

**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
- 92 permitted combined sewer overflow outfalls
- 170 storm drain outfalls
- 38 combined sewer overflow control detention tanks/pipes

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. In 2007, SPU met its target of cash funding 25% of total CIP costs, 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 \$26.4 million is included in the 2009-2010 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 2009-2014 Adopted CIP respond to federal and state regulations requiring the City to monitor and reduce CSOs.
- **Flood Control, Local Drainage, and Water Quality:** The City's Comprehensive Drainage Plan (CDP), originally written in 1988, was updated in 2004 to address flooding and water quality needs in a systematic manner citywide, and to establish a long-term schedule of both capital improvements and operating programs. This work is also intended to comply with the requirements of the National Pollutant Discharge Elimination System (NPDES) drainage permit, which took effect in February 2007. The CIP includes projects to implement both the CDP and the Mayor's Restore Our Waters Strategy to protect Seattle's aquatic environment.
- **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 approach for selecting which projects to build. This is a triple bottom line approach in which projects are evaluated on their economic, social, and environmental benefits, as well as the ability to meet customer service levels. The approach provides an elaborate analytical and modeling framework to find the most economical balance between capital investments and operations and maintenance expenditures to minimize life-cycle costs of any facility.

A committee of senior SPU executives, the Asset Management Committee (AMC), reviews each project valued at \$250,000 or more and assures that only projects that meet the benefit criteria move forward. Several projects have been dropped, as the costs were higher than the benefits.

Program Category Summaries

The 2009-2010 Adopted Drainage and Wastewater CIP totals approximately \$78.1 million in 2009 and \$89.2 million in 2010 (including Technology projects funded by the Drainage and Wastewater Fund, displayed in a separate section of this CIP).

The Control Structures Budget Control Level (BCL) is \$12.2 million in 2009 and \$14.1 million in 2010, which is a slight decrease relative to the prior CIP. This decrease is a result of combined sewer overflow (CSO) planning and monitoring projects being shifted from CIP to Operations and Maintenance (O&M) due to new SPU accounting policies, as recommended by SPU's external auditors. However, this reduction is offset by the addition of \$4.7 million to develop and implement a CSO Long Term Control Plan as required by the Environmental Protection Agency (EPA). This BCL also includes funding to complete the Windermere, Genesee, Henderson, Ballard and Fremont/Wallingford CSO reduction projects on an aggressive schedule.

The Landslide Mitigation & Special Programs BCL is down slightly from the 2009 planned funding level in the 2008-2013 Adopted CIP due to moving work from the CIP to the O&M to be in compliance with SPU's new accounting policies and capitalization guidelines.

The Low Impact Development BCL is slightly higher than the 2009 planned funding level in the 2008-2013 Adopted CIP in 2009 largely due to an increase in costs for the following projects and programs: Capitol Hill Water Quality Implementation; Natural Drainage System Improvements; and Venema Creek Natural Drainage.

The Protection of Beneficial Uses BCL is \$4.2 million in 2009 and \$1.6 million in 2010. This is lower than the 2009 planned funding level in the 2008-2013 Adopted CIP, partly due to completion of the major construction portion of the Thornton Creek Water Quality Channel project in 2008.

The Shared Costs Projects BCL is \$21.2 million in 2009 and \$20.7 million in 2010. This is higher than the 2009 planned funding level in the 2008-2013 Adopted CIP largely due to higher estimates for the Bridging the Gap Program, utility relocation for the Alaskan Way Viaduct and Seawall Replacement project, and the South Lake Union program. Estimates are also higher for the Capital Storms program as permanent fixes to assets broken from the 2007 winter storms continue to be made.

The Stormwater & Flood Control BCL is \$17.7 million in 2009 and \$26.8 million in 2010. This is lower than the 2009 planned funding level in the 2008-2013 Adopted CIP largely due to a change in schedule for the Madison Valley project. Now that reconciliation of Council direction and community input on the long-term solution are complete, the schedule and spending plan have been adjusted to reflect final decisions.

The Wastewater Conveyance BCL is \$10.9 million in 2009 and \$11.5 million in 2010. The overall net change is just slightly higher than the 2009 planned funding level in the 2008-2013 Adopted CIP. The change is the result of reduced spending planned for Small Sewer Improvements and Wastewater Rehabilitation Evaluation projects offset by increased funding for the Sanitary Sewer Overflow Capacity project.

SPU – Drainage & Wastewater

The Drainage and Wastewater CIP is composed of nine program categories, which are summarized below.

Control Structures: This program contains projects to plan, design, construct, and monitor facilities to control overflows from the combined and partially separated sewer system areas. The adopted CSO Plan amendment discusses the plan for control of those CSO locations where work has not yet been completed. This business area also addresses other hydraulic control features in the system, such as gates, valves, and weirs.

Landslide Mitigation & Special Programs: The projects and programs in this program category protect SPU drainage and wastewater infrastructure from landslides, provide drainage improvements where surface water generated from the city right-of-way is contributing to landslides, and manage stormwater policy and grants, interdepartmental coordination and programs, and citizen response activities.

Low-Impact Development: The projects and programs in this program category use stormwater facilities with multiple functionality to achieve the primary goals of flood protection, water quality improvement, and/or habitat enhancement.

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 of cleanup of contaminated sediment sites in which the City is a participant, for actual clean up 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.

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 2008, the Drainage and Wastewater program includes funding for the Utility Relocation due to the Alaskan Way Viaduct and Seawall Replacement Project, Operational Facility Improvements, the Operations Control Center Upgrade, Security Improvements, and Sound Transit Light Rail.

Stormwater & Flood Control: The projects and programs in this category make improvements to the City's drainage system to alleviate and prevent flooding in Seattle, with a primary focus on the protection of public health, safety and property.

Wastewater Conveyance: This program rehabilitates the City's collection system of sewer pipes. The Department establishes priorities for the program primarily based on the results of closed circuit television inspections and an asset management criticality analysis. The program funds full and partial replacement of sewer line segments, point repairs, and lining of pipes, as well as costs for emergency repairs.

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. In 2008, SPU continues analyzing and evaluating data and systems to move drainage billing from the King County property tax system to the City's utility billing system.

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 budget submittals.

City Council Provisos to the CIP

There are no Council provisos.

SPU - Drainage & Wastewater

Project Summary

BCL/Program Name & Project	Project ID	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Control Structures						BCL/Program Code:				C310B
Ballard Combined Sewer Overflow	C303101	0	309	0	0	640	1,145	474	2,484	5,052
Combined Sewer Overflow Facility Retrofit	C302102	4,213	2,092	1,782	1,618	2,197	2,274	2,353	2,435	18,964
Fremont-Wallingford Combined Sewer Overflow	C303102	0	348	0	0	1,063	1,822	1,032	6,073	10,338
Future Combined Sewer Overflow Reduction	C309002	0	1	0	525	1,199	3,811	6,730	12,056	24,323
Long Term Control Plan	C308039	0	0	4,678	4,784	3,262	3,377	582	0	16,683
Pump Station and Force Main Improvements	C3102	2,519	1,352	1,657	1,716	2,039	2,160	2,288	2,411	16,141
S Genesee Combined Sewer Overflow	C303103	931	1,349	1,296	1,786	2,937	11,179	6,308	173	25,959
S Henderson Combined Sewer Overflow Storage	C304102	1,274	1,283	1,368	2,737	5,202	13,519	12,352	12,785	50,520
Windermere Combined Sewer Overflow Storage	C302103	2,251	2,260	1,445	976	1,087	1,126	1,165	1,206	11,516
Control Structures Total		11,188	8,994	12,226	14,143	19,627	40,411	33,284	39,624	179,496

*Amounts in thousands of dollars

2009-2014 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Project Summary

BCL/Program Name & Project	Project ID	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Landslide Mitigation & Special Programs						BCL/Program Code:				C335B
1500 - 2600 Aurora N Landslide	C363401	8	1	0	0	215	960	151	0	1,336
47 SW & SW Maplewood Place Landslide	C363402	9	1	0	63	126	522	58	0	780
Drainage Spot Improvements	C333201	1,649	219	219	239	272	281	291	301	3,471
Salmon Bay Natural Area Restoration	C333307	742	1	551	1	0	0	0	0	1,295
Small Landslide Projects	C3325	1,556	504	442	410	560	580	600	621	5,272
SW Prescott/Admiral Landslide	C302353	641	1	0	0	185	11	0	0	838
Works Progress Administration Drains Study & Repair	C3315	738	257	0	0	544	563	582	603	3,287
Landslide Mitigation & Special Programs Total		5,342	984	1,212	713	1,902	2,917	1,683	1,525	16,279
Low Impact Development						BCL/Program Code:				C334B
Capitol Hill Water Quality Project	C306001	164	1,963	1,589	1,088	1,977	3,011	0	0	9,791
High Point Drainage System	C301303	3,617	721	185	99	109	0	0	0	4,731
Natural Drainage System Improvements	C333206	720	122	1,540	1,368	2,175	4,502	4,659	4,822	19,909
Venema Creek Natural Drainage System	C302317	959	151	417	1,868	3,018	146	151	134	6,844
Low Impact Development Total		5,461	2,957	3,730	4,423	7,278	7,659	4,811	4,956	41,275

*Amounts in thousands of dollars

2009-2014 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Project Summary

BCL/Program Name & Project	Project ID	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Protection of Beneficial Uses						BCL/Program Code:				C333B
Beer Sheva Habitat Improvement	C301319	177	45	11	0	11	0	0	0	245
Best Management Practice Program	C3313	1,537	1,429	2,435	114	54	56	6	6	5,636
Bitter Lake/N 137th Stormwater	C301322	14	1	1	61	130	450	1,008	1,043	2,708
Fish Passage Program	C353305	140	1	165	464	217	225	233	241	1,687
Seattle Housing Authority Integrated Drainage Plan	C363301	157	337	669	294	0	0	0	0	1,457
Taylor Creek Culvert Replacement	C399315	766	601	106	508	1,087	113	116	121	3,418
Taylor Creek Fish Habitat Improvements	C308003	0	1	0	0	272	281	0	0	554
Thornton Creek Water Quality Channel Project	C343306	4,144	9,847	774	148	22	0	0	0	14,935
Protection of Beneficial Uses Total		6,935	12,262	4,161	1,589	1,794	1,126	1,363	1,411	30,641
Sediments						BCL/Program Code:				C350B
Sediment Remediation - DWF	C3503	11,477	4,836	2,343	5,409	8,239	6,038	3,103	91	41,536
Sediments Total		11,477	4,836	2,343	5,409	8,239	6,038	3,103	91	41,536

*Amounts in thousands of dollars

2009-2014 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Project Summary

BCL/Program Name & Project	Project ID	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Shared Cost Projects						BCL/Program Code:				C410B
1% for Art – DWF	C4118-DWF	0	282	339	392	365	283	207	209	2,077
Bridging the Gap - DWF	C4119-DWF	0	1,560	3,157	3,303	4,500	1,350	1,250	750	15,870
Emergency Storms - DWF	C4120-DWF	25	175	1,062	1,424	555	181	182	189	3,793
Heavy Equipment Purchases - DWF	C4116-DWF	1,353	4,534	1,688	1,295	1,691	2,025	1,941	2,170	16,696
Integrated Control Monitoring Program - DWF	C4108-DWF	2,400	3,775	4,078	4,086	3,382	3,154	3,734	3,835	28,443
King Street Station Rehabilitation	C409017	0	308	0	0	0	0	0	0	308
Meter Replacement - DWF	C4101-DWF	2,258	577	631	657	637	659	682	706	6,807
Operational Facility - Construction - DWF	C4106-DWF	4,064	867	1,109	328	444	1,792	1,854	2,112	12,570
Operational Facility - Other - DWF	C4115-DWF	83	418	452	128	0	0	0	0	1,081
Operations Control Center - DWF	C4105-DWF	0	85	81	217	345	284	0	0	1,011
Other Major Transportation Projects - DWF	C4123-DWF	0	278	150	275	300	350	500	500	2,353
Security Improvements - DWF	C4113-DWF	292	518	29	511	560	383	250	166	2,709
Sound Transit - East & North Links - DWF	C4122-DWF	0	0	25	25	25	25	25	25	150
Sound Transit – University Link - DWF	C4110-DWF	26	237	273	296	65	67	31	0	994
Sound Transit Central Link - DWF	C4104-DWF	2,533	323	46	19	0	0	0	0	2,922
Sound Transit Integrated Drainage Plan	C405001	192	360	2,147	0	0	0	0	0	2,699
South Lake Union - DWF	C4114-DWF	763	144	1,614	2,192	163	84	0	0	4,960
Spokane Street Viaduct	C409021	95	600	52	11	5	0	0	0	762
SR 519 Interchange	C409016	0	206	207	286	100	0	0	0	799

*Amounts in thousands of dollars

2009-2014 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Project Summary

BCL/Program Name & Project	Project ID	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Shared Cost Projects						BCL/Program Code:				C410B
Utility Relocation due to Alaskan Way Viaduct and Seawall Replacement – DWF	C4102-DWF	1,322	2,310	4,070	5,270	8,722	8,922	5,483	15,948	52,047
Shared Cost Projects Total		15,406	17,558	21,208	20,714	21,857	19,558	16,140	26,610	159,052
Stormwater & Flood Control						BCL/Program Code:				C332B
14th Ave S Drainage Improvements	C308006	0	500	21	0	0	0	0	0	521
4th Avenue S/S Trenton Storm Drain	C353202	1,565	3,618	850	0	0	0	0	0	6,033
Comprehensive Drainage Plan Implementation	C307018	0	0	0	0	4,350	4,502	4,659	4,822	18,333
Densmore Basin Drainage Improvements	C3322	0	0	850	2,570	135	0	0	0	3,555
Georgetown Flume Drainage Improvements	C307019	220	1,023	730	15	0	0	0	0	1,988
Localized Flood Control Program	C3312	561	1,081	2,062	2,689	3,262	3,377	2,330	2,411	17,773
Madison Valley Long Term Solution	C307014	3,146	3,725	7,234	16,077	9,352	113	58	0	39,705
MLK Way/Norfolk Street Storm Improvement	C333205	1,863	3,059	469	53	54	11	6	6	5,522
South Park Pump Station	C308011	0	0	5,487	5,349	78	0	0	0	10,914
Stormwater & Flood Control Total		7,356	13,006	17,703	26,753	17,231	8,002	7,053	7,240	104,344

*Amounts in thousands of dollars

2009-2014 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Project Summary

BCL/Program Name & Project	Project ID	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Wastewater Conveyance										BCL/Program Code: C320B
Densmore Basin - Linden Ave N/N 143 St. - Sewer Improvements	C308008	0	0	748	941	816	844	291	301	3,941
Inflow/Infiltration Control	C309003	0	0	0	1,265	3,262	3,377	3,494	3,617	15,015
Lakewood Raincatcher Pilot Project	C305202	561	783	705	121	43	18	0	0	2,232
Minor Facility Upgrades - Rehabilitation	C3AA402	380	90	5	5	114	124	0	133	850
No Dig Pipe & Maintenance Rehabilitation	C3AA403	11,135	3,200	2,839	2,679	3,274	3,389	3,507	3,630	33,652
Point Sewer Pipe Rehabilitation - Contract	C303401	3,043	1,218	171	187	1,196	1,238	1,165	1,326	9,545
Point Sewer Pipe Rehabilitation - Crews	C303402	14,429	2,830	2,225	2,265	3,643	3,827	4,019	4,220	37,456
Sanitary Sewer Overflow Capacity	C302205	924	1,071	1,978	2,136	3,262	5,628	5,824	6,028	26,852
Sewage System Model	C308005	0	1,275	1,009	669	384	332	0	0	3,670
Sewer Emergency Rehabilitation	C3AA404	4,393	641	645	685	761	788	0	905	8,818
Sewer Full Line Replacements	C3202	181	357	392	413	428	450	466	482	3,169
Small Sewer Improvements	C303299	302	179	145	148	326	338	349	362	2,149
Wastewater Conveyance Total		35,348	11,644	10,862	11,515	17,510	20,351	19,116	21,004	147,350
Department Total		98,514	72,241	73,445	85,260	95,438	106,062	86,552	102,460	719,972

*Amounts in thousands of dollars

2009-2014 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Fund Summary

Fund Name	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Drainage and Wastewater Fund	104,929	76,289	78,148	89,204	98,998	109,758	90,354	106,462	754,141
Department Total	104,929	76,289	78,148	89,204	98,998	109,758	90,354	106,462	754,141

Note: Additional allocations for the Drainage and Wastewater Fund are shown in the SPU - Technology section of this document.

**Amounts in thousands of dollars*

2009-2014 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

1% for Art – DWF

BCL/Program Name: Shared Cost Projects

BCL/Program Code: C410B

Project Type: Improved Facility

Start Date: 1st Quarter 2001

Project ID: C4118-DWF

End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	0	282	339	392	365	283	207	209	2,077
Project Total:	0	282	339	392	365	283	207	209	2,077
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	0	282	339	392	365	283	207	209	2,077
Appropriations Total*	0	282	339	392	365	283	207	209	2,077
O & M Costs (Savings)			7	7	7	7	7	7	42

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SPU - Drainage & Wastewater

14th Ave S Drainage Improvements

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: Improved Facility

Start Date: 1st Quarter 2008

Project ID: C308006

End Date: 4th Quarter 2009

Location: 14th Ave S/S Director/S Cloverdale St

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: South Park

This project provides surface drainage structures as part of the SDOT Transportation Improvement Board-funded street improvement project for 14th Ave S from S Director Street to S Cloverdale Street. This effort is an opportunity project that upgrades surface drainage structures to current standards and supports the Mayor's Complete Streets initiative.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	0	500	21	0	0	0	0	0	521
Project Total:	0	500	21	0	0	0	0	0	521
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	0	500	21	0	0	0	0	0	521
Appropriations Total*	0	500	21	0	0	0	0	0	521
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	21	0	0	0	0	0	21

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SPU - Drainage & Wastewater

1500 - 2600 Aurora N Landslide

BCL/Program Name: Landslide Mitigation & Special Programs	BCL/Program Code: C335B
Project Type: New Facility	Start Date: 1st Quarter 2006
Project ID: C363401	End Date: 4th Quarter 2013

Location: Aurora Ave. N/Galer St./Raye St.

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Magnolia/Queen Anne

Urban Village: Not in an Urban Village

This project provides funding to implement improvements to a steep slope with three combined sewer lines traversing down to Aurora Ave N at the northeast corner of Queen Anne Hill. Work includes preliminary analyses, installing the combined sewer lines deeper in the hillside for protection, and improving the method for collecting stormwater from nearby streets to reduce landslide risks. The goal is to protect these combined sewer lines from landslides and the associated damage affecting people and environment. Spending in years 2009 and 2010 is related to project development and will be charged to O&M.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	8	1	0	0	215	960	151	0	1,336
Project Total:	8	1	0	0	215	960	151	0	1,336
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	8	1	0	0	215	960	151	0	1,336
Appropriations Total*	8	1	0	0	215	960	151	0	1,336
O & M Costs (Savings)			0	0	0	0	0	2	2
Spending Plan		1	0	0	215	960	151	0	1,328

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SPU - Drainage & Wastewater

47 SW & SW Maplewood Place Landslide

BCL/Program Name: Landslide Mitigation & Special Programs	BCL/Program Code: C335B
Project Type: New Facility	Start Date: 1st Quarter 2006
Project ID: C363402	End Date: 4th Quarter 2013

Location: 47th Ave. SW at SW Maplewood Pl

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Southwest

Urban Village: Not in an Urban Village

This project provides improvements to the existing storm drain system located on 47th Av SW and SW Maplewood Pl. The project constructs measures to stabilize the slope where the storm drain is located, to reroute street runoff from a private drainage system, and to connect to an existing SPU storm drain system. This need was identified during the Comprehensive Drainage Planning process. Spending in 2009 is related to project development and will be charged to O&M.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	9	1	0	63	126	522	58	0	780
Project Total:	9	1	0	63	126	522	58	0	780
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	9	1	0	63	126	522	58	0	780
Appropriations Total*	9	1	0	63	126	522	58	0	780
O & M Costs (Savings)			0	0	0	0	0	2	2
Spending Plan		1	0	63	126	522	58	0	771

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

SPU - Drainage & Wastewater

4th Avenue S/S Trenton Storm Drain

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: 1st Quarter 2005

Project ID: C353202

End Date: 4th Quarter 2009

Location: 4th Ave S & S Trenton St. / 7th Ave S & S Director St.

Neighborhood Plan: South Park

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: South Park

This project provides several blocks of new storm drains and repaved streets to reduce local flooding in the South Park neighborhood. The project reduces flows to the combined sewer system in the area by rerouting the drainage from the combined and sanitary system to an existing storm drain on 5th Ave S. The project also includes bio-swales to remove pollution from local storm water runoff.

	LTD	2008	2009	2010	2011	2012	2013	2014	Total
	Actuals								
Revenue Sources									
Drainage and Wastewater Rates	1,565	3,618	850	0	0	0	0	0	6,033
Project Total:	1,565	3,618	850	0	0	0	0	0	6,033
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	1,565	3,618	850	0	0	0	0	0	6,033
Appropriations Total*	1,565	3,618	850	0	0	0	0	0	6,033
O & M Costs (Savings)			0	72	72	72	5	5	226
Spending Plan		6,095	850	0	0	0	0	0	6,945

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SPU - Drainage & Wastewater

Ballard Combined Sewer Overflow

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: New Facility	Start Date: 3rd Quarter 2008
Project ID: C303101	End Date: 4th Quarter 2020

Location: Ballard

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Ballard

Urban Village: Not in an Urban Village

This project provides construction of combined sewer overflow (CSO) facilities in the Ballard area in the northwest part of Seattle. Facilities will be built to meet water quality standards for the Ship Canal 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. Spending in years 2009 and 2010 is related to project development and will be charged to O&M. Maintenance costs will not begin until after 2014, when the project completes construction.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	0	309	0	0	640	1,145	474	2,484	5,052
Project Total:	0	309	0	0	640	1,145	474	2,484	5,052
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	0	309	0	0	640	1,145	474	2,484	5,052
Appropriations Total*	0	309	0	0	640	1,145	474	2,484	5,052
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		100	0	0	640	1,145	474	2,484	4,843

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SPU - Drainage & Wastewater

Beer Sheva Habitat Improvement

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 4th Quarter 2001

Project ID: C301319

End Date: 4th Quarter 2011

Location: Seward Park Ave. S/S Henderson St.

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Southeast

Urban Village: Not in an Urban Village

This project provides a high-quality fish refuge and rearing habitat at the mouth of Mapes Creek in Beer Sheva Park and a natural creek channel in the lower portion of the creek. The project includes creating a natural creek mouth by placing the creek in an open, meandering creek channel in Beer Sheva Park, and relocating its discharge point into Lake Washington at the edge of the shoreline rather than offshore in deeper water. The daylighted creek will enhance fish habitat at the south end of Lake Washington. The US Army Corps of Engineers is the lead on this project, and Seattle Public Utilities and the Seattle Parks Departments have partnered as local sponsors.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	177	45	11	0	11	0	0	0	245
Project Total:	177	45	11	0	11	0	0	0	245
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	177	45	11	0	11	0	0	0	245
Appropriations Total*	177	45	11	0	11	0	0	0	245
O & M Costs (Savings)			0	0	0	2	2	2	6
Spending Plan		20	11	0	11	0	0	0	42

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SPU - Drainage & Wastewater

Best Management Practice Program

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 2nd Quarter 2000

Project ID: C3313

End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: 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.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	1,537	1,429	2,435	114	54	56	6	6	5,636
Project Total:	1,537	1,429	2,435	114	54	56	6	6	5,636
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	1,537	1,429	2,435	114	54	56	6	6	5,636
Appropriations Total*	1,537	1,429	2,435	114	54	56	6	6	5,636
O & M Costs (Savings)			116	116	116	116	116	116	696
Spending Plan		964	5,552	2,953	130	56	6	6	9,667

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2009-2014 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Bitter Lake/N 137th Stormwater

BCL/Program Name: Protection of Beneficial Uses	BCL/Program Code: C333B
Project Type: New Facility	Start Date: 2nd Quarter 2001
Project ID: C301322	End Date: 4th Quarter 2015

Location: N 137th St.

Neighborhood Plan: Broadview-Bitter Lake-Haller Lake **Neighborhood Plan Matrix:** N/A

Neighborhood District: Northwest **Urban Village:** Bitter Lake Village

This project provides design and construction of a stormwater treatment facility at Bitter Lake. The project will improve the quality of stormwater discharging into Bitter Lake and reduce the frequency of required dredging offshore of the Greenwood Ave N storm drain outfall in the lake. This project supports the Mayor's Restore Our Waters strategy to improve Seattle's aquatic environments. Maintenance costs will not begin until after 2014, when construction is completed.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	14	1	1	61	130	450	1,008	1,043	2,708
Project Total:	14	1	1	61	130	450	1,008	1,043	2,708
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	14	1	1	61	130	450	1,008	1,043	2,708
Appropriations Total*	14	1	1	61	130	450	1,008	1,043	2,708
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	1	61	130	450	1,008	1,043	2,693

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

SPU - Drainage & Wastewater

Bridging the Gap - DWF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2008
Project ID: C4119-DWF **End Date:** 4th Quarter 2016

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	0	1,560	3,157	3,303	4,500	1,350	1,250	750	15,870
Project Total:	0	1,560	3,157	3,303	4,500	1,350	1,250	750	15,870
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	0	1,560	3,157	3,303	4,500	1,350	1,250	750	15,870
Appropriations Total*	0	1,560	3,157	3,303	4,500	1,350	1,250	750	15,870
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		660	3,157	3,303	4,500	1,350	1,250	750	14,970

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SPU - Drainage & Wastewater

Capitol Hill Water Quality Project

BCL/Program Name: Low Impact Development	BCL/Program Code: C334B
Project Type: New Facility	Start Date: 1st Quarter 2006
Project ID: C306001	End Date: 4th Quarter 2012

Location: Yale Ave N/ Pontius Ave N/Thomas St/Republican St

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A

Neighborhood District: Lake Union **Urban Village:** 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.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	164	1,963	1,589	1,088	1,977	3,011	0	0	9,791
Project Total:	164	1,963	1,589	1,088	1,977	3,011	0	0	9,791
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	164	1,963	1,589	1,088	1,977	3,011	0	0	9,791
Appropriations Total*	164	1,963	1,589	1,088	1,977	3,011	0	0	9,791
O & M Costs (Savings)			0	0	0	5	10	10	25
Spending Plan		1,356	1,589	1,088	1,977	3,011	0	0	9,021

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SPU - Drainage & Wastewater

Combined Sewer Overflow Facility Retrofit

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: Rehabilitation or Restoration	Start Date: 1st Quarter 2002
Project ID: C302102	End Date: Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: 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 program 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.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	4,213	2,092	1,782	1,618	2,197	2,274	2,353	2,435	18,964
Project Total:	4,213	2,092	1,782	1,618	2,197	2,274	2,353	2,435	18,964
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	4,213	2,092	1,782	1,618	2,197	2,274	2,353	2,435	18,964
Appropriations Total*	4,213	2,092	1,782	1,618	2,197	2,274	2,353	2,435	18,964
O & M Costs (Savings)			190	190	190	190	190	190	1,140
Spending Plan		600	1,782	1,618	2,197	2,274	2,353	2,435	13,259

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SPU - Drainage & Wastewater

Comprehensive Drainage Plan Implementation

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: 1st Quarter 2010

Project ID: C307018

End Date: 4th Quarter 2014

Location: Citywide

Neighborhood Plan: In more than one Plan

Neighborhood Plan Matrix: Multiple

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This ongoing project makes drainage improvements identified in the 2004 Comprehensive Drainage Plan (CDP) within Seattle over the next six years. Flooding will be addressed at critical sites within the Central District Area, Thornton Creek, Densmore Basin, and South Park Basin. Flood control and local drainage project development may identify separate projects for coordination with other departments such as SDOT. This project was included in the 2007 Adopted Budget, but was delayed due to higher funding priorities and is scheduled to begin in 2010.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	0	0	4,350	4,502	4,659	4,822	18,333
Project Total:	0	0	0	0	4,350	4,502	4,659	4,822	18,333
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	0	0	0	0	4,350	4,502	4,659	4,822	18,333
Appropriations Total*	0	0	0	0	4,350	4,502	4,659	4,822	18,333
O & M Costs (Savings)			0	100	100	100	100	100	500

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SPU - Drainage & Wastewater

Densmore Basin - Linden Ave N/N 143 St. - Sewer Improvements

BCL/Program Name: Wastewater Conveyance

BCL/Program Code: C320B

Project Type: Improved Facility

Start Date: 1st Quarter 2008

Project ID: C308008

End Date: 4th Quarter 2014

Location: Linden Ave N/N 143 St.

Neighborhood Plan: Broadview-Bitter Lake-Haller Lake

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: Bitter Lake Village

This project improves sewer capacity serving the Linden area. Improvements may include upsizing of pipes as well as Low Impact Development (LID)-type strategies, such as downspout disconnects to reduce inflow and swales that improve the surface water system. Recently built housing has compromised capacity and service levels. This project was initially included in the 2008 Adopted Budget as a placeholder with \$0, but work started in 2008 as reflected in the spending plan.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	748	941	816	844	291	301	3,941
Project Total:	0	0	748	941	816	844	291	301	3,941
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	0	0	748	941	816	844	291	301	3,941
Appropriations Total*	0	0	748	941	816	844	291	301	3,941
O & M Costs (Savings)			0	0	0	0	0	39	39
Spending Plan		75	748	941	816	844	291	301	4,016

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SPU - Drainage & Wastewater

Densmore Basin Drainage Improvements

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: Improved Facility

Start Date: 1st Quarter 2009

Project ID: C3322

End Date: 4th Quarter 2011

Location:

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	850	2,570	135	0	0	0	3,555
Project Total:	0	0	850	2,570	135	0	0	0	3,555
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	0	0	850	2,570	135	0	0	0	3,555
Appropriations Total*	0	0	850	2,570	135	0	0	0	3,555
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Drainage Spot Improvements

BCL/Program Name: Landslide Mitigation & Special Programs **BCL/Program Code:** C335B
Project Type: Rehabilitation or Restoration **Start Date:** 2nd Quarter 1998
Project ID: C333201 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This ongoing project provides a number of spot improvements to drainage systems throughout Seattle. Typical improvements include, but are not limited to, installation of inlets and catch basins, construction of ditches and grassed swales, and installation of culverts. Spot improvements address small flooding problems across the city, increase the capacity of the drainage systems, and prevent other flooding.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	1,649	219	219	239	272	281	291	301	3,471
Project Total:	1,649	219	219	239	272	281	291	301	3,471
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	1,649	219	219	239	272	281	291	301	3,471
Appropriations Total*	1,649	219	219	239	272	281	291	301	3,471
O & M Costs (Savings)			2	3	3	4	5	7	24
Spending Plan		0	219	239	272	281	291	301	1,603

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SPU - Drainage & Wastewater

Emergency Storms - DWF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: Rehabilitation or Restoration	Start Date: 3rd Quarter 2007
Project ID: C4120-DWF	End Date: Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: 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.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	25	175	1,062	1,424	555	181	182	189	3,793
Project Total:	25	175	1,062	1,424	555	181	182	189	3,793
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	25	175	1,062	1,424	555	181	182	189	3,793
Appropriations Total*	25	175	1,062	1,424	555	181	182	189	3,793
O & M Costs (Savings)			19	19	20	20	21	21	121
Spending Plan		3,800	1,062	1,424	555	181	182	189	7,393

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SPU - Drainage & Wastewater

Fish Passage Program

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 1st Quarter 2005

Project ID: C353305

End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This ongoing project removes top-priority fish passage barriers in the city that meet requirements for the use of drainage funds. Typical improvements may include, but are not limited to, replacement of barrier culverts with weirs, gravel, ponds, or vegetation. The project addresses Endangered Species Act law to encourage and protect fish populations, and also supports the Mayor's Restore our Waters Strategy to improve Seattle's aquatic environments.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	140	1	165	464	217	225	233	241	1,687
Project Total:	140	1	165	464	217	225	233	241	1,687
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	140	1	165	464	217	225	233	241	1,687
Appropriations Total*	140	1	165	464	217	225	233	241	1,687
O & M Costs (Savings)			17	17	17	17	17	17	102
Spending Plan		0	165	464	217	225	233	241	1,546

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

SPU - Drainage & Wastewater

Fremont-Wallingford Combined Sewer Overflow

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: Improved Facility	Start Date: 3rd Quarter 2008
Project ID: C303102	End Date: 4th Quarter 2020

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project constructs combined sewer overflow (CSO) facilities in the Fremont/Wallingford area of Seattle. Facilities will be built to meet water quality standards for the Ship Canal 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. Spending in years 2009 and 2010 is related to project development and will be charged to O&M. Maintenance costs will not begin until after 2014 when construction is completed.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	0	348	0	0	1,063	1,822	1,032	6,073	10,338
Project Total:	0	348	0	0	1,063	1,822	1,032	6,073	10,338
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	0	348	0	0	1,063	1,822	1,032	6,073	10,338
Appropriations Total*	0	348	0	0	1,063	1,822	1,032	6,073	10,338
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		100	0	0	1,063	1,822	1,032	6,073	10,090

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

SPU - Drainage & Wastewater

Future Combined Sewer Overflow Reduction

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: New Investment	Start Date: 1st Quarter 2008
Project ID: C309002	End Date: Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This ongoing project provides future combined sewer overflow (CSO) reduction in one or more of the City's uncontrolled CSO basins where opportunity arises from some other project or effort in the area. Initial funding is intended for the acquisition of land at SW Delridge & Orchard Streets, where it is anticipated that the City may require land for construction to reduce CSO into Longfellow Creek. 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. This project was included in the 2008 Adopted Budget, but is now scheduled to start in 2010.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	0	1	0	525	1,199	3,811	6,730	12,056	24,323
Project Total:	0	1	0	525	1,199	3,811	6,730	12,056	24,323
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	0	1	0	525	1,199	3,811	6,730	12,056	24,323
Appropriations Total*	0	1	0	525	1,199	3,811	6,730	12,056	24,323
O & M Costs (Savings)			243	243	243	243	243	243	1,458
Spending Plan		0	0	525	1,199	3,811	6,730	12,056	24,322

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

SPU - Drainage & Wastewater

Georgetown Flume Drainage Improvements

BCL/Program Name: Stormwater & Flood Control
Project Type: Improved Facility
Project ID: C307019

BCL/Program Code: C332B
Start Date: 1st Quarter 2007
End Date: 4th Quarter 2010

Location: S Willow St/E Marginal Way S at Slip 4

Neighborhood Plan: Georgetown

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: Not in an Urban Village

This project designs and constructs a new drainage system to replace the existing Georgetown flume system. It is part of a joint project with City Light to implement a pollution source control remedy as part of Superfund cleanup in the Duwamish. The Georgetown flume currently functions as a storm drain, serving an approximate 10-acre basin at the north end of the King County Airport and discharges to the head of Slip 4. This area has been designated as an early action cleanup site as part of the Lower Duwamish Waterway Superfund project due to the presence of elevated levels of Polychlorinated Biphenyls (PCBs), phthalates (plasticizers), and other chemicals in the waterway sediment.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	220	1,023	730	15	0	0	0	0	1,988
Project Total:	220	1,023	730	15	0	0	0	0	1,988
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	220	1,023	730	15	0	0	0	0	1,988
Appropriations Total*	220	1,023	730	15	0	0	0	0	1,988
O & M Costs (Savings)			0	6	6	6	8	6	32
Spending Plan		1,405	730	15	0	0	0	0	2,150

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

SPU - Drainage & Wastewater

Heavy Equipment Purchases - DWF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: New Investment	Start Date: Ongoing
Project ID: C4116-DWF	End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: 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 project is one of four SPU fund-specific heavy equipment CIP projects. True new O&M costs/savings are generally associated with future equipment "adds" and "upsizing" costs, and are difficult to predict because they usually are the result of unanticipated new programs, new requirements, or increases in service levels. As a result, O&M costs/savings are not calculated.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	1,353	4,534	1,688	1,295	1,691	2,025	1,941	2,170	16,696
Project Total:	1,353	4,534	1,688	1,295	1,691	2,025	1,941	2,170	16,696
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	1,353	4,534	1,688	1,295	1,691	2,025	1,941	2,170	16,696
Appropriations Total*	1,353	4,534	1,688	1,295	1,691	2,025	1,941	2,170	16,696
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		3,973	1,688	1,295	1,691	2,025	1,941	2,170	14,782

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

SPU - Drainage & Wastewater

High Point Drainage System

BCL/Program Name: Low Impact Development

BCL/Program Code: C334B

Project Type: New Facility

Start Date: 4th Quarter 2001

Project ID: C301303

End Date: 4th Quarter 2011

Location: SW Juneau St/SW Myrtle St/High Point Dr SW/32nd Ave SW

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Delridge

Urban Village: Not in an Urban Village

This project provides 34 blocks of natural drainage system and distributed block-scale water quality treatment in Seattle Housing Authority's 120-acre High Point redevelopment. The project retrofits 9% of the Longfellow Creek Watershed to meet a flow control goal being proposed in the 2008 Stormwater Code. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

	LTD	2008	2009	2010	2011	2012	2013	2014	Total
	Actuals								
Revenue Sources									
Drainage and Wastewater Rates	3,617	721	185	99	109	0	0	0	4,731
Project Total:	3,617	721	185	99	109	0	0	0	4,731
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	3,617	721	185	99	109	0	0	0	4,731
Appropriations Total*	3,617	721	185	99	109	0	0	0	4,731
O & M Costs (Savings)			0	65	65	65	65	65	325
Spending Plan		465	185	99	109	0	0	0	857

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

SPU - Drainage & Wastewater

Inflow/Infiltration Control

BCL/Program Name: Wastewater Conveyance

BCL/Program Code: C320B

Project Type: Improved Facility

Start Date: 1st Quarter 2010

Project ID: C309003

End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an 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.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	0	1,265	3,262	3,377	3,494	3,617	15,015
Project Total:	0	0	0	1,265	3,262	3,377	3,494	3,617	15,015
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	0	0	0	1,265	3,262	3,377	3,494	3,617	15,015
Appropriations Total*	0	0	0	1,265	3,262	3,377	3,494	3,617	15,015
O & M Costs (Savings)			0	150	150	150	150	150	750

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

SPU - Drainage & Wastewater

Integrated Control Monitoring Program - DWF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: New Investment	Start Date: 1st Quarter 2002
Project ID: C4108-DWF	End Date: 4th Quarter 2014

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	2,400	3,775	4,078	4,086	3,382	3,154	3,734	3,835	28,443
Project Total:	2,400	3,775	4,078	4,086	3,382	3,154	3,734	3,835	28,443
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	2,400	3,775	4,078	4,086	3,382	3,154	3,734	3,835	28,443
Appropriations Total*	2,400	3,775	4,078	4,086	3,382	3,154	3,734	3,835	28,443
O & M Costs (Savings)			150	180	20	40	60	80	530
Spending Plan		1,802	4,078	4,086	3,382	3,154	3,734	3,835	24,070

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

SPU - Drainage & Wastewater

King Street Station Rehabilitation

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: Rehabilitation or Restoration	Start Date: 1st Quarter 2008
Project ID: C409017	End Date: 4th Quarter 2008

Location: 303 S Jackson St

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Downtown

Urban Village: Pioneer Square

This project funds opportunities to improve natural drainage systems during the Seattle Department of Transportation (SDOT) Bridging the Gap (BTG) renovation of the King Street Station, south of Downtown. The SDOT project rehabilitates the historically-designated King Street Station structure acquired from Burlington Northern Santa Fe Railway. SDOT BTG improvements are primarily to the building and SPU does not anticipate that there will be any impact to its infrastructure. No spending is anticipated in 2009, but this project will remain open as a placeholder for possible future spending. It is too early in the project to determine the impact on operation and maintenance costs or savings as a result of this project.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	0	308	0	0	0	0	0	0	308
Project Total:	0	308	0	0	0	0	0	0	308
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	0	308	0	0	0	0	0	0	308
Appropriations Total*	0	308	0	0	0	0	0	0	308
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0

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

SPU - Drainage & Wastewater

Lakewood Raincatcher Pilot Project

BCL/Program Name: Wastewater Conveyance

BCL/Program Code: C320B

Project Type: New Facility

Start Date: 1st Quarter 2005

Project ID: C305202

End Date: 4th Quarter 2012

Location: South Alaska - S. Findlay Streets/51-54 Avenues South

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Southeast

Urban Village: Not in an Urban Village

This project implementats stormwater cistern and rain garden demonstration project in the Lakewood Ave SE neighborhood. Implementation includes studying decentralized alternatives to manage the collection, conveyance, and disposal of stormwater in combined sewer and partially separated sewer basins, and conducting pre- and post-project monitoring, marketing, and modeling. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	561	783	705	121	43	18	0	0	2,232
Project Total:	561	783	705	121	43	18	0	0	2,232
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	561	783	705	121	43	18	0	0	2,232
Appropriations Total*	561	783	705	121	43	18	0	0	2,232
O & M Costs (Savings)			0	0	20	20	12	12	64
Spending Plan		300	705	121	43	18	0	0	1,188

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

SPU - Drainage & Wastewater

Localized Flood Control Program

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: 1st Quarter 2007

Project ID: C3312

End Date: Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This ongoing program provides Flood Control and Local Drainage and Wastewater projects in under-served or not served parts of Seattle. Projects are identified through claims, complaints, studies and the Spot Drainage Program. This program includes the 30th NE/NE 107th Drainage Improvements project. The Localized Flood Control Program improves Drainage and Wastewater levels of service.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	561	1,081	2,062	2,689	3,262	3,377	2,330	2,411	17,773
Project Total:	561	1,081	2,062	2,689	3,262	3,377	2,330	2,411	17,773
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	561	1,081	2,062	2,689	3,262	3,377	2,330	2,411	17,773
Appropriations Total*	561	1,081	2,062	2,689	3,262	3,377	2,330	2,411	17,773
O & M Costs (Savings)			187	187	187	187	187	187	1,122

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

SPU - Drainage & Wastewater

Long Term Control Plan

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: New Investment	Start Date: 3rd Quarter 2008
Project ID: C308039	End Date: 4th Quarter 2013

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This project plans reductions in combined sewer overflows (CSOs) in the City's remaining CSO basin areas. Planning work includes modeling, monitoring, alternatives identification, alternatives evaluation, and plan implementation. The resulting CSO Long Term Control Plan (LTCP) is a federal requirement that will identify CSO control projects to be constructed between 2013 and 2020.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	4,678	4,784	3,262	3,377	582	0	16,683
Project Total:	0	0	4,678	4,784	3,262	3,377	582	0	16,683
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	0	0	4,678	4,784	3,262	3,377	582	0	16,683
Appropriations Total*	0	0	4,678	4,784	3,262	3,377	582	0	16,683
O & M Costs (Savings)			0	0	0	0	0	167	167

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

SPU - Drainage & Wastewater

Madison Valley Long Term Solution

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: 1st Quarter 2007

Project ID: C307014

End Date: 4th Quarter 2013

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Central

Urban Village: Not in an Urban Village

This project provides stormwater flood control facilities to address flooding in the Madison Valley area. Work will include construction of large pipe and detention facilities in a park and nearby areas to enhance performance of the existing drainage systems and reduce damage related to stormwater flooding and sewage backups. This project will meet Mayor, Council and SPU leadership commitments to the community.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	3,146	3,725	7,234	16,077	9,352	113	58	0	39,705
Project Total:	3,146	3,725	7,234	16,077	9,352	113	58	0	39,705
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	3,146	3,725	7,234	16,077	9,352	113	58	0	39,705
Appropriations Total*	3,146	3,725	7,234	16,077	9,352	113	58	0	39,705
O & M Costs (Savings)			0	0	0	0	0	397	397
Spending Plan		1,850	7,234	16,077	9,352	113	58	0	34,684

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

SPU - Drainage & Wastewater

Meter Replacement - DWF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: Rehabilitation or Restoration	Start Date: 1st Quarter 2004
Project ID: C4101-DWF	End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: 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. There are no incremental operation and maintenance costs or savings directly related to this program.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	2,258	577	631	657	637	659	682	706	6,807
Project Total:	2,258	577	631	657	637	659	682	706	6,807
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	2,258	577	631	657	637	659	682	706	6,807
Appropriations Total*	2,258	577	631	657	637	659	682	706	6,807
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		402	631	657	637	659	682	706	4,374

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

SPU - Drainage & Wastewater

Minor Facility Upgrades - Rehabilitation

BCL/Program Name: Wastewater Conveyance **BCL/Program Code:** C320B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 1998
Project ID: C3AA402 **End Date:** Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This ongoing project provides replacement of assets including, but not limited to, vault tops and castings during construction of other City projects within Seattle. Specifically, in projects where street pavement is to be replaced, the opportunity exists to coordinate, cost share and minimize community impact when changing out worn, damaged or non-standard vault tops and castings or installing new maintenance holes for improved system maintenance access and extended asset life. Due to higher funding priorities, no expenditures are planned in 2013 at this time.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	380	90	5	5	114	124	0	133	850
Project Total:	380	90	5	5	114	124	0	133	850
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	380	90	5	5	114	124	0	133	850
Appropriations Total*	380	90	5	5	114	124	0	133	850
O & M Costs (Savings)			9	9	9	9	9	9	54
Spending Plan		0	5	5	114	124	0	133	380

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

SPU - Drainage & Wastewater

MLK Way/Norfolk Street Storm Improvement

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: Improved Facility

Start Date: 1st Quarter 2003

Project ID: C333205

End Date: 2nd Quarter 2014

Location: Norfolk Drainage Basin East Of I-5

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: Not in an Urban Village

This project replaces approximately 500 linear feet of collapsed drainage pipe located in south Seattle along Martin Luther King Way and adjacent streets. This project enhances the existing stormwater system in this area by reducing flooding problems, eliminating bypasses to the sanitary sewer system, providing a functioning conveyance system for future roadway and drainage improvements proposed by Sound Transit, and reducing overall long-term maintenance costs.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	1,863	3,059	469	53	54	11	6	6	5,522
Project Total:	1,863	3,059	469	53	54	11	6	6	5,522
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	1,863	3,059	469	53	54	11	6	6	5,522
Appropriations Total*	1,863	3,059	469	53	54	11	6	6	5,522
O & M Costs (Savings)			97	14	14	14	14	14	167
Spending Plan		2,346	469	53	54	11	6	6	2,945

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

SPU - Drainage & Wastewater

Natural Drainage System Improvements

BCL/Program Name: Low Impact Development	BCL/Program Code: C334B
Project Type: New Facility	Start Date: 1st Quarter 2005
Project ID: C333206	End Date: Ongoing

Location: Citywide

Neighborhood Plan: Broadview-Bitter Lake-Haller Lake **Neighborhood Plan Matrix:** N/A

Neighborhood District: In more than one District **Urban Village:** Not in an Urban Village

This ongoing project allows partnering on other agency or private projects to incorporate SPU's drainage and wastewater business area needs. Demand management strategies and Green Stormwater Infrastructure in the street right-of-way are the most likely types of partnering projects. Green Stormwater Infrastructure techniques to be utilized include bioretention swales, rain gardens, permeable pavement, compost amended lawns, and green roofs. SPU's current priority is to work in combined sewer basins toward the goal of Combined Sewer Overflow control. Projects will be prioritized based on the Drainage/Wastewater Infrastructure partnering protocol, coordination, reduced community impacts, increased City benefits, and cost savings.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	720	122	1,540	1,368	2,175	4,502	4,659	4,822	19,909
Project Total:	720	122	1,540	1,368	2,175	4,502	4,659	4,822	19,909
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	720	122	1,540	1,368	2,175	4,502	4,659	4,822	19,909
Appropriations Total*	720	122	1,540	1,368	2,175	4,502	4,659	4,822	19,909
O & M Costs (Savings)			0	15	30	40	50	50	185
Spending Plan		0	1,540	1,368	2,175	4,502	4,659	4,822	19,066

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

SPU - Drainage & Wastewater

No Dig Pipe & Maintenance Rehabilitation

BCL/Program Name: Wastewater Conveyance	BCL/Program Code: C320B
Project Type: Rehabilitation or Restoration	Start Date: 1st Quarter 1998
Project ID: C3AA403	End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

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.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	11,135	3,200	2,839	2,679	3,274	3,389	3,507	3,630	33,652
Project Total:	11,135	3,200	2,839	2,679	3,274	3,389	3,507	3,630	33,652
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	11,135	3,200	2,839	2,679	3,274	3,389	3,507	3,630	33,652
Appropriations Total*	11,135	3,200	2,839	2,679	3,274	3,389	3,507	3,630	33,652
O & M Costs (Savings)			336	336	336	336	336	336	2,016
Spending Plan		1,300	2,839	2,679	3,274	3,389	3,507	3,630	20,618

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

SPU - Drainage & Wastewater

Operational Facility - Construction - DWF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: Improved Facility	Start Date: 1st Quarter 2004
Project ID: C4106-DWF	End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This ongoing program rehabilitates, renovates, replaces, and constructs facility improvements as needed at SPU's drainage and wastewater facilities. 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. In 2009, this program includes funding to purchase property at SPU's North Operations Center.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	4,064	867	1,109	328	444	1,792	1,854	2,112	12,570
Project Total:	4,064	867	1,109	328	444	1,792	1,854	2,112	12,570
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	4,064	867	1,109	328	444	1,792	1,854	2,112	12,570
Appropriations Total*	4,064	867	1,109	328	444	1,792	1,854	2,112	12,570
O & M Costs (Savings)			48	48	48	48	48	48	288

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

SPU - Drainage & Wastewater

Operational Facility - Other - DWF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2006
Project ID: C4115-DWF **End Date:** Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This ongoing program funds renovation, replacement, and improvements to SPU's drainage and wastewater-related operating yards throughout the city. Typical improvements include, but are not limited to, drainage systems, prefabricated buildings, storage buildings, and fencing. Specific projects have been identified through 2010. As future projects are identified, necessary funding will be required.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	83	418	452	128	0	0	0	0	1,081
Project Total:	83	418	452	128	0	0	0	0	1,081
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	83	418	452	128	0	0	0	0	1,081
Appropriations Total*	83	418	452	128	0	0	0	0	1,081
O & M Costs (Savings)					8	8	8	8	32
Spending Plan		132	452	128	0	0	0	0	711

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

SPU - Drainage & Wastewater

Operations Control Center - DWF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: Improved Facility	Start Date: 1st Quarter 2003
Project ID: C4105-DWF	End Date: Ongoing

Location: 2700 Airport Way S

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: Duwamish

This ongoing program funds the Drainage and Wastewater Fund's portion of costs for rehabilitation, replacement and construction of new improvements at the combined use Operations Control Center complex. Typical improvements include, but are not limited to, roof and other exterior replacements, improvements to public spaces, office and crew spaces and lighting, 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. Specific projects have been identified through 2012. As future projects are identified, necessary funding will be required.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	0	85	81	217	345	284	0	0	1,011
Project Total:	0	85	81	217	345	284	0	0	1,011
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	0	85	81	217	345	284	0	0	1,011
Appropriations Total*	0	85	81	217	345	284	0	0	1,011
O & M Costs (Savings)			0	0	14	14	14	14	56
Spending Plan		132	81	217	345	284	0	0	1,059

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

SPU - Drainage & Wastewater

Other Major Transportation Projects - DWF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: Rehabilitation or Restoration	Start Date: 2nd Quarter 2008
Project ID: C4123-DWF	End Date: Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: 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, Interstate 90, and work related to new street car lines.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	0	278	150	275	300	350	500	500	2,353
Project Total:	0	278	150	275	300	350	500	500	2,353
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	0	278	150	275	300	350	500	500	2,353
Appropriations Total*	0	278	150	275	300	350	500	500	2,353
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		0	150	275	300	350	500	500	2,075

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

SPU - Drainage & Wastewater

Point Sewer Pipe Rehabilitation - Contract

BCL/Program Name: Wastewater Conveyance	BCL/Program Code: C320B
Project Type: Rehabilitation or Restoration	Start Date: 1st Quarter 2003
Project ID: C303401	End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: 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 nonfunctioning sections of pipe are assessed and prioritized for rehabilitation through one or two public works contracts. Sewer trouble spots and voids are addressed while increasing the sewer main asset life and function.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	3,043	1,218	171	187	1,196	1,238	1,165	1,326	9,545
Project Total:	3,043	1,218	171	187	1,196	1,238	1,165	1,326	9,545
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	3,043	1,218	171	187	1,196	1,238	1,165	1,326	9,545
Appropriations Total*	3,043	1,218	171	187	1,196	1,238	1,165	1,326	9,545
O & M Costs (Savings)			95	95	95	95	95	95	570
Spending Plan		1,194	171	187	1,196	1,238	1,165	1,326	6,477

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

SPU - Drainage & Wastewater

Point Sewer Pipe Rehabilitation - Crews

BCL/Program Name: Wastewater Conveyance **BCL/Program Code:** C320B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2003
Project ID: C303402 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This ongoing project provides point sewer rehabilitation of sewer mains that are less than seventeen feet deep in non-arterial Seattle roadways. Failed or nonfunctioning 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.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	14,429	2,830	2,225	2,265	3,643	3,827	4,019	4,220	37,456
Project Total:	14,429	2,830	2,225	2,265	3,643	3,827	4,019	4,220	37,456
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	14,429	2,830	2,225	2,265	3,643	3,827	4,019	4,220	37,456
Appropriations Total*	14,429	2,830	2,225	2,265	3,643	3,827	4,019	4,220	37,456
O & M Costs (Savings)			375	375	375	375	375	375	2,250
Spending Plan		2,150	2,225	2,265	3,643	3,827	4,019	4,220	22,348

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

SPU - Drainage & Wastewater

Pump Station and Force Main Improvements

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: Improved Facility	Start Date: 1st Quarter 2008
Project ID: C3102	End Date: Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	2,519	1,352	1,657	1,716	2,039	2,160	2,288	2,411	16,141
Project Total:	2,519	1,352	1,657	1,716	2,039	2,160	2,288	2,411	16,141
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	2,519	1,352	1,657	1,716	2,039	2,160	2,288	2,411	16,141
Appropriations Total*	2,519	1,352	1,657	1,716	2,039	2,160	2,288	2,411	16,141
O & M Costs (Savings)			161	161	161	161	161	161	966
Spending Plan		1,115	1,657	1,716	2,039	2,160	2,288	2,411	13,385

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

SPU - Drainage & Wastewater

S Genesee Combined Sewer Overflow

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: New Facility	Start Date: 1st Quarter 2005
Project ID: C303103	End Date: 4th Quarter 2018

Location: S Genesee St.

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Southeast

Urban Village: Not in an Urban Village

This project provides construction of combined sewer overflows (CSO) facilities in the S. Genesee area in the southeast part of Seattle. Facilities will be built to meet Lake Washington water quality standards 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. Maintenance costs will not begin until after 2014, when the project completes construction.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	931	1,349	1,296	1,786	2,937	11,179	6,308	173	25,959
Project Total:	931	1,349	1,296	1,786	2,937	11,179	6,308	173	25,959
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	931	1,349	1,296	1,786	2,937	11,179	6,308	173	25,959
Appropriations Total*	931	1,349	1,296	1,786	2,937	11,179	6,308	173	25,959
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		1,349	1,296	1,786	2,937	11,179	6,308	173	25,028

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

SPU - Drainage & Wastewater

S Henderson Combined Sewer Overflow Storage

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: New Facility	Start Date: 1st Quarter 2005
Project ID: C304102	End Date: 4th Quarter 2018

Location: S Henderson St.

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Southeast

Urban Village: Not in an Urban Village

This project constructs combined sewer overflows (CSO) facilities in the S Henderson/Rainier Ave S area in the southeast part of Seattle. Facilities will be built to meet Lake Washington water quality standards 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. Maintenance costs will not begin until after 2014, when construction is completed.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	1,274	1,283	1,368	2,737	5,202	13,519	12,352	12,785	50,520
Project Total:	1,274	1,283	1,368	2,737	5,202	13,519	12,352	12,785	50,520
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	1,274	1,283	1,368	2,737	5,202	13,519	12,352	12,785	50,520
Appropriations Total*	1,274	1,283	1,368	2,737	5,202	13,519	12,352	12,785	50,520
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		1,349	1,368	2,737	5,202	13,519	12,352	12,785	49,312

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SPU - Drainage & Wastewater

Salmon Bay Natural Area Restoration

BCL/Program Name: Landslide Mitigation & Special Programs **BCL/Program Code:** C335B
Project Type: Improved Facility **Start Date:** 1st Quarter 2007
Project ID: C333307 **End Date:** 4th Quarter 2010

Location: Salmon Bay

Neighborhood Plan: Crown Hill/Ballard

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: Not in an Urban Village

This project provides improvements in the only remaining wooded shoreline in Ballard at the 34th Ave street end. Improvements include land acquisition for juvenile salmon, property clearing for public access, pedestrian paths, and a public viewing area with interpretive signage. This project highlights the importance of the area for salmon use, the historical alterations of the estuary, and present and historic Native American use of the area.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	742	1	551	1	0	0	0	0	1,295
Project Total:	742	1	551	1	0	0	0	0	1,295
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	742	1	551	1	0	0	0	0	1,295
Appropriations Total*	742	1	551	1	0	0	0	0	1,295
O & M Costs (Savings)			0	13	13	13	13	13	65
Spending Plan		236	551	1	0	0	0	0	788

Sanitary Sewer Overflow Capacity

BCL/Program Name: Wastewater Conveyance **BCL/Program Code:** C320B
Project Type: New Investment **Start Date:** 1st Quarter 2002
Project ID: C302205 **End Date:** Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an 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.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	924	1,071	1,978	2,136	3,262	5,628	5,824	6,028	26,852
Project Total:	924	1,071	1,978	2,136	3,262	5,628	5,824	6,028	26,852
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	924	1,071	1,978	2,136	3,262	5,628	5,824	6,028	26,852
Appropriations Total*	924	1,071	1,978	2,136	3,262	5,628	5,824	6,028	26,852
O & M Costs (Savings)			269	269	269	269	269	269	1,614
Spending Plan		100	1,978	2,136	3,262	5,628	5,824	6,028	24,956

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

SPU - Drainage & Wastewater

Seattle Housing Authority Integrated Drainage Plan

BCL/Program Name: Protection of Beneficial Uses	BCL/Program Code: C333B
Project Type: New Investment	Start Date: 1st Quarter 2006
Project ID: C363301	End Date: 4th Quarter 2010

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project provides funding to construct water quality assets to mitigate Seattle Housing Authority (SHA) projects in the Lake Washington drainage basin. The funding will be applied to projects within the Best Management Practice Program, including the Norfolk Water Quality and South Park Water Quality projects. Assets will include stormwater treatment facilities and swales. This project will benefit water quality in receiving water bodies.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	157	337	669	294	0	0	0	0	1,457
Project Total:	157	337	669	294	0	0	0	0	1,457
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	157	337	669	294	0	0	0	0	1,457
Appropriations Total*	157	337	669	294	0	0	0	0	1,457
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		10	669	294	0	0	0	0	973

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SPU - Drainage & Wastewater

Security Improvements - DWF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: Improved Facility	Start Date: 1st Quarter 2007
Project ID: C4113-DWF	End Date: 4th Quarter 2014

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	292	518	29	511	560	383	250	166	2,709
Project Total:	292	518	29	511	560	383	250	166	2,709
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	292	518	29	511	560	383	250	166	2,709
Appropriations Total*	292	518	29	511	560	383	250	166	2,709
O & M Costs (Savings)			1	5	10	14	19	2	51
Spending Plan		100	29	511	560	383	250	166	2,000

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

SPU - Drainage & Wastewater

Sediment Remediation - DWF

BCL/Program Name: Sediments **BCL/Program Code:** C350B
Project Type: Rehabilitation or Restoration **Start Date:** 4th Quarter 2000
Project ID: C3503 **End Date:** Ongoing

Location:

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: In more than one District **Urban Village:** 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	11,477	4,836	2,343	5,409	8,239	6,038	3,103	91	41,536
Project Total:	11,477	4,836	2,343	5,409	8,239	6,038	3,103	91	41,536
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	11,477	4,836	2,343	5,409	8,239	6,038	3,103	91	41,536
Appropriations Total*	11,477	4,836	2,343	5,409	8,239	6,038	3,103	91	41,536
O & M Costs (Savings)			416	416	416	416	416	416	2,496
Spending Plan		4,830	2,343	5,409	8,239	6,038	3,103	91	30,053

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

SPU - Drainage & Wastewater

Sewage System Model

BCL/Program Name: Wastewater Conveyance

BCL/Program Code: C320B

Project Type: New Investment

Start Date: 2nd Quarter 2008

Project ID: C308005

End Date: 4th Quarter 2012

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project provides a system-wide model of Seattle's sewage system, including the King County trunk conveyance system, within the city limits. The model will integrate with ongoing basin-specific combined sewer overflow (CSO) models and Long Term Control Plan (LTCP) efforts in order to obtain information on wastewater levels, flows and volumes in the system, overflows and backups, and downstream constraints in the County system. A full understanding of the hydraulic performance of the City conveyance system and the relationship to various storm flow-influenced factors will provide the factual basis for capital, operational and maintenance decisions and expenditures.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	0	1,275	1,009	669	384	332	0	0	3,670
Project Total:	0	1,275	1,009	669	384	332	0	0	3,670
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	0	1,275	1,009	669	384	332	0	0	3,670
Appropriations Total*	0	1,275	1,009	669	384	332	0	0	3,670
O & M Costs (Savings)			0	0	0	0	37	37	74
Spending Plan		1,275	1,009	669	384	332	0	0	3,670

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

SPU - Drainage & Wastewater

Sewer Emergency Rehabilitation

BCL/Program Name: Wastewater Conveyance	BCL/Program Code: C320B
Project Type: Rehabilitation or Restoration	Start Date: 1st Quarter 1998
Project ID: C3AA404	End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

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. Typical improvements may include, but are not limited to, rehabilitation or replacement of structurally damaged pipes in the wastewater collection system 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. Due to higher funding priorities, no expenditures are planned in 2013 at this time.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	4,393	641	645	685	761	788	0	905	8,818
Project Total:	4,393	641	645	685	761	788	0	905	8,818
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	4,393	641	645	685	761	788	0	905	8,818
Appropriations Total*	4,393	641	645	685	761	788	0	905	8,818
O & M Costs (Savings)			88	88	88	88	88	88	528
Spending Plan		640	645	685	761	788	0	905	4,425

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

SPU - Drainage & Wastewater

Sewer Full Line Replacements

BCL/Program Name: Wastewater Conveyance **BCL/Program Code:** C320B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2001
Project ID: C3202 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	181	357	392	413	428	450	466	482	3,169
Project Total:	181	357	392	413	428	450	466	482	3,169
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	181	357	392	413	428	450	466	482	3,169
Appropriations Total*	181	357	392	413	428	450	466	482	3,169
O & M Costs (Savings)			32	32	32	32	32	32	192
Spending Plan		0	392	413	428	450	466	482	2,632

Small Landslide Projects

BCL/Program Name: Landslide Mitigation & Special Programs **BCL/Program Code:** C335B
Project Type: Improved Facility **Start Date:** 1st Quarter 2004
Project ID: C3325 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This ongoing program provides spot improvements in landslide-prone areas throughout Seattle. Typical improvements may include, but are not limited to, installing berms, swales, catch basins, storm drains, subsurface drains, and small slope stability improvement projects. This program reduces the contribution of stormwater to landslides.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	1,556	504	442	410	560	580	600	621	5,272
Project Total:	1,556	504	442	410	560	580	600	621	5,272
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	1,556	504	442	410	560	580	600	621	5,272
Appropriations Total*	1,556	504	442	410	560	580	600	621	5,272
O & M Costs (Savings)			2	3	3	4	5	7	24
Spending Plan		819	442	410	560	580	600	621	4,032

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

SPU - Drainage & Wastewater

Small Sewer Improvements

BCL/Program Name: Wastewater Conveyance **BCL/Program Code:** C320B
Project Type: Improved Facility **Start Date:** 1st Quarter 2003
Project ID: C303299 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This ongoing project provides small sewer capacity improvements during construction of other City projects within Seattle. Specifically, where street pavement is to be replaced, there is the opportunity to coordinate, share costs, and minimize community impact when rerouting a sewer line or relocating a maintenance hole.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	302	179	145	148	326	338	349	362	2,149
Project Total:	302	179	145	148	326	338	349	362	2,149
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	302	179	145	148	326	338	349	362	2,149
Appropriations Total*	302	179	145	148	326	338	349	362	2,149
O & M Costs (Savings)			21	21	21	21	21	21	126
Spending Plan		0	145	148	326	338	349	362	1,668

Sound Transit - East & North Links - DWF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2009
Project ID: C4122-DWF **End Date:** 4th Quarter 2015

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project funds environmental review of impacts to SPU infrastructure in anticipation of relocation, replacement, and protection of drainage and wastewater infrastructure affected by the development of Sound Transit's Link Light Rail System for the East & North Links.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	25	25	25	25	25	25	150
Project Total:	0	0	25	25	25	25	25	25	150
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	0	0	25	25	25	25	25	25	150
Appropriations Total*	0	0	25	25	25	25	25	25	150
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0

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

SPU - Drainage & Wastewater

Sound Transit – University Link - DWF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: New Facility **Start Date:** 1st Quarter 2007
Project ID: C4110-DWF **End Date:** 4th Quarter 2013

Location: Various

Neighborhood Plan: In more than one Plan

Neighborhood Plan Matrix: Multiple

Neighborhood District: In more than one District

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	26	237	273	296	65	67	31	0	994
Project Total:	26	237	273	296	65	67	31	0	994
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	26	237	273	296	65	67	31	0	994
Appropriations Total*	26	237	273	296	65	67	31	0	994
O & M Costs (Savings)			0	0	0	0	14	14	28
Spending Plan		102	273	296	65	67	31	0	833

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

SPU - Drainage & Wastewater

Sound Transit Central Link - DWF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: New Facility **Start Date:** 1st Quarter 2003
Project ID: C4104-DWF **End Date:** 4th Quarter 2010

Location: Various

Neighborhood Plan: In more than one Plan

Neighborhood Plan Matrix: Multiple

Neighborhood District: In more than one District

Urban Village: 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 an electrical light rail transit system that includes more than fourteen miles of alignment from the Convention Place Station to South 154th Street near Seattle/Tacoma International Airport.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	2,533	323	46	19	0	0	0	0	2,922
Project Total:	2,533	323	46	19	0	0	0	0	2,922
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	2,533	323	46	19	0	0	0	0	2,922
Appropriations Total*	2,533	323	46	19	0	0	0	0	2,922
O & M Costs (Savings)			0	0	14	14	14	14	56
Spending Plan		376	46	19	0	0	0	0	441

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

SPU - Drainage & Wastewater

Sound Transit Integrated Drainage Plan

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: New Facility	Start Date: 1st Quarter 2005
Project ID: C405001	End Date: 4th Quarter 2009

Location: South East Neighborhood District

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Southeast

Urban Village: In more than one Urban Village

This project funds the development of infrastructure to treat increased stormwater runoff related to the development of Sound Transit's Light Rail System. This project will fund the first phases of construction of two existing projects: the Norfolk/MLK Water Quality project and that portion of the Fourth and Trenton construction project that is for the pump station required to build the South Park water quality facility. This project will add the capacity to treat additional volumes of stormwater per year.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	192	360	2,147	0	0	0	0	0	2,699
Project Total:	192	360	2,147	0	0	0	0	0	2,699
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	192	360	2,147	0	0	0	0	0	2,699
Appropriations Total*	192	360	2,147	0	0	0	0	0	2,699
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	2,147	0	0	0	0	0	2,147

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

SPU - Drainage & Wastewater

South Lake Union - DWF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: Improved Facility	Start Date: 1st Quarter 2007
Project ID: C4114-DWF	End Date: 4th Quarter 2012

Location: South Lake Union

Neighborhood Plan: South Lake Union

Neighborhood Plan Matrix: N/A

Neighborhood District: Lake Union

Urban Village: 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.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	763	144	1,614	2,192	163	84	0	0	4,960
Project Total:	763	144	1,614	2,192	163	84	0	0	4,960
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	763	144	1,614	2,192	163	84	0	0	4,960
Appropriations Total*	763	144	1,614	2,192	163	84	0	0	4,960
O & M Costs (Savings)			0	0	0	0	14	14	28
Spending Plan		1,384	1,614	2,192	163	84	0	0	5,437

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

SPU - Drainage & Wastewater

South Park Pump Station

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: 3rd Quarter 2008

Project ID: C308011

End Date: 2nd Quarter 2011

Location: S Riverside Dr/7th Ave S

Neighborhood Plan: South Park

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: Duwamish

This project provides for the construction of a pump station and water quality facility in the South Park Basin. 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 will allow the collection system to be expanded to address many of the flooding problems in the South Park Basin in the future. The site is adjacent to an existing storm drain outfall into the Duwamish, and water quality enhancements may include, but are not limited to, the pick-up and replacement of sediment-trapping canisters.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	5,487	5,349	78	0	0	0	10,914
Project Total:	0	0	5,487	5,349	78	0	0	0	10,914
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	0	0	5,487	5,349	78	0	0	0	10,914
Appropriations Total*	0	0	5,487	5,349	78	0	0	0	10,914
O & M Costs (Savings)			0	0	0	13	13	13	39
Spending Plan		0	2,663	2,576	78	0	0	0	5,317

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SPU - Drainage & Wastewater

Spokane Street Viaduct

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2007
Project ID: C409021 **End Date:** 4th Quarter 2011

Location: Spokane St Viaduct

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: West Seattle Junction

This project protects drainage and wastewater infrastructure affected by SDOT's work to widen and improve the Spokane Street Viaduct, south of downtown. SPU must relocate approximately 600 linear feet of 30" watermain between the Burlington Northern Santa Fe Railroad tracks and 4th Ave S to make way for the new 4th Avenue S off ramp; the project may also require relocation of drainage and wastewater assets. SPU is expected to complete the relocation project in time to allow the SDOT project to be built on schedule. The project is part of Bridging the Gap and needs to be completed prior to demolition of the Alaskan Way Viaduct.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	95	600	52	11	5	0	0	0	762
Project Total:	95	600	52	11	5	0	0	0	762
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	95	600	52	11	5	0	0	0	762
Appropriations Total*	95	600	52	11	5	0	0	0	762
O & M Costs (Savings)			50	50	50	50	50	50	300

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SPU - Drainage & Wastewater

SR 519 Interchange

BCL/Program Name: Shared Cost Projects
Project Type: Rehabilitation or Restoration
Project ID: C409016

BCL/Program Code: C410B
Start Date: 1st Quarter 2008
End Date: 4th Quarter 2011

Location: S Royal Brougham Wy & 1st Ave S

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: In more than one Urban Village

This project protects and/or replaces drainage and wastewater infrastructure affected by Washington State Department of Transportation's (WSDOT's) work to improve the State Route 519 Interchange, south of downtown. This design/build project needs to be completed prior to demolition of the Alaskan Way Viaduct. It is too early in the project to determine the impact on operation and maintenance costs or savings as a result of this project.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	0	206	207	286	100	0	0	0	799
Project Total:	0	206	207	286	100	0	0	0	799
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	0	206	207	286	100	0	0	0	799
Appropriations Total*	0	206	207	286	100	0	0	0	799
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		0	207	286	100	0	0	0	593

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SPU - Drainage & Wastewater

SW Prescott/Admiral Landslide

BCL/Program Name: Landslide Mitigation & Special Programs

BCL/Program Code: C335B

Project Type: New Facility

Start Date: 3rd Quarter 2002

Project ID: C302353

End Date: 4th Quarter 2012

Location: SW Admiral Wy./SW Spokane Wy.

Neighborhood Plan: Admiral

Neighborhood Plan Matrix: N/A

Neighborhood District: Southwest

Urban Village: Not in an Urban Village

This project provides funding to investigate and develop a long-range plan to address flooding and slope instability problems in the SW Prescott Place/Admiral Way Landslide Mitigation Study area. Activities include researching historical information, drilling soil samples, performing slope stability analyses, and identifying and implementing solutions to problem areas. This project reduces the risk of landslides impacting city facilities. Spending in years 2009 and 2010 is related to project development and will be charged to O&M.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	641	1	0	0	185	11	0	0	838
Project Total:	641	1	0	0	185	11	0	0	838
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	641	1	0	0	185	11	0	0	838
Appropriations Total*	641	1	0	0	185	11	0	0	838
O & M Costs (Savings)			0	0	0	0	2	2	4
Spending Plan		1	0	0	185	11	0	0	197

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SPU - Drainage & Wastewater

Taylor Creek Culvert Replacement

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 1st Quarter 1999

Project ID: C399315

End Date: 1st Quarter 2014

Location: Taylor Creek at Rainier Ave S

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Southeast

Urban Village: 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.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	766	601	106	508	1,087	113	116	121	3,418
Project Total:	766	601	106	508	1,087	113	116	121	3,418
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	766	601	106	508	1,087	113	116	121	3,418
Appropriations Total*	766	601	106	508	1,087	113	116	121	3,418
O & M Costs (Savings)			0	0	0	0	0	34	34
Spending Plan		100	106	508	1,087	113	116	121	2,151

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SPU - Drainage & Wastewater

Taylor Creek Fish Habitat Improvements

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 1st Quarter 2011

Project ID: C308003

End Date: 4th Quarter 2012

Location: Taylor Creek

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: Not in an Urban Village

This project provides funding for instream and riparian restoration in upper Taylor Creek. The objective of this project is to enhance instream sediment capture within the stream-riparian corridor by using natural features and engineered structures. High stormwater flows and a heavy sediment load are causing damage to Taylor Creek corridor habitat, drainage infrastructure, and downstream property. This project was initially included in the 2008 Adopted Budget, but is now not scheduled to start until 2011.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	0	1	0	0	272	281	0	0	554
Project Total:	0	1	0	0	272	281	0	0	554
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	0	1	0	0	272	281	0	0	554
Appropriations Total*	0	1	0	0	272	281	0	0	554
O & M Costs (Savings)			0	0	0	0	5	5	10
Spending Plan		0	0	0	272	281	0	0	553

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

SPU - Drainage & Wastewater

Thornton Creek Water Quality Channel Project

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 4th Quarter 2004

Project ID: C343306

End Date: 4th Quarter 2011

Location: 330 NE 100th Street

Neighborhood Plan: Northgate

Neighborhood Plan Matrix: N/A

Neighborhood District: North

Urban Village: 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. The balance of the total project budget is to be carried forward each year until it is spent. No carry forward is anticipated from 2008 to 2009.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	4,144	9,847	774	148	22	0	0	0	14,935
Project Total:	4,144	9,847	774	148	22	0	0	0	14,935
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	4,144	9,847	774	148	22	0	0	0	14,935
Appropriations Total*	4,144	9,847	774	148	22	0	0	0	14,935
O & M Costs (Savings)			0	71	71	71	71	71	355
Spending Plan		9,847	774	148	22	0	0	0	10,790

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

SPU - Drainage & Wastewater

Utility Relocation due to Alaskan Way Viaduct and Seawall Replacement – DWF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: New Facility	Start Date: 1st Quarter 2004
Project ID: C4102-DWF	End Date: 4th Quarter 2017

Location: SR 99 / Battery St

Neighborhood Plan: In more than one Plan

Neighborhood Plan Matrix: Multiple

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program funds the relocation, replacement, and protection of the drainage and wastewater infrastructure affected by the replacement of the Alaskan Way Viaduct and Seawall. The Alaskan Way Viaduct carries 25 percent of the north-south traffic through downtown Seattle and is a major truck route. The Seawall supports the soils under Alaskan Way and the Viaduct. Both these facilities were damaged in the 2001 Nisqually Earthquake. SPU has substantial drainage and wastewater infrastructure along the approximately four-mile project corridor which must be relocated one or more times during the project. This program designs and constructs these relocations according to the transportation project scope and schedule. The WSDOT is the lead for the project. It is too early in the project to determine the impact on Operation and Maintenance costs or savings as a result of this project.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	1,322	2,310	4,070	5,270	8,722	8,922	5,483	15,948	52,047
Project Total:	1,322	2,310	4,070	5,270	8,722	8,922	5,483	15,948	52,047
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	1,322	2,310	4,070	5,270	8,722	8,922	5,483	15,948	52,047
Appropriations Total*	1,322	2,310	4,070	5,270	8,722	8,922	5,483	15,948	52,047
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		1,800	4,070	5,270	8,722	8,922	5,483	15,948	50,215

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

SPU - Drainage & Wastewater

Venema Creek Natural Drainage System

BCL/Program Name: Low Impact Development

BCL/Program Code: C334B

Project Type: New Facility

Start Date: 1st Quarter 2003

Project ID: C302317

End Date: 4th Quarter 2014

Location: Venema Creek Drainage Basin

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: 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. 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.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	959	151	417	1,868	3,018	146	151	134	6,844
Project Total:	959	151	417	1,868	3,018	146	151	134	6,844
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	959	151	417	1,868	3,018	146	151	134	6,844
Appropriations Total*	959	151	417	1,868	3,018	146	151	134	6,844
O & M Costs (Savings)			0	0	0	200	150	100	450
Spending Plan		0	417	1,868	3,018	146	151	134	5,734

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

SPU - Drainage & Wastewater

Windermere Combined Sewer Overflow Storage

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: New Facility	Start Date: 2nd Quarter 2005
Project ID: C302103	End Date: 4th Quarter 2016

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Northeast

Urban Village: 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. Maintenance costs will not begin until after 2014, when construction is completed.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	2,251	2,260	1,445	976	1,087	1,126	1,165	1,206	11,516
Project Total:	2,251	2,260	1,445	976	1,087	1,126	1,165	1,206	11,516
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	2,251	2,260	1,445	976	1,087	1,126	1,165	1,206	11,516
Appropriations Total*	2,251	2,260	1,445	976	1,087	1,126	1,165	1,206	11,516
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		1,500	1,445	976	1,087	1,126	1,165	1,206	8,505

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

SPU - Drainage & Wastewater

Works Progress Administration Drains Study & Repair

BCL/Program Name: Landslide Mitigation & Special Programs **BCL/Program Code:** C335B
Project Type: Rehabilitation or Restoration **Start Date:** 3rd Quarter 2000
Project ID: C3315 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This ongoing program prioritizes and evaluates the function and need to replace components of the drainage system installed by the Works Progress Administration (WPA) in Seattle. The subsurface landslide control drains and tunnels, installed as a result of extensive landslide damage during the winter of 1933-1934, are approaching the end of their useful life. Spending in years 2009 and 2010 is related to project development and will be charged to O&M.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	738	257	0	0	544	563	582	603	3,287
Project Total:	738	257	0	0	544	563	582	603	3,287
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	738	257	0	0	544	563	582	603	3,287
Appropriations Total*	738	257	0	0	544	563	582	603	3,287
O & M Costs (Savings)			0	0	0	2	3	3	8
Spending Plan		200	0	0	544	563	582	603	2,492

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

**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

Facilities Master Plan Implementation: The Solid Waste Facilities Master Plan is a 30-year plan that guides the construction of facilities that provide the citizens of Seattle with sufficient recycling and solid waste services. In 2008, this project was broken down into two separate projects: the South Transfer Station Rebuild and North Transfer Station Rebuild. Investments in these facilities will modernize solid waste operations, enhance worker safety, and allow for greater recycling opportunities as Seattle pursues aggressive new waste reduction strategies to minimize waste the City collects and disposes. Costs for both rebuilds include State Environmental Policy Act (SEPA) evaluations, permitting, property acquisition, design, construction, and purchase of facility equipment. The 2009 Adopted Budget includes funding significant portions of the South Transfer Station rebuild.

Project Selection Process

SPU has adopted an Asset Management approach for selecting which projects to build. This is a triple bottom line approach in which projects are evaluated on their economic, social, and environmental costs and benefits, as well as the ability to meet customer service levels. The approach provides an elaborate analytical and modeling framework to find the most economic balance between capital investments and operation and maintenance expenditures so as to minimize life-cycle costs of any facility.

The Asset Management Committee, a committee of senior SPU executives, reviews each project valued at \$250,000 or more and assures that only projects that meet the benefit criteria move forward. Several projects have been dropped, as their costs were higher than their benefits. Several cost-effective master planning efforts

Seattle Public Utilities – Solid Waste

have been approved to create up-to-date improvement and upgrade plans for various groups of assets. Other projects have been expanded or expedited because the benefits exceed the costs.

Program Category Summaries

The Solid Waste Adopted CIP is approximately \$27.0 million in 2009 and \$57.1 million in 2010 (including Technology projects funded by the Solid Waste Fund, displayed in a separate section of this CIP). In the New Facilities Budget Control Level (BCL), the 2009 budget for the South and North Transfer Station Rebuild is \$28.4 million higher through 2014 than the amount shown in the 2008-2013 Adopted CIP. This increase is the result of updated cost estimates, fully reflecting the impact of inflationary construction cost increases. In the Rehabilitation and Heavy Equipment BCL, the most significant increase relative to the prior CIP is the purchase of the yard waste and disposal carts which is part of the agreement in the new collection contracts.

The increase in the Technology BCL is partly due to the increase in support needed for the new Solid Waste contracts and services. The Customer Relationship Management Program budget increases in 2009 for the new Transfer Station Billing System. The Commercial Solid Waste data system is in the process of being replaced and modified given the data needs with the new collection contracts. The Solid Waste Fund's share of cross functional applications includes the new fixed assets and financial reporting systems.

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 2009-2010, SPU continues the implementation of its Solid Waste Facilities Master Plan, which features a two-station configuration.

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 2009-2010 the funding from the Solid Waste Fund includes money for the Operations Control Center Upgrade, Security Improvements, and Heavy Equipment Purchases.

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 2009. 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

BCL/Program Name & Project	Project ID	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
New Facilities							BCL/Program Code:			C230B
Miscellaneous Station Improvements	C203005	1,215	116	194	315	326	0	0	0	2,166
Solid Waste Facility Master Plan -- North Transfer Station Rebuild	C207005	370	1,055	1,200	1,100	2,900	35,300	23,500	1,400	66,825
Solid Waste Facility Master Plan -- South Transfer Station Rebuild	C207006	585	15,700	8,300	41,300	13,600	2,600	10,800	14,000	106,885
South Park Development	C206402	177	376	2,426	5,218	2,936	828	0	0	11,962
South Recycling Disposal Station Household Hazardous Waste Relocation	C207002	0	286	0	0	0	2,082	0	0	2,368
New Facilities Total		2,347	17,533	12,120	47,933	19,762	40,811	34,300	15,400	190,206
Rehabilitation and Heavy Equipment							BCL/Program Code:			C240B
Kent Highlands Agency Negotiations	C205406	229	58	21	53	54	28	29	30	502
Kent Highlands Flare Improvement	C205404	85	103	196	0	0	0	0	0	384
Kent Highlands N Pond Diversion	C205405	3	54	50	0	0	0	0	0	107
Kent Highlands Storm Drain Replacement	C208001	0	256	11	0	0	0	0	0	267
Midway Agency Negotiations	C205407	60	31	26	26	54	28	29	30	284
Midway Flare Improvements	C207003	0	33	38	172	0	0	0	0	243
Solid Waste Comprehensive Plan Update	C209001	0	0	103	21	0	0	116	121	361
Yard Waste Carts	C205412	2,057	0	10,260	4,728	2,719	2,814	2,912	3,014	28,502
Rehabilitation and Heavy Equipment Total		2,433	535	10,704	4,999	2,827	2,870	3,087	3,195	30,651

*Amounts in thousands of dollars

2009-2014 Adopted Capital Improvement Program

SPU - Solid Waste

Project Summary

BCL/Program Name & Project	Project ID	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Shared Cost Projects						BCL/Program Code:				C410B
1% for Art – SWF	C4118-SWF	0	64	96	426	168	385	349	160	1,648
Heavy Equipment Purchases - SWF	C4116-SWF	0	1,827	1,295	1,405	1,540	1,787	2,033	2,241	12,128
Operational Facility - Construction - SWF	C4106-SWF	1,812	221	107	122	152	532	551	625	4,122
Operational Facility - Other - SWF	C4115-SWF	43	29	70	10	0	0	0	0	152
Operations Control Center - SWF	C4105-SWF	0	26	25	66	105	91	0	0	314
Security Improvements - SWF	C4113-SWF	139	173	20	11	11	11	245	30	640
Shared Cost Projects Total		1,994	2,340	1,613	2,041	1,976	2,807	3,177	3,056	19,004
Department Total		6,774	20,409	24,437	54,973	24,566	46,488	40,564	21,651	239,860

*Amounts in thousands of dollars

2009-2014 Adopted Capital Improvement Program

SPU - Solid Waste

Fund Summary

Fund Name	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Solid Waste Fund	10,720	21,853	26,952	57,107	26,642	48,551	42,654	23,789	258,266
Department Total	10,720	21,853	26,952	57,107	26,642	48,551	42,654	23,789	258,266

Note: Additional allocations for the Solid Waste Fund are shown in the SPU - Technology section of this document.

**Amounts in thousands of dollars*

2009-2014 Adopted Capital Improvement Program

SPU - Solid Waste

1% for Art – SWF

BCL/Program Name: Shared Cost Projects

BCL/Program Code: C410B

Project Type: Improved Facility

Start Date: 1st Quarter 2001

Project ID: C4118-SWF

End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Solid Waste Rates	0	64	96	426	168	385	349	160	1,648
Project Total:	0	64	96	426	168	385	349	160	1,648
Fund Appropriations/Allocations									
Solid Waste Fund	0	64	96	426	168	385	349	160	1,648
Appropriations Total*	0	64	96	426	168	385	349	160	1,648
O & M Costs (Savings)			3	3	3	3	4	4	21

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

SPU - Solid Waste

Heavy Equipment Purchases - SWF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: New Investment	Start Date: Ongoing
Project ID: C4116-SWF	End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan	Neighborhood Plan Matrix: N/A
Neighborhood District: Not in a Neighborhood District	Urban Village: 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. True new O&M costs/savings are generally associated with future equipment "adds" and "upsizing" costs and are difficult to predict because they usually are the result of unanticipated new programs, new requirements or increases in service levels, therefore O&M costs/savings are not calculated.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Solid Waste Rates	0	1,827	1,295	1,405	1,540	1,787	2,033	2,241	12,128
Project Total:	0	1,827	1,295	1,405	1,540	1,787	2,033	2,241	12,128
Fund Appropriations/Allocations									
Solid Waste Fund	0	1,827	1,295	1,405	1,540	1,787	2,033	2,241	12,128
Appropriations Total*	0	1,827	1,295	1,405	1,540	1,787	2,033	2,241	12,128
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		2,366	1,295	1,405	1,540	1,787	2,033	2,241	12,666

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

SPU - Solid Waste

Kent Highlands Agency Negotiations

BCL/Program Name: Rehabilitation and Heavy Equipment

BCL/Program Code: C240B

Project Type: Improved Facility

Start Date: 1st Quarter 2005

Project ID: C205406

End Date: Ongoing

Location: 23076 Military Rd S, Kent

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project provides funding for the required environmental and feasibility studies to demonstrate the effectiveness of the Kent Highlands landfill closure project. These efforts and negotiations are required under the existing Consent Order with the State Department of Ecology. These efforts validate that current environmental controls are effective and reduce the likelihood of additional capital or O&M expenditures.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Solid Waste Rates	229	58	21	53	54	28	29	30	502
Project Total:	229	58	21	53	54	28	29	30	502
Fund Appropriations/Allocations									
Solid Waste Fund	229	58	21	53	54	28	29	30	502
Appropriations Total*	229	58	21	53	54	28	29	30	502
O & M Costs (Savings)			25	25	25	25	25	25	150
Spending Plan		30	21	53	54	28	29	30	245

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

SPU - Solid Waste

Kent Highlands Flare Improvement

BCL/Program Name: Rehabilitation and Heavy Equipment **BCL/Program Code:** C240B
Project Type: Improved Facility **Start Date:** 1st Quarter 2006
Project ID: C205404 **End Date:** 4th Quarter 2009

Location: 23076 Military Rd S, Kent

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project retrofits the existing Kent Highlands flare facility. The existing Kent Highlands flare facility was constructed in 1993. Landfill gas flow rates have declined since that time. Minor modifications have increased the useful life of the flares. To ensure that SPU maintains regulatory compliance a smaller flare is required. This project funds the construction of a new flare that matches anticipated gas flows.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Solid Waste Rates	85	103	196	0	0	0	0	0	384
Project Total:	85	103	196	0	0	0	0	0	384
Fund Appropriations/Allocations									
Solid Waste Fund	85	103	196	0	0	0	0	0	384
Appropriations Total*	85	103	196	0	0	0	0	0	384
O & M Costs (Savings)			0	4	4	4	4	4	20
Spending Plan		120	196	0	0	0	0	0	316

Kent Highlands N Pond Diversion

BCL/Program Name: Rehabilitation and Heavy Equipment **BCL/Program Code:** C240B
Project Type: Improved Facility **Start Date:** 2nd Quarter 2008
Project ID: C205405 **End Date:** 4th Quarter 2009

Location: 23076 Military Rd S, Kent

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project provides modification of the leachate collection system at the Kent Highlands Landfill. This modification will divert shallow collected groundwater from the sanitary system to a stormwater treatment pond. This reduces the monthly King County wastewater charges at the landfill.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Solid Waste Rates	3	54	50	0	0	0	0	0	107
Project Total:	3	54	50	0	0	0	0	0	107
Fund Appropriations/Allocations									
Solid Waste Fund	3	54	50	0	0	0	0	0	107
Appropriations Total*	3	54	50	0	0	0	0	0	107
O & M Costs (Savings)			0	(25)	(25)	(25)	(25)	(25)	-125
Spending Plan		105	50	0	0	0	0	0	155

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

SPU - Solid Waste

Kent Highlands Storm Drain Replacement

BCL/Program Name: Rehabilitation and Heavy Equipment	BCL/Program Code: C240B
Project Type: Rehabilitation or Restoration	Start Date: 1st Quarter 2008
Project ID: C208001	End Date: 1st Quarter 2009

Location: 23076 Military Rd S, Kent

Neighborhood Plan: Not in a Neighborhood Plan	Neighborhood Plan Matrix: N/A
Neighborhood District: Not in a Neighborhood District	Urban Village: Not in an Urban Village

This project provides rehabilitation to a critical storm drainage line at the Kent Highlands Landfill that SPU owns, maintains, and operates. The 42"-diameter line was installed in the 1970s to divert water away from the landfill operations. The more than 2000-foot line is constructed of corrugated metal pipe and is failing. This line transmits surface water from I-5, Military Road, and a small portion of the landfill. If this line fails, it will damage the adjacent highway. This project funds the evaluation of the existing line and the subsequent rehabilitation.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Solid Waste Rates	0	256	11	0	0	0	0	0	267
Project Total:	0	256	11	0	0	0	0	0	267
Fund Appropriations/Allocations									
Solid Waste Fund	0	256	11	0	0	0	0	0	267
Appropriations Total*	0	256	11	0	0	0	0	0	267
O & M Costs (Savings)			0	3	3	3	3	3	13
Spending Plan		255	11	0	0	0	0	0	266

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

SPU - Solid Waste

Midway Agency Negotiations

BCL/Program Name: Rehabilitation and Heavy Equipment
Project Type: Improved Facility
Project ID: C205407

BCL/Program Code: C240B
Start Date: 1st Quarter 2005
End Date: Ongoing

Location: 24808 Pacific Hwy S, Kent

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project provides funding for the required environmental and feasibility studies to demonstrate the effectiveness of the Midway landfill closure project. These efforts and negotiations are required under the existing Consent Decree with the State Department of Ecology. These efforts validate that current environmental controls are effective and reduce the likelihood of additional capital or O&M expenditures.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Solid Waste Rates	60	31	26	26	54	28	29	30	284
Project Total:	60	31	26	26	54	28	29	30	284
Fund Appropriations/Allocations									
Solid Waste Fund	60	31	26	26	54	28	29	30	284
Appropriations Total*	60	31	26	26	54	28	29	30	284
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		20	26	26	54	28	29	30	214

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

SPU - Solid Waste

Midway Flare Improvements

BCL/Program Name: Rehabilitation and Heavy Equipment

BCL/Program Code: C240B

Project Type: Improved Facility

Start Date: 1st Quarter 2008

Project ID: C207003

End Date: 4th Quarter 2010

Location: 24808 Pacific Hwy S, Kent

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project provides retrofits the existing Midway flare facility. The existing Midway flare facility was constructed in 1989. Landfill gas flow rates have declined since that time. One new flare was installed in 2001 and other minor modifications have increased the useful life of the facility. To ensure that SPU maintains regulatory compliance a smaller flare or new technology will be required. This project funds the research, design and construction of new facility equipment that matches anticipated gas flows.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Solid Waste Rates	0	33	38	172	0	0	0	0	243
Project Total:	0	33	38	172	0	0	0	0	243
Fund Appropriations/Allocations									
Solid Waste Fund	0	33	38	172	0	0	0	0	243
Appropriations Total*	0	33	38	172	0	0	0	0	243
O & M Costs (Savings)			0	0	2	2	2	2	10
Spending Plan		30	38	172	0	0	0	0	240

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

SPU - Solid Waste

Miscellaneous Station Improvements

BCL/Program Name: New Facilities **BCL/Program Code:** C230B
Project Type: Improved Facility **Start Date:** 4th Quarter 2003
Project ID: C203005 **End Date:** 4th Quarter 2011

Location: 8101 2nd Ave S

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Greater Duwamish **Urban Village:** 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 project 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.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Solid Waste Rates	1,215	116	194	315	326	0	0	0	2,166
Project Total:	1,215	116	194	315	326	0	0	0	2,166
Fund Appropriations/Allocations									
Solid Waste Fund	1,215	116	194	315	326	0	0	0	2,166
Appropriations Total*	1,215	116	194	315	326	0	0	0	2,166
O & M Costs (Savings)			0	0	0	27	27	27	82
Spending Plan		685	194	315	326	0	0	0	1,520

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

SPU - Solid Waste

Operational Facility - Construction - SWF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: Improved Facility	Start Date: 1st Quarter 2004
Project ID: C4106-SWF	End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This ongoing program, rehabilitates, renovates, replaces, and constructs facility improvements as needed at SPU's solid waste facilities. 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 to 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Solid Waste Rates	1,812	221	107	122	152	532	551	625	4,122
Project Total:	1,812	221	107	122	152	532	551	625	4,122
Fund Appropriations/Allocations									
Solid Waste Fund	1,812	221	107	122	152	532	551	625	4,122
Appropriations Total*	1,812	221	107	122	152	532	551	625	4,122
O & M Costs (Savings)			17	17	17	17	17	17	102

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

SPU - Solid Waste

Operational Facility - Other - SWF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: Improved Facility	Start Date: 1st Quarter 2006
Project ID: C4115-SWF	End Date: Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This ongoing program funds renovation, replacement and improvements to SPU's solid waste-related operating yards throughout the city. Typical improvements include but are not limited to solid waste systems, prefabricated buildings, storage buildings, and fencing. Specific projects have been identified through 2010. As future projects are identified, necessary funding will be required.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Solid Waste Rates	43	29	70	10	0	0	0	0	152
Project Total:	43	29	70	10	0	0	0	0	152
Fund Appropriations/Allocations									
Solid Waste Fund	43	29	70	10	0	0	0	0	152
Appropriations Total*	43	29	70	10	0	0	0	0	152
O & M Costs (Savings)					2	2	2	2	8
Spending Plan		63	70	10	0	0	0	0	144

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

SPU - Solid Waste

Security Improvements - SWF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2007
Project ID: C4113-SWF **End Date:** 4th Quarter 2014

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: 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. 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Solid Waste Rates	139	173	20	11	11	11	245	30	640
Project Total:	139	173	20	11	11	11	245	30	640
Fund Appropriations/Allocations									
Solid Waste Fund	139	173	20	11	11	11	245	30	640
Appropriations Total*	139	173	20	11	11	11	245	30	640
O & M Costs (Savings)			13	14	15	15	30	20	107
Spending Plan		366	20	11	11	11	245	30	694

Solid Waste Comprehensive Plan Update

BCL/Program Name: Rehabilitation and Heavy Equipment **BCL/Program Code:** C240B
Project Type: New Investment **Start Date:** 1st Quarter 2009
Project ID: C209001 **End Date:** Ongoing

This project provides updates to 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 for the five-year time period following the plan update. As the Plan is updated every five years, no work is scheduled for this project in 2011 and 2012. It is too early to determine the impact on Operation and Maintenance costs or savings as a result of this project.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Solid Waste Rates	0	0	103	21	0	0	116	121	361
Project Total:	0	0	103	21	0	0	116	121	361
Fund Appropriations/Allocations									
Solid Waste Fund	0	0	103	21	0	0	116	121	361
Appropriations Total*	0	0	103	21	0	0	116	121	361
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0

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

SPU - Solid Waste

Solid Waste Facility Master Plan -- North Transfer Station Rebuild

BCL/Program Name: New Facilities	BCL/Program Code: C230B
Project Type: New Facility	Start Date: 1st Quarter 2006
Project ID: C207005	End Date: 4th Quarter 2014

Location: 1350 N 34th St

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Lake Union

Urban Village: Not in an Urban Village

This project will provide replacement for the existing North Recycling and Disposal Station which was built in 1966 and is near the end of its useful life. The new facility will modernize solid waste operations, enhance safety, and allow for greater recycling opportunities. It is too early in the project to determine the impact on Operation and Maintenance costs or savings as a result of this project.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Solid Waste Rates	370	1,055	1,200	1,100	2,900	35,300	23,500	1,400	66,825
Project Total:	370	1,055	1,200	1,100	2,900	35,300	23,500	1,400	66,825
Fund Appropriations/Allocations									
Solid Waste Fund	370	1,055	1,200	1,100	2,900	35,300	23,500	1,400	66,825
Appropriations Total*	370	1,055	1,200	1,100	2,900	35,300	23,500	1,400	66,825
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		475	1,200	1,100	2,900	35,300	23,500	1,400	65,875

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

SPU - Solid Waste

Solid Waste Facility Master Plan -- South Transfer Station Rebuild

BCL/Program Name: New Facilities	BCL/Program Code: C230B
Project Type: New Facility	Start Date: 1st Quarter 2006
Project ID: C207006	End Date: 4th Quarter 2014

Location: 8100 2nd Ave S

Neighborhood Plan: Not in a Neighborhood Plan	Neighborhood Plan Matrix: N/A
Neighborhood District: Greater Duwamish	Urban Village: Duwamish

This project will provide replacement for the existing South Recycling and Disposal Station. The new facility will modernize solid waste operations, enhance safety, and allow for greater recycling opportunities. The first phase of this project will involve the construction of a new transfer station building on a site adjacent to the existing facility. The second phase will involve the demolition of the existing station and construction of recycling facilities and a new household hazardous waste facility. This project phasing will allow SPU to provide uninterrupted solid waste services through the construction period. It is too early in the project to determine the impact on Operation and Maintenance costs or savings as a result of this project.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Solid Waste Rates	585	15,700	8,300	41,300	13,600	2,600	10,800	14,000	106,885
Project Total:	585	15,700	8,300	41,300	13,600	2,600	10,800	14,000	106,885
Fund Appropriations/Allocations									
Solid Waste Fund	585	15,700	8,300	41,300	13,600	2,600	10,800	14,000	106,885
Appropriations Total*	585	15,700	8,300	41,300	13,600	2,600	10,800	14,000	106,885
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		14,000	8,300	41,300	13,600	2,600	10,800	14,000	104,600

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

SPU - Solid Waste

South Park Development

BCL/Program Name: New Facilities

BCL/Program Code: C230B

Project Type: Improved Facility

Start Date: 2nd Quarter 2006

Project ID: C206402

End Date: 4th Quarter 2012

Location: 8100 2nd Ave S

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: Duwamish

This project studies, plans, designs and constructs remediation of the historic South Park Landfill site to minimize environmental impacts. SPU owns a portion of the site on which the landfill once operated, and a historic landfill operator will participate in the remediation of the entire site. This project meets the requirements of an anticipated State Department of Ecology agreed order for remediation of the historic South Park Landfill.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Solid Waste Rates	177	376	2,426	5,218	2,936	828	0	0	11,962
Project Total:	177	376	2,426	5,218	2,936	828	0	0	11,962
Fund Appropriations/Allocations									
Solid Waste Fund	177	376	2,426	5,218	2,936	828	0	0	11,962
Appropriations Total*	177	376	2,426	5,218	2,936	828	0	0	11,962
O & M Costs (Savings)			0	300	300	300	300	300	1,500
Spending Plan		390	2,426	5,218	2,936	828	0	0	11,799

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

SPU - Solid Waste

South Recycling Disposal Station Household Hazardous Waste Relocation

BCL/Program Name: New Facilities	BCL/Program Code: C230B
Project Type: Improved Facility	Start Date: 1st Quarter 2012
Project ID: C207002	End Date: 4th Quarter 2012

Location: 8105 5th Ave S

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A

Neighborhood District: Greater Duwamish **Urban Village:** Duwamish

This project relocates the South Household Hazardous Waste (SHHW) facility and makes facility improvements required by code. This work will take place in conjunction with the South Recycling and Disposal Station (SRDS) project, which is scheduled to commence SHHW facility work in 2012. Since the schedule of this project is tied to SRDS redevelopment, no work will be done in the project between 2009 and 2011.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Solid Waste Rates	0	286	0	0	0	2,082	0	0	2,368
Project Total:	0	286	0	0	0	2,082	0	0	2,368
Fund Appropriations/Allocations									
Solid Waste Fund	0	286	0	0	0	2,082	0	0	2,368
Appropriations Total*	0	286	0	0	0	2,082	0	0	2,368
O & M Costs (Savings)			0	0	0	0	24	24	47
Spending Plan		0	0	0	0	2,082	0	0	2,082

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

SPU - Solid Waste

Yard Waste Carts

BCL/Program Name: Rehabilitation and Heavy Equipment

BCL/Program Code: C240B

Project Type: New Investment

Start Date: 1st Quarter 2005

Project ID: C205412

End Date: 4th Quarter 2014

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project provides for the purchase of recycling, yard waste and garbage carts and containers in anticipation of the new solid waste collection contracts which go in to effect on March 30, 2009. City ownership of solid waste carts and containers is specified in the contract. City ownership of these carts reduces costs over the life of the contract and facilitates competition for future contracts by reducing the cost of entry.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Solid Waste Rates	2,057	0	10,260	4,728	2,719	2,814	2,912	3,014	28,502
Project Total:	2,057	0	10,260	4,728	2,719	2,814	2,912	3,014	28,502
Fund Appropriations/Allocations									
Solid Waste Fund	2,057	0	10,260	4,728	2,719	2,814	2,912	3,014	28,502
Appropriations Total*	2,057	0	10,260	4,728	2,719	2,814	2,912	3,014	28,502
O & M Costs (Savings)			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 in thousands of dollars.*

**SPU -
TECHNOLOGY
PROJECTS**

SPU - Technology Projects

Project Summary

BCL/Program Name & Project	Project ID	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Technology										BCL/Program Code: C510B
Administrative - Technology	C5301	605	889	825	1,422	1,174	214	0	0	5,129
Business Intelligence - Technology	C5302	2,913	1,542	1,364	1,601	711	619	0	0	8,750
Customer Relationship Management - Technology	C5303	6,402	2,086	1,471	1,136	3,371	3,264	349	0	18,079
Enterprise Project Management - Technology	C5304	1,966	1,026	2,586	1,082	260	0	0	0	6,920
Fund Placeholders - Technology	C5305	0	0	0	503	1,107	4,466	10,107	11,511	27,694
Information Management - Technology	C5306	4,080	1,722	1,050	1,374	932	248	0	0	9,406
Monitor & Control Management - Technology	C5307	970	0	0	289	166	0	0	0	1,425
Technology Infrastructure - Technology	C5308	544	1,711	3,536	1,828	1,914	1,576	524	0	11,632
Work Management - Technology	C5309	946	949	2,090	1,190	652	225	0	0	6,052
Technology Total		18,425	9,925	12,923	10,423	10,288	10,611	10,981	11,511	95,088
Department Total		18,425	9,925	12,923	10,423	10,288	10,611	10,981	11,511	95,088

*Amounts in thousands of dollars

2009-2014 Adopted Capital Improvement Program

SPU - Technology Projects

Fund Summary

Fund Name	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Drainage and Wastewater Fund	6,415	4,048	4,703	3,945	3,560	3,696	3,802	4,001	34,169
Solid Waste Fund	3,946	1,444	2,515	2,133	2,076	2,063	2,090	2,139	18,406
Water Fund	8,064	4,433	5,705	4,346	4,653	4,852	5,089	5,371	42,512
Department Total	18,425	9,925	12,923	10,423	10,288	10,611	10,981	11,511	95,088

Note: Additional allocations for the Drainage and Wastewater Fund are shown in the SPU - Technology section of this document.

**Amounts in thousands of dollars*

2009-2014 Adopted Capital Improvement Program

SPU - Technology Projects

Administrative - Technology

BCL/Program Name: Technology
Project Type: New Investment
Project ID: C5301

BCL/Program Code: C510B
Start Date: 4th Quarter 2006
End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan
Neighborhood District: Not in a Neighborhood District

Neighborhood Plan Matrix: N/A
Urban Village: Not in an Urban Village

This ongoing program provides technology applications and application upgrades in support of SPU's internal business operations. Typical improvements may include, but are not limited to, a Fixed Assets System, a Commercial Solid Waste system upgrade and SPU's share of costs for City central financial system upgrades. This project enhances the productivity and effectiveness of SPU, and addresses legal financial reporting requirements.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	132	254	214	369	382	68	0	0	1,420
Solid Waste Rates	146	156	263	453	197	34	0	0	1,250
Water Rates	327	479	348	600	595	111	0	0	2,460
Project Total:	605	889	825	1,422	1,174	214	0	0	5,129
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	132	254	214	369	382	68	0	0	1,420
Solid Waste Fund	146	156	263	453	197	34	0	0	1,250
Water Fund	327	479	348	600	595	111	0	0	2,460
Appropriations Total*	605	889	825	1,422	1,174	214	0	0	5,129
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		889	825	1,422	1,174	214	0	0	4,525

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SPU - Technology Projects

Business Intelligence - Technology

BCL/Program Name: Technology

BCL/Program Code: C510B

Project Type: New Investment

Start Date: 3rd Quarter 2005

Project ID: C5302

End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This ongoing program provides sophisticated decision and reporting tools in support of all areas of SPU's business. Typical improvements may include, but are not limited to, a Science Data Management System, a Customer Contact Management data warehouse and a Solid Waste line of business data warehouse. This project improves the quality of information available to SPU's decision makers, thus contributing to improved service levels at reduced costs across SPU's range of services.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	934	544	580	680	219	152	0	0	3,108
Solid Waste Rates	863	182	139	165	67	133	0	0	1,549
Water Rates	1,115	816	645	757	426	334	0	0	4,092
Project Total:	2,913	1,542	1,364	1,601	711	619	0	0	8,750
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	934	544	580	680	219	152	0	0	3,108
Solid Waste Fund	863	182	139	165	67	133	0	0	1,549
Water Fund	1,115	816	645	757	426	334	0	0	4,092
Appropriations Total*	2,913	1,542	1,364	1,601	711	619	0	0	8,750
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		1,542	1,364	1,601	711	619	0	0	5,837

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SPU - Technology Projects

Customer Relationship Management - Technology

BCL/Program Name: Technology	BCL/Program Code: C510B
Project Type: New Investment	Start Date: 1st Quarter 2002
Project ID: C5303	End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This ongoing program provides technology applications and application upgrades in support of SPU's Customer Contact Center and Customer Service Branch. Typical improvements may include, but are not limited to, a Drainage Billing System, a Transfer Station Billing System, a system to improve customer service representatives' online access to customer bills, and a system for monitoring telephone response and performance. This project enhances customer service, insures accurate billing and improves efficiency in the Call Center.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	2,775	1,601	928	716	1,112	1,077	115	0	8,325
Solid Waste Rates	1,787	205	391	302	1,112	1,077	115	0	4,989
Water Rates	1,841	280	152	117	1,146	1,110	119	0	4,765
Project Total:	6,402	2,086	1,471	1,136	3,371	3,264	349	0	18,079
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	2,775	1,601	928	716	1,112	1,077	115	0	8,325
Solid Waste Fund	1,787	205	391	302	1,112	1,077	115	0	4,989
Water Fund	1,841	280	152	117	1,146	1,110	119	0	4,765
Appropriations Total*	6,402	2,086	1,471	1,136	3,371	3,264	349	0	18,079
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		2,086	1,471	1,136	3,371	3,264	349	0	11,677

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SPU - Technology Projects

Enterprise Project Management - Technology

BCL/Program Name: Technology **BCL/Program Code:** C510B
Project Type: New Investment **Start Date:** 3rd Quarter 2004
Project ID: C5304 **End Date:** 4th Quarter 2011

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program develops and implements a Project Tracking System to allow SPU to effectively manage its portfolio of capital projects in a single, coherent repository. The system will include information, such as the list of projects planned and underway, component tasks for each project, budget and schedule estimates, and actual cost and schedule for completed work. This project enhances SPU's ability to deliver the highest-value infrastructure projects on schedule and within budget.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	724	328	828	346	83	0	0	0	2,309
Solid Waste Rates	197	103	259	108	26	0	0	0	692
Water Rates	1,046	595	1,500	627	151	0	0	0	3,918
Project Total:	1,966	1,026	2,586	1,082	260	0	0	0	6,920
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	724	328	828	346	83	0	0	0	2,309
Solid Waste Fund	197	103	259	108	26	0	0	0	692
Water Fund	1,046	595	1,500	627	151	0	0	0	3,918
Appropriations Total*	1,966	1,026	2,586	1,082	260	0	0	0	6,920
O & M Costs (Savings)			250	263	276	289	303	318	1,699

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SPU - Technology Projects

Fund Placeholders - Technology

BCL/Program Name: Technology	BCL/Program Code: C510B
Project Type: New Investment	Start Date: 1st Quarter 2010
Project ID: C5305	End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This ongoing program sets aside funds for future technology investments in years 2010-2014 currently not yet identified, with the recognition that technologies and technology demands continue to evolve and have a shorter life cycle than do public works investments. Funds will be spent only after the development and approval of specific projects through the 2010-2014 budget processes.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	0	432	625	1,713	3,463	4,001	10,234
Solid Waste Rates	0	0	0	0	0	449	1,914	2,139	4,502
Water Rates	0	0	0	71	482	2,304	4,730	5,371	12,958
Project Total:	0	0	0	503	1,107	4,466	10,107	11,511	27,694
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	0	0	0	432	625	1,713	3,463	4,001	10,234
Solid Waste Fund	0	0	0	0	0	449	1,914	2,139	4,502
Water Fund	0	0	0	71	482	2,304	4,730	5,371	12,958
Appropriations Total*	0	0	0	503	1,107	4,466	10,107	11,511	27,694
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0

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SPU - Technology Projects

Information Management - Technology

BCL/Program Name: Technology **BCL/Program Code:** C510B
Project Type: New Investment **Start Date:** 2nd Quarter 2004
Project ID: C5306 **End Date:** Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This ongoing program provides technology applications and application upgrades in support of the management of documents, web content, and geographic data. Typical improvements may include, but are not limited to enhancements to SPU's engineering records Virtual Vault, content management systems for SPU's internal websites, a document management system for project plan circulation, and SPU's share of costs for the City central Geographic Information System. This project enhances SPU's ability to retrieve and share information both inside and outside the department.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	1,568	618	256	333	237	48	0	0	3,060
Solid Waste Rates	319	241	220	290	193	54	0	0	1,317
Water Rates	2,192	863	575	750	502	146	0	0	5,029
Project Total:	4,080	1,722	1,050	1,374	932	248	0	0	9,406
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	1,568	618	256	333	237	48	0	0	3,060
Solid Waste Fund	319	241	220	290	193	54	0	0	1,317
Water Fund	2,192	863	575	750	502	146	0	0	5,029
Appropriations Total*	4,080	1,722	1,050	1,374	932	248	0	0	9,406
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		1,722	1,050	1,374	932	248	0	0	5,326

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

SPU - Technology Projects

Monitor & Control Management - Technology

BCL/Program Name: Technology	BCL/Program Code: C510B
Project Type: New Investment	Start Date: 3rd Quarter 2002
Project ID: C5307	End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This ongoing program provides technology applications and application upgrades in support of automation of utility systems. Typical improvements may include, but are not limited to, laboratory information management systems and field monitoring equipment. This project enhances SPU's ability to control water quality and comply with environmental and health regulations.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	14	0	0	51	14	0	0	0	79
Solid Waste Rates	4	0	0	155	4	0	0	0	164
Water Rates	951	0	0	83	148	0	0	0	1,182
Project Total:	970	0	0	289	166	0	0	0	1,425
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	14	0	0	51	14	0	0	0	79
Solid Waste Fund	4	0	0	155	4	0	0	0	164
Water Fund	951	0	0	83	148	0	0	0	1,182
Appropriations Total*	970	0	0	289	166	0	0	0	1,425
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		0	0	289	166	0	0	0	455

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

SPU - Technology Projects

Technology Infrastructure - Technology

BCL/Program Name: Technology	BCL/Program Code: C510B
Project Type: New Investment	Start Date: 2nd Quarter 2005
Project ID: C5308	End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This ongoing program provides hardware and software in support of SPU's basic computing infrastructure. Typical improvements may include, but are not limited to business continuity tools, messaging software upgrades, radio infrastructure, operating system upgrades, servers and network hardware and software. This project enhances the reliability and performance of SPU's computer systems.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	166	373	1,185	612	678	566	224	0	3,803
Solid Waste Rates	86	433	919	475	373	280	61	0	2,626
Water Rates	292	905	1,432	740	863	730	240	0	5,203
Project Total:	544	1,711	3,536	1,828	1,914	1,576	524	0	11,632
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	166	373	1,185	612	678	566	224	0	3,803
Solid Waste Fund	86	433	919	475	373	280	61	0	2,626
Water Fund	292	905	1,432	740	863	730	240	0	5,203
Appropriations Total*	544	1,711	3,536	1,828	1,914	1,576	524	0	11,632
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		1,711	3,536	1,828	1,914	1,576	524	0	11,089

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

SPU - Technology Projects

Work Management - Technology

BCL/Program Name: Technology	BCL/Program Code: C510B
Project Type: New Investment	Start Date: 1st Quarter 2003
Project ID: C5309	End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This ongoing program provides technology applications and application upgrades in support of SPU's front-line workers. Typical improvements may include, but are not limited to, dispatch and emergency response systems, vehicle location tracking tools, mobile computing hardware and software, and upgrades to the core Work Management System. This project enhances the efficiency, effectiveness, safety and responsiveness of SPU's utility operations.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Drainage and Wastewater Rates	102	330	713	406	209	72	0	0	1,831
Solid Waste Rates	544	124	324	184	104	36	0	0	1,316
Water Rates	300	495	1,054	600	339	117	0	0	2,905
Project Total:	946	949	2,090	1,190	652	225	0	0	6,052
Fund Appropriations/Allocations									
Drainage and Wastewater Fund	102	330	713	406	209	72	0	0	1,831
Solid Waste Fund	544	124	324	184	104	36	0	0	1,316
Water Fund	300	495	1,054	600	339	117	0	0	2,905
Appropriations Total*	946	949	2,090	1,190	652	225	0	0	6,052
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		949	2,090	1,190	652	225	0	0	5,107

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

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 one interlocal association 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 Utility's financial policies (adopted in 2005) call for cash contributions to the CIP averaging 20% of total CIP costs over any given rate period. The remaining portion of the CIP is bond funded. Overhead costs for the CIP are budgeted in the SPU operating fund and are reimbursed as CIP expenditures are incurred.

Highlights

- **Open Distribution System Reservoirs:** 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 and will be completed in 2008. Construction of a new buried reservoir to replace West Seattle Reservoir began in 2008 and is targeted for completion by the end of 2010. The construction of Maple Leaf Reservoir's replacement is scheduled to begin in 2009 and end in 2011. 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 2009-2014 Adopted CIP for these projects.

Project Selection Process

SPU has adopted an asset management approach for selecting projects to build. This triple bottom line evaluates projects for their economic, social, and environmental benefits, as well as the ability to meet customer service levels. The approach provides an analytical and modeling framework to find the most economical balance between capital investments and operation and maintenance expenditures so as 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 \$250,000 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 due to the costs far exceeding 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 \$116.2 million in 2009 and \$111.2 million in 2010 (including Technology projects funded by the Water Fund, displayed in a separate section of this CIP).

In the Distribution Budget Control Level (BCL), the 2009 Adopted Budget is lower than the 2009 planned funding level in the 2008-2013 Adopted CIP by \$5.4 million. This reduction is largely due to delaying Watermain Rehabilitation projects and some Seismic Upgrade Pipeline Backbone projects. Cost estimates for the New Taps program, however, are higher to reflect the expectation that demand for taps will continue to be healthy.

In the Habitat Conservation Program BCL, delays to some projects, including the Cedar Sockeye Hatchery, result in lower 2009 budgets relative to the 2009 planned funding level in the 2008-2013 Adopted CIP.

In the Shared Cost Projects BCL, the 2009 Adopted Budget is higher than the 2009 planned funding level in the 2008-2013 Adopted CIP by \$10.7 million, largely due to higher estimates for the Bridging the Gap Program and utility relocation for the Alaskan Way Viaduct/ Seawall Replacement project. Furthermore, deferral of some costs from 2008 to 2009 results in a larger 2009 budget for the SCADA program.

In the Transmission BCL, the 2009 Adopted Budget exceeds the 2009 planned funding level in the 2008-2013 Adopted CIP by \$1.5 million, primarily driven by the need to add the Control Works Surge Tank Cover project (under the Transmission Pipeline Rehabilitation Program), as required by the Department of Health.

The Water Quality and Treatment BCL 2009 Adopted Budget is lower than the 2009 planned funding level in the 2008-2013 Adopted CIP by approximately \$534,000. In 2009 the West Seattle Reservoir Covering project costs were reduced in part because the construction bid was lower than the Engineer's estimate. This resulted in a downward adjustment of the 2009 cost projection. In addition, the Beacon Reservoir Covering project is in a multi-year construction phase and has shifted approximately \$684,000 into 2009. Total project costs for the Beacon Reservoir have not changed.

In the Water Resources BCL, the 2009 Adopted Budget is slightly lower than the 2009 planned funding level in the 2008-2013 Adopted CIP largely due to shifting project costs for Morse Lake Pumping Plant and Landsburg Flood Passage to later years and reallocation within the BCL to the highest priority projects.

In the Watershed Stewardship BCL, the 2009 Adopted Budget is higher than the 2009 planned funding level in the 2008-2013 Adopted CIP by \$2.8 million due to increases in the Endangered Species Act (ESA) Tolt Levee Modifications project which provides restoration of approximately 50 acres of natural salmon habitat at the mouth of the Tolt River in Carnation, Washington.

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 2009, Water funded projects include water infrastructure relocations related to the Alaskan Way Viaduct & Seawall Replacement, "Bridging the Gap," and Sound Transit projects, as well as fleet and heavy equipment purchases, improvements to SPU operational facilities, and security and infrastructure control systems.

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 and produce 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.

SPU - Water

Project Summary

BCL/Program Name & Project	Project ID	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Distribution										C110B
Chamber Upgrades - Distribution	C103002	612	154	166	173	180	187	195	202	1,869
Distribution System In-Line Gate Valves	C199012	641	61	104	130	135	140	146	152	1,509
Fireflow & Pressure Improvements	C1128	461	327	500	500	500	1,688	1,747	1,808	7,532
Multiple Utility Relocation	C1133	188	573	0	0	0	1,126	1,165	1,206	4,256
Pump Station Improvements	C1135	7,637	242	95	76	79	82	85	89	8,384
Tank Improvements	C1134	87	5	2,034	2,018	1,687	1,755	1,825	1,897	11,308
Water Infrastructure - Hydrant Replacement/Relocation	C1110	2,612	425	421	438	435	450	466	482	5,729
Water Infrastructure - New Hydrants	C1112	0	102	104	108	112	117	122	127	792
Water Infrastructure - New Taps	C1113	57,718	8,500	11,500	10,000	10,000	10,000	10,342	10,755	128,815
Water Infrastructure - Service Renewal	C1109	127	5,478	6,240	6,490	6,749	8,189	9,733	11,388	54,394
Water Infrastructure - Watermain Extensions	C1111	2,161	592	640	660	675	702	730	759	6,920
Water Infrastructure- Seismic Upgrade Pipelines	C1102	455	765	104	0	0	0	0	0	1,323
Watermain Rehabilitation	C1129	1,223	1,141	100	500	1,000	7,093	10,983	15,312	37,352
Distribution Total		73,921	18,366	22,008	21,092	21,552	31,529	37,538	44,177	270,184

*Amounts in thousands of dollars

2009-2014 Adopted Capital Improvement Program

SPU - Water

Project Summary

BCL/Program Name & Project	Project ID	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Habitat Conservation Program						BCL/Program Code:				C160B
Ballard Locks Improvements	C1606	981	79	21	22	16	17	17	1,688	2,841
Cedar Sockeye Hatchery	C1605	4,144	2,345	369	4,310	4,186	21	10	10	15,395
Downstream Fish Habitat	C1607	1,733	2,729	2,609	1,883	246	21	61	13	9,295
Instream Flow Management Studies	C1608	811	529	267	498	0	0	0	0	2,105
Landsburg Fish Passage Monitoring	C1604	560	261	184	72	0	0	0	0	1,078
Stream & Riparian Restoration	C1602	4,316	738	587	652	650	593	616	452	8,605
Upland Reserve Forest Restoration	C1603	4,352	658	724	688	721	680	704	728	9,254
Watershed Road Improvement/Decommissioning	C1601	6,437	846	884	921	920	952	985	1,020	12,965
Habitat Conservation Program Total		23,335	8,184	5,646	9,046	6,740	2,284	2,393	3,910	61,537

*Amounts in thousands of dollars

2009-2014 Adopted Capital Improvement Program

SPU - Water

Project Summary

BCL/Program Name & Project	Project ID	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Shared Cost Projects						BCL/Program Code:				C410B
1% for Art – WF	C4118-WF	0	218	439	434	213	110	91	182	1,687
Bridging the Gap - WF	C4119-WF	0	1,277	4,541	6,612	2,795	2,050	2,050	2,050	21,375
Emergency Storms - WF	C4120-WF	0	200	104	54	54	56	58	60	587
Heavy Equipment Purchases - WF	C4116-WF	1,680	4,308	1,118	2,469	2,869	2,047	3,768	4,220	22,479
Integrated Control Monitoring Program - WF	C4108-WF	3,231	2,146	2,035	2,113	2,159	2,848	2,999	3,074	20,605
Meter Replacement - WF	C4101-WF	2,446	625	684	712	690	714	739	765	7,374
Operational Facility - Construction - WF	C4106-WF	4,858	1,397	8,469	1,011	981	3,416	3,302	3,774	27,208
Operational Facility - Other - WF	C4115-WF	135	390	494	388	326	0	0	0	1,734
Operations Control Center - WF	C4105-WF	0	183	176	453	719	638	0	0	2,169
Other Major Transportation Projects - WF	C4123-WF	0	278	75	75	75	75	75	75	728
Regional Facility - WF	C4107-WF	1,127	776	856	164	1,411	4,896	10,600	10,971	30,800
Security Improvements - WF	C4113-WF	513	1,358	1,252	1,344	1,368	1,418	1,938	1,196	10,388
Sound Transit - East & North Links - WF	C4122-WF	0	0	25	25	25	25	25	25	150
Sound Transit – University Link - WF	C4110-WF	13	122	140	152	33	34	16	0	512
Sound Transit - Water Betterment	C405430	1,391	431	205	210	109	113	116	121	2,696
Sound Transit Central Link - WF	C4104-WF	4,594	369	95	44	0	0	0	0	5,102
South Lake Union - WF	C4114-WF	395	139	1,030	1,046	544	84	0	0	3,238
South Lander Grade Separation	C409013	0	102	104	107	109	0	0	0	422
Spokane Street Viaduct	C409020	96	1,527	1,000	50	50	0	0	0	2,723
SR 519 Interchange	C409015	0	102	465	250	100	0	0	0	917
Utility Relocation due to Alaskan Way Viaduct and Seawall Replacement - WF	C4102-WF	736	257	1,127	1,490	1,078	1,103	542	1,577	7,911

**Amounts in thousands of dollars*

2009-2014 Adopted Capital Improvement Program

SPU - Water

Project Summary

BCL/Program Name & Project	Project ID	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Shared Cost Projects						BCL/Program Code:				C410B
Shared Cost Projects Total		21,217	16,204	24,437	19,202	15,708	19,627	26,320	28,089	170,805
Transmission						BCL/Program Code:				C120B
Cathodic Protection Program	C1208	280	0	624	1,622	1,687	1,755	1,825	1,898	9,691
I-405 Widening Cedar River Pipelines Impacts	C105096	84	142	3	0	0	0	0	0	229
Purveyor Meters Replace - SPU	C1206	8	102	97	90	109	113	116	121	756
Renton Franchise/Line Valve Cedar River	C102023	2,282	1	48	0	0	0	0	0	2,331
Replace Air Valve Chambers	C199060	559	64	73	76	79	82	85	89	1,105
Seatac 3 Runway Pipe Relocation	C199075	501	375	5	5	0	0	0	0	886
Transmission Pipelines Rehabilitation	C1207	394	1,145	1,855	1,206	1,698	2,470	2,449	2,548	13,765
Water System Dewatering	C1205	48	14	205	217	217	225	233	241	1,402
Transmission Total		4,156	1,843	2,910	3,217	3,790	4,644	4,708	4,896	30,166
Water Quality & Treatment						BCL/Program Code:				C140B
Cedar Treatment Screening Improvements	C109005	0	0	513	525	0	0	0	0	1,038
Reservoir Covering - Beacon	C101060	28,063	11,426	2,184	1	0	0	0	0	41,674
Reservoir Covering - Maple Leaf	C101078	1,520	718	14,022	28,299	15,502	1,379	0	0	61,440
Reservoir Covering - Myrtle	C101076	9,036	2,300	1	0	0	0	0	0	11,337
Reservoir Covering - Volunteer	C101059	94	10	5	54	112	585	1,217	8,857	10,935
Reservoir Covering - West Seattle	C101075	2,042	8,149	16,640	9,202	183	117	0	0	36,334
Treatment Facility/Water Quality Improvements	C107018	56	154	152	156	163	169	175	181	1,206
Water Quality Equipment	C107020	19	102	260	379	11	0	0	0	772
Water Quality & Treatment Total		40,831	22,859	33,778	38,617	15,972	2,250	1,391	9,038	164,736

*Amounts in thousands of dollars

2009-2014 Adopted Capital Improvement Program

SPU - Water

Project Summary

BCL/Program Name & Project	Project ID	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Water Resources										BCL/Program Code: C150B
Dam Safety Program	C1506	7,733	3,322	781	0	0	563	1,644	4,567	18,609
Morse Lake Pump Plant	C103032	1,140	1,588	11,232	10,492	0	0	0	0	24,452
Regional Water Conservation Program	C1504	7,833	3,774	2,900	3,045	3,197	4,328	3,042	3,163	31,282
Seattle Direct Service Additional Conservation	C1505	2,641	1,802	625	650	24	0	0	0	5,742
Water Supply Flexibility Program	C1507	0	438	64	7	0	0	641	3,014	4,163
Water System Plan - 2013	C113001	0	0	50	102	474	797	24	0	1,446
Water Resources Total		19,347	10,924	15,652	14,295	3,694	5,688	5,350	10,744	85,694

*Amounts in thousands of dollars

2009-2014 Adopted Capital Improvement Program

SPU - Water

Project Summary

BCL/Program Name & Project	Project ID	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Watershed Stewardship						BCL/Program Code:				C130B
Cedar Bridges	C1307	213	471	10	10	10	422	0	0	1,137
Cedar Falls – Railroad Hazardous Material Remediation	C100078	183	53	0	0	0	0	122	0	357
Cedar River - Boundary Land Acquisition	C198008	2,746	11	102	184	272	191	253	141	3,900
Cedar River Non-HCP Road Improvements	C191001	8,657	702	771	792	761	788	815	844	14,130
Cedar River Watershed Cultural Resource Information Management System	C107005	3	103	104	0	0	0	0	0	210
Cedar River Watershed Fish & Wildlife Information Management System	C107001	0	141	40	0	0	0	0	0	182
Endangered Species Act Snohomish River Basin	C101003	287	49	8	80	60	0	0	0	485
Endangered Species Act Tolt Levee Modifications	C105095	883	945	4,647	0	0	0	0	0	6,475
Kerriston Road Mitigation	C107017	20	104	0	0	0	0	312	301	737
Muckleshoot Agreement Implementation Plan	C1309	764	1,583	12	12	0	0	0	0	2,370
Tolt Bridges	C1308	0	51	0	29	0	0	0	964	1,044
Tolt Watershed Restoration	C1310	0	0	353	268	140	206	203	266	1,436
Watershed Stewardship Total		13,756	4,213	6,047	1,375	1,243	1,607	1,705	2,517	32,463
Department Total		196,563	82,594	110,477	106,844	68,700	67,629	79,406	103,372	815,585

*Amounts in thousands of dollars

2009-2014 Adopted Capital Improvement Program

Fund Summary

Fund Name	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Water Fund	204,627	87,027	116,182	111,190	73,353	72,481	84,495	108,743	858,097
Department Total	204,627	87,027	116,182	111,190	73,353	72,481	84,495	108,743	858,097

Note: Additional allocations for the Water Fund are shown in the SPU - Technology section of this document.

**Amounts in thousands of dollars*

SPU - Water

1% for Art – WF

BCL/Program Name: Shared Cost Projects

BCL/Program Code: C410B

Project Type: Improved Facility

Start Date: 1st Quarter 2001

Project ID: C4118-WF

End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	0	218	439	434	213	110	91	182	1,687
Project Total:	0	218	439	434	213	110	91	182	1,687
Fund Appropriations/Allocations									
Water Fund	0	218	439	434	213	110	91	182	1,687
Appropriations Total*	0	218	439	434	213	110	91	182	1,687
O & M Costs (Savings)			10	10	11	11	11	12	65
Spending Plan		218	403	449	204	60	143	149	1,627

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

Ballard Locks Improvements

BCL/Program Name: Habitat Conservation Program

BCL/Program Code: C160B

Project Type: Improved Facility

Start Date: 1st Quarter 2000

Project ID: C1606

End Date: 4th Quarter 2015

Location: NW 54th St/30th Ave NW

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Ballard

Urban Village: Ballard Interbay

This program provides studies and improvements at the Ballard Locks to improve conditions for salmon. Studies and improvements are focused on conserving the amount of freshwater needed to operate the locks to reduce the demand of freshwater from the Cedar River and increase the availability of freshwater for salmon. This program is a requirement of the Cedar River Habitat Conservation Plan (HCP).

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	981	79	21	22	16	17	17	1,688	2,841
Project Total:	981	79	21	22	16	17	17	1,688	2,841
Fund Appropriations/Allocations									
Water Fund	981	79	21	22	16	17	17	1,688	2,841
Appropriations Total*	981	79	21	22	16	17	17	1,688	2,841
O & M Costs (Savings)			4	4	4	4	4	4	24
Spending Plan		79	21	22	16	17	17	1,688	1,860

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

SPU - Water

Bridging the Gap - WF

BCL/Program Name: Shared Cost Projects

BCL/Program Code: C410B

Project Type: Improved Facility

Start Date: 1st Quarter 2008

Project ID: C4119-WF

End Date: 4th Quarter 2016

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	0	1,277	4,541	6,612	2,795	2,050	2,050	2,050	21,375
Project Total:	0	1,277	4,541	6,612	2,795	2,050	2,050	2,050	21,375
Fund Appropriations/Allocations									
Water Fund	0	1,277	4,541	6,612	2,795	2,050	2,050	2,050	21,375
Appropriations Total*	0	1,277	4,541	6,612	2,795	2,050	2,050	2,050	21,375
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		540	4,541	6,612	2,795	2,050	2,050	2,050	20,638

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

2009-2014 Adopted Capital Improvement Program

SPU - Water

Cathodic Protection Program

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2004
Project ID: C1208 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	280	0	624	1,622	1,687	1,755	1,825	1,898	9,691
Project Total:	280	0	624	1,622	1,687	1,755	1,825	1,898	9,691
Fund Appropriations/Allocations									
Water Fund	280	0	624	1,622	1,687	1,755	1,825	1,898	9,691
Appropriations Total*	280	0	624	1,622	1,687	1,755	1,825	1,898	9,691
O & M Costs (Savings)			5	5	5	5	6	6	32
Spending Plan		451	624	1,622	1,687	1,755	1,825	1,898	9,862

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

Cedar Bridges

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: Improved Facility

Start Date: 1st Quarter 2007

Project ID: C1307

End Date: 4th Quarter 2012

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: 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. This project improves 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. This project 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.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	213	471	10	10	10	422	0	0	1,137
Project Total:	213	471	10	10	10	422	0	0	1,137
Fund Appropriations/Allocations									
Water Fund	213	471	10	10	10	422	0	0	1,137
Appropriations Total*	213	471	10	10	10	422	0	0	1,137
O & M Costs (Savings)			0	0	26	26	26	26	104

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

SPU - Water

Cedar River Watershed Cultural Resource Information Management System

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: New Investment

Start Date: 1st Quarter 2007

Project ID: C107005

End Date: 4th Quarter 2009

Location: Cedar River Watershed Education Center

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: 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. This project 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	3	103	104	0	0	0	0	0	210
Project Total:	3	103	104	0	0	0	0	0	210
Fund Appropriations/Allocations									
Water Fund	3	103	104	0	0	0	0	0	210
Appropriations Total*	3	103	104	0	0	0	0	0	210
O & M Costs (Savings)			0	5	5	5	5	6	26
Spending Plan		25	104	0	0	0	0	0	129

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

2009-2014 Adopted Capital Improvement Program

SPU - Water

Cedar River Watershed Fish & Wildlife Information Management System

BCL/Program Name: Watershed Stewardship **BCL/Program Code:** C130B
Project Type: New Investment **Start Date:** 1st Quarter 2007
Project ID: C107001 **End Date:** 2nd Quarter 2009

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project provides new software applications for the Science Information Management System (SIMS) for fish and wildlife measurements and observations data. This project improves efficiency and secures these data in a central, secure, standardized data repository. This project uses software previously developed for SIMS.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	0	141	40	0	0	0	0	0	182
Project Total:	0	141	40	0	0	0	0	0	182
Fund Appropriations/Allocations									
Water Fund	0	141	40	0	0	0	0	0	182
Appropriations Total*	0	141	40	0	0	0	0	0	182
O & M Costs (Savings)			0	5	5	5	5	5	25
Spending Plan		0	40	0	0	0	0	0	40

Cedar Sockeye Hatchery

BCL/Program Name: Habitat Conservation Program **BCL/Program Code:** C160B
Project Type: New Facility **Start Date:** 1st Quarter 2000
Project ID: C1605 **End Date:** 2nd Quarter 2014

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** 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. This program is a requirement of the Cedar River Habitat Conservation Plan (HCP).

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	4,144	2,345	369	4,310	4,186	21	10	10	15,395
Project Total:	4,144	2,345	369	4,310	4,186	21	10	10	15,395
Fund Appropriations/Allocations									
Water Fund	4,144	2,345	369	4,310	4,186	21	10	10	15,395
Appropriations Total*	4,144	2,345	369	4,310	4,186	21	10	10	15,395
O & M Costs (Savings)			73	130	246	262	262	262	1,235
Spending Plan		1,300	369	4,310	4,186	21	10	10	10,205

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

Cedar Treatment Screening Improvements

BCL/Program Name: Water Quality & Treatment

BCL/Program Code: C140B

Project Type: Improved Facility

Start Date: 1st Quarter 2009

Project ID: C109005

End Date: 4th Quarter 2010

Location: 16207 SE Petrovitsky Road, Renton

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project provides improvements to the water intake and treatment systems at the Cedar Treatment Facility at Lake Youngs. This project addresses upgrades to existing screening and flow metering technology required by the presence of algae blooms in Lake Youngs that interfere with the proper functioning of the water treatment equipment. Improvements may include but are not limited to new metering technology, changes to raw water intake systems, or automation of intake screens to reduce or eliminate screen clogging and flow metering interferences of spring algae blooms in Lake Youngs.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	0	0	513	525	0	0	0	0	1,038
Project Total:	0	0	513	525	0	0	0	0	1,038
Fund Appropriations/Allocations									
Water Fund	0	0	513	525	0	0	0	0	1,038
Appropriations Total*	0	0	513	525	0	0	0	0	1,038
O & M Costs (Savings)			0	0	10	10	10	10	40

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

SPU - Water

Chamber Upgrades - Distribution

BCL/Program Name: Distribution	BCL/Program Code: C110B
Project Type: Rehabilitation or Restoration	Start Date: 1st Quarter 2003
Project ID: C103002	End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This ongoing project improves the 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.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	612	154	166	173	180	187	195	202	1,869
Project Total:	612	154	166	173	180	187	195	202	1,869
Fund Appropriations/Allocations									
Water Fund	612	154	166	173	180	187	195	202	1,869
Appropriations Total*	612	154	166	173	180	187	195	202	1,869
O & M Costs (Savings)			7	7	7	7	7	7	42
Spending Plan		154	166	173	180	187	195	202	1,258

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

SPU - Water

Dam Safety Program

BCL/Program Name: Water Resources

BCL/Program Code: C150B

Project Type: Rehabilitation or Restoration

Start Date: 1st Quarter 2008

Project ID: C1506

End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: 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. Projects are identified for 2008 and 2009. More are planned to begin in 2012.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	7,733	3,322	781	0	0	563	1,644	4,567	18,609
Project Total:	7,733	3,322	781	0	0	563	1,644	4,567	18,609
Fund Appropriations/Allocations									
Water Fund	7,733	3,322	781	0	0	563	1,644	4,567	18,609
Appropriations Total*	7,733	3,322	781	0	0	563	1,644	4,567	18,609
O & M Costs (Savings)			60	75	75	75	75	75	435
Spending Plan		4,175	781	0	0	563	1,644	4,567	11,729

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SPU - Water

Distribution System In-Line Gate Valves

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 1999
Project ID: C199012 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: 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 improves the performance of the water distribution system.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	641	61	104	130	135	140	146	152	1,509
Project Total:	641	61	104	130	135	140	146	152	1,509
Fund Appropriations/Allocations									
Water Fund	641	61	104	130	135	140	146	152	1,509
Appropriations Total*	641	61	104	130	135	140	146	152	1,509
O & M Costs (Savings)			2	2	2	2	2	2	13
Spending Plan		61	104	130	135	140	146	152	868

Downstream Fish Habitat

BCL/Program Name: Habitat Conservation Program **BCL/Program Code:** C160B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2001
Project ID: C1607 **End Date:** Ongoing

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: 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. This program includes both acquisition of habitat lands and habitat restoration on the mainstem of the Cedar River. This program is a requirement of the Cedar River Habitat Conservation Plan (HCP).

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	1,733	2,729	2,609	1,883	246	21	61	13	9,295
Project Total:	1,733	2,729	2,609	1,883	246	21	61	13	9,295
Fund Appropriations/Allocations									
Water Fund	1,733	2,729	2,609	1,883	246	21	61	13	9,295
Appropriations Total*	1,733	2,729	2,609	1,883	246	21	61	13	9,295
O & M Costs (Savings)			10	20	20	25	25	25	125
Spending Plan		534	2,609	1,883	246	21	61	13	5,367

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

SPU - Water

Emergency Storms - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Rehabilitation or Restoration **Start Date:** 3rd Quarter 2007
Project ID: C4120-WF **End Date:** Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This ongoing program funds water 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 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	0	200	104	54	54	56	58	60	587
Project Total:	0	200	104	54	54	56	58	60	587
Fund Appropriations/Allocations									
Water Fund	0	200	104	54	54	56	58	60	587
Appropriations Total*	0	200	104	54	54	56	58	60	587
O & M Costs (Savings)			1	1	1	1	1	1	6
Spending Plan		70	104	54	54	56	58	60	457

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

Endangered Species Act Snohomish River Basin

BCL/Program Name: Watershed Stewardship **BCL/Program Code:** C130B
Project Type: Rehabilitation or Restoration **Start Date:** 2nd Quarter 2000
Project ID: C101003 **End Date:** 4th Quarter 2011

Location: Lower Tolt River

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** 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 (C105095), this project is a component of the ESA Early Action Response Program.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	287	49	8	80	60	0	0	0	485
Project Total:	287	49	8	80	60	0	0	0	485
Fund Appropriations/Allocations									
Water Fund	287	49	8	80	60	0	0	0	485
Appropriations Total*	287	49	8	80	60	0	0	0	485
O & M Costs (Savings)			0	0	0	5	5	5	15
Spending Plan		2	8	80	60	0	0	0	151

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

Fireflow & Pressure Improvements

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Improved Facility **Start Date:** 1st Quarter 2003
Project ID: C1128 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This ongoing program improves service pressure 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.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	461	327	500	500	500	1,688	1,747	1,808	7,532
Project Total:	461	327	500	500	500	1,688	1,747	1,808	7,532
Fund Appropriations/Allocations									
Water Fund	461	327	500	500	500	1,688	1,747	1,808	7,532
Appropriations Total*	461	327	500	500	500	1,688	1,747	1,808	7,532
O & M Costs (Savings)			5	5	5	5	5	5	30

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

Heavy Equipment Purchases - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: New Investment **Start Date:** Ongoing
Project ID: C4116-WF **End Date:** Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** 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. True new O&M costs/savings are generally associated with future equipment "adds" and "upsizing" costs and are difficult to predict because they usually are the result of unanticipated new programs, new requirements or increases in service levels, therefore Operating and Maintenance (O&M) costs/savings are not calculated.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	1,680	4,308	1,118	2,469	2,869	2,047	3,768	4,220	22,479
Project Total:	1,680	4,308	1,118	2,469	2,869	2,047	3,768	4,220	22,479
Fund Appropriations/Allocations									
Water Fund	1,680	4,308	1,118	2,469	2,869	2,047	3,768	4,220	22,479
Appropriations Total*	1,680	4,308	1,118	2,469	2,869	2,047	3,768	4,220	22,479
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0

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

I-405 Widening Cedar River Pipelines Impacts

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Rehabilitation or Restoration **Start Date:** 2nd Quarter 2005
Project ID: C105096 **End Date:** 1st Quarter 2009

Location: Cedar River Pipeline 4/SR-167 Renton to I-405 Tukwila

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project provides for replacement of Cedar River Pipeline 4 (CRPL4) where it crosses I-405 in Tukwila and protection of CRPL4 where it crosses SR-167 in Renton due to the widening of both highways by the State of Washington. These improvements will extend the useful life of the pipeline at these locations.

	LTD	2008	2009	2010	2011	2012	2013	2014	Total
	Actuals								
Revenue Sources									
Water Rates	84	142	3	0	0	0	0	0	229
Project Total:	84	142	3	0	0	0	0	0	229
Fund Appropriations/Allocations									
Water Fund	84	142	3	0	0	0	0	0	229
Appropriations Total*	84	142	3	0	0	0	0	0	229
O & M Costs (Savings)			2	2	2	2	2	2	12
Spending Plan		155	3	0	0	0	0	0	158

Instream Flow Management Studies

BCL/Program Name: Habitat Conservation Program **BCL/Program Code:** C160B
Project Type: Improved Facility **Start Date:** 4th Quarter 2003
Project ID: C1608 **End Date:** 4th Quarter 2010

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** 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).

	LTD	2008	2009	2010	2011	2012	2013	2014	Total
	Actuals								
Revenue Sources									
Water Rates	811	529	267	498	0	0	0	0	2,105
Project Total:	811	529	267	498	0	0	0	0	2,105
Fund Appropriations/Allocations									
Water Fund	811	529	267	498	0	0	0	0	2,105
Appropriations Total*	811	529	267	498	0	0	0	0	2,105
O & M Costs (Savings)			0	0	21	21	21	21	84
Spending Plan		486	267	498	0	0	0	0	1,251

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

Kerriston Road Mitigation

BCL/Program Name: Watershed Stewardship
Project Type: Rehabilitation or Restoration
Project ID: C107017

BCL/Program Code: C130B
Start Date: 1st Quarter 2009
End Date: Ongoing

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan
Neighborhood District: Not in a Neighborhood District

Neighborhood Plan Matrix: N/A
Urban Village: 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. Operating & Maintenance (O&M) cost/savings are not calculated until future land acquisition becomes known.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	20	104	0	0	0	0	312	301	737
Project Total:	20	104	0	0	0	0	312	301	737
Fund Appropriations/Allocations									
Water Fund	20	104	0	0	0	0	312	301	737
Appropriations Total*	20	104	0	0	0	0	312	301	737
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		30	0	0	0	0	312	301	644

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

Morse Lake Pump Plant

BCL/Program Name: Water Resources	BCL/Program Code: C150B
Project Type: Improved Facility	Start Date: 1st Quarter 2003
Project ID: C103032	End Date: 2nd Quarter 2013

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A

Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project provides replacement of the existing floating pumps and associated infrastructure with a permanent land based pump station and discharge pipe. Replacement of the existing floating pump configuration will enhance the reliability and flexibility of reservoir operations. Cost estimates for this project have risen considerably and now total approximately \$65 million. Budget is shown here through the design phase and a portion of the construction phase. Further budgeting for the construction phase will occur when and if the project makes a successful business case to the Asset Management Committee, expected in late 2008.

	LTD	2008	2009	2010	2011	2012	2013	2014	Total
	Actuals								
Revenue Sources									
Water Rates	1,140	1,588	11,232	10,492	0	0	0	0	24,452
Project Total:	1,140	1,588	11,232	10,492	0	0	0	0	24,452
Fund Appropriations/Allocations									
Water Fund	1,140	1,588	11,232	10,492	0	0	0	0	24,452
Appropriations Total*	1,140	1,588	11,232	10,492	0	0	0	0	24,452
O & M Costs (Savings)			0	0	0	0	620	620	1,240

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

Muckleshoot Agreement Implementation Plan

BCL/Program Name: Watershed Stewardship **BCL/Program Code:** C130B
Project Type: New Investment **Start Date:** 1st Quarter 2007
Project ID: C1309 **End Date:** 4th Quarter 2010

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This program supports implementation of specific provisions of the Muckleshoot Indian Tribe (MIT) Settlement Agreement with the City authorized by City of Seattle Ordinance 122131. This commitment may include, but is not limited to land transfer, implementation management, trail access improvements, and development of an information management system for new access protocols for tribal access into the closed Cedar River Municipal Watershed.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	764	1,583	12	12	0	0	0	0	2,370
Project Total:	764	1,583	12	12	0	0	0	0	2,370
Fund Appropriations/Allocations									
Water Fund	764	1,583	12	12	0	0	0	0	2,370
Appropriations Total*	764	1,583	12	12	0	0	0	0	2,370
O & M Costs (Savings)			108	110	114	118	122	127	699
Spending Plan		1,560	12	12	0	0	0	0	1,583

Multiple Utility Relocation

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2007
Project ID: C1133 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: In more than one District **Urban Village:** 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	188	573	0	0	0	1,126	1,165	1,206	4,256
Project Total:	188	573	0	0	0	1,126	1,165	1,206	4,256
Fund Appropriations/Allocations									
Water Fund	188	573	0	0	0	1,126	1,165	1,206	4,256
Appropriations Total*	188	573	0	0	0	1,126	1,165	1,206	4,256
O & M Costs (Savings)			30	30	30	30	30	30	180

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

SPU - Water

Operational Facility - Construction - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2004
Project ID: C4106-WF **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This ongoing program rehabilitates, renovates, replaces, and constructs facility improvements as needed at SPU's water facilities. 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 to facilities structures. These improvements increase the useful life of the facilities, preserve the value of the assets and provide a safe working environment. In 2009, this program includes funding to purchase property at SPU's North Operations Center.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	4,858	1,397	8,469	1,011	981	3,416	3,302	3,774	27,208
Project Total:	4,858	1,397	8,469	1,011	981	3,416	3,302	3,774	27,208
Fund Appropriations/Allocations									
Water Fund	4,858	1,397	8,469	1,011	981	3,416	3,302	3,774	27,208
Appropriations Total*	4,858	1,397	8,469	1,011	981	3,416	3,302	3,774	27,208
O & M Costs (Savings)			75	75	75	75	75	75	450
Spending Plan		675	8,469	1,011	981	3,416	3,302	3,774	21,628

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

SPU - Water

Operational Facility - Other - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 4th Quarter 2006
Project ID: C4115-WF **End Date:** Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This ongoing program funds renovation, replacement and improvements to SPU's water-related facilities throughout the city. Typical improvements include, but are not limited to, water systems, prefabricated buildings, storage buildings, and fencing. Specific projects have been identified through 2011. As future projects are identified, necessary funding will be required.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	135	390	494	388	326	0	0	0	1,734
Project Total:	135	390	494	388	326	0	0	0	1,734
Fund Appropriations/Allocations									
Water Fund	135	390	494	388	326	0	0	0	1,734
Appropriations Total*	135	390	494	388	326	0	0	0	1,734
O & M Costs (Savings)						16	16	16	48
Spending Plan		224	494	388	326	0	0	0	1,433

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

Other Major Transportation Projects - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Rehabilitation or Restoration **Start Date:** 2nd Quarter 2008
Project ID: C4123-WF **End Date:** Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This ongoing program funds Water projects that mitigate undesirable impacts and takes 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, Interstate 90, and work related to new street car lines. 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	0	278	75	75	75	75	75	75	728
Project Total:	0	278	75	75	75	75	75	75	728
Fund Appropriations/Allocations									
Water Fund	0	278	75	75	75	75	75	75	728
Appropriations Total*	0	278	75	75	75	75	75	75	728
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		0	75	75	75	75	75	75	450

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

SPU - Water

Pump Station Improvements

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 3rd Quarter 2008
Project ID: C1135 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	7,637	242	95	76	79	82	85	89	8,384
Project Total:	7,637	242	95	76	79	82	85	89	8,384
Fund Appropriations/Allocations									
Water Fund	7,637	242	95	76	79	82	85	89	8,384
Appropriations Total*	7,637	242	95	76	79	82	85	89	8,384
O & M Costs (Savings)			10	10	10	10	11	12	63
Spending Plan		915	95	76	79	82	85	89	1,420

Purveyor Meters Replace - SPU

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2000
Project ID: C1206 **End Date:** Ongoing

Location: Regional

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	8	102	97	90	109	113	116	121	756
Project Total:	8	102	97	90	109	113	116	121	756
Fund Appropriations/Allocations									
Water Fund	8	102	97	90	109	113	116	121	756
Appropriations Total*	8	102	97	90	109	113	116	121	756
O & M Costs (Savings)			4	4	4	4	4	5	25
Spending Plan		121	97	90	109	113	116	121	767

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

SPU - Water

Regional Facility - WF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: Improved Facility	Start Date: 1st Quarter 2007
Project ID: C4107-WF	End Date: Ongoing

Location: 19901 Cedar Falls Rd SE, North Bend

Neighborhood Plan: Not in a Neighborhood Plan	Neighborhood Plan Matrix: N/A
Neighborhood District: Not in a Neighborhood District	Urban Village: Not in an Urban Village

This ongoing program funds rehabilitation, renovation, replacements, new construction, and improvements at the Cedar Falls, Landsburg, Lake Youngs, and Tolt/Duvall facilities. Typical work may include, but is not limited to, roof replacements, exterior replacements, improvements to office space, crew and shop space, structural improvements, and electrical, water and wastewater system improvements.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	1,127	776	856	164	1,411	4,896	10,600	10,971	30,800
Project Total:	1,127	776	856	164	1,411	4,896	10,600	10,971	30,800
Fund Appropriations/Allocations									
Water Fund	1,127	776	856	164	1,411	4,896	10,600	10,971	30,800
Appropriations Total*	1,127	776	856	164	1,411	4,896	10,600	10,971	30,800
O & M Costs (Savings)			46	46	46	46	46	46	276

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

Regional Water Conservation Program

BCL/Program Name: Water Resources **BCL/Program Code:** C150B
Project Type: Improved Facility **Start Date:** 1st Quarter 1999
Project ID: C1504 **End Date:** Ongoing

Location: Citywide Plus Wholesale

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	7,833	3,774	2,900	3,045	3,197	4,328	3,042	3,163	31,282
Project Total:	7,833	3,774	2,900	3,045	3,197	4,328	3,042	3,163	31,282
Fund Appropriations/Allocations									
Water Fund	7,833	3,774	2,900	3,045	3,197	4,328	3,042	3,163	31,282
Appropriations Total*	7,833	3,774	2,900	3,045	3,197	4,328	3,042	3,163	31,282
O & M Costs (Savings)			0	0	0	0	0	0	0

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SPU - Water

Renton Franchise/Line Valve Cedar River

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2002
Project ID: C102023 **End Date:** 1st Quarter 2009

Location: Cedar River Pipeline

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project implements remote control improvements to key valves on water transmission pipelines that will preclude or reduce flooding in Downtown Renton in case of a major break of one or more of the Cedar River Pipelines 1, 2 and 3. The improvements are required of Seattle under Renton's utility franchise authority. The benefit of the project is increased public safety in Downtown Renton, and reduced risk exposure for Seattle.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	2,282	1	48	0	0	0	0	0	2,331
Project Total:	2,282	1	48	0	0	0	0	0	2,331
Fund Appropriations/Allocations									
Water Fund	2,282	1	48	0	0	0	0	0	2,331
Appropriations Total*	2,282	1	48	0	0	0	0	0	2,331
O & M Costs (Savings)			23	23	23	23	23	23	138
Spending Plan		75	48	0	0	0	0	0	123

Replace Air Valve Chambers

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Rehabilitation or Restoration **Start Date:** 3rd Quarter 1999
Project ID: C199060 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: In more than one District **Urban Village:** 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.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	559	64	73	76	79	82	85	89	1,105
Project Total:	559	64	73	76	79	82	85	89	1,105
Fund Appropriations/Allocations									
Water Fund	559	64	73	76	79	82	85	89	1,105
Appropriations Total*	559	64	73	76	79	82	85	89	1,105
O & M Costs (Savings)			5	5	5	5	5	5	30
Spending Plan		0	73	76	79	82	85	89	483

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

SPU - Water

Reservoir Covering - Beacon

BCL/Program Name: Water Quality & Treatment

BCL/Program Code: C140B

Project Type: Improved Facility

Start Date: 1st Quarter 2001

Project ID: C101060

End Date: 1st Quarter 2010

Location: S Spokane St/Beacon Ave S

Neighborhood Plan: North Beacon Hill

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: Not in an Urban Village

This project replaces the existing 49 million gallon and 61 million gallon concrete-lined open reservoirs with a single 50 million gallon reinforced-concrete buried reservoir. The new reservoir is located in the footprint of the existing south basin reservoir. This project improves water quality and the security of the drinking water system. This project is part of the Reservoir Burying program which was adopted by Ordinance in April 2004.

	LTD	2008	2009	2010	2011	2012	2013	2014	Total
	Actuals								
Revenue Sources									
Water Rates	28,063	11,426	2,184	1	0	0	0	0	41,674
Project Total:	28,063	11,426	2,184	1	0	0	0	0	41,674
Fund Appropriations/Allocations									
Water Fund	28,063	11,426	2,184	1	0	0	0	0	41,674
Appropriations Total*	28,063	11,426	2,184	1	0	0	0	0	41,674
O & M Costs (Savings)			0	417	417	417	417	417	2,085
Spending Plan		9,450	2,184	1	0	0	0	0	11,635

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

SPU - Water

Reservoir Covering - Maple Leaf

BCL/Program Name: Water Quality & Treatment	BCL/Program Code: C140B
Project Type: Improved Facility	Start Date: 4th Quarter 2001
Project ID: C101078	End Date: 4th Quarter 2012
Location: NE 86th St/Roosevelt Wy NE	
Neighborhood Plan: Not in a Neighborhood Plan	Neighborhood Plan Matrix: N/A
Neighborhood District: North	Urban Village: Not in an Urban Village

This project replaces the existing 60 million gallon concrete-lined open reservoir with a 2-cell, 60 million gallon reinforced-concrete buried reservoir. The new reservoir is located within the footprint of the existing reservoir. This project improves water quality and the security of the drinking water system. This project is part of the Reservoir Burying program which was adopted by Ordinance in April 2004.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	1,520	718	14,022	28,299	15,502	1,379	0	0	61,440
Project Total:	1,520	718	14,022	28,299	15,502	1,379	0	0	61,440
Fund Appropriations/Allocations									
Water Fund	1,520	718	14,022	28,299	15,502	1,379	0	0	61,440
Appropriations Total*	1,520	718	14,022	28,299	15,502	1,379	0	0	61,440
O & M Costs (Savings)			0	0	0	615	615	615	1,845

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

SPU - Water

Reservoir Covering - Myrtle

BCL/Program Name: Water Quality & Treatment

BCL/Program Code: C140B

Project Type: Improved Facility

Start Date: 4th Quarter 2001

Project ID: C101076

End Date: 1st Quarter 2009

Location: SW Myrtle St/35th Ave SW

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Southwest

Urban Village: Not in an Urban Village

This project replaces the existing 7 million gallon concrete-lined open reservoir with a 5 million gallon reinforced-concrete buried reservoir. The new reservoir is located within the footprint of the existing reservoir. This project improves water quality and the security of the drinking water system. This project is part of the Reservoir Burying program which was adopted by Ordinance in April 2004.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	9,036	2,300	1	0	0	0	0	0	11,337
Project Total:	9,036	2,300	1	0	0	0	0	0	11,337
Fund Appropriations/Allocations									
Water Fund	9,036	2,300	1	0	0	0	0	0	11,337
Appropriations Total*	9,036	2,300	1	0	0	0	0	0	11,337
O & M Costs (Savings)			113	113	113	113	113	113	678
Spending Plan		2,300	1	0	0	0	0	0	2,301

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

SPU - Water

Reservoir Covering - Volunteer

BCL/Program Name: Water Quality & Treatment

BCL/Program Code: C140B

Project Type: Improved Facility

Start Date: 4th Quarter 2001

Project ID: C101059

End Date: 2nd Quarter 2016

Location: E Prospect St./12th Ave. E

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: East District

Urban Village: Capitol Hill

This project will either reconstruct or decommission the 20 million gallon concrete-lined open reservoir. This project improves water quality and the security of the drinking water system. This project is part of the Reservoir Burying program which was adopted by Ordinance in April 2004. Operating and Maintenance (O&M) cost/savings are not calculated until project developments become known.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	94	10	5	54	112	585	1,217	8,857	10,935
Project Total:	94	10	5	54	112	585	1,217	8,857	10,935
Fund Appropriations/Allocations									
Water Fund	94	10	5	54	112	585	1,217	8,857	10,935
Appropriations Total*	94	10	5	54	112	585	1,217	8,857	10,935
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		0	5	54	112	585	1,217	8,857	10,831

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

SPU - Water

Reservoir Covering - West Seattle

BCL/Program Name: Water Quality & Treatment

BCL/Program Code: C140B

Project Type: Improved Facility

Start Date: 4th Quarter 2001

Project ID: C101075

End Date: 1st Quarter 2012

Location: SW Henderson St/8th Ave SW

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Delridge

Urban Village: Not in an Urban Village

This project replaces the existing 68 million gallon concrete-lined open reservoir with a 30 million gallon reinforced-concrete buried reservoir. The new reservoir is located at the north end and within the footprint of the existing reservoir. This project improves water quality and the security of the drinking water system. This project is part of the Reservoir Burying program which was adopted by Ordinance in April 2004.

	LTD	2008	2009	2010	2011	2012	2013	2014	Total
	Actuals								
Revenue Sources									
Water Rates	2,042	8,149	16,640	9,202	183	117	0	0	36,334
Project Total:	2,042	8,149	16,640	9,202	183	117	0	0	36,334
Fund Appropriations/Allocations									
Water Fund	2,042	8,149	16,640	9,202	183	117	0	0	36,334
Appropriations Total*	2,042	8,149	16,640	9,202	183	117	0	0	36,334
O & M Costs (Savings)			0	0	0	363	363	363	1,089
Spending Plan		8,149	16,640	9,202	183	117	0	0	34,292

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

2009-2014 Adopted Capital Improvement Program

Seatac 3 Runway Pipe Relocation

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Rehabilitation or Restoration **Start Date:** 3rd Quarter 1999
Project ID: C199075 **End Date:** 4th Quarter 2010

Location: S 156th Wy./24th Ave. S

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project relocates the Bow Lake Pipeline away from Seattle-Tacoma International Airport onto a new road along the north perimeter of the airport property. The original pipeline crossed both runways, and was not compatible with the third runway. Work left to be done is exchange of real property rights between Seattle and Port of Seattle, and then final payment to the Port by Seattle for its share of project costs. Benefit is improved transmission and lower risk by avoiding the high impact airport area.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	501	375	5	5	0	0	0	0	886
Project Total:	501	375	5	5	0	0	0	0	886
Fund Appropriations/Allocations									
Water Fund	501	375	5	5	0	0	0	0	886
Appropriations Total*	501	375	5	5	0	0	0	0	886
O & M Costs (Savings)			1	1	1	1	1	1	6

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

Seattle Direct Service Additional Conservation

BCL/Program Name: Water Resources **BCL/Program Code:** C150B
Project Type: Improved Facility **Start Date:** 1st Quarter 2001
Project ID: C1505 **End Date:** 1st Quarter 2011

Location: Citywide & Direct Service

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: 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 Department of Human Services (DHS) and requires an annual report to be provided to Council.

	LTD	2008	2009	2010	2011	2012	2013	2014	Total
	Actuals								
Revenue Sources									
Water Rates	2,641	1,802	625	650	24	0	0	0	5,742
Project Total:	2,641	1,802	625	650	24	0	0	0	5,742
Fund Appropriations/Allocations									
Water Fund	2,641	1,802	625	650	24	0	0	0	5,742
Appropriations Total*	2,641	1,802	625	650	24	0	0	0	5,742
O & M Costs (Savings)			0	0	68	68	68	68	272

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

SPU - Water

Sound Transit - East & North Links - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2009
Project ID: C4122-WF **End Date:** 4th Quarter 2015

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project funds environmental review of impacts to SPU infrastructure in anticipation of relocation, replacement, and protection of water infrastructure affected by the development of Sound Transit's Link Light Rail System for the East & North Links.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	0	0	25	25	25	25	25	25	150
Project Total:	0	0	25	25	25	25	25	25	150
Fund Appropriations/Allocations									
Water Fund	0	0	25	25	25	25	25	25	150
Appropriations Total*	0	0	25	25	25	25	25	25	150
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0

Sound Transit – University Link - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: New Facility **Start Date:** 1st Quarter 2007
Project ID: C4110-WF **End Date:** 4th Quarter 2013

Location: Various

Neighborhood Plan: In more than one Plan

Neighborhood Plan Matrix: Multiple

Neighborhood District: In more than one District

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	13	122	140	152	33	34	16	0	512
Project Total:	13	122	140	152	33	34	16	0	512
Fund Appropriations/Allocations									
Water Fund	13	122	140	152	33	34	16	0	512
Appropriations Total*	13	122	140	152	33	34	16	0	512
O & M Costs (Savings)			0	0	0	0	4	4	8
Spending Plan		102	140	152	33	34	16	0	478

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

SPU - Water

Sound Transit Central Link - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: New Facility **Start Date:** 1st Quarter 2003
Project ID: C4104-WF **End Date:** 4th Quarter 2010

Location: Various

Neighborhood Plan: In more than one Plan

Neighborhood Plan Matrix: Multiple

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program funds relocation, replacement, and protection of water infrastructure affected by the development of Sound Transit's Link Light Rail System. Sound Transit is constructing an electrical light rail transit system that includes more than fourteen miles of alignment from the Convention Place Station to South 154th Street near Seattle/Tacoma International Airport.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	4,594	369	95	44	0	0	0	0	5,102
Project Total:	4,594	369	95	44	0	0	0	0	5,102
Fund Appropriations/Allocations									
Water Fund	4,594	369	95	44	0	0	0	0	5,102
Appropriations Total*	4,594	369	95	44	0	0	0	0	5,102
O & M Costs (Savings)			0	0	4	4	4	4	16
Spending Plan		191	95	44	0	0	0	0	331

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

SPU - Water

South Lake Union - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2007
Project ID: C4114-WF **End Date:** 4th Quarter 2012

Location: South Lake Union

Neighborhood Plan: South Lake Union

Neighborhood Plan Matrix: N/A

Neighborhood District: Lake Union

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	395	139	1,030	1,046	544	84	0	0	3,238
Project Total:	395	139	1,030	1,046	544	84	0	0	3,238
Fund Appropriations/Allocations									
Water Fund	395	139	1,030	1,046	544	84	0	0	3,238
Appropriations Total*	395	139	1,030	1,046	544	84	0	0	3,238
O & M Costs (Savings)			0	0	0	0	4	4	8
Spending Plan		159	1,030	1,046	544	84	0	0	2,863

South Lander Grade Separation

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2008
Project ID: C409013 **End Date:** 4th Quarter 2011

Location: S Lander St

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: Not in an Urban Village

This project funds the repair, relocation, protection and/or upgrade of water infrastructure related to SDOT's Bridging the Gap (BTG) grade separation project on South Lander Street. Design of the SDOT project was put on hold in 2008 due to funding issues.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	0	102	104	107	109	0	0	0	422
Project Total:	0	102	104	107	109	0	0	0	422
Fund Appropriations/Allocations									
Water Fund	0	102	104	107	109	0	0	0	422
Appropriations Total*	0	102	104	107	109	0	0	0	422
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0

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

Spokane Street Viaduct

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2007
Project ID: C409020 **End Date:** 4th Quarter 2011

Location: Spokane St Viaduct

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: West Seattle Junction

This project protects water infrastructure affected by the Seattle Department of Transportation's (SDOT) work to widen and improve the Spokane Street Viaduct, south of downtown. SPU must relocate approximately 600 linear feet of 30" watermain between the Burlington Northern Santa Fe Railroad tracks and 4th Avenue South to make way for the new 4th Avenue South off ramp; the project may also require relocation of drainage and wastewater assets. SPU is expected to complete the relocation project in time to allow the SDOT project to be built on schedule. The project is part of Bridging the Gap and needs to be completed prior to demolition of the Alaskan Way Viaduct.

	LTD	2008	2009	2010	2011	2012	2013	2014	Total
	Actuals								
Revenue Sources									
Water Rates	96	1,527	1,000	50	50	0	0	0	2,723
Project Total:	96	1,527	1,000	50	50	0	0	0	2,723
Fund Appropriations/Allocations									
Water Fund	96	1,527	1,000	50	50	0	0	0	2,723
Appropriations Total*	96	1,527	1,000	50	50	0	0	0	2,723
O & M Costs (Savings)			50	50	50	50	50	50	300
Spending Plan		0	1,000	50	50	0	0	0	1,100

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

SPU - Water

SR 519 Interchange

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2008
Project ID: C409015 **End Date:** 4th Quarter 2011

Location: S Royal Brougham Wy & 1st Ave S
Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Greater Duwamish **Urban Village:** In more than one Urban Village

This project protects and/or replaces water infrastructure affected by the Washington State Department of Transportation (WSDOT) work to improve the State Route 519 Interchange, south of Downtown. This design/build project needs to be completed prior to demolition of the Alaskan Way Viaduct. It is too early in the project to determine the impact on Operation and Maintenance costs or savings as a result of this project.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	0	102	465	250	100	0	0	0	917
Project Total:	0	102	465	250	100	0	0	0	917
Fund Appropriations/Allocations									
Water Fund	0	102	465	250	100	0	0	0	917
Appropriations Total*	0	102	465	250	100	0	0	0	917
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		0	465	250	100	0	0	0	815

Stream & Riparian Restoration

BCL/Program Name: Habitat Conservation Program **BCL/Program Code:** C160B
Project Type: Rehabilitation or Restoration **Start Date:** 2nd Quarter 2000
Project ID: C1602 **End Date:** Ongoing

Location: Cedar River Watershed
Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	4,316	738	587	652	650	593	616	452	8,605
Project Total:	4,316	738	587	652	650	593	616	452	8,605
Fund Appropriations/Allocations									
Water Fund	4,316	738	587	652	650	593	616	452	8,605
Appropriations Total*	4,316	738	587	652	650	593	616	452	8,605
O & M Costs (Savings)			40	40	40	40	40	40	240
Spending Plan		696	587	652	650	593	616	452	4,246

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

SPU - Water

Tank Improvements

BCL/Program Name: Distribution

BCL/Program Code: C110B

Project Type: Rehabilitation or Restoration

Start Date: 1st Quarter 2008

Project ID: C1134

End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: 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.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	87	5	2,034	2,018	1,687	1,755	1,825	1,897	11,308
Project Total:	87	5	2,034	2,018	1,687	1,755	1,825	1,897	11,308
Fund Appropriations/Allocations									
Water Fund	87	5	2,034	2,018	1,687	1,755	1,825	1,897	11,308
Appropriations Total*	87	5	2,034	2,018	1,687	1,755	1,825	1,897	11,308
O & M Costs (Savings)			10	10	10	10	10	10	60
Spending Plan		1,180	2,034	2,018	1,687	1,755	1,825	1,897	12,396

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2009-2014 Adopted Capital Improvement Program

SPU - Water

Tolt Bridges

BCL/Program Name: Watershed Stewardship
Project Type: Rehabilitation or Restoration
Project ID: C1308

BCL/Program Code: C130B
Start Date: 1st Quarter 2004
End Date: 4th Quarter 2014

Location: Tolt River Watershed

Neighborhood Plan: Not in a Neighborhood Plan
Neighborhood District: Not in a Neighborhood District

Neighborhood Plan Matrix: N/A
Urban Village: 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. This project 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. Specific replacement needs have been identified in 2008, 2010, and 2014. This project 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.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	0	51	0	29	0	0	0	964	1,044
Project Total:	0	51	0	29	0	0	0	964	1,044
Fund Appropriations/Allocations									
Water Fund	0	51	0	29	0	0	0	964	1,044
Appropriations Total*	0	51	0	29	0	0	0	964	1,044
O & M Costs (Savings)			0	0	0	0	0	10	10
Spending Plan		2	0	29	0	0	0	964	995

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SPU - Water

Transmission Pipelines Rehabilitation

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2005
Project ID: C1207 **End Date:** Ongoing

Location: Regional

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

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

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	394	1,145	1,855	1,206	1,698	2,470	2,449	2,548	13,765
Project Total:	394	1,145	1,855	1,206	1,698	2,470	2,449	2,548	13,765
Fund Appropriations/Allocations									
Water Fund	394	1,145	1,855	1,206	1,698	2,470	2,449	2,548	13,765
Appropriations Total*	394	1,145	1,855	1,206	1,698	2,470	2,449	2,548	13,765
O & M Costs (Savings)			10	10	10	10	12	15	67
Spending Plan		590	1,855	1,206	1,698	2,470	2,449	2,548	12,815

Treatment Facility/Water Quality Improvements

BCL/Program Name: Water Quality & Treatment **BCL/Program Code:** C140B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2007
Project ID: C107018 **End Date:** Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: 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. The project enhances SPU's ability to address water system improvement needs that relate to public health protection and drinking water regulatory compliance.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	56	154	152	156	163	169	175	181	1,206
Project Total:	56	154	152	156	163	169	175	181	1,206
Fund Appropriations/Allocations									
Water Fund	56	154	152	156	163	169	175	181	1,206
Appropriations Total*	56	154	152	156	163	169	175	181	1,206
O & M Costs (Savings)			5	5	5	5	5	6	31
Spending Plan		75	152	156	163	169	175	181	1,071

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Upland Reserve Forest Restoration

BCL/Program Name: Habitat Conservation Program

BCL/Program Code: C160B

Project Type: Rehabilitation or Restoration

Start Date: 2nd Quarter 2000

Project ID: C1603

End Date: Ongoing

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
	Actuals								
Revenue Sources									
Water Rates	4,352	658	724	688	721	680	704	728	9,254
Project Total:	4,352	658	724	688	721	680	704	728	9,254
Fund Appropriations/Allocations									
Water Fund	4,352	658	724	688	721	680	704	728	9,254
Appropriations Total*	4,352	658	724	688	721	680	704	728	9,254
O & M Costs (Savings)			45	45	45	45	45	45	270
Spending Plan		697	724	688	721	680	704	728	4,941

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SPU - Water

Utility Relocation due to Alaskan Way Viaduct and Seawall Replacement - WF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: New Facility	Start Date: 1st Quarter 2004
Project ID: C4102-WF	End Date: 4th Quarter 2017

Location: SR 99 / Battery St

Neighborhood Plan: In more than one Plan	Neighborhood Plan Matrix: Multiple
Neighborhood District: In more than one District	Urban Village: In more than one Urban Village

This program funds the relocation, replacement, and protection of the water infrastructure affected by the replacement of the Alaskan Way Viaduct and Seawall. The Alaskan Way Viaduct carries 25 percent of the north-south traffic through downtown Seattle and is a major truck route. The Seawall supports the soils under Alaskan Way and the Viaduct. Both of these structures were damaged in the 2001 Nisqually Earthquake. SPU has substantial water system infrastructure along the approximately four-mile project corridor, which must be relocated one or more times during the replacement project. This program designs and constructs these relocations according to the transportation project scope and schedule. The Washington State Department of Transportation is the lead for the project. It is too early in the project to determine the impact on operation and maintenance costs or savings as a result of this project.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	736	257	1,127	1,490	1,078	1,103	542	1,577	7,911
Project Total:	736	257	1,127	1,490	1,078	1,103	542	1,577	7,911
Fund Appropriations/Allocations									
Water Fund	736	257	1,127	1,490	1,078	1,103	542	1,577	7,911
Appropriations Total*	736	257	1,127	1,490	1,078	1,103	542	1,577	7,911
O & M Costs (Savings)			N/C	N/C	N/C	N/C	N/C	N/C	0
Spending Plan		257	1,127	1,490	1,078	1,103	542	1,577	7,174

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SPU - Water

Water Infrastructure - Hydrant Replacement/Relocation

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 4th Quarter 1998
Project ID: C1110 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	2,612	425	421	438	435	450	466	482	5,729
Project Total:	2,612	425	421	438	435	450	466	482	5,729
Fund Appropriations/Allocations									
Water Fund	2,612	425	421	438	435	450	466	482	5,729
Appropriations Total*	2,612	425	421	438	435	450	466	482	5,729
O & M Costs (Savings)			10	10	10	10	10	10	60
Spending Plan		323	421	438	435	450	466	482	3,015

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SPU - Water

Water Infrastructure - New Hydrants

BCL/Program Name: Distribution
Project Type: New Facility
Project ID: C1112

BCL/Program Code: C110B
Start Date: 2nd Quarter 1999
End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	0	102	104	108	112	117	122	127	792
Project Total:	0	102	104	108	112	117	122	127	792
Fund Appropriations/Allocations									
Water Fund	0	102	104	108	112	117	122	127	792
Appropriations Total*	0	102	104	108	112	117	122	127	792
O & M Costs (Savings)			1	1	1	1	1	1	6
Spending Plan		30	104	108	112	117	122	127	720

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SPU - Water

Water Infrastructure - New Taps

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: New Facility **Start Date:** 4th Quarter 1998
Project ID: C1113 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This ongoing program installs new drinking water services throughout the City of Seattle. This program provides new connections to existing water mains 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	57,718	8,500	11,500	10,000	10,000	10,000	10,342	10,755	128,815
Project Total:	57,718	8,500	11,500	10,000	10,000	10,000	10,342	10,755	128,815
Fund Appropriations/Allocations									
Water Fund	57,718	8,500	11,500	10,000	10,000	10,000	10,342	10,755	128,815
Appropriations Total*	57,718	8,500	11,500	10,000	10,000	10,000	10,342	10,755	128,815
O & M Costs (Savings)			5	5	5	5	5	6	31
Spending Plan		8,500	10,000	10,000	10,000	10,000	10,342	10,755	69,597

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SPU - Water

Water Infrastructure - Service Renewal

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 4th Quarter 1998
Project ID: C1109 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This ongoing project provides for the planned replacement of plastic and steel water line services throughout the City of Seattle. The replacement of these plastic and steel services improves the drinking water system and reduces the cost of repairing broken services on overtime or major damage due to a service failure.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	127	5,478	6,240	6,490	6,749	8,189	9,733	11,388	54,394
Project Total:	127	5,478	6,240	6,490	6,749	8,189	9,733	11,388	54,394
Fund Appropriations/Allocations									
Water Fund	127	5,478	6,240	6,490	6,749	8,189	9,733	11,388	54,394
Appropriations Total*	127	5,478	6,240	6,490	6,749	8,189	9,733	11,388	54,394
O & M Costs (Savings)			10	10	10	10	10	10	60

Water Infrastructure - Watermain Extensions

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: New Facility **Start Date:** Ongoing
Project ID: C1111 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	2,161	592	640	660	675	702	730	759	6,920
Project Total:	2,161	592	640	660	675	702	730	759	6,920
Fund Appropriations/Allocations									
Water Fund	2,161	592	640	660	675	702	730	759	6,920
Appropriations Total*	2,161	592	640	660	675	702	730	759	6,920
O & M Costs (Savings)			5	5	5	5	5	5	30
Spending Plan		592	640	660	675	702	730	759	4,758

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

SPU - Water

Water Infrastructure-Seismic Upgrade Pipelines

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Improved Facility **Start Date:** 1st Quarter 2009
Project ID: C1102 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: 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. Funding for this program beyond 2009 may be provided with savings from other Water Infrastructure programs, as needed. Operating & Maintenance (O&M) cost/savings are not calculated beyond 2009 until project developments become known.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	455	765	104	0	0	0	0	0	1,323
Project Total:	455	765	104	0	0	0	0	0	1,323
Fund Appropriations/Allocations									
Water Fund	455	765	104	0	0	0	0	0	1,323
Appropriations Total*	455	765	104	0	0	0	0	0	1,323
O & M Costs (Savings)			1	N/C	N/C	N/C	N/C	N/C	1
Spending Plan		0	104	0	0	0	0	0	104

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

SPU - Water

Water Quality Equipment

BCL/Program Name: Water Quality & Treatment

BCL/Program Code: C140B

Project Type: Improved Facility

Start Date: 1st Quarter 2007

Project ID: C107020

End Date: 4th Quarter 2011

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project installs water quality monitoring equipment throughout the drinking water distribution system. This project enhances SPU's drinking water quality, security, and public health surveillance system. This project 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.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	19	102	260	379	11	0	0	0	772
Project Total:	19	102	260	379	11	0	0	0	772
Fund Appropriations/Allocations									
Water Fund	19	102	260	379	11	0	0	0	772
Appropriations Total*	19	102	260	379	11	0	0	0	772
O & M Costs (Savings)			0	0	30	30	30	30	120
Spending Plan		0	260	379	11	0	0	0	650

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

Water Supply Flexibility Program

BCL/Program Name: Water Resources **BCL/Program Code:** C150B
Project Type: New Investment **Start Date:** 1st Quarter 2008
Project ID: C1507 **End Date:** 4th Quarter 2014

Location: Multiple

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** 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 delayed between 2010 and 2013. Operating & Maintenance (O&M) cost/savings not calculated beyond 2011 until program developments become known.

	LTD	2008	2009	2010	2011	2012	2013	2014	Total
	Actuals								
Revenue Sources									
Water Rates	0	438	64	7	0	0	641	3,014	4,163
Project Total:	0	438	64	7	0	0	641	3,014	4,163
Fund Appropriations/Allocations									
Water Fund	0	438	64	7	0	0	641	3,014	4,163
Appropriations Total*	0	438	64	7	0	0	641	3,014	4,163
O & M Costs (Savings)			5	10	N/C	N/C	N/C	N/C	15
Spending Plan		250	64	7	0	0	641	3,014	3,976

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SPU - Water

Water System Dewatering

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2007
Project ID: C1205 **End Date:** Ongoing

Location: Regional

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	48	14	205	217	217	225	233	241	1,402
Project Total:	48	14	205	217	217	225	233	241	1,402
Fund Appropriations/Allocations									
Water Fund	48	14	205	217	217	225	233	241	1,402
Appropriations Total*	48	14	205	217	217	225	233	241	1,402
O & M Costs (Savings)			5	5	5	5	5	5	30
Spending Plan		59	205	217	217	225	233	241	1,398

Water System Plan - 2013

BCL/Program Name: Water Resources **BCL/Program Code:** C150B
Project Type: New Investment **Start Date:** 3rd Quarter 2009
Project ID: C113001 **End Date:** 3rd Quarter 2013

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: 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.

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	0	0	50	102	474	797	24	0	1,446
Project Total:	0	0	50	102	474	797	24	0	1,446
Fund Appropriations/Allocations									
Water Fund	0	0	50	102	474	797	24	0	1,446
Appropriations Total*	0	0	50	102	474	797	24	0	1,446
O & M Costs (Savings)			0	0	0	0	0	0	0

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SPU - Water

Watermain Rehabilitation

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2004
Project ID: C1129 **End Date:** Ongoing

Location: Regional

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

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

	LTD Actuals	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	1,223	1,141	100	500	1,000	7,093	10,983	15,312	37,352
Project Total:	1,223	1,141	100	500	1,000	7,093	10,983	15,312	37,352
Fund Appropriations/Allocations									
Water Fund	1,223	1,141	100	500	1,000	7,093	10,983	15,312	37,352
Appropriations Total*	1,223	1,141	100	500	1,000	7,093	10,983	15,312	37,352
O & M Costs (Savings)			10	10	10	10	10	10	60

Watershed Road Improvement/Decommissioning

BCL/Program Name: Habitat Conservation Program **BCL/Program Code:** C160B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2001
Project ID: C1601 **End Date:** Ongoing

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: 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	2008	2009	2010	2011	2012	2013	2014	Total
Revenue Sources									
Water Rates	6,437	846	884	921	920	952	985	1,020	12,965
Project Total:	6,437	846	884	921	920	952	985	1,020	12,965
Fund Appropriations/Allocations									
Water Fund	6,437	846	884	921	920	952	985	1,020	12,965
Appropriations Total*	6,437	846	884	921	920	952	985	1,020	12,965
O & M Costs (Savings)			50	50	50	50	50	50	300
Spending Plan		846	884	921	920	952	985	1,020	6,528

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