0	689	609	186	108	1,104	3,942	9,861
<b>O &amp; M Costs (Savings)</b>			99	99	99	99	99	99	592
<b>Spending Plan by Fund</b>									
Water Fund		0	688	609	186	108	1,104	3,942	6,637
<b>Total:</b>		0	688	609	186	108	1,104	3,942	6,637

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**Distribution System Improvements**

<b>BCL/Program Name:</b>	Distribution	<b>BCL/Program Code:</b>	C110B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2003
<b>Project ID:</b>	C1128	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing program improves service reliability, pressure, capacity, and fire flow in the City's water distribution system. Typical improvements may include, but are not limited to, booster pump station installation, creation of new service zones, and tank elevation or replacement, as well as additional watermain pipelines and pressure reducing valves. These improvements to service levels meet Washington Department of Health (DOH) regulations and SPU's Distribution System Pressure Policy to provide greater than 20 psi service pressure. These improvements provide higher flow of water for fire protection which improves public safety and results in smaller and shorter fires. Amounts for 2013 and later reflect preliminary planning and will receive detailed review in future budget and rate cycles.

	<b>LTD Actuals</b>	<b>2010 Rev</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>Total</b>
<b>Revenue Sources</b>									
Water Rates	404	33	816	4,682	4,775	10,824	11,041	11,262	43,837
<b>Total:</b>	404	33	816	4,682	4,775	10,824	11,041	11,262	43,837
<b>Fund Appropriations/Allocations</b>									
Water Fund	404	33	816	4,682	4,775	10,824	11,041	11,262	43,837
<b>Total*:</b>	404	33	816	4,682	4,775	10,824	11,041	11,262	43,837
<b>O &amp; M Costs (Savings)</b>			50	50	50	50	50	50	300
<b>Spending Plan by Fund</b>									
Water Fund		33	816	4,682	4,775	10,824	11,041	11,262	43,433
<b>Total:</b>		33	816	4,682	4,775	10,824	11,041	11,262	43,433

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**2011 - 2016 Adopted Capital Improvement Program**

**Distribution System In-Line Gate Valves**

<b>BCL/Program Name:</b>	Distribution	<b>BCL/Program Code:</b>	C110B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/1999
<b>Project ID:</b>	C1136	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing project replaces line valves in the water distribution system throughout the City of Seattle that fail or are obsolete due to age or lack of replacement parts. The replacement of these gate valves extends the useful life of the watermain and restores the performance of the water distribution system. This ongoing project also adds valves within the system to enhance system performance, enhance operational control, and reduce the number of customers whose service is interrupted during a watermain shut down. This project was included in the 2010-2015 Adopted CIP as C109006.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	774	510	765	586	106	108	110	113	3,072
<b>Total:</b>	774	510	765	586	106	108	110	113	3,072
<b>Fund Appropriations/Allocations</b>									
Water Fund	774	510	765	586	106	108	110	113	3,072
<b>Total*:</b>	774	510	765	586	106	108	110	113	3,072
<b>O &amp; M Costs (Savings)</b>			31	31	31	31	31	31	184
<b>Spending Plan by Fund</b>									
Water Fund		783	765	586	106	108	110	113	2,571
<b>Total:</b>		783	765	586	106	108	110	113	2,571

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

**Downstream Fish Habitat**

<b>BCL/Program Name:</b>	Habitat Conservation Program	<b>BCL/Program Code:</b>	C160B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/2001
<b>Project ID:</b>	C1607	<b>End Date:</b>	ONGOING
<b>Location:</b>	Cedar River Watershed		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides protection and restoration of fish habitat along the lower Cedar River, below the City's municipal watershed boundary at the Landsburg Dam and includes both acquisition of habitat lands and habitat restoration on the mainstem of the Cedar River. Although this is an ongoing program, no work is currently planned for 2016. This program is a requirement of the Cedar River Habitat Conservation Plan (HCP.)

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	3,612	1,743	2,474	652	994	11	11	0	9,497
<b>Total:</b>	3,612	1,743	2,474	652	994	11	11	0	9,497
<b>Fund Appropriations/Allocations</b>									
Water Fund	3,612	1,743	2,474	652	994	11	11	0	9,497
<b>Total*:</b>	3,612	1,743	2,474	652	994	11	11	0	9,497
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	95	95
<b>Spending Plan by Fund</b>									
Water Fund		1,912	2,473	652	994	11	11	0	6,054
<b>Total:</b>		1,912	2,473	652	994	11	11	0	6,054

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

**Emergency Storms - WF**

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q3/2007
<b>Project ID:</b>	C4120-WF	<b>End Date:</b>	ONGOING
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program funds water infrastructure capital improvement projects resulting from previous and possible future storm events. Projects within this program are potentially Federal Emergency Management Agency (FEMA) reimbursable and need to be separated for tracking and reimbursement purposes. Typical improvements include, but are not limited to, repairing and improving roads, bridges, and other stream crossing structures in the City's Municipal Watersheds, as well as replacing damaged equipment, such as pumps and security gates, and stabilizing debris slide areas and stream banks.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	4	102	51	52	53	54	55	56	428
<b>Total:</b>	4	102	51	52	53	54	55	56	428
<b>Fund Appropriations/Allocations</b>									
Water Fund	4	102	51	52	53	54	55	56	428
<b>Total*:</b>	4	102	51	52	53	54	55	56	428
<b>O &amp; M Costs (Savings)</b>			5	5	5	5	5	5	28
<b>Spending Plan by Fund</b>									
Water Fund		200	51	52	53	54	55	56	522
<b>Total:</b>		200	51	52	53	54	55	56	522

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

**Endangered Species Act Snohomish River Basin**

<b>BCL/Program Name:</b>	Watershed Stewardship	<b>BCL/Program Code:</b>	C130B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q2/2000
<b>Project ID:</b>	C1313	<b>End Date:</b>	Q4/2011
<b>Location:</b>	Lower Tolt River		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This program acquires and permanently protects critical stream habitat for Chinook and other salmon in the Lower Tolt River. The program is coordinated with similar efforts by Seattle City Light in the lower Tolt River basin. Similar to the Endangered Species Act (ESA) Tolt Levee Modifications Project, this project is a component of the ESA Early Action Response Program. This program was included in the 2010-2015 Adopted CIP as C101003.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	292	0	53	0	0	0	0	0	345
<b>Total:</b>	292	0	53	0	0	0	0	0	345
<b>Fund Appropriations/Allocations</b>									
Water Fund	292	0	53	0	0	0	0	0	345
<b>Total*:</b>	292	0	53	0	0	0	0	0	345
<b>O &amp; M Costs (Savings)</b>			0	3	3	3	3	3	17
<b>Spending Plan by Fund</b>									
Water Fund		0	53	0	0	0	0	0	53
<b>Total:</b>		0	53	0	0	0	0	0	53

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

**First Hill Streetcar - WF**

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2010
<b>Project ID:</b>	C4130-WF	<b>End Date:</b>	Q4/2013
<b>Location:</b>	First Hill		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This project plans and relocates water facilities that will be impacted by the SDOT-led First Hill streetcar project, which will connect major employment centers on First Hill to the regional light rail system stations on Capitol Hill and in the International District. It is currently in the planning phase and was included in the 2010-2015 Adopted CIP as C409033.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	0	556	732	801	226	0	0	0	2,316
<b>Total:</b>	0	556	732	801	226	0	0	0	2,316
<b>Fund Appropriations/Allocations</b>									
Water Fund	0	556	732	801	226	0	0	0	2,316
<b>Total*:</b>	0	556	732	801	226	0	0	0	2,316
<b>O &amp; M Costs (Savings)</b>			0	0	0	23	23	23	69
<b>Spending Plan by Fund</b>									
Water Fund		417	732	801	226	0	0	0	2,176
<b>Total:</b>		417	732	801	226	0	0	0	2,176

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**Heavy Equipment Purchases - WF**

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	New Investment	<b>Start Date:</b>	ONGOING
<b>Project ID:</b>	C4116-WF	<b>End Date:</b>	ONGOING
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides SPU's Water Utility crews with new and replacement heavy equipment that is used throughout Seattle and King County. Typical purchases include backhoes, graders, loaders, dozers, service trucks, and dump trucks. This equipment transports work crews and tools to jobsites and supports the safe and efficient replacement, repair, and maintenance of infrastructure that delivers high quality drinking water to 1.5 million customers in King County. This project is one of four SPU fund-specific heavy equipment CIP projects.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	997	2,469	2,162	1,831	2,122	2,165	2,208	2,252	16,207
<b>Total:</b>	997	2,469	2,162	1,831	2,122	2,165	2,208	2,252	16,207
<b>Fund Appropriations/Allocations</b>									
Water Fund	997	2,469	2,162	1,831	2,122	2,165	2,208	2,252	16,207
<b>Total*:</b>	997	2,469	2,162	1,831	2,122	2,165	2,208	2,252	16,207
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Water Fund		2,751	2,162	1,831	2,122	2,165	2,208	2,252	15,493
<b>Total:</b>		2,751	2,162	1,831	2,122	2,165	2,208	2,252	15,493

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**Instream Flow Management Studies**

<b>BCL/Program Name:</b>	Habitat Conservation Program	<b>BCL/Program Code:</b>	C160B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q4/2003
<b>Project ID:</b>	C1608	<b>End Date:</b>	Q4/2016
<b>Location:</b>	Cedar River Watershed		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This program provides research and monitoring to examine the effects of instream flows on salmon species in the Cedar River. This program monitors flow compliance, verifies accretion flows downstream of Landsburg, improves flow-switching criteria, and develops a better understanding of relationships between stream flow and aquatic habitat. This program is a requirement of the Cedar River Habitat Conservation Plan (HCP.)

	<b>LTD Actuals</b>	<b>2010 Rev</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>Total</b>
<b>Revenue Sources</b>									
Water Rates	1,203	683	516	554	572	590	610	617	5,345
<b>Total:</b>	1,203	683	516	554	572	590	610	617	5,345
<b>Fund Appropriations/Allocations</b>									
Water Fund	1,203	683	516	554	572	590	610	617	5,345
<b>Total*:</b>	1,203	683	516	554	572	590	610	617	5,345
<b>O &amp; M Costs (Savings)</b>			53	53	53	53	53	53	321
<b>Spending Plan by Fund</b>									
Water Fund		535	516	554	572	590	610	617	3,993
<b>Total:</b>		535	516	554	572	590	610	617	3,993

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**Integrated Control Monitoring Program - WF**

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	New Investment	<b>Start Date:</b>	Q1/2002
<b>Project ID:</b>	C4108-WF	<b>End Date:</b>	ONGOING
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program funds improvements to the centralized monitoring and control of the drinking water portion of the overall Supervisory Control and Data Acquisition (SCADA) system infrastructure throughout King County. Infrastructure affected may include, but is not limited to flow and pressure sensors, remote control pumps, and valves. This program enhances the delivery and quality of drinking water and the delivery of water to fire hydrants, also known as "fire flow."

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	4,474	1,889	462	504	530	538	552	514	9,462
<b>Total:</b>	4,474	1,889	462	504	530	538	552	514	9,462
<b>Fund Appropriations/Allocations</b>									
Water Fund	4,474	1,889	462	504	530	538	552	514	9,462
<b>Total*:</b>	4,474	1,889	462	504	530	538	552	514	9,462
<b>O &amp; M Costs (Savings)</b>			116	116	116	116	116	116	698
<b>Spending Plan by Fund</b>									
Water Fund		720	462	504	530	538	552	514	3,819
<b>Total:</b>		720	462	504	530	538	552	514	3,819

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**Kerriston Road**

<b>BCL/Program Name:</b>	Watershed Stewardship	<b>BCL/Program Code:</b>	C130B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/2009
<b>Project ID:</b>	C1314	<b>End Date:</b>	ONGOING
<b>Location:</b>	Cedar River Watershed		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This project acquires properties adjacent to the lower Cedar River Municipal Watershed that are accessed via Kerriston Road which runs through the lower municipal watershed. Acquisition of these lands minimizes the risk to water quality from access through the watershed by the public.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	37	0	612	624	637	649	662	676	3,897
<b>Total:</b>	37	0	612	624	637	649	662	676	3,897
<b>Fund Appropriations/Allocations</b>									
Water Fund	37	0	612	624	637	649	662	676	3,897
<b>Total*:</b>	37	0	612	624	637	649	662	676	3,897
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Water Fund		0	612	624	637	649	662	676	3,861
<b>Total:</b>		0	612	624	637	649	662	676	3,861

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**Landsburg Chlorination Upgrades**

<b>BCL/Program Name:</b>	Water Quality & Treatment	<b>BCL/Program Code:</b>	C140B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2011
<b>Project ID:</b>	C1417	<b>End Date:</b>	Q4/2014
<b>Location:</b>	Cedar River Watershed		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This project constructs either new sodium hypochlorite (liquid) chlorination facilities or upgraded gas chlorine facilities at the Landsburg Cedar River Diversion Facilities. The project will enhance safety and site security by replacement of/or upgrades to the aging gas chlorine facilities.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	0	0	20	208	743	108	0	0	1,080
<b>Total:</b>	0	0	20	208	743	108	0	0	1,080
<b>Fund Appropriations/Allocations</b>									
Water Fund	0	0	20	208	743	108	0	0	1,080
<b>Total*:</b>	0	0	20	208	743	108	0	0	1,080
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	50	50	100

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**Mercer Corridor Project East Phase - WF**

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2007
<b>Project ID:</b>	C4114-WF	<b>End Date:</b>	Q4/2013
<b>Location:</b>	South Lake Union		
<b>Neighborhood Plan:</b>	South Lake Union	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Lake Union	<b>Urban Village:</b>	South Lake Union

This program funds the repair, relocation, protection, and upgrade of water infrastructure related to the redevelopment of the South Lake Union neighborhood. This effort identifies SPU water system direct impacts, opportunities for system improvements, and cost responsibility. This program also funds planning-level coordination with other City departments on projects within the South Lake Union area.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	96	1,200	800	600	511	0	0	0	3,207
<b>Total:</b>	96	1,200	800	600	511	0	0	0	3,207
<b>Fund Appropriations/Allocations</b>									
Water Fund	96	1,200	800	600	511	0	0	0	3,207
<b>Total*:</b>	96	1,200	800	600	511	0	0	0	3,207
<b>O &amp; M Costs (Savings)</b>			0	0	0	45	45	45	136
<b>Spending Plan by Fund</b>									
Water Fund		700	800	600	513	0	0	0	2,613
<b>Total:</b>		700	800	600	513	0	0	0	2,613

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**Mercer Corridor Project West Phase - WF**

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2010
<b>Project ID:</b>	C4133-WF	<b>End Date:</b>	Q4/2013
<b>Location:</b>	Mercer ST /Elliot AVE W/Dexter AVE N		
<b>Neighborhood Plan:</b>	In more than one Plan	<b>Neighborhood Plan Matrix:</b>	T01, T02, T03, T11, T15
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This project provides water utility improvements and relocations related to the Mercer Corridor Project, West phase. Work in this project will convert Mercer Street to a two-way street between Dexter Ave and Elliott Ave West. The Mercer underpass at Aurora Ave will be widened to allow for six travel lanes and a bicycle/pedestrian shared use path between Dexter Ave and 5th Ave North. Roy Street, between Aurora and Queen Anne Ave., will also be converted to a two-way street with on-road bicycle lanes. This project was included in the 2010-2015 Adopted CIP as C410004.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	0	168	251	958	911	0	0	0	2,288
<b>Total:</b>	0	168	251	958	911	0	0	0	2,288
<b>Fund Appropriations/Allocations</b>									
Water Fund	0	168	251	958	911	0	0	0	2,288
<b>Total*:</b>	0	168	251	958	911	0	0	0	2,288
<b>O &amp; M Costs (Savings)</b>			0	0	0	23	23	23	69
<b>Spending Plan by Fund</b>									
Water Fund		65	251	958	911	0	0	0	2,186
<b>Total:</b>		65	251	958	911	0	0	0	2,186

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**Meter Replacement - WF**

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/2004
<b>Project ID:</b>	C4101-WF	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing program funds replacement of existing water meters when they fail or become obsolete. Meters measuring up to two inches are replaced when they stop running. Meters measuring three inches or more are repaired when possible, but are replaced when repair costs exceed replacement costs. Accurate water meters ensure that customers are billed fairly for the water they use. Since water meters also are used to bill customers for their wastewater discharges, 48 percent of the funding is allocated to the Drainage and Wastewater line of business.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	3,259	1,000	612	628	728	653	666	679	8,225
<b>Total:</b>	3,259	1,000	612	628	728	653	666	679	8,225
<b>Fund Appropriations/Allocations</b>									
Water Fund	3,259	1,000	612	628	728	653	666	679	8,225
<b>Total*:</b>	3,259	1,000	612	628	728	653	666	679	8,225
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Water Fund		600	612	628	728	653	666	679	4,566
<b>Total:</b>		600	612	628	728	653	666	679	4,566

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**Morse Lake Pump Plant**

<b>BCL/Program Name:</b>	Water Resources	<b>BCL/Program Code:</b>	C150B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2003
<b>Project ID:</b>	C1508	<b>End Date:</b>	Q4/2016
<b>Location:</b>	Cedar River Watershed		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This project includes partial funding to replace or rehabilitate the existing barge-mounted pump plants at Chester Morse Lake, with the intent to consider fully funding the project after final project options have been selected. The pump plants at Chester Morse Lake are near or at the end of their useful life. These pumps are designed for drought situations to access so-called "dead storage" at the lake, which is at or below the level that drains by gravity. The improvements enhance the ability to provide reliable water supply and in-stream flows in the Cedar River during drought conditions and to address requirements of the Habitat Conservation Plan. Various project options are currently being evaluated through the Asset Management process. Once the evaluation is complete and the final option is selected, it is anticipated that additional funding will be provided in the outyears of this project. This project was included in the 2010-2015 Adopted CIP as C103032.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	7,943	11,750	1,326	0	0	0	0	0	21,019
<b>Total:</b>	7,943	11,750	1,326	0	0	0	0	0	21,019
<b>Fund Appropriations/Allocations</b>									
Water Fund	7,943	11,750	1,326	0	0	0	0	0	21,019
<b>Total*:</b>	7,943	11,750	1,326	0	0	0	0	0	21,019
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Water Fund		11,750	1,326	0	0	0	0	0	13,076
<b>Total:</b>		11,750	1,326	0	0	0	0	0	13,076

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

**Multiple Utility Relocation**

<b>BCL/Program Name:</b>	Distribution	<b>BCL/Program Code:</b>	C110B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/2007
<b>Project ID:</b>	C1133	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing program provides funding for necessary modifications to the location and depth of water pipes when they come into conflict with street improvements or other utility projects. The benefit is continued water service to customers while accommodating transportation and other needs in the street right-of-way.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	1,178	1,580	510	520	531	812	828	845	6,804
<b>Total:</b>	1,178	1,580	510	520	531	812	828	845	6,804
<b>Fund Appropriations/Allocations</b>									
Water Fund	1,178	1,580	510	520	531	812	828	845	6,804
<b>Total*:</b>	1,178	1,580	510	520	531	812	828	845	6,804
<b>O &amp; M Costs (Savings)</b>			10	10	10	10	10	10	60
<b>Spending Plan by Fund</b>									
Water Fund		2,516	510	520	531	812	828	845	6,561
<b>Total:</b>		2,516	510	520	531	812	828	845	6,561

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

**Operational Facility - Construction - WF**

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2004
<b>Project ID:</b>	C4106-WF	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing facilities program renovates, rehabilitates, and replaces existing buildings and constructs new facilities at various locations within the city limits to address deficiencies, failures, and functional changes in the SPU Lines of Business. Typical improvements include, but are not limited to, roof replacements, exterior wall or cladding replacements, and improvements to administrative office space, crew and shop space, lighting, heating and ventilation systems, and facilities structures. These improvements increase the useful life of the facilities, preserve the value of the assets, and provide a safe working environment.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	72	356	278	522	1,287	4,734	3,414	2,474	13,138
<b>Total:</b>	72	356	278	522	1,287	4,734	3,414	2,474	13,138
<b>Fund Appropriations/Allocations</b>									
Water Fund	72	356	278	522	1,287	4,734	3,414	2,474	13,138
<b>Total*:</b>	72	356	278	522	1,287	4,734	3,414	2,474	13,138
<b>O &amp; M Costs (Savings)</b>			274	274	274	274	274	274	1,643
<b>Spending Plan by Fund</b>									
Water Fund		162	278	522	1,287	4,734	3,414	2,474	12,872
<b>Total:</b>		162	278	522	1,287	4,734	3,414	2,474	12,872

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

**Operational Facility - Other - WF**

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q4/2006
<b>Project ID:</b>	C4115-WF	<b>End Date:</b>	ONGOING
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing facilities program provides funding to purchase, replace, or install new building materials or building equipment within the city limits to address deficiencies, failures, and functional changes in the SPU Lines of Business. Typical improvements include, but are not limited to, water systems, prefabricated buildings, storage buildings, and fencing. Specific projects have been identified through 2013. As future projects are identified, necessary funding will be requested.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	12	152	379	353	82	0	0	0	979
<b>Total:</b>	12	152	379	353	82	0	0	0	979
<b>Fund Appropriations/Allocations</b>									
Water Fund	12	152	379	353	82	0	0	0	979
<b>Total*:</b>	12	152	379	353	82	0	0	0	979
<b>O &amp; M Costs (Savings)</b>			15	15	15	15	15	15	92
<b>Spending Plan by Fund</b>									
Water Fund		225	379	353	82	0	0	0	1,039
<b>Total:</b>		225	379	353	82	0	0	0	1,039

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

**Operations Control Center - WF**

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2003
<b>Project ID:</b>	C4105-WF	<b>End Date:</b>	ONGOING
<b>Location:</b>	2700 Airport Way S		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Greater Duwamish	<b>Urban Village:</b>	Duwamish

This ongoing facilities program renovates, rehabilitates, and replaces existing buildings and constructs new facilities at the Operations Control Center located at 2700 Airport Way South to improve the efficiency and effectiveness of the field crews delivering utility services to customers. Typical improvements include, but are not limited to, roof and other exterior replacements, improvements to public spaces, office and crew spaces and lighting, and heating and ventilation systems. These improvements increase the useful life of the facility, preserve the value of the asset, and provide a safe work and public space environment. No work is currently planned for 2015.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	4,022	73	118	179	126	18	0	279	4,814
<b>Total:</b>	4,022	73	118	179	126	18	0	279	4,814
<b>Fund Appropriations/Allocations</b>									
Water Fund	4,022	73	118	179	126	18	0	279	4,814
<b>Total*:</b>	4,022	73	118	179	126	18	0	279	4,814
<b>O &amp; M Costs (Savings)</b>			52	52	52	52	52	52	310
<b>Spending Plan by Fund</b>									
Water Fund		71	118	179	126	18	0	279	791
<b>Total:</b>		71	118	179	126	18	0	279	791

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

**Other Major Transportation Projects - WF**

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q2/2008
<b>Project ID:</b>	C4123-WF	<b>End Date:</b>	ONGOING
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program funds Water projects that mitigate undesirable impacts and take advantage of opportunities generated by the capital transportation projects of the Washington State Department of Transportation (WSDOT) and the Seattle Department of Transportation (SDOT) throughout the City. Work may include, but is not limited to, physically protecting the infrastructure during the transportation construction process, repairing and replacing damaged infrastructure, and improving existing infrastructure to meet higher standards. Project sites may include, but are not limited to, State Route 520, Interstate 5, and Interstate 90.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	0	0	20	52	265	271	55	56	720
<b>Total:</b>	0	0	20	52	265	271	55	56	720
<b>Fund Appropriations/Allocations</b>									
Water Fund	0	0	20	52	265	271	55	56	720
<b>Total*:</b>	0	0	20	52	265	271	55	56	720
<b>O &amp; M Costs (Savings)</b>			7	7	7	7	7	7	43

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

**Pump Station Improvements**

<b>BCL/Program Name:</b>	Distribution	<b>BCL/Program Code:</b>	C110B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q3/2008
<b>Project ID:</b>	C1135	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing program makes improvements to water pump stations by replacing electric motors, starters, control systems, and other elements. The benefit is improved reliability of water pump stations which in turn reduces the likelihood of large scale water outages.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	2	77	79	780	796	541	552	563	3,390
<b>Total:</b>	2	77	79	780	796	541	552	563	3,390
<b>Fund Appropriations/Allocations</b>									
Water Fund	2	77	79	780	796	541	552	563	3,390
<b>Total*:</b>	2	77	79	780	796	541	552	563	3,390
<b>O &amp; M Costs (Savings)</b>			34	34	34	34	34	34	203
<b>Spending Plan by Fund</b>									
Water Fund		77	79	780	796	541	552	563	3,388
<b>Total:</b>		77	79	780	796	541	552	563	3,388

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**Purveyor Meters Replace - SPU**

<b>BCL/Program Name:</b>	Transmission	<b>BCL/Program Code:</b>	C120B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/2000
<b>Project ID:</b>	C1206	<b>End Date:</b>	ONGOING
<b>Location:</b>	Regional		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program installs new meters for Seattle's wholesale customers at the customer's request. In addition, existing meters are upgraded to current safety standards. The benefits are accurate metering and billing for Seattle's wholesale customers while meeting their water needs.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	78	200	102	104	106	108	110	113	921
<b>Total:</b>	78	200	102	104	106	108	110	113	921
<b>Fund Appropriations/Allocations</b>									
Water Fund	78	200	102	104	106	108	110	113	921
<b>Total*:</b>	78	200	102	104	106	108	110	113	921
<b>O &amp; M Costs (Savings)</b>			9	9	9	9	9	9	55
<b>Spending Plan by Fund</b>									
Water Fund		105	102	104	106	108	110	113	748
<b>Total:</b>		105	102	104	106	108	110	113	748

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**Regional Facility - WF**

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2007
<b>Project ID:</b>	C4107-WF	<b>End Date:</b>	ONGOING
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing facilities program renovates, rehabilitates, replaces existing buildings, and constructs new facilities at various locations outside the city limits to address deficiencies, failures, and functional changes in the drinking water system.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	435	1,214	1,961	4,054	3,994	1,653	2,494	5,012	20,817
<b>Total:</b>	435	1,214	1,961	4,054	3,994	1,653	2,494	5,012	20,817
<b>Fund Appropriations/Allocations</b>									
Water Fund	435	1,214	1,961	4,054	3,994	1,653	2,494	5,012	20,817
<b>Total*:</b>	435	1,214	1,961	4,054	3,994	1,653	2,494	5,012	20,817
<b>O &amp; M Costs (Savings)</b>			223	223	223	223	223	223	1,337
<b>Spending Plan by Fund</b>									
Water Fund		1,158	1,961	4,054	3,994	1,653	2,494	5,012	20,327
<b>Total:</b>		1,158	1,961	4,054	3,994	1,653	2,494	5,012	20,327

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**Regional Water Conservation Program**

<b>BCL/Program Name:</b>	Water Resources	<b>BCL/Program Code:</b>	C150B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/1999
<b>Project ID:</b>	C1504	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide Plus Wholesale		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing program provides customer incentives for residential, commercial, institutional, and industrial water efficiency capital improvements. Typical examples include, but are not limited to, water efficient toilets and urinals, clothes washers, landscape irrigation devices, upgrades in industrial process water, and replacing water-cooled equipment with air-cooled versions. The program benefits both existing and future ratepayers. Water conservation provides low-cost options for meeting potential challenges from climate change, managing Seattle's drinking water resources, and customer efficiency and potential cost savings on water bills.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	12,157	3,025	3,366	3,229	3,495	3,636	3,783	3,942	36,632
<b>Total:</b>	12,157	3,025	3,366	3,229	3,495	3,636	3,783	3,942	36,632
<b>Fund Appropriations/Allocations</b>									
Water Fund	12,157	3,025	3,366	3,229	3,495	3,636	3,783	3,942	36,632
<b>Total*:</b>	12,157	3,025	3,366	3,229	3,495	3,636	3,783	3,942	36,632
<b>O &amp; M Costs (Savings)</b>			100	100	100	100	100	100	600
<b>Spending Plan by Fund</b>									
Water Fund		2,184	3,366	3,229	3,495	3,636	3,783	3,942	23,633
<b>Total:</b>		2,184	3,366	3,229	3,495	3,636	3,783	3,942	23,633

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**Replace Air Valve Chambers**

<b>BCL/Program Name:</b>	Transmission	<b>BCL/Program Code:</b>	C120B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q3/1999
<b>Project ID:</b>	C1209	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing project improves access to the chambers located throughout the transmission water system. The replacement and enlargement of the entrance to transmission chambers increase the safety for workers that need to enter the chambers twice per year. This project was included in the 2010-2015 Adopted CIP as C199060.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	196	100	107	111	115	119	125	127	1,000
<b>Total:</b>	196	100	107	111	115	119	125	127	1,000
<b>Fund Appropriations/Allocations</b>									
Water Fund	196	100	107	111	115	119	125	127	1,000
<b>Total*:</b>	196	100	107	111	115	119	125	127	1,000
<b>O &amp; M Costs (Savings)</b>			10	10	10	10	10	10	60
<b>Spending Plan by Fund</b>									
Water Fund		47	107	111	115	119	125	127	751
<b>Total:</b>		47	107	111	115	119	125	127	751

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**Reservoir Covering - Beacon**

<b>BCL/Program Name:</b>	Water Quality & Treatment	<b>BCL/Program Code:</b>	C140B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2001
<b>Project ID:</b>	C1408	<b>End Date:</b>	Q4/2011
<b>Location:</b>	S Spokane St/Beacon Ave S		
<b>Neighborhood Plan:</b>	North Beacon Hill	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Greater Duwamish	<b>Urban Village:</b>	Not in an Urban Village

This project will construct a 50 million gallon reinforced concrete buried reservoir in compliance with new state and federal regulations and improves water quality as well as the security of the drinking water system. It is part of the reservoir burying program which was adopted by Ordinance 120899 in August 2002. This project was included in the 2010-2015 Adopted CIP as C101060.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	41,977	1,501	255	0	0	0	0	0	43,733
<b>Total:</b>	41,977	1,501	255	0	0	0	0	0	43,733
<b>Fund Appropriations/Allocations</b>									
Water Fund	41,977	1,501	255	0	0	0	0	0	43,733
<b>Total*:</b>	41,977	1,501	255	0	0	0	0	0	43,733
<b>O &amp; M Costs (Savings)</b>			0	437	437	437	437	437	2,187
<b>Spending Plan by Fund</b>									
Water Fund		600	255	0	0	0	0	0	855
<b>Total:</b>		600	255	0	0	0	0	0	855

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**Reservoir Covering - Maple Leaf**

<b>BCL/Program Name:</b>	Water Quality & Treatment	<b>BCL/Program Code:</b>	C140B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q4/2001
<b>Project ID:</b>	C1411	<b>End Date:</b>	Q2/2013
<b>Location:</b>	NE 86th St/Roosevelt Wy NE		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	North	<b>Urban Village:</b>	Not in an Urban Village

This project will construct a 60 million gallon, dual-cell, reinforced concrete buried reservoir in compliance with new state and federal regulations. This effort improves water quality and the security of the drinking water system. It is part of the Reservoir burying program which was adopted by Ordinance 120899 in August 2002. This project was included in the 2010-2015 Adopted CIP as C101078.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	3,842	15,440	16,728	4,474	618	0	0	0	41,102
<b>Total:</b>	3,842	15,440	16,728	4,474	618	0	0	0	41,102
<b>Fund Appropriations/Allocations</b>									
Water Fund	3,842	15,440	16,728	4,474	618	0	0	0	41,102
<b>Total*:</b>	3,842	15,440	16,728	4,474	618	0	0	0	41,102
<b>O &amp; M Costs (Savings)</b>			0	0	0	411	411	411	1,233
<b>Spending Plan by Fund</b>									
Water Fund		15,455	16,728	4,474	618	0	0	0	37,275
<b>Total:</b>		15,455	16,728	4,474	618	0	0	0	37,275

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**Reservoir Covering - Myrtle**

<b>BCL/Program Name:</b>	Water Quality & Treatment	<b>BCL/Program Code:</b>	C140B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q4/2001
<b>Project ID:</b>	C1410	<b>End Date:</b>	Q4/2011
<b>Location:</b>	SW Myrtle St/35th Ave SW		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Southwest	<b>Urban Village:</b>	Not in an Urban Village

This project will construct a 5 million gallon reinforced concrete buried reservoir in compliance with new state and federal regulations. This effort improves water quality and the security of the drinking water system. It is part of the Reservoir burying program which was adopted by Ordinance 120899 in August 2002. This project was included in the 2010-2015 Adopted CIP as C101076.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	12,022	300	102	0	0	0	0	0	12,424
<b>Total:</b>	12,022	300	102	0	0	0	0	0	12,424
<b>Fund Appropriations/Allocations</b>									
Water Fund	12,022	300	102	0	0	0	0	0	12,424
<b>Total*:</b>	12,022	300	102	0	0	0	0	0	12,424
<b>O &amp; M Costs (Savings)</b>			0	124	124	124	124	124	621
<b>Spending Plan by Fund</b>									
Water Fund		400	102	0	0	0	0	0	502
<b>Total:</b>		400	102	0	0	0	0	0	502

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

**Reservoir Covering - Volunteer**

<b>BCL/Program Name:</b>	Water Quality & Treatment	<b>BCL/Program Code:</b>	C140B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q4/2001
<b>Project ID:</b>	C1407	<b>End Date:</b>	Q2/2016
<b>Location:</b>	E Prospect St./12th Ave. E		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	East District	<b>Urban Village:</b>	Capitol Hill

This project will either reconstruct the 20 million gallon concrete-lined reservoir in compliance with new state and federal regulations, or remove it from service and construct a bypass pipe system around the Reservoir. Permanent action is not expected to occur until after Maple Leaf Reservoir is completed and the City has had an opportunity to take the Volunteer Reservoir off-line for a period of time to observe the water system's performance without it. Thus no spending is planned between 2010 and 2014. LTD expenditures in this project are related to preliminary engineering. This effort improves water quality and the security of the drinking water system and is part of the Reservoir burying program which was adopted by Ordinance 120899 in August 2002. This project was included in the 2010-2015 Adopted CIP as C101059.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	94	54	0	0	0	108	552	2,252	3,061
<b>Total:</b>	94	54	0	0	0	108	552	2,252	3,061
<b>Fund Appropriations/Allocations</b>									
Water Fund	94	54	0	0	0	108	552	2,252	3,061
<b>Total*:</b>	94	54	0	0	0	108	552	2,252	3,061
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Water Fund		11	0	0	0	108	552	2,252	2,924
<b>Total:</b>		11	0	0	0	108	552	2,252	2,924

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

**Reservoir Covering - West Seattle**

<b>BCL/Program Name:</b>	Water Quality & Treatment	<b>BCL/Program Code:</b>	C140B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q4/2001
<b>Project ID:</b>	C1409	<b>End Date:</b>	Q1/2013
<b>Location:</b>	SW Henderson St/8th Ave SW		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Delridge	<b>Urban Village:</b>	Not in an Urban Village

This project will construct a 30 million gallon reinforced concrete buried reservoir in compliance with new state and federal regulations. This effort improves water quality and the security of the drinking water system. It is part of the Reservoir burying program which was adopted by Ordinance 120899 in August 2002. This project was included in the 2010-2015 Adopted CIP as C101075.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	28,962	6,300	510	104	27	0	0	0	35,902
<b>Total:</b>	28,962	6,300	510	104	27	0	0	0	35,902
<b>Fund Appropriations/Allocations</b>									
Water Fund	28,962	6,300	510	104	27	0	0	0	35,902
<b>Total*:</b>	28,962	6,300	510	104	27	0	0	0	35,902
<b>O &amp; M Costs (Savings)</b>			0	0	0	359	359	359	1,077
<b>Spending Plan by Fund</b>									
Water Fund		5,335	510	104	27	0	0	0	5,976
<b>Total:</b>		5,335	510	104	27	0	0	0	5,976

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

**Seattle Direct Service Additional Conservation**

<b>BCL/Program Name:</b>	Water Resources	<b>BCL/Program Code:</b>	C150B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2001
<b>Project ID:</b>	C1505	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide & Direct Service		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing program provides water use efficiency resources to the City's low-income customers to implement water conservation measures authorized by Ordinance 120532, adopted in 2001, and supplements funding provided under SPU's Regional Water Conservation Program (C1504). Typical improvements consist of, but are not limited to, installing water-efficient fixtures, such as aerating showerheads and faucets, low water use toilets and efficient clothes washers. The program is cooperatively managed by SPU and the City's Human Services Department and requires an annual report to be provided to Council.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	4,069	765	663	676	690	704	718	732	9,016
<b>Total:</b>	4,069	765	663	676	690	704	718	732	9,016
<b>Fund Appropriations/Allocations</b>									
Water Fund	4,069	765	663	676	690	704	718	732	9,016
<b>Total*:</b>	4,069	765	663	676	690	704	718	732	9,016
<b>O &amp; M Costs (Savings)</b>			90	90	90	90	90	90	541
<b>Spending Plan by Fund</b>									
Water Fund		765	663	676	690	704	718	732	4,947
<b>Total:</b>		765	663	676	690	704	718	732	4,947

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**Security Improvements - WF**

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2005
<b>Project ID:</b>	C4113-WF	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program funds physical, integrated security system components on water infrastructure throughout the City. Components may include, but are not limited to, fences, gates, access control card readers, intercoms, lighting, door and hatch contacts, CCTV cameras, motion detection devices, and fiber and conduit. This program enhances protection of SPU's critical infrastructure and addresses vulnerabilities identified in U.S. Environmental Protection Agency (EPA) mandated vulnerability assessments. In addition, this program was included in the 2010-2015 Adopted CIP as C107018.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	1,080	1,456	1,441	1,574	1,842	1,827	1,780	1,816	12,816
<b>Total:</b>	1,080	1,456	1,441	1,574	1,842	1,827	1,780	1,816	12,816
<b>Fund Appropriations/Allocations</b>									
Water Fund	1,080	1,456	1,441	1,574	1,842	1,827	1,780	1,816	12,816
<b>Total*:</b>	1,080	1,456	1,441	1,574	1,842	1,827	1,780	1,816	12,816
<b>O &amp; M Costs (Savings)</b>			150	150	150	150	150	150	901
<b>Spending Plan by Fund</b>									
Water Fund		1,131	1,441	1,574	1,842	1,827	1,780	1,816	11,411
<b>Total:</b>		1,131	1,441	1,574	1,842	1,827	1,780	1,816	11,411

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**Sound Transit - Water Betterment**

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2005
<b>Project ID:</b>	C4125	<b>End Date:</b>	Q4/2012
<b>Location:</b>	Central & South areas of Seattle		
<b>Neighborhood Plan:</b>	In more than one Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This project funds improvements to watermains and appurtenances (hydrants, valves, coatings, cathodic protection, etc.) affected by the development of Sound Transit's Light Rail System. These improvements are "opportunity" projects that become available and are cost effective as Sound Transit constructs Light Rail and rebuilds the street right-of-way. This project covers Sound Transit's alignment within SPU's service area, including the South Link to SeaTac International Airport, the University Link, and the North Link towards Northgate and was included in the 2010-2015 Adopted CIP as C405430.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	1,477	214	204	208	0	0	0	0	2,103
<b>Total:</b>	1,477	214	204	208	0	0	0	0	2,103
<b>Fund Appropriations/Allocations</b>									
Water Fund	1,477	214	204	208	0	0	0	0	2,103
<b>Total*:</b>	1,477	214	204	208	0	0	0	0	2,103
<b>O &amp; M Costs (Savings)</b>			0	0	21	21	21	21	84
<b>Spending Plan by Fund</b>									
Water Fund		200	204	208	0	0	0	0	612
<b>Total:</b>		200	204	208	0	0	0	0	612

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**Sound Transit – University Link - WF**

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q1/2007
<b>Project ID:</b>	C4110-WF	<b>End Date:</b>	Q4/2015
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	In more than one Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This program funds relocation, replacement, and protection of water system infrastructure affected by the development of Sound Transit's Link Light Rail System. Sound Transit is constructing the second segment of their electrical light rail transit system that includes 3.15 miles of tunnel, two additional stations, and other supporting facilities from downtown to the University of Washington.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	73	147	71	108	226	130	43	0	797
<b>Total:</b>	73	147	71	108	226	130	43	0	797
<b>Fund Appropriations/Allocations</b>									
Water Fund	73	147	71	108	226	130	43	0	797
<b>Total*:</b>	73	147	71	108	226	130	43	0	797
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	8	8
<b>Spending Plan by Fund</b>									
Water Fund		132	71	108	226	130	43	0	709
<b>Total:</b>		132	71	108	226	130	43	0	709

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**Spokane Street Viaduct - WF**

<b>BCL/Program Name:</b>	Shared Cost Projects	<b>BCL/Program Code:</b>	C410B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/2007
<b>Project ID:</b>	C4134-WF	<b>End Date:</b>	Q4/2011
<b>Location:</b>	Spokane St Viaduct		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	West Seattle Junction

In mid-2008, SDOT began construction of the new 4th Ave S off ramp from the the S Spokane St Viaduct. SPU must relocate approximately 600 linear feet of 30" watermain between the BNSF railroad tracks and 4th Ave S to make way for the new ramp. SPU is expected to complete the relocation project in time to allow the SDOT project to be built on schedule. SPU will design, advertise and construct the relocations in a separate contract from the SDOT project. This project was included in the 2010-2015 Adopted CIP as C409020.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	1,699	452	70	0	0	0	0	0	2,221
<b>Total:</b>	1,699	452	70	0	0	0	0	0	2,221
<b>Fund Appropriations/Allocations</b>									
Water Fund	1,699	452	70	0	0	0	0	0	2,221
<b>Total*:</b>	1,699	452	70	0	0	0	0	0	2,221
<b>O &amp; M Costs (Savings)</b>			0	22	22	22	22	22	111
<b>Spending Plan by Fund</b>									
Water Fund		1,000	70	0	0	0	0	0	1,070
<b>Total:</b>		1,000	70	0	0	0	0	0	1,070

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**Stream & Riparian Restoration**

<b>BCL/Program Name:</b>	Habitat Conservation Program	<b>BCL/Program Code:</b>	C160B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q2/2000
<b>Project ID:</b>	C1602	<b>End Date:</b>	ONGOING
<b>Location:</b>	Cedar River Watershed		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This program provides stream and riparian restoration in the Cedar River Watershed, including large woody debris placement, riparian conifer underplanting, and culvert replacement for fish passage and peak storm flows. This program is a requirement under the Cedar River Habitat Conservation Plan (HCP.)

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	5,274	620	375	389	424	439	349	356	8,226
<b>Total:</b>	5,274	620	375	389	424	439	349	356	8,226
<b>Fund Appropriations/Allocations</b>									
Water Fund	5,274	620	375	389	424	439	349	356	8,226
<b>Total*:</b>	5,274	620	375	389	424	439	349	356	8,226
<b>O &amp; M Costs (Savings)</b>			82	82	82	82	82	82	494
<b>Spending Plan by Fund</b>									
Water Fund		381	375	389	424	439	349	356	2,713
<b>Total:</b>		381	375	389	424	439	349	356	2,713

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**Tank Improvements**

<b>BCL/Program Name:</b>	Distribution	<b>BCL/Program Code:</b>	C110B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/2008
<b>Project ID:</b>	C1134	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing program implements water quality, seismic, and other improvements to steel water tanks in Seattle. Functional water tanks are essential to public health protection as they assure that the distribution system is under pressure at all times, even when pump stations or control valves malfunction. Depressurization of the water system may result in siphoning back contaminants from faulty private systems and from the ground into the water pipes. No projects are currently planned for the 2012-2016 timeframe but as projects are identified, necessary funding will be requested.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	491	1,294	1,123	1	1	1	1	1	2,913
<b>Total:</b>	491	1,294	1,123	1	1	1	1	1	2,913
<b>Fund Appropriations/Allocations</b>									
Water Fund	491	1,294	1,123	1	1	1	1	1	2,913
<b>Total*:</b>	491	1,294	1,123	1	1	1	1	1	2,913
<b>O &amp; M Costs (Savings)</b>			10	10	10	10	10	10	60
<b>Spending Plan by Fund</b>									
Water Fund		2,033	1,123	1	1	1	1	1	3,161
<b>Total:</b>		2,033	1,123	1	1	1	1	1	3,161

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**Tolt Bridges**

<b>BCL/Program Name:</b>	Watershed Stewardship	<b>BCL/Program Code:</b>	C130B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/2004
<b>Project ID:</b>	C1308	<b>End Date:</b>	ONGOING
<b>Location:</b>	Tolt River Watershed		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This program replaces aging bridges on forest roads in the Tolt River Watershed, including Chuck Judd Creek Bridge and Siwash Creek Bridge. It improves aging bridge assets in the watershed transportation system to provide City employees, City contractors, and visitors with safe and adequate access to City water supply and hydroelectric assets while minimizing and reducing environmental impacts over time. This program maintains compliance with state laws and safety and environmental regulations, including Washington Department of Natural Resources (WDNR) forest practice regulations and Washington Department of Health (DOH) Watershed Protection Plan regulations. No budget authority is currently being requested for the 2011-2016 timeframe but once specific projects receive Asset Management Committee approval, necessary funding will be requested.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	0	0	0	0	0	0	0	0	0
<b>Total:</b>	0	0	0	0	0	0	0	0	0
<b>Fund Appropriations/Allocations</b>									
Water Fund	0	0	0	0	0	0	0	0	0
<b>Total*:</b>	0	0	0	0	0	0	0	0	0
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	19	0	19
<b>Spending Plan by Fund</b>									
Water Fund		20	0	0	0	0	0	0	20
<b>Total:</b>		20	0	0	0	0	0	0	20

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**Tolt Watershed Restoration**

<b>BCL/Program Name:</b>	Watershed Stewardship	<b>BCL/Program Code:</b>	C130B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q2/2009
<b>Project ID:</b>	C1310	<b>End Date:</b>	Q4/2012
<b>Location:</b>	Tolt River Watershed		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This program provides aquatic and riparian restoration, improves roads for access to restoration areas, and watershed security and protection improvements in the Tolt River Municipal Watershed. This program improves Tolt Watershed management practices to be consistent with the land management practices in the Cedar River Watershed, the City's other primary water supply watershed. Restoration and improvements are based upon recommendations of the 2008 Tolt Watershed Management Plan.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	42	278	109	85	0	0	0	0	514
<b>Total:</b>	42	278	109	85	0	0	0	0	514
<b>Fund Appropriations/Allocations</b>									
Water Fund	42	278	109	85	0	0	0	0	514
<b>Total*:</b>	42	278	109	85	0	0	0	0	514
<b>O &amp; M Costs (Savings)</b>			0	0	5	5	5	5	21
<b>Spending Plan by Fund</b>									
Water Fund		345	109	85	0	0	0	0	540
<b>Total:</b>		345	109	85	0	0	0	0	540

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**Transmission Pipelines Rehabilitation**

<b>BCL/Program Name:</b>	Transmission	<b>BCL/Program Code:</b>	C120B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/2005
<b>Project ID:</b>	C1207	<b>End Date:</b>	ONGOING
<b>Location:</b>	Regional		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	Not in an Urban Village

This program rehabilitates and upgrades water pipes and associated structures in the City of Seattle's transmission system. It assists SPU in providing agreed-upon pressure and flow for wholesale customers, limiting drinking water supply outages, and meeting applicable regulatory requirements of the Washington Department of Health (DOH).

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	1,787	2,464	1,020	1,040	1,061	1,082	1,104	1,126	10,685
<b>Total:</b>	1,787	2,464	1,020	1,040	1,061	1,082	1,104	1,126	10,685
<b>Fund Appropriations/Allocations</b>									
Water Fund	1,787	2,464	1,020	1,040	1,061	1,082	1,104	1,126	10,685
<b>Total*:</b>	1,787	2,464	1,020	1,040	1,061	1,082	1,104	1,126	10,685
<b>O &amp; M Costs (Savings)</b>			10	10	10	10	10	10	60
<b>Spending Plan by Fund</b>									
Water Fund		1,076	1,020	1,040	1,061	1,082	1,104	1,126	7,510
<b>Total:</b>		1,076	1,020	1,040	1,061	1,082	1,104	1,126	7,510

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**Treatment Facility/Water Quality Improvements**

<b>BCL/Program Name:</b>	Water Quality & Treatment	<b>BCL/Program Code:</b>	C140B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/2007
<b>Project ID:</b>	C1413	<b>End Date:</b>	ONGOING
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing project provides construction of various smaller scale water quality and treatment facility rehabilitation and improvement projects that may develop on short notice over the course of each year. It enhances SPU's ability to address water system improvement needs that relate to public health protection and drinking water regulatory compliance. This project was included in the 2010-2015 Adopted CIP as C107018.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	124	154	102	104	106	108	110	113	921
<b>Total:</b>	124	154	102	104	106	108	110	113	921
<b>Fund Appropriations/Allocations</b>									
Water Fund	124	154	102	104	106	108	110	113	921
<b>Total*:</b>	124	154	102	104	106	108	110	113	921
<b>O &amp; M Costs (Savings)</b>			9	9	9	9	9	9	55
<b>Spending Plan by Fund</b>									
Water Fund		100	102	104	106	108	110	113	743
<b>Total:</b>		100	102	104	106	108	110	113	743

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**Upland Reserve Forest Restoration**

<b>BCL/Program Name:</b>	Habitat Conservation Program	<b>BCL/Program Code:</b>	C160B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q2/2000
<b>Project ID:</b>	C1603	<b>End Date:</b>	ONGOING
<b>Location:</b>	Cedar River Watershed		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program provides upland forest restoration in the Cedar River Watershed, including ecological and restoration thinning, conifer planting, forest inventory and modeling, and species monitoring. This program is a requirement under the Cedar River Habitat Conservation Plan (HCP.)

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	5,105	634	599	611	623	636	649	327	9,185
<b>Total:</b>	5,105	634	599	611	623	636	649	327	9,185
<b>Fund Appropriations/Allocations</b>									
Water Fund	5,105	634	599	611	623	636	649	327	9,185
<b>Total*:</b>	5,105	634	599	611	623	636	649	327	9,185
<b>O &amp; M Costs (Savings)</b>			92	92	92	92	92	92	551
<b>Spending Plan by Fund</b>									
Water Fund		588	599	611	623	636	649	327	4,033
<b>Total:</b>		588	599	611	623	636	649	327	4,033

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**Water Infrastructure - Hydrant Replacement/Relocation**

<b>BCL/Program Name:</b>	Distribution	<b>BCL/Program Code:</b>	C110B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q4/1998
<b>Project ID:</b>	C1110	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing program renews or replaces existing hydrants in the City's water distribution system. In general, hydrant renewal or replacement may occur as a result of hydrant malfunction, catastrophic failure due to vehicle damage, or to meet SPU criticality criteria such as spacing, location, cost, opportunity projects, or flow and pressure problems. This program improves access to fire hydrants for the Seattle Fire Department (SFD) and helps to reduce the damage as a result of fire by locating fire hydrants in alternate or additional locations.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	3,876	372	177	276	288	299	311	318	5,917
<b>Total:</b>	3,876	372	177	276	288	299	311	318	5,917
<b>Fund Appropriations/Allocations</b>									
Water Fund	3,876	372	177	276	288	299	311	318	5,917
<b>Total*:</b>	3,876	372	177	276	288	299	311	318	5,917
<b>O &amp; M Costs (Savings)</b>			10	10	10	10	10	10	60
<b>Spending Plan by Fund</b>									
Water Fund		372	177	276	288	299	311	318	2,040
<b>Total:</b>		372	177	276	288	299	311	318	2,040

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**Water Infrastructure - New Hydrants**

<b>BCL/Program Name:</b>	Distribution	<b>BCL/Program Code:</b>	C110B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q2/1999
<b>Project ID:</b>	C1112	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing program installs new hydrants in the City's water distribution system. In general, new hydrants are installed to meet service requests made by private property owners and to comply with Washington Administrative Code (WAC) or Seattle Fire Department (SFD) requirements. This program helps to reduce the damage as a result of fire by locating new fire hydrants throughout the City's direct service area.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	514	112	114	110	115	119	125	127	1,336
<b>Total:</b>	514	112	114	110	115	119	125	127	1,336
<b>Fund Appropriations/Allocations</b>									
Water Fund	514	112	114	110	115	119	125	127	1,336
<b>Total*:</b>	514	112	114	110	115	119	125	127	1,336
<b>O &amp; M Costs (Savings)</b>			10	10	10	10	10	10	62
<b>Spending Plan by Fund</b>									
Water Fund		112	114	110	115	119	125	127	822
<b>Total:</b>		112	114	110	115	119	125	127	822

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**Water Infrastructure - New Taps**

<b>BCL/Program Name:</b>	Distribution	<b>BCL/Program Code:</b>	C110B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q4/1998
<b>Project ID:</b>	C1113	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing program installs new drinking water services throughout the City of Seattle. It provides new connections to existing watermains with no interruption of service to adjacent existing customers (watermain taps), and the installation of metered water service lines from the new tap to the new customers' property lines. This program meets City responsibility for new service connections in the Seattle Municipal Code (SMC) to provide reliable drinking water supply to customers.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	78,387	8,207	7,650	7,803	7,959	8,118	8,281	8,447	134,851
<b>Total:</b>	78,387	8,207	7,650	7,803	7,959	8,118	8,281	8,447	134,851
<b>Fund Appropriations/Allocations</b>									
Water Fund	78,387	8,207	7,650	7,803	7,959	8,118	8,281	8,447	134,851
<b>Total*:</b>	78,387	8,207	7,650	7,803	7,959	8,118	8,281	8,447	134,851
<b>O &amp; M Costs (Savings)</b>			10	10	10	10	10	10	60
<b>Spending Plan by Fund</b>									
Water Fund		7,707	7,650	7,803	7,959	8,118	8,281	8,447	55,964
<b>Total:</b>		7,707	7,650	7,803	7,959	8,118	8,281	8,447	55,964

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**Water Infrastructure - Service Renewal**

<b>BCL/Program Name:</b>	Distribution	<b>BCL/Program Code:</b>	C110B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q4/1998
<b>Project ID:</b>	C1109	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing program replaces existing plastic or galvanized water services in the City's water distribution system. Service replacement may occur as a result of leaking, failing, or to reduce damage in case of failure of the water service. This program improves Seattle's water system and extends the life of the system.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	78,541	7,732	7,854	3,849	3,926	4,005	4,085	4,167	114,160
<b>Total:</b>	78,541	7,732	7,854	3,849	3,926	4,005	4,085	4,167	114,160
<b>Fund Appropriations/Allocations</b>									
Water Fund	78,541	7,732	7,854	3,849	3,926	4,005	4,085	4,167	114,160
<b>Total*:</b>	78,541	7,732	7,854	3,849	3,926	4,005	4,085	4,167	114,160
<b>O &amp; M Costs (Savings)</b>			10	10	10	10	10	10	60
<b>Spending Plan by Fund</b>									
Water Fund		7,314	7,854	3,849	3,926	4,005	4,085	4,167	35,200
<b>Total:</b>		7,314	7,854	3,849	3,926	4,005	4,085	4,167	35,200

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**Water Infrastructure - Watermain Extensions**

<b>BCL/Program Name:</b>	Distribution	<b>BCL/Program Code:</b>	C110B
<b>Project Type:</b>	New Facility	<b>Start Date:</b>	Q1/1998
<b>Project ID:</b>	C1111	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing program assists developers by adding new water mains to the water system in order to serve new residential and commercial developments. Most of the costs are recovered through standard charges. The benefit of this program is that water service is provided to new housing and businesses throughout Seattle.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	11,329	1,530	612	624	1,148	1,195	1,243	1,268	18,950
<b>Total:</b>	11,329	1,530	612	624	1,148	1,195	1,243	1,268	18,950
<b>Fund Appropriations/Allocations</b>									
Water Fund	11,329	1,530	612	624	1,148	1,195	1,243	1,268	18,950
<b>Total*:</b>	11,329	1,530	612	624	1,148	1,195	1,243	1,268	18,950
<b>O &amp; M Costs (Savings)</b>			10	10	10	10	10	10	60
<b>Spending Plan by Fund</b>									
Water Fund		500	612	624	1,148	1,195	1,243	1,268	6,591
<b>Total:</b>		500	612	624	1,148	1,195	1,243	1,268	6,591

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**Water Infrastructure-Seismic Upgrade Pipelines**

<b>BCL/Program Name:</b>	Distribution	<b>BCL/Program Code:</b>	C110B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2009
<b>Project ID:</b>	C1102	<b>End Date:</b>	ONGOING
<b>Location:</b>	Citywide		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing program provides seismic upgrades to strengthen existing and/or install new elements and structures for improved performance of the water distribution system throughout the City of Seattle in the event of a large earthquake. The benefit is a reduction in frequency and duration of water outages after an earthquake.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	958	306	1	1	318	325	331	338	2,578
<b>Total:</b>	958	306	1	1	318	325	331	338	2,578
<b>Fund Appropriations/Allocations</b>									
Water Fund	958	306	1	1	318	325	331	338	2,578
<b>Total*:</b>	958	306	1	1	318	325	331	338	2,578
<b>O &amp; M Costs (Savings)</b>			26	26	26	26	26	26	155
<b>Spending Plan by Fund</b>									
Water Fund		210	1	1	318	325	331	338	1,524
<b>Total:</b>		210	1	1	318	325	331	338	1,524

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**Water Quality Equipment**

<b>BCL/Program Name:</b>	Water Quality & Treatment	<b>BCL/Program Code:</b>	C140B
<b>Project Type:</b>	Improved Facility	<b>Start Date:</b>	Q1/2007
<b>Project ID:</b>	C1414	<b>End Date:</b>	Q4/2013
<b>Location:</b>	Various		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This project installs water quality monitoring equipment throughout the drinking water distribution system and enhances SPU's drinking water quality, security, and public health surveillance system. This effort will improve Seattle's ability to detect and respond appropriately to potential drinking water contamination events as recommended by research produced by SPU and the Environmental Protection Agency (EPA) for online monitoring equipment and SPU's broader efforts to increase the security of the water system. This project was included in the 2010-2015 Adopted CIP as C107020.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	180	200	51	208	212	0	0	0	852
<b>Total:</b>	180	200	51	208	212	0	0	0	852
<b>Fund Appropriations/Allocations</b>									
Water Fund	180	200	51	208	212	0	0	0	852
<b>Total*:</b>	180	200	51	208	212	0	0	0	852
<b>O &amp; M Costs (Savings)</b>			0	0	0	9	9	9	26
<b>Spending Plan by Fund</b>									
Water Fund		1	51	208	212	0	0	0	472
<b>Total:</b>		1	51	208	212	0	0	0	472

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**Water Supply Flexibility Program**

<b>BCL/Program Name:</b>	Water Resources	<b>BCL/Program Code:</b>	C150B
<b>Project Type:</b>	New Investment	<b>Start Date:</b>	Q1/2008
<b>Project ID:</b>	C1507	<b>End Date:</b>	Q4/2016
<b>Location:</b>	Multiple		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This program improves water system performance, reliability, and flexibility during severe weather events, supply and infrastructure emergencies, as well as enhancing environmental performance for fish and supporting regulatory and policy compliance in these areas. Project improvements include Tolt Reservoir Temperature and the Overflow Dike in Chester Morse Lake, and may include but are not limited to, dam integrity and alternatives to improved crest control, reservoir water temperature, and water quality management. This program will be on hold between 2011 and 2014.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	125	154	0	0	0	0	739	3,563	4,580
<b>Total:</b>	125	154	0	0	0	0	739	3,563	4,580
<b>Fund Appropriations/Allocations</b>									
Water Fund	125	154	0	0	0	0	739	3,563	4,580
<b>Total*:</b>	125	154	0	0	0	0	739	3,563	4,580
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Water Fund		0	0	0	0	0	739	3,563	4,301
<b>Total:</b>		0	0	0	0	0	739	3,563	4,301

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**Water System Dewatering**

<b>BCL/Program Name:</b>	Transmission	<b>BCL/Program Code:</b>	C120B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/2007
<b>Project ID:</b>	C1205	<b>End Date:</b>	ONGOING
<b>Location:</b>	Regional		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	Not in an Urban Village

This ongoing program improves structures used to empty the water from larger pipelines when necessary for inspection or repair. The new structures better control the impact of the water discharged to the environment and comply with current environmental regulations.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	103	100	102	104	106	108	110	113	846
<b>Total:</b>	103	100	102	104	106	108	110	113	846
<b>Fund Appropriations/Allocations</b>									
Water Fund	103	100	102	104	106	108	110	113	846
<b>Total*:</b>	103	100	102	104	106	108	110	113	846
<b>O &amp; M Costs (Savings)</b>			8	8	8	8	8	8	51
<b>Spending Plan by Fund</b>									
Water Fund		57	102	104	106	108	110	113	700
<b>Total:</b>		57	102	104	106	108	110	113	700

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**Water System Plan - 2013**

<b>BCL/Program Name:</b>	Water Resources	<b>BCL/Program Code:</b>	C150B
<b>Project Type:</b>	New Investment	<b>Start Date:</b>	Q2/2010
<b>Project ID:</b>	C1509	<b>End Date:</b>	Q3/2013
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This project develops the 2013 Water System Plan. This project meets the State requirement that SPU update a water system plan every six years and submit the plan to the Washington Department of Health (DOH) for approval as a condition of the operating permit for the drinking water system. This project was included in the 2010-2015 Adopted CIP as C113001.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	0	99	473	256	26	0	0	0	854
<b>Total:</b>	0	99	473	256	26	0	0	0	854
<b>Fund Appropriations/Allocations</b>									
Water Fund	0	99	473	256	26	0	0	0	854
<b>Total*:</b>	0	99	473	256	26	0	0	0	854
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan by Fund</b>									
Water Fund		99	473	256	26	0	0	0	854
<b>Total:</b>		99	473	256	26	0	0	0	854

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**Water System Plan - 2019**

<b>BCL/Program Name:</b>	Water Resources	<b>BCL/Program Code:</b>	C150B
<b>Project Type:</b>	New Investment	<b>Start Date:</b>	Q1/2016
<b>Project ID:</b>	C1510	<b>End Date:</b>	Q3/2019
<b>Location:</b>	N/A		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This project develops the 2019 Water System Plan. This project meets the State requirement that SPU update a water system plan every six years and submit the plan to the Washington Department of Health (DOH) for approval as a condition of the operating permit for the drinking water system.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	0	0	0	0	0	0	0	113	113
<b>Total:</b>	0	0	0	0	0	0	0	113	113
<b>Fund Appropriations/Allocations</b>									
Water Fund	0	0	0	0	0	0	0	113	113
<b>Total*:</b>	0	0	0	0	0	0	0	113	113
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Watermain Rehabilitation**

<b>BCL/Program Name:</b>	Distribution	<b>BCL/Program Code:</b>	C110B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/2004
<b>Project ID:</b>	C1129	<b>End Date:</b>	ONGOING
<b>Location:</b>	Regional		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	In more than one District	<b>Urban Village:</b>	In more than one Urban Village

This ongoing program replaces or rehabilitates existing watermains in Seattle. Replacements occur when leaks become too frequent. Rehabilitation by lining the interior of the pipe with cement mortar restores the capacity of watermains that have degraded due to interior deposits. The benefits of this program are restored quality of the delivered water, lower use of chlorine to maintain required chlorine residual, and restored pressures.

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	587	452	765	1,561	1,592	3,247	3,312	3,379	14,895
<b>Total:</b>	587	452	765	1,561	1,592	3,247	3,312	3,379	14,895
<b>Fund Appropriations/Allocations</b>									
Water Fund	587	452	765	1,561	1,592	3,247	3,312	3,379	14,895
<b>Total*:</b>	587	452	765	1,561	1,592	3,247	3,312	3,379	14,895
<b>O &amp; M Costs (Savings)</b>			10	10	10	10	10	10	60
<b>Spending Plan by Fund</b>									
Water Fund		860	765	1,561	1,592	3,247	3,312	3,379	14,715
<b>Total:</b>		860	765	1,561	1,592	3,247	3,312	3,379	14,715

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**Watershed Road Improvement/Decommissioning**

<b>BCL/Program Name:</b>	Habitat Conservation Program	<b>BCL/Program Code:</b>	C160B
<b>Project Type:</b>	Rehabilitation or Restoration	<b>Start Date:</b>	Q1/2001
<b>Project ID:</b>	C1601	<b>End Date:</b>	ONGOING
<b>Location:</b>	Cedar River Watershed		
<b>Neighborhood Plan:</b>	Not in a Neighborhood Plan	<b>Neighborhood Plan Matrix:</b>	N/A
<b>Neighborhood District:</b>	Not in a Neighborhood District	<b>Urban Village:</b>	Not in an Urban Village

This program provides forest road improvements and decommissioning in the Cedar River Watershed. The purpose of this program is to reduce the delivery of sediment into the waterways in the watershed to protect both aquatic habitat and water quality. This program is a requirement under the Cedar River Watershed Habitat Conservation Plan (HCP.)

	LTD Actuals	2010 Rev	2011	2012	2013	2014	2015	2016	Total
<b>Revenue Sources</b>									
Water Rates	8,360	832	1,482	1,511	1,541	1,572	1,603	1,014	17,915
<b>Total:</b>	8,360	832	1,482	1,511	1,541	1,572	1,603	1,014	17,915
<b>Fund Appropriations/Allocations</b>									
Water Fund	8,360	832	1,482	1,511	1,541	1,572	1,603	1,014	17,915
<b>Total*:</b>	8,360	832	1,482	1,511	1,541	1,572	1,603	1,014	17,915
<b>O &amp; M Costs (Savings)</b>			179	179	179	179	179	179	1,075
<b>Spending Plan by Fund</b>									
Water Fund		847	1,482	1,511	1,541	1,572	1,603	1,014	9,570
<b>Total:</b>		847	1,482	1,511	1,541	1,572	1,603	1,014	9,570

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