

**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 Combined Sewer Overflow Reduction Plan and the Comprehensive Drainage Plan.

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

Highlights

- **Combined Sewer Overflow (CSO) Program:** Approximately \$10 million is included in the 2008 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 2008-2013 Adopted CIP respond to federal 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. Several cost-effective master planning efforts were approved to create up-to-date improvement and upgrade plans for several groups of assets. Other projects have been expanded or expedited because the benefits exceeded the costs.

Program Category Summaries

The Adopted Drainage and Wastewater CIP totals approximately \$77.8 million in 2008 (including Technology projects funded by the Drainage and Wastewater Fund, displayed in a separate section of this CIP), or \$3.1 million higher than the 2008 Endorsed Budget. In the Control Structures BCL, increases are caused by delays to the Windermere CSO Storage and S. Genesee CSO projects, as well as property acquisition costs for Windermere. The CSO Facility Retrofit project is to be accelerated, completing twice as many improvements as originally planned during 2008. In the Wastewater Conveyance BCL, the budget for the Point Sewer Rehab–Contractor program is increased to complete point rehabilitation of critical pipes that cannot be completed by SPU Field Crews in 2008. In the Stormwater & Flood Control BCL, the overall increase in 2008 is a result of three large flood control and water quality projects moving into construction: 4th Ave. S/S Trenton Storm Drain, MLK Way/Norfolk Street Storm Improvement, and Georgetown Flume Drainage Improvements, and increased costs for the Madison Valley Long-Term Solution project. Costs have also increased for the Thornton Creek Water Quality Channel project in the Protection of Beneficial Uses BCL, which is set to begin construction in 2008 after some delays.

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.

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.

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.

SPU – Drainage & Wastewater

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.

Shared Cost Projects: This program includes capital improvement projects that receive funding from multiple SPU funds. In 2008, the program includes funding for the Utility Relocation due to the Alaskan Way Viaduct & Seawall, 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.

Technology: 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.

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.

Anticipated Operating Expenses Associated with Capital Facilities Projects

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

City Council Provisos to the CIP

Of the money appropriated for 2008 for the Seattle Public Utilities (SPU) Control Structures BCL, no more than \$50,000 may be spent for Post-Construction Monitoring (Project ID C307003) and no more than \$200,000 may be spent for the Combined Sewer Overflow Operations & Maintenance Plan (Project ID C307005), until authorized by a future ordinance.

Of the money appropriated for 2008 for the Seattle Public Utilities (SPU) Wastewater Conveyance BCL, no more than \$346,000 may be spent for Design Standards & Guidelines - WW (Project ID C305201), until authorized by a future ordinance.

Of the money appropriated for 2008 for the Seattle Public Utilities (SPU) Landslide Mitigation & Special Programs BCL, no more than \$210,000 may be spent for Design Standards & Guidelines - DRN (Project ID C353501), until authorized by a future ordinance.

Of the money appropriated for 2008 for the Seattle Public Utilities (SPU) Protection of Beneficial Uses BCL, no more than \$93,000 may be spent for the Creeks Vegetation Program (Project ID C353304), until authorized by a future ordinance.

SPU – Drainage & Wastewater

In addition to the restrictions imposed in Section 4(c) of the ordinance adopting a 2008 budget and elsewhere, no more than \$1,850,000 of the money appropriated for 2008 for the Seattle Public Utilities (SPU) Stormwater & Flood Control BCL may be spent for the Madison Valley Long Term Solution (Project ID C307014), until authorized by a future ordinance. Council anticipates that such authority will not be granted until SPU reports to the Council before the start of construction on:

- How it gathered and incorporated community input;
- How any above-ground stormwater facility will include design elements to integrate the project into the surrounding neighborhood; and
- How the project, including mitigation and neighborhood design elements will be funded, and whether additional funding is needed to accomplish the full project scope.

The amounts appropriated in 2007 related to two Madison Valley property purchases are not subject to this proviso, even if spending for those purchases extends into 2008.

Of the appropriation for 2008 for the Seattle Public Utilities (SPU) Sediments BCL, \$100,000 is appropriated solely for investigating sources of phthalates, the risk relationships between phthalates and other contaminants, and strategies for phthalate clean-up and removal or substitution of phthalate-containing products, and may be spent for no other purpose. The investigation should be consistent with the recommendations of the local Sediment Phthalates Work Group and sponsored by the Washington Department of Ecology or the United States Environmental Protection Agency.

SPU - Drainage & Wastewater

Project Summary

| BCL/Program Name & Project | Project ID | Life To Date | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|------------|--------------|------|-------|-------|--------------------------|-------|-------|-------|---------------|
| Control Structures | | | | | | BCL/Program Code: | | | | C310B |
| Ballard Combined Sewer Overflow | C303101 | 0 | 0 | 309 | 282 | 239 | 589 | 1,017 | 407 | 2,843 |
| Capital Planning - CSO Plan Implementation | C305101 | 588 | 385 | 189 | 263 | 269 | 276 | 282 | 289 | 2,541 |
| Capital Planning Pump Stations | C307011 | 0 | 267 | 72 | 74 | 75 | 77 | 79 | 1 | 645 |
| Combined Sewer Overflow Facility Retrofit | C302102 | 3,532 | 709 | 2,092 | 2,209 | 2,263 | 2,316 | 2,370 | 1 | 15,492 |
| Combined Sewer Overflow Operations & Maintenance Plan | C307005 | 0 | 411 | 200 | 368 | 377 | 386 | 0 | 0 | 1,742 |
| Combined Sewer Overflow Plan Update | C3AA103 | 2,472 | 703 | 491 | 105 | 108 | 55 | 0 | 0 | 3,934 |
| Combined Sewer Overflow Reporting/Public Notice | C307008 | 0 | 115 | 45 | 0 | 0 | 0 | 0 | 0 | 160 |
| Combined Sewer Overflow Structure Configuration Management | C306101 | 0 | 116 | 71 | 0 | 0 | 0 | 0 | 0 | 187 |
| Combined Sewer Overflow Supplemental Characterization | C307006 | 0 | 80 | 445 | 421 | 5 | 0 | 0 | 0 | 951 |
| Fremont-Wallingford Combined Sewer Overflow | C303102 | 0 | 0 | 348 | 265 | 222 | 1,077 | 1,828 | 1,024 | 4,764 |
| Future Combined Sewer Overflow Reduction | C309002 | 0 | 0 | 1 | 789 | 808 | 1,103 | 3,386 | 5,778 | 11,865 |
| Post-Construction Monitoring | C307003 | 0 | 59 | 50 | 0 | 108 | 110 | 113 | 116 | 556 |
| Pump Station and Force Main Improvements | C3102 | 853 | 661 | 1,353 | 1,798 | 1,832 | 1,875 | 1,919 | 1,964 | 12,255 |
| Pump Station Optimization Study | C307012 | 0 | 0 | 0 | 105 | 54 | 0 | 0 | 0 | 159 |
| S Genesee Combined Sewer Overflow | C303103 | 533 | 743 | 1,349 | 1,104 | 1,024 | 5,955 | 9,482 | 3,582 | 23,772 |

**Amounts in thousands of dollars*

2008-2013 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Project Summary

| BCL/Program Name & Project | Project ID | Life To Date | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|---|------------|--------------|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Control Structures | | | BCL/Program Code: | | | | | | | C310B |
| S Henderson Combined Sewer Overflow Storage | C304102 | 622 | 477 | 1,283 | 833 | 3,318 | 4,784 | 13,559 | 8,851 | 33,727 |
| Sediment Survey | C307007 | 0 | 107 | 8 | 0 | 0 | 0 | 0 | 0 | 115 |
| Windermere Combined Sewer Overflow Storage | C302103 | 1,339 | 855 | 2,260 | 5,167 | 5,416 | 244 | 60 | 0 | 15,341 |
| Control Structures Total | | 9,939 | 5,688 | 10,566 | 13,783 | 16,118 | 18,847 | 34,095 | 22,013 | 131,049 |

*Amounts in thousands of dollars

2008-2013 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Project Summary

| BCL/Program Name & Project | Project ID | Life To Date | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|------------|--------------|--------------|--------------|--------------|--------------------------|--------------|--------------|--------------|---------------|
| Landslide Mitigation & Special Programs | | | | | | BCL/Program Code: | | | | C335B |
| 1500 - 2600 Aurora N Landslide | C363401 | 7 | 1 | 1 | 53 | 65 | 198 | 1,129 | 0 | 1,454 |
| 47 SW & SW Maplewood Place Landslide | C363402 | 9 | 1 | 1 | 43 | 111 | 116 | 650 | 0 | 931 |
| Aquatic Habitat Matching Grant Project | C353301 | 54 | 556 | 424 | 436 | 447 | 458 | 468 | 480 | 3,323 |
| Capital Planning - Public Asset Protection | C343401 | 251 | 463 | 181 | 502 | 431 | 193 | 790 | 251 | 3,062 |
| Design Standards & Guidelines - DRN | C353501 | 666 | 449 | 210 | 0 | 0 | 0 | 0 | 0 | 1,325 |
| Drainage & Wastewater Partnership Program - DRN | C3335 | 0 | 350 | 359 | 158 | 162 | 198 | 1,467 | 1,502 | 4,196 |
| Drainage Spot Improvements | C333201 | 1,072 | 296 | 219 | 263 | 269 | 276 | 282 | 289 | 2,966 |
| Golden Gardens/View Avenue Landslide | C343403 | 160 | 293 | 1 | 0 | 0 | 0 | 0 | 0 | 454 |
| Greenwood Peat Bog | C333207 | 254 | 25 | 25 | 114 | 0 | 0 | 0 | 0 | 418 |
| Intergovernmental Shares - DRN | C3355 | 375 | 1,975 | 1,873 | 0 | 0 | 0 | 0 | 0 | 4,223 |
| Mobility Improvement | C333514 | 900 | 308 | 309 | 316 | 323 | 331 | 339 | 347 | 3,173 |
| Neighborhood Drainage/Climate Bonus Matching Grant Project | C307020 | 0 | 150 | 156 | 158 | 162 | 165 | 169 | 173 | 1,133 |
| Salmon Bay Phase 2 Acquisition & Restoration | C333307 | 580 | 106 | 1 | 1 | 1 | 0 | 0 | 0 | 689 |
| Small Landslide Projects | C3325 | 999 | 578 | 504 | 947 | 1,138 | 448 | 1,869 | 718 | 7,201 |
| SW Prescott/Admiral Landslide | C302353 | 636 | 1 | 1 | 316 | 22 | 0 | 0 | 0 | 976 |
| Works Progress Administration Drains Study & Repair | C3315 | 724 | 301 | 257 | 473 | 539 | 276 | 282 | 359 | 3,211 |
| Landslide Mitigation & Special Programs Total | | 6,687 | 5,853 | 4,522 | 3,780 | 3,670 | 2,659 | 7,445 | 4,119 | 38,735 |

*Amounts in thousands of dollars

2008-2013 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Project Summary

| BCL/Program Name & Project | Project ID | Life To Date | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|------------|---------------|--------------|--------------|--------------|--------------------------|--------------|--------------|--------------|---------------|
| Low Impact Development | | | | | | BCL/Program Code: | | | | C334B |
| 3rd Ave. NW & NW 107th Street Natural System | C300329 | 5,093 | 94 | 1 | 0 | 0 | 0 | 0 | 0 | 5,188 |
| Capital Planning – Low Impact Development | C307017 | 0 | 321 | 141 | 131 | 135 | 138 | 141 | 144 | 1,151 |
| Capitol Hill Water Quality Project | C306001 | 1 | 753 | 1,963 | 1,177 | 833 | 882 | 181 | 173 | 5,963 |
| Creek Flow Control Implementation | C310001 | 0 | 0 | 0 | 526 | 539 | 3,308 | 2,427 | 347 | 7,147 |
| High Point Drainage System | C301303 | 2,654 | 876 | 721 | 168 | 108 | 83 | 0 | 0 | 4,610 |
| Natural Drainage System Improvements | C333206 | 527 | 169 | 122 | 421 | 539 | 551 | 2,709 | 3,467 | 8,505 |
| Pinehurst Natural Drainage System | C333202 | 4,986 | 30 | 85 | 50 | 0 | 0 | 0 | 0 | 5,151 |
| Venema Creek Natural Drainage System | C302317 | 657 | 309 | 151 | 253 | 2,780 | 1,812 | 124 | 127 | 6,213 |
| Watershed Base Creek Flow Control | C353310 | 109 | 71 | 282 | 210 | 0 | 0 | 0 | 0 | 672 |
| Low Impact Development Total | | 14,027 | 2,623 | 3,466 | 2,936 | 4,934 | 6,774 | 5,582 | 4,258 | 44,600 |

*Amounts in thousands of dollars

2008-2013 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Project Summary

| BCL/Program Name & Project | Project ID | Life To Date | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|------------|--------------|--------------------------|--------------|---------------|--------------|--------------|--------------|--------------|---------------|
| Protection of Beneficial Uses | | | BCL/Program Code: | | | | | | | C333B |
| Beer Sheva Habitat Improvement | C301319 | 159 | 23 | 45 | 37 | 11 | 11 | 11 | 0 | 297 |
| Best Management Practice Program | C3313 | 1,033 | 595 | 1,429 | 7,543 | 2,160 | 2,133 | 2,183 | 1,964 | 19,040 |
| Bitter Lake/N 137th Stormwater | C301322 | 14 | 26 | 1 | 26 | 27 | 132 | 452 | 1,000 | 1,678 |
| Capital Planning - Protection of Beneficial Uses | C343301 | 904 | 285 | 356 | 415 | 48 | 44 | 45 | 46 | 2,143 |
| Citywide Source Control | C363501 | 74 | 103 | 0 | 0 | 0 | 0 | 0 | 0 | 177 |
| Creeks Habitat Complexity Program | C353302 | 383 | 97 | 79 | 87 | 91 | 116 | 119 | 116 | 1,088 |
| Creeks Vegetation Program | C353304 | 267 | 185 | 93 | 168 | 178 | 185 | 191 | 185 | 1,452 |
| Fecal TMDL Feasibility | C343302 | 108 | 100 | 41 | 0 | 0 | 0 | 0 | 0 | 249 |
| Fish Passage Program | C353305 | 137 | 7 | 1 | 60 | 81 | 165 | 169 | 185 | 805 |
| Greenwood Water Quality Best Management Practice | C353306 | 23 | 0 | 410 | 0 | 0 | 0 | 0 | 0 | 433 |
| Seattle Housing Authority Integrated Drainage Plan | C363301 | 95 | 356 | 337 | 652 | 280 | 0 | 0 | 0 | 1,720 |
| Taylor Creek Culverts Phase 2 | C399315 | 739 | 221 | 601 | 26 | 11 | 11 | 0 | 0 | 1,609 |
| Taylor Creek Fish Habitat Improvements | C308003 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Thornton Creek Water Quality Channel Project | C343306 | 2,451 | 6,481 | 3,257 | 1,136 | 185 | 95 | 0 | 0 | 13,605 |
| Protection of Beneficial Uses Total | | 6,387 | 8,479 | 6,651 | 10,150 | 3,072 | 2,892 | 3,170 | 3,496 | 44,297 |
| Sediments | | | BCL/Program Code: | | | | | | | C350B |
| Sediment Remediation - DRN | C3501 | 4,513 | 3,393 | 3,254 | 3,020 | 1,740 | 108 | 8 | 16 | 16,052 |
| Sediment Remediation - WW | C3502 | 3,635 | 1,416 | 992 | 549 | 51 | 6 | 5 | 1 | 6,655 |
| Sediments Total | | 8,148 | 4,809 | 4,246 | 3,569 | 1,791 | 114 | 13 | 17 | 22,707 |

*Amounts in thousands of dollars

2008-2013 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Project Summary

| BCL/Program Name & Project | Project ID | Life To Date | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|---|---------------|--------------|-------|-------|-------|--------------------------|-------|-------|-------|---------------|
| Shared Cost Projects | | | | | | BCL/Program Code: | | | | C410B |
| 1% for Art – DWF | C4118 - DWF | 595 | 564 | 282 | 399 | 294 | 164 | 205 | 152 | 2,655 |
| 2006 Storms Capital Program - DWF | C4120-DWF | 0 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 200 |
| Bridging the Gap Program-DWF | C4119-DWF | 0 | 0 | 1,560 | 1,609 | 455 | 470 | 485 | 501 | 5,080 |
| Climate Protection - DWF | C407S01-DWF | 0 | 77 | 124 | 115 | 118 | 120 | 123 | 126 | 803 |
| Demand Management | C407019 | 0 | 600 | 600 | 600 | 1,923 | 2,040 | 2,166 | 0 | 7,929 |
| Heavy Equipment Purchases - DWF | C4116-DWF | 0 | 1,824 | 4,534 | 1,645 | 1,233 | 1,555 | 1,799 | 1,666 | 14,256 |
| I-5 Pavement Reconstruction - DWF | C407022-DWF | 0 | 132 | 139 | 150 | 163 | 167 | 180 | 168 | 1,099 |
| Integrated Control Monitoring Program - DWF | C4108-DWF | 2 | 1,446 | 3,775 | 2,980 | 3,297 | 3,727 | 3,934 | 4,157 | 23,318 |
| King Street Station Rehabilitation | C408S05 | 0 | 0 | 308 | 0 | 0 | 0 | 0 | 0 | 308 |
| Meter Replacement - DWF | C4101-DWF | 2,038 | 530 | 577 | 505 | 517 | 529 | 542 | 556 | 5,794 |
| Operational Facility - Construction - DWF | C4106-DWF | 2,457 | 1,823 | 867 | 885 | 907 | 869 | 890 | 913 | 9,611 |
| Operational Facility - Other - DWF | C4115-DWF | 146 | 626 | 71 | 65 | 67 | 10 | 10 | 10 | 1,005 |
| Operations Control Center - DWF | C4105-DWF | 1,610 | 640 | 85 | 377 | 45 | 0 | 0 | 0 | 2,757 |
| Security Improvements - DWF | C4113-DWF | 7 | 718 | 518 | 631 | 647 | 662 | 677 | 0 | 3,860 |
| Sound Transit – University Link - DWF | C4110-DWF | 9 | 95 | 237 | 233 | 0 | 0 | 0 | 0 | 574 |
| Sound Transit Central Link - DWF | C4104-DWF | 1,911 | 435 | 323 | 0 | 0 | 0 | 0 | 0 | 2,669 |
| Sound Transit Integrated Drainage Plan | C405001 | 86 | 242 | 360 | 484 | 480 | 0 | 0 | 0 | 1,652 |
| South Lake Union - DWF | C4114-DWF | 0 | 137 | 144 | 8 | 0 | 0 | 0 | 0 | 289 |
| South Lander Grade Separation - DWF | C408S03 - DWF | 0 | 0 | 206 | 211 | 217 | 222 | 0 | 0 | 856 |
| Spokane Street Viaduct - DWF | C407023-DWF | 0 | 132 | 600 | 0 | 0 | 0 | 0 | 0 | 732 |

*Amounts in thousands of dollars

2008-2013 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Project Summary

| BCL/Program Name & Project | Project ID | Life To Date | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|---|---------------|---------------|---------------|---------------|---------------|--------------------------|---------------|---------------|--------------|---------------|
| Shared Cost Projects | | | | | | BCL/Program Code: | | | | C410B |
| SR 519 Interchange - DWF | C408S04 - DWF | 0 | 0 | 206 | 211 | 217 | 222 | 0 | 0 | 856 |
| SR-520 Bridge Replacement - DWF | C407021- DWF | 0 | 132 | 139 | 150 | 163 | 176 | 191 | 168 | 1,119 |
| Utility Relocation due to Alaskan Way Viaduct and Seawall Replacement - DWF | C4102- DWF | 1,476 | 3,247 | 2,310 | 2,882 | 0 | 0 | 0 | 0 | 9,915 |
| Shared Cost Projects Total | | 10,337 | 13,500 | 18,065 | 14,140 | 10,743 | 10,933 | 11,202 | 8,417 | 97,337 |
| Stormwater & Flood Control | | | | | | BCL/Program Code: | | | | C332B |
| 14th Ave S Drainage Improvements | C308006 | 0 | 0 | 500 | 151 | 0 | 0 | 0 | 0 | 651 |
| 4th Avenue S/S Trenton Storm Drain | C353202 | 777 | 793 | 3,618 | 4,641 | 1,258 | 79 | 81 | 0 | 11,247 |
| Capital Planning - Flood Control & Local Drainage | C343201 | 1,364 | 414 | 289 | 316 | 323 | 331 | 339 | 347 | 3,723 |
| Georgetown Flume Drainage Improvements | C307019 | 3 | 209 | 1,023 | 0 | 0 | 0 | 0 | 0 | 1,235 |
| Jackson Park Detention - Phase 2 | C399305 | 10,664 | 123 | 38 | 53 | 0 | 0 | 0 | 0 | 10,878 |
| Linden Avenue N. Drainage | C308007 | 0 | 0 | 0 | 500 | 500 | 0 | 0 | 0 | 1,000 |
| Localized Flood Control Program | C3312 | 684 | 250 | 1,081 | 216 | 1,137 | 868 | 4,874 | 4,738 | 13,848 |
| Madison Valley Long Term Solution | C307014 | 1 | 3,172 | 3,725 | 15,776 | 12,931 | 110 | 56 | 58 | 35,829 |
| Meadowbrook Outfall Rehabilitation | C353206 | 446 | 2,643 | 22 | 0 | 0 | 0 | 0 | 0 | 3,111 |
| MLK Way/Norfolk Street Storm Improvement | C333205 | 1,081 | 585 | 3,059 | 68 | 48 | 50 | 0 | 0 | 4,891 |
| N 125th & Aurora N Storm Drain | C302313 | 916 | 403 | 567 | 484 | 460 | 0 | 0 | 0 | 2,830 |
| Stormwater & Flood Control Total | | 15,936 | 8,592 | 13,922 | 22,205 | 16,657 | 1,438 | 5,350 | 5,143 | 89,243 |

*Amounts in thousands of dollars

2008-2013 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Project Summary

| BCL/Program Name & Project | Project ID | Life To Date | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|------------|---------------|--------------|---------------|---------------|--------------------------|---------------|---------------|---------------|----------------|
| Wastewater Conveyance | | | | | | BCL/Program Code: | | | | C320B |
| Design Standards & Guidelines - WW | C305201 | 130 | 281 | 346 | 0 | 0 | 0 | 0 | 0 | 757 |
| Drainage & Wastewater Partnership Program - WW | C3203 | 0 | 50 | 17 | 1 | 1 | 1 | 1 | 1 | 72 |
| Intergovernmental Shares - WW | C3205 | 251 | 300 | 308 | 0 | 0 | 0 | 0 | 0 | 859 |
| Lakewood Raincatcher Pilot Project | C305202 | 428 | 551 | 523 | 170 | 60 | 64 | 49 | 58 | 1,903 |
| Linden Ave N/N 143 St - Sewer Improvements | C308008 | 0 | 0 | 0 | 500 | 0 | 0 | 0 | 0 | 500 |
| Minor Facility Upgrades - Rehabilitation | C3AA402 | 103 | 96 | 90 | 100 | 108 | 116 | 124 | 116 | 853 |
| No Dig Pipe & Maintenance Rehabilitation | C3AA403 | 6,597 | 1,346 | 3,200 | 2,773 | 2,164 | 2,769 | 2,834 | 3,582 | 25,265 |
| Point Sewer Pipe Rehabilitation - Contract | C303401 | 1,908 | 1,078 | 1,218 | 889 | 1,078 | 1,103 | 1,129 | 1,078 | 9,481 |
| Point Sewer Pipe Rehabilitation - Crews | C303402 | 11,534 | 2,410 | 2,830 | 3,210 | 3,718 | 4,399 | 4,177 | 3,582 | 35,860 |
| Sanitary Sewer Overflow Capacity | C302205 | 569 | 243 | 1,071 | 1,133 | 1,190 | 1,199 | 1,227 | 1,271 | 7,903 |
| Sewage System Model | C308005 | 0 | 0 | 1,275 | 968 | 560 | 353 | 124 | 0 | 3,280 |
| Sewer Emergency Rehabilitation | C3AA404 | 3,882 | 677 | 641 | 631 | 700 | 717 | 734 | 751 | 8,733 |
| Sewer Full Line Replacements | C3202 | 371 | 145 | 357 | 375 | 404 | 434 | 458 | 462 | 3,006 |
| Small Sewer Improvements | C303299 | 280 | 175 | 179 | 452 | 679 | 713 | 730 | 289 | 3,497 |
| Taylor Creek Sewer Facility Stabilization | C308004 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Wastewater Rehabilitation Evaluation | C3AA401 | 1,614 | 258 | 252 | 526 | 323 | 358 | 395 | 578 | 4,304 |
| Water Reuse - Wastewater | C301203 | 476 | 97 | 44 | 0 | 0 | 0 | 0 | 0 | 617 |
| Wastewater Conveyance Total | | 28,143 | 7,707 | 12,352 | 11,728 | 10,985 | 12,226 | 11,982 | 11,768 | 106,891 |

*Amounts in thousands of dollars

2008-2013 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Project Summary

| BCL/Program Name & Project | Project ID | Life To Date | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|-------------------------------|------------|-----------------|--------|--------|--------|--------|--------|--------|--------|---------|
| Department Total | | 99,604 | 57,251 | 73,790 | 82,291 | 67,970 | 55,883 | 78,839 | 59,231 | 574,859 |

**Amounts in thousands of dollars*

2008-2013 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Fund Summary

| Fund Name | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Drainage and Wastewater Fund | 99,604 | 57,251 | 73,790 | 82,291 | 67,970 | 55,883 | 78,839 | 59,231 | 574,859 |
| Department Total | 99,604 | 57,251 | 73,790 | 82,291 | 67,970 | 55,883 | 78,839 | 59,231 | 574,859 |

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

**Amounts in thousands of dollars*

2008-2013 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: 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 program provides the budget for the Drainage and Wastewater Fund portion of the 1% for Arts contribution to the Municipal Arts Fund (MAF) for use in public art projects. The 1% funds deposited in the MAF shall be spent by the Office of Arts and Cultural Affairs (OACA) on art projects that are in the City's Municipal Arts Plan (MAP), which is prepared annually by OACA and approved by the Mayor. Seattle Public Utilities (SPU) contributes 1% of all eligible CIP project budget annually.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 595 | 564 | 282 | 399 | 294 | 164 | 205 | 152 | 2,655 |
| Project Total: | 595 | 564 | 282 | 399 | 294 | 164 | 205 | 152 | 2,655 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 595 | 564 | 282 | 399 | 294 | 164 | 205 | 152 | 2,655 |
| Appropriations Total* | 595 | 564 | 282 | 399 | 294 | 164 | 205 | 152 | 2,655 |
| O & M Costs (Savings) | | | 11 | 11 | 11 | 11 | 11 | 11 | 65 |

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/Dallas Ave S/S Director St

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Southwest **Urban Village:** South Park

This project will identify and implement a solution to meet Stormwater Flow Control requirements for the SDOT 14th Avenue South Street Improvement project. Work will include design and installation of new catch basins and drainage inlet where no such existing facilities existed with the SDOT project footprint.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 0 | 500 | 151 | 0 | 0 | 0 | 0 | 651 |
| Project Total: | 0 | 0 | 500 | 151 | 0 | 0 | 0 | 0 | 651 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 0 | 500 | 151 | 0 | 0 | 0 | 0 | 651 |
| Appropriations Total* | 0 | 0 | 500 | 151 | 0 | 0 | 0 | 0 | 651 |
| O & M Costs (Savings) | | | 0 | 0 | 3 | 3 | 3 | 3 | 13 |

**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

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 2012 |

Location: Aurora Ave. N

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Magnolia/Queen Anne

Urban Village: Not in an Urban Village

Three combined sewer lines traverse a steep slope down to Aurora Ave. N at the northeast corner of Queen Anne Hill. Preliminary analysis determined these three lines were at risk of damage due to landslides. This project installs the combined sewer lines deeper in the hillside to protect them from landslide damage, possibly using directional drilling techniques. The project also improves the method for collecting stormwater from the nearby streets to reduce the risk of landslides. This project is in a preliminary phase of development, and cost estimates will be revised over time. This project is delayed until 2009.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|-------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 7 | 1 | 1 | 53 | 65 | 198 | 1,129 | 0 | 1,454 |
| Project Total: | 7 | 1 | 1 | 53 | 65 | 198 | 1,129 | 0 | 1,454 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 7 | 1 | 1 | 53 | 65 | 198 | 1,129 | 0 | 1,454 |
| Appropriations Total* | 7 | 1 | 1 | 53 | 65 | 198 | 1,129 | 0 | 1,454 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 7 | 7 |

**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

2006 Storms Capital Program - 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: 4th Quarter 2008 |

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 makes capital improvements to drainage and wastewater infrastructure damaged by the 2006 winter storms, which were declared a federal emergency. The majority of this work will repair and mitigate landslides that occurred and that may occur in the future, as well as restore a detention pond damaged by the storm. This work will be reimbursed by the Federal Emergency Management Agency (FEMA).

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 200 |
| Project Total: | 0 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 200 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 200 |
| Appropriations Total* | 0 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 200 |
| 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.*

SPU - Drainage & Wastewater

3rd Ave. NW & NW 107th Street Natural System

| | |
|---|-------------------------------------|
| BCL/Program Name: Low Impact Development | BCL/Program Code: C334B |
| Project Type: Improved Facility | Start Date: 4th Quarter 2000 |
| Project ID: C300329 | End Date: 1st Quarter 2008 |

Location: 2nd ave nw/NW 117th St/120th St NW

Neighborhood Plan: Broadview-Bitter Lake-Haller Lake **Neighborhood Plan Matrix:** A-9,A-10, A-11

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

This project addresses stormwater management using a "natural system" approach that promotes sustainable drainage design. The project minimizes the use of standard engineered stormwater infrastructure, using the unimproved right-of-way as a starting point for design. The project includes construction of an engineered system of stepped pools to detain runoff, filter pollutants, and allow maximum opportunity for infiltration; construction of a sidewalk on the south side of 3rd Ave. NW and NW 107th to provide safe pedestrian access to a nearby elementary school; creation of natural drainage system features within the right-of-way; and the use of vegetation for both stormwater management and aesthetic appeal. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments. It was scheduled to be complete at the end of 2007, but with potential delays, it is being included in the 2008-2013 CIP.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 5,093 | 94 | 1 | 0 | 0 | 0 | 0 | 0 | 5,188 |
| Project Total: | 5,093 | 94 | 1 | 0 | 0 | 0 | 0 | 0 | 5,188 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 5,093 | 94 | 1 | 0 | 0 | 0 | 0 | 0 | 5,188 |
| Appropriations Total* | 5,093 | 94 | 1 | 0 | 0 | 0 | 0 | 0 | 5,188 |
| O & M Costs (Savings) | | | 7 | 7 | 7 | 7 | 7 | 7 | 42 |
| Spending Plan | | 87 | 1 | 0 | 0 | 0 | 0 | 0 | 88 |

**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

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 2012 |

Location: 47th Ave SW/Maplewood Pl 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, which was identified during the Comprehensive Drainage Planning process, evaluates an existing storm drain system that traverses a steep slope between 47th Ave. SW and SW Maplewood Pl., and street runoff that is currently routed through a private drainage system. The project constructs measures to stabilize the slope where the storm drain is located, while rerouting street runoff from a private drainage system and outfall to an existing SPU storm drain system. This project is in a preliminary phase of development, and cost estimates will be revised over time. This project is delayed until 2009.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 9 | 1 | 1 | 43 | 111 | 116 | 650 | 0 | 931 |
| Project Total: | 9 | 1 | 1 | 43 | 111 | 116 | 650 | 0 | 931 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 9 | 1 | 1 | 43 | 111 | 116 | 650 | 0 | 931 |
| Appropriations Total* | 9 | 1 | 1 | 43 | 111 | 116 | 650 | 0 | 931 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 5 | 5 |

**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 2012

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 installs approximately 1,400 linear feet of conveyance improvements along S Trenton St., 3rd Ave. S and 4th Ave. S, and approximately 2,700 linear feet of conveyance improvements along S Director St. and 7th Ave. S, to resolve a number of documented flooding problems in these areas. 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. A pump station will be installed as a separate construction contract to convey storm water runoff to the Duwamish River during high tide events. The pump station addresses flooding in the primarily industrial neighborhood south of the Duwamish River. This project has been approved by SPU's Asset Management Committee. The confidence level in the current cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|-------|-------|-------|------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 777 | 793 | 3,618 | 4,641 | 1,258 | 79 | 81 | 0 | 11,247 |
| Project Total: | 777 | 793 | 3,618 | 4,641 | 1,258 | 79 | 81 | 0 | 11,247 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 777 | 793 | 3,618 | 4,641 | 1,258 | 79 | 81 | 0 | 11,247 |
| Appropriations Total* | 777 | 793 | 3,618 | 4,641 | 1,258 | 79 | 81 | 0 | 11,247 |
| O & M Costs (Savings) | | | 0 | 36 | 72 | 72 | 36 | 36 | 252 |
| Spending Plan | | 700 | 3,618 | 4,641 | 1,258 | 79 | 81 | 0 | 10,377 |

**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

Aquatic Habitat Matching Grant Project

| | |
|--|-------------------------------------|
| BCL/Program Name: Landslide Mitigation & Special Programs | BCL/Program Code: C335B |
| Project Type: New Facility | Start Date: 1st Quarter 2005 |
| Project ID: C353301 | 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 matching grant program provides funding to support community-based projects that improve, preserve and restore aquatic habitat in creeks or along creek, marine or lake shorelines. Projects must provide a direct public benefit to aquatic habitat affected by the City's drainage system operation, and be matched dollar-for-dollar with volunteer labor, cash, donated materials and services, and/or non-City funds. This project was added to the 2005-2010 Adopted CIP by Council action. Grant projects must meet legal requirements for use of drainage and wastewater funds. Resolution 30719 describes grant application criteria and procedures, as well as eligible projects, which may include removal of fish passage blockages, removal of non-native invasive plant species from aquatic habitats, restoration of native plant species, riparian vegetation and natural aquatic habitat features and complexity, removal of bank armoring, and re-establishment of creek connectivity.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 54 | 556 | 424 | 436 | 447 | 458 | 468 | 480 | 3,323 |
| Project Total: | 54 | 556 | 424 | 436 | 447 | 458 | 468 | 480 | 3,323 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 54 | 556 | 424 | 436 | 447 | 458 | 468 | 480 | 3,323 |
| Appropriations Total* | 54 | 556 | 424 | 436 | 447 | 458 | 468 | 480 | 3,323 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 200 | 424 | 436 | 447 | 458 | 468 | 480 | 2,913 |

**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

Ballard Combined Sewer Overflow

| | |
|---|-------------------------------------|
| BCL/Program Name: Control Structures | BCL/Program Code: C310B |
| Project Type: New Facility | Start Date: 1st Quarter 2008 |
| Project ID: C303101 | End Date: 1st Quarter 2020 |

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Ballard

Urban Village: Not in an Urban Village

This project constructs Combined Sewer Overflow (CSO) reduction facilities in the Ballard area, at Basins 150/151 and 152, which discharge to Salmon Bay. Major work includes flow monitoring, system modeling, facility planning, preliminary engineering, design, permits, land acquisition (if necessary), and construction. The project was proposed in the 1988 CSO Control Plan as a joint project with King County. The project began in 2004 but is on hold until 2008; the project budget and schedule have been revised to account for project development and potential coordination with King County. Other work performed under SPU's CSO Facility Retrofit project (C302102) may reduce the size of the necessary facilities in this basin. This project is in a preliminary phase of development and cost estimates will be revised over time. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|-------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 0 | 309 | 282 | 239 | 589 | 1,017 | 407 | 2,843 |
| Project Total: | 0 | 0 | 309 | 282 | 239 | 589 | 1,017 | 407 | 2,843 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 0 | 309 | 282 | 239 | 589 | 1,017 | 407 | 2,843 |
| Appropriations Total* | 0 | 0 | 309 | 282 | 239 | 589 | 1,017 | 407 | 2,843 |
| 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

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 2012

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 makes several improvements to create a high-quality fish refuge and rearing habitat at the mouth of Mapes Creek, 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 middle portion of the creek is re-piped to separate its flow from stormwater and Combined Sewer Overflow discharges, and to improve downstream water quality. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 159 | 23 | 45 | 37 | 11 | 11 | 11 | 0 | 297 |
| Project Total: | 159 | 23 | 45 | 37 | 11 | 11 | 11 | 0 | 297 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 159 | 23 | 45 | 37 | 11 | 11 | 11 | 0 | 297 |
| Appropriations Total* | 159 | 23 | 45 | 37 | 11 | 11 | 11 | 0 | 297 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 1 | 1 |

**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

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: 4th Quarter 2013 |

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 program identifies, develops, and implements high-priority water quality improvement projects incorporating Best Management Practices (BMP) as identified by ongoing water quality basin investigations in the Norfolk, South Park, and Densmore drainage basins. In addition, efforts include work in the Lake Washington Drainage basin in order to address SPU's Seattle Housing Authority Integrated Drainage Plan water quality BMP requirements. These projects are designed to improve the quality of stormwater runoff discharged to nearby receiving water bodies (e.g. streams or lakes) from City-owned storm drains. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|-------|-------|-------|-------|-------|-------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 1,033 | 595 | 1,429 | 7,543 | 2,160 | 2,133 | 2,183 | 1,964 | 19,040 |
| Project Total: | 1,033 | 595 | 1,429 | 7,543 | 2,160 | 2,133 | 2,183 | 1,964 | 19,040 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 1,033 | 595 | 1,429 | 7,543 | 2,160 | 2,133 | 2,183 | 1,964 | 19,040 |
| Appropriations Total* | 1,033 | 595 | 1,429 | 7,543 | 2,160 | 2,133 | 2,183 | 1,964 | 19,040 |
| 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

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 2013 |

Location: Bitter Lake Drainage Basin N 145th St./N 145th St.

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

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

This project designs and constructs a stormwater treatment facility to improve the quality of stormwater discharging to Bitter Lake and to reduce the frequency of required dredging offshore of the Greenwood Ave. N storm drain outfall in the lake. A preliminary engineering report, completed by a Seattle University civil engineering senior design team in 2000, evaluated options for treating runoff from the Greenwood Ave. N storm drain. Treatment options include wet vaults and media filters with swirl concentrators for pretreatment. Additional work may include evaluation of natural drainage system designs, updating the preliminary engineering analysis to determine the most cost-effective option, and constructing the selected project(s). This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments. This project is delayed until 2009.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|-------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 14 | 26 | 1 | 26 | 27 | 132 | 452 | 1,000 | 1,678 |
| Project Total: | 14 | 26 | 1 | 26 | 27 | 132 | 452 | 1,000 | 1,678 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 14 | 26 | 1 | 26 | 27 | 132 | 452 | 1,000 | 1,678 |
| Appropriations Total* | 14 | 26 | 1 | 26 | 27 | 132 | 452 | 1,000 | 1,678 |
| O & M Costs (Savings) | | | 2 | 2 | 2 | 2 | 2 | 2 | 12 |
| Spending Plan | | 1 | 1 | 26 | 27 | 132 | 452 | 1,000 | 1,639 |

**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 Program-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: Multiple

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** A-2, A-3, A-6

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

This program relocates and improves SPU infrastructure as part of the Seattle Department of Transportation's (SDOT) "Bridging the Gap" program. SPU will deliver a variety of drainage and wastewater utility improvements and relocations throughout the City. Typical improvements and relocations may include water and sewer mains, storm detention facilities, natural drainage systems, catch basins, culverts, and inlets. This program protects existing SPU infrastructure, relocates infrastructure as needed, and takes advantage of opportunities to construct priority improvements and enhancements more cost effectively by coordinating projects with SDOT work.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|-------|-------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 0 | 1,560 | 1,609 | 455 | 470 | 485 | 501 | 5,080 |
| Project Total: | 0 | 0 | 1,560 | 1,609 | 455 | 470 | 485 | 501 | 5,080 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 0 | 1,560 | 1,609 | 455 | 470 | 485 | 501 | 5,080 |
| Appropriations Total* | 0 | 0 | 1,560 | 1,609 | 455 | 470 | 485 | 501 | 5,080 |
| 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

Capital Planning - CSO Plan Implementation

| | |
|---|-------------------------------------|
| BCL/Program Name: Control Structures | BCL/Program Code: C310B |
| Project Type: New Facility | Start Date: 1st Quarter 2005 |
| Project ID: C305101 | 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 project supports implementation of the 2001 Combined Sewer Overflow (CSO) Reduction Plan Update. It conducts project studies and engineering to comply with the City's National Pollutant Discharge Elimination System (NPDES) permit, supports Asset Management Committee presentations for projects, and studies and develops small capital projects necessary to implement the plan. This project is in a preliminary phase of development, and cost estimates will be revised over time. The SPU Asset Management Committee reviewed and approved the project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 588 | 385 | 189 | 263 | 269 | 276 | 282 | 289 | 2,541 |
| Project Total: | 588 | 385 | 189 | 263 | 269 | 276 | 282 | 289 | 2,541 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 588 | 385 | 189 | 263 | 269 | 276 | 282 | 289 | 2,541 |
| Appropriations Total* | 588 | 385 | 189 | 263 | 269 | 276 | 282 | 289 | 2,541 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 150 | 189 | 263 | 269 | 276 | 282 | 289 | 1,718 |

**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

Capital Planning - Flood Control & Local Drainage

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: 1st Quarter 2004

Project ID: C343201

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 project develops Flood Control and Local Drainage program projects. Work includes evaluation of potential projects (primarily those identified in the Comprehensive Drainage Plan), including investigation of reported drainage problems. The evaluation includes field verification and technical analysis to obtain information on benefits and level of service. A project proposal, including cost-benefit analysis, is reviewed and approved by SPU's Capital Planning Committee. Staff then develop a Project Development Plan, including documentation and budget input, for approval by SPU's Asset Management Committee. This is an ongoing project and estimates for the out years will be revised over time.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 1,364 | 414 | 289 | 316 | 323 | 331 | 339 | 347 | 3,723 |
| Project Total: | 1,364 | 414 | 289 | 316 | 323 | 331 | 339 | 347 | 3,723 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 1,364 | 414 | 289 | 316 | 323 | 331 | 339 | 347 | 3,723 |
| Appropriations Total* | 1,364 | 414 | 289 | 316 | 323 | 331 | 339 | 347 | 3,723 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 0 | 289 | 316 | 323 | 331 | 339 | 347 | 1,945 |

**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

Capital Planning – Low Impact Development

| | |
|---|-------------------------------------|
| BCL/Program Name: Low Impact Development | BCL/Program Code: C334B |
| Project Type: New Facility | Start Date: 1st Quarter 2007 |
| Project ID: C307017 | 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 project creates Low Impact Development program projects. Work includes evaluation of potential projects including investigation of Natural Drainage System facilities or other stormwater treatment/detention strategies to solve problems identified within the stormwater line of business. The evaluation includes field verification and technical analysis to obtain information on benefits and levels of service. A project proposal, including cost-benefit analysis, is reviewed and approved by SPU’s Capital Planning Committee. Staff then develops a Project Development Plan, including documentation and budget input, for approval by SPU’s Asset Management Committee. This is an ongoing project, and cost estimates for the out years will be revised over time.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 321 | 141 | 131 | 135 | 138 | 141 | 144 | 1,151 |
| Project Total: | 0 | 321 | 141 | 131 | 135 | 138 | 141 | 144 | 1,151 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 321 | 141 | 131 | 135 | 138 | 141 | 144 | 1,151 |
| Appropriations Total* | 0 | 321 | 141 | 131 | 135 | 138 | 141 | 144 | 1,151 |
| O & M Costs (Savings) | | | 8 | 8 | 8 | 8 | 8 | 8 | 48 |
| Spending Plan | | 125 | 141 | 131 | 135 | 138 | 141 | 144 | 955 |

**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

Capital Planning - Protection of Beneficial Uses

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 1st Quarter 2004

Project ID: C343301

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 project develops other projects in the Protection of Beneficial Uses program. Work includes evaluation of potential projects (primarily those identified in the Comprehensive Drainage Plan) for water quality and habitat benefits. The evaluation of potential projects includes field verification and technical analysis. Analysis to explore solutions, including cost-benefit information, is reviewed and approved by SPU's Capital Planning Committee. A Project Development Plan, including documentation and budget input, is then developed by SPU staff for approval by SPU's Asset Management Committee. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environment. This is an ongoing project, and estimates for the out years will be revised over time.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 904 | 285 | 356 | 415 | 48 | 44 | 45 | 46 | 2,143 |
| Project Total: | 904 | 285 | 356 | 415 | 48 | 44 | 45 | 46 | 2,143 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 904 | 285 | 356 | 415 | 48 | 44 | 45 | 46 | 2,143 |
| Appropriations Total* | 904 | 285 | 356 | 415 | 48 | 44 | 45 | 46 | 2,143 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 0 | 356 | 415 | 48 | 44 | 45 | 46 | 954 |

**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

Capital Planning - Public Asset Protection

| | |
|--|-------------------------------------|
| BCL/Program Name: Landslide Mitigation & Special Programs | BCL/Program Code: C335B |
| Project Type: New Facility | Start Date: 1st Quarter 2004 |
| Project ID: C343401 | 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 project develops other projects in the Public Asset Protection program. Work includes evaluation of potential projects (primarily those identified in the Comprehensive Drainage Plan), including investigation of reported drainage problems. The evaluation includes field verification and technical analysis to obtain information on benefits and levels of service. A project proposal, including cost-benefit analysis, is reviewed and approved by SPU's Capital Planning Committee. Staff then develops a Project Development Plan, including documentation and budget input, for approval by SPU's Asset Management Committee. This is an ongoing project, and cost estimates will be revised over time.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 251 | 463 | 181 | 502 | 431 | 193 | 790 | 251 | 3,062 |
| Project Total: | 251 | 463 | 181 | 502 | 431 | 193 | 790 | 251 | 3,062 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 251 | 463 | 181 | 502 | 431 | 193 | 790 | 251 | 3,062 |
| Appropriations Total* | 251 | 463 | 181 | 502 | 431 | 193 | 790 | 251 | 3,062 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 175 | 181 | 502 | 431 | 193 | 790 | 251 | 2,523 |

**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

Capital Planning Pump Stations

| | |
|---|-------------------------------------|
| BCL/Program Name: Control Structures | BCL/Program Code: C310B |
| Project Type: New Investment | Start Date: 1st Quarter 2007 |
| Project ID: C307011 | 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 project develops other projects in the Pump Station program. Work includes evaluation of potential improvement, optimization, and rehabilitation projects. Analysis to explore solutions, including cost-benefit information, is reviewed and approved by SPU's Capital Planning Committee. A Project Development Plan, including documentation and budget input, is then developed by SPU staff for approval by SPU's Asset Management Committee. This project is in a preliminary phase of development, and cost estimates will be revised over time.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 267 | 72 | 74 | 75 | 77 | 79 | 1 | 645 |
| Project Total: | 0 | 267 | 72 | 74 | 75 | 77 | 79 | 1 | 645 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 267 | 72 | 74 | 75 | 77 | 79 | 1 | 645 |
| Appropriations Total* | 0 | 267 | 72 | 74 | 75 | 77 | 79 | 1 | 645 |
| O & M Costs (Savings) | | | 70 | 70 | 70 | 70 | 70 | 70 | 420 |

**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

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 2013

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 will construct four blocks of swales and associated drainage infrastructure to treat runoff from over 200 acres of Capitol Hill. This project is in a preliminary phase of development, and cost estimates will be revised during preliminary engineering. SPU's Asset Management Committee will review for cost-benefit impacts and to ensure the appropriate use of drainage funds. The project is dependent on a Memorandum of Agreement with the adjacent property owner.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|-------|-------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 1 | 753 | 1,963 | 1,177 | 833 | 882 | 181 | 173 | 5,963 |
| Project Total: | 1 | 753 | 1,963 | 1,177 | 833 | 882 | 181 | 173 | 5,963 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 1 | 753 | 1,963 | 1,177 | 833 | 882 | 181 | 173 | 5,963 |
| Appropriations Total* | 1 | 753 | 1,963 | 1,177 | 833 | 882 | 181 | 173 | 5,963 |
| O & M Costs (Savings) | | | 0 | 0 | 8 | 8 | 8 | 12 | 36 |
| Spending Plan | | 595 | 1,963 | 1,177 | 833 | 882 | 181 | 173 | 5,804 |

**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

Citywide Source Control

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 1st Quarter 2006

Project ID: C363501

End Date: 4th Quarter 2008

Location:

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 inspects City facilities to observe the implementation of the City stormwater manual. A consultant will identify potential source control problems and possible corrective actions that City departments can undertake to improve water quality and stormwater management. The project's first phase developed criteria to prioritize City facilities, which considered the number of high-pollution-generating activities occurring on the site and the sensitivity of the receiving water bodies. Thirty-four priority facilities were identified and site inspections were conducted on 15 of those sites. Phase two will inspect approximately 100 additional facilities. This assessment is funded through reimbursements from the Cumulative Reserve Subfund to the Drainage and Wastewater Fund.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 74 | 103 | 0 | 0 | 0 | 0 | 0 | 0 | 177 |
| Project Total: | 74 | 103 | 0 | 0 | 0 | 0 | 0 | 0 | 177 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 74 | 103 | 0 | 0 | 0 | 0 | 0 | 0 | 177 |
| Appropriations Total* | 74 | 103 | 0 | 0 | 0 | 0 | 0 | 0 | 177 |
| 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

Climate Protection - DWF

BCL/Program Name: Shared Cost Projects

BCL/Program Code: C410B

Project Type: New Investment

Start Date: 1st Quarter 2007

Project ID: C407S01-DWF

End Date: 4th Quarter 2013

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 researches the impact of climate change on the drainage and wastewater system, and identifies adaptations or additional system resiliency that may be required. The effort is part of the Mayor's Environmental Action Agenda, which includes a City commitment to meet or beat Kyoto greenhouse gas emission targets. The Office of Sustainability and Environment leads the Citywide effort.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 77 | 124 | 115 | 118 | 120 | 123 | 126 | 803 |
| Project Total: | 0 | 77 | 124 | 115 | 118 | 120 | 123 | 126 | 803 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 77 | 124 | 115 | 118 | 120 | 123 | 126 | 803 |
| Appropriations Total* | 0 | 77 | 124 | 115 | 118 | 120 | 123 | 126 | 803 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 64 | 124 | 115 | 118 | 120 | 123 | 126 | 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

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 project retrofits, upgrades, and modifies existing Combined Sewer Overflow (CSO) reduction facilities in priority CSO basins to optimize system operation and storage. Projects may include weir modifications, construction of system modifications to remove hydraulic constraints or improve system hydraulics, and replacement of tide gates or flow restrictor devices. The project was evaluated during the development of the 2001 CSO Reduction Plan Amendment and provides a cost-effective approach to complying with CSO regulations. SPU's Asset Management Committee has approved the adoption of a formal retrofit program which will design and construct several small retrofit projects each year. The certainty of the cost estimate has a medium confidence level.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|-------|-------|-------|-------|-------|------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 3,532 | 709 | 2,092 | 2,209 | 2,263 | 2,316 | 2,370 | 1 | 15,492 |
| Project Total: | 3,532 | 709 | 2,092 | 2,209 | 2,263 | 2,316 | 2,370 | 1 | 15,492 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 3,532 | 709 | 2,092 | 2,209 | 2,263 | 2,316 | 2,370 | 1 | 15,492 |
| Appropriations Total* | 3,532 | 709 | 2,092 | 2,209 | 2,263 | 2,316 | 2,370 | 1 | 15,492 |
| O & M Costs (Savings) | | | 77 | 77 | 77 | 77 | 77 | 77 | 465 |
| Spending Plan | | 1,000 | 2,092 | 2,209 | 2,263 | 2,316 | 2,370 | 1 | 12,251 |

**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

Combined Sewer Overflow Operations & Maintenance Plan

| | |
|---|-------------------------------------|
| BCL/Program Name: Control Structures | BCL/Program Code: C310B |
| Project Type: New Investment | Start Date: 1st Quarter 2007 |
| Project ID: C307005 | 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 reviews and updates the Operations & Maintenance (O&M) Plan for combined sewer overflows, per requirement of the National Pollutant Discharge Elimination System (NPDES) permit. The plan may include detailed information on standard operations and maintenance procedures as well as manufacturer-recommended O&M procedures. SPU's Asset Management Committee will review and approve the project. The certainty of the cost estimate is low. This project is subject to a Council proviso.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 411 | 200 | 368 | 377 | 386 | 0 | 0 | 1,742 |
| Project Total: | 0 | 411 | 200 | 368 | 377 | 386 | 0 | 0 | 1,742 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 411 | 200 | 368 | 377 | 386 | 0 | 0 | 1,742 |
| Appropriations Total* | 0 | 411 | 200 | 368 | 377 | 386 | 0 | 0 | 1,742 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 9 | 9 | 18 |

**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

Combined Sewer Overflow Plan Update

| | |
|---|-------------------------------------|
| BCL/Program Name: Control Structures | BCL/Program Code: C310B |
| Project Type: Improved Facility | Start Date: 1st Quarter 1999 |
| Project ID: C3AA103 | End Date: 4th Quarter 2011 |

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

Combined Sewer Overflow (CSO) reduction plans are required by the Department of Ecology. This project funds preparation of the next plan update, development of the Environmental Impact Statement, and public participation activities. Work involved in the project includes flow monitoring, hydraulic/hydrologic modeling, statistical analysis of historical rainfall patterns, development of performance standards to incorporate uncertainty and probability of compliance with regulations, capital planning, and development/refinement of the CSO Capital Improvement Plan for implementing CSO projects from 2010 through 2020. The consequence of not completing this project is non-compliance with the CSO NPDES permit, which may result in fines or other consequences (e.g., consent decree, administrative order). SPU's Asset Management Committee reviewed and approved development of the plan. The certainty of the cost estimate has a medium confidence level.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 2,472 | 703 | 491 | 105 | 108 | 55 | 0 | 0 | 3,934 |
| Project Total: | 2,472 | 703 | 491 | 105 | 108 | 55 | 0 | 0 | 3,934 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 2,472 | 703 | 491 | 105 | 108 | 55 | 0 | 0 | 3,934 |
| Appropriations Total* | 2,472 | 703 | 491 | 105 | 108 | 55 | 0 | 0 | 3,934 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 720 | 491 | 105 | 108 | 55 | 0 | 0 | 1,479 |

**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

Combined Sewer Overflow Reporting/Public Notice

BCL/Program Name: Control Structures

BCL/Program Code: C310B

Project Type: New Investment

Start Date: 1st Quarter 2007

Project ID: C307008

End Date: 4th Quarter 2008

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 develops a Public Notification Feasibility Study, per requirement of the National Pollutant Discharge Elimination System (NPDES) permit. The study may survey methods for providing more immediate information to the public regarding combined sewer overflow events, including a possible web-based notification system. The project will involve meeting with constituents and community groups to discuss notification needs. Various notification technologies will be studied and cost-estimated, and a plan for implementing the recommended notification method will be developed. The consequence of not completing this project is non-compliance with the CSO NPDES permit, which may result in fines or other consequences (e.g., consent decree, administrative order). The confidence in the cost estimate is low.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 115 | 45 | 0 | 0 | 0 | 0 | 0 | 160 |
| Project Total: | 0 | 115 | 45 | 0 | 0 | 0 | 0 | 0 | 160 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 115 | 45 | 0 | 0 | 0 | 0 | 0 | 160 |
| Appropriations Total* | 0 | 115 | 45 | 0 | 0 | 0 | 0 | 0 | 160 |
| O & M Costs (Savings) | | | 0 | 1 | 1 | 1 | 1 | 1 | 4 |
| Spending Plan | | 58 | 45 | 0 | 0 | 0 | 0 | 0 | 103 |

**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

Combined Sewer Overflow Structure Configuration Management

| | |
|--|-------------------------------------|
| BCL/Program Name: Control Structures | BCL/Program Code: C310B |
| Project Type: Rehabilitation or Restoration | Start Date: 1st Quarter 2006 |
| Project ID: C306101 | End Date: 4th Quarter 2008 |

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 surveys the condition and configuration of the existing CSO overflow structures. It identifies limitations or deficiencies with the existing structures and makes recommendations for replacement or rehabilitation of the structure. This project will result in a capital plan for rehabilitating/upgrading the CSO overflow structures to ensure that they are functioning properly and meeting their performance objectives. Failure to implement the project may result in failed assets which do not achieve the CSO targets specified in the City's NPDES permit. SPU's Asset Management Committee will review and approve the project. The confidence in the cost estimate is low.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 116 | 71 | 0 | 0 | 0 | 0 | 0 | 187 |
| Project Total: | 0 | 116 | 71 | 0 | 0 | 0 | 0 | 0 | 187 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 116 | 71 | 0 | 0 | 0 | 0 | 0 | 187 |
| Appropriations Total* | 0 | 116 | 71 | 0 | 0 | 0 | 0 | 0 | 187 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 101 | 71 | 0 | 0 | 0 | 0 | 0 | 172 |

**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

Combined Sewer Overflow Supplemental Characterization

| | |
|---|-------------------------------------|
| BCL/Program Name: Control Structures | BCL/Program Code: C310B |
| Project Type: New Investment | Start Date: 1st Quarter 2007 |
| Project ID: C307006 | End Date: 1st 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 develops and implements a Combined Sewer Overflow (CSO) Supplemental Characterization Sampling and Analysis Plan, per requirement of the National Pollutant Discharge Elimination System (NPDES) permit. The plan will include selection of sampling sites, protocols, sampling, and analysis of CSO flows. Implementation of the Plan will occur in 2007 to 2009 as specified by the NPDES permit. SPU's Asset Management Committee will review and approve the project. The confidence in the cost estimate is low.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 80 | 445 | 421 | 5 | 0 | 0 | 0 | 951 |
| Project Total: | 0 | 80 | 445 | 421 | 5 | 0 | 0 | 0 | 951 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 80 | 445 | 421 | 5 | 0 | 0 | 0 | 951 |
| Appropriations Total* | 0 | 80 | 445 | 421 | 5 | 0 | 0 | 0 | 951 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 5 | 5 | 5 | 14 |
| Spending Plan | | 406 | 445 | 421 | 5 | 0 | 0 | 0 | 1,277 |

**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

Creek Flow Control Implementation

BCL/Program Name: Low Impact Development

BCL/Program Code: C334B

Project Type: New Facility

Start Date: 1st Quarter 2009

Project ID: C310001

End Date: 1st Quarter 2016

Location: Citywide

Neighborhood Plan: Delridge

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This project builds flow control projects in targeted Seattle creek areas. High stormwater flows have resulted in aquatic ecosystem degradation. The project's objectives include the reduction of stormwater discharge entering creeks, the reduction of associated habitat degradation, and the potential associated reduction of water quality pollutants. The project's benefits include improving creek ecosystems and potentially protecting property from flooding. Projects to be constructed are determined by the results of preliminary engineering. This project is in a preliminary phase of development, and cost estimates will be revised over time. Specific proposed projects are evaluated by SPU's Asset Management Committee for cost-benefit impacts and to ensure the appropriate use of drainage funds. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|-------|-------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 0 | 0 | 526 | 539 | 3,308 | 2,427 | 347 | 7,147 |
| Project Total: | 0 | 0 | 0 | 526 | 539 | 3,308 | 2,427 | 347 | 7,147 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 0 | 0 | 526 | 539 | 3,308 | 2,427 | 347 | 7,147 |
| Appropriations Total* | 0 | 0 | 0 | 526 | 539 | 3,308 | 2,427 | 347 | 7,147 |
| 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

Creeks Habitat Complexity Program

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 1st Quarter 2005

Project ID: C353302

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 program addresses altered stream and shoreline habitat. The program increases in-stream habitat complexity and establishes conditions that result in increased pools, riffles, and fish refuge habitat, by adding large, woody debris or boulders to creeks and creek mouths. Different sites are designed and constructed each year, with an initial focus on land owned by the Seattle Department of Parks and Recreation (Parks). Individual projects are identified and prioritized based on expected habitat benefits and ease of implementation. The project results in costs to Parks to operate and maintain the habitat improvements, but these costs have not yet been determined. The SPU Asset Management Committee approved this project and the confidence level of current cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 383 | 97 | 79 | 87 | 91 | 116 | 119 | 116 | 1,088 |
| Project Total: | 383 | 97 | 79 | 87 | 91 | 116 | 119 | 116 | 1,088 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 383 | 97 | 79 | 87 | 91 | 116 | 119 | 116 | 1,088 |
| Appropriations Total* | 383 | 97 | 79 | 87 | 91 | 116 | 119 | 116 | 1,088 |
| O & M Costs (Savings) | | | 5 | 5 | 5 | 5 | 5 | 5 | 30 |
| Spending Plan | | 77 | 79 | 87 | 91 | 116 | 119 | 116 | 685 |

*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

Creeks Vegetation Program

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 1st Quarter 2005

Project ID: C353304

End Date: Ongoing

Location: Citywide

Neighborhood Plan: Aurora Licton

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This project established the first six years of a 20-year effort to protect and restore more than 300 acres of publicly-owned forest located along riparian corridors. This project removes invasive plants from selected sites each year, adds native trees and shrubs, and provides maintenance for the first three years. SPU is working in partnership with the Seattle Department of Parks and Recreation and the City's Office of Sustainability and Environment. Restoring the riparian forest helps ensure creeks have cooler water with more oxygen and creek banks remain stable. The project also reduces the amount of runoff reaching creeks during storm events. This project supports both the Mayor's Green Seattle Initiative to reforest riparian areas along urban creeks, and the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environment.

In the 2008 budget process, Council adopted a proviso restricting spending on this project. Details are provided in the departmental narrative at the beginning of this section.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 267 | 185 | 93 | 168 | 178 | 185 | 191 | 185 | 1,452 |
| Project Total: | 267 | 185 | 93 | 168 | 178 | 185 | 191 | 185 | 1,452 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 267 | 185 | 93 | 168 | 178 | 185 | 191 | 185 | 1,452 |
| Appropriations Total* | 267 | 185 | 93 | 168 | 178 | 185 | 191 | 185 | 1,452 |
| O & M Costs (Savings) | | | 8 | 8 | 8 | 8 | 8 | 8 | 46 |

*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

Demand Management

BCL/Program Name: Shared Cost Projects
Project Type: Improved Facility
Project ID: C407019

BCL/Program Code: C410B
Start Date: 1st Quarter 2007
End Date: 4th Quarter 2012

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 project aims to reduce the amount of stormwater going into the wastewater system, part of a program to manage demand for wastewater capital facilities. Phase 1 will identify and evaluate promising stormwater and wastewater strategies for citywide application and build a toolkit. Potential solutions include downtown building detention facilities, strategic source separation, natural systems, green roofs, porous pavement, cisterns, and landscaping opportunities. Phase 1 also includes an in-depth analysis of what, if any, demand management strategies should be implemented in the Alaskan Way Viaduct project area. Phase 2 of this project is anticipated to identify and implement small capital projects across the city. The confidence level of the cost estimates is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|-------|-------|-------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 600 | 600 | 600 | 1,923 | 2,040 | 2,166 | 0 | 7,929 |
| Project Total: | 0 | 600 | 600 | 600 | 1,923 | 2,040 | 2,166 | 0 | 7,929 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 600 | 600 | 600 | 1,923 | 2,040 | 2,166 | 0 | 7,929 |
| Appropriations Total* | 0 | 600 | 600 | 600 | 1,923 | 2,040 | 2,166 | 0 | 7,929 |
| 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

Design Standards & Guidelines - DRN

| | |
|--|-------------------------------------|
| BCL/Program Name: Landslide Mitigation & Special Programs | BCL/Program Code: C335B |
| Project Type: New Investment | Start Date: 1st Quarter 2005 |
| Project ID: C353501 | End Date: 4th Quarter 2008 |

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 program creates detailed design standards and guidelines for the development of various types of drainage facilities to streamline future design efforts, reduce costs, and increase the quality of future facilities. This program is conducted with staff from the SPU Engineering and Operations divisions. The project supports benchmarking efforts by SPU's Asset Management Committee and implementation of SPU's Strategic Business Plan. Also incorporated into this project is the regulatory requirement to update Seattle's thresholds, performance standards, and design criteria in its municipal codes to comply with the NPDES permit issued by Ecology under the federal Clean Water Act. Confidence level in the cost estimate is high.

In the 2008 budget process, Council adopted a proviso restricting spending on this project. Details are provided in the departmental narrative at the beginning of this section.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 666 | 449 | 210 | 0 | 0 | 0 | 0 | 0 | 1,325 |
| Project Total: | 666 | 449 | 210 | 0 | 0 | 0 | 0 | 0 | 1,325 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 666 | 449 | 210 | 0 | 0 | 0 | 0 | 0 | 1,325 |
| Appropriations Total* | 666 | 449 | 210 | 0 | 0 | 0 | 0 | 0 | 1,325 |
| O & M Costs (Savings) | | | 100 | 100 | 100 | 100 | 100 | 100 | 600 |
| Spending Plan | | 1,000 | 210 | 0 | 0 | 0 | 0 | 0 | 1,210 |

**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

Design Standards & Guidelines - WW

BCL/Program Name: Wastewater Conveyance

BCL/Program Code: C320B

Project Type: New Investment

Start Date: 1st Quarter 2005

Project ID: C305201

End Date: 4th Quarter 2008

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 creates detailed design standards and guidelines for the development of various types of wastewater facilities to streamline future design efforts, reduce costs, and increase the quality of future facilities. This program is conducted with staff from the SPU Engineering and Operations divisions. The project supports benchmarking efforts by SPU's Asset Management Committee and implementation of SPU's Strategic Business Plan. Confidence level in the cost estimate is high.

In the 2008 budget process, Council adopted a proviso restricting spending on this project. Details are provided in the departmental narrative at the beginning of this section.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 130 | 281 | 346 | 0 | 0 | 0 | 0 | 0 | 757 |
| Project Total: | 130 | 281 | 346 | 0 | 0 | 0 | 0 | 0 | 757 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 130 | 281 | 346 | 0 | 0 | 0 | 0 | 0 | 757 |
| Appropriations Total* | 130 | 281 | 346 | 0 | 0 | 0 | 0 | 0 | 757 |
| O & M Costs (Savings) | | | 100 | 100 | 100 | 100 | 100 | 100 | 600 |

**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 & Wastewater Partnership Program - DRN

| | |
|--|-------------------------------------|
| BCL/Program Name: Landslide Mitigation & Special Programs | BCL/Program Code: C335B |
| Project Type: New Facility | Start Date: 1st Quarter 2007 |
| Project ID: C3335 | 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 program funds selected projects that use stormwater management systems or technologies to provide benefits to the drainage and wastewater ratepayers. Proposed projects must be constructed over and above basic regulatory compliance and meet specific criteria to be eligible for funding. SPU is responsible for selecting the projects that will participate in the program. 2007 and 2008 will be pilot years for the program. Cost estimates may be revised over time. The intent is for this program to be open to other customers as well as to all City departments.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|-------|-------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 350 | 359 | 158 | 162 | 198 | 1,467 | 1,502 | 4,196 |
| Project Total: | 0 | 350 | 359 | 158 | 162 | 198 | 1,467 | 1,502 | 4,196 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 350 | 359 | 158 | 162 | 198 | 1,467 | 1,502 | 4,196 |
| Appropriations Total* | 0 | 350 | 359 | 158 | 162 | 198 | 1,467 | 1,502 | 4,196 |
| O & M Costs (Savings) | | | 21 | 21 | 21 | 21 | 21 | 21 | 126 |

**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 & Wastewater Partnership Program - WW

BCL/Program Name: Wastewater Conveyance **BCL/Program Code:** C320B
Project Type: New Facility **Start Date:** 1st Quarter 2007
Project ID: C3203 **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 program funds selected projects that use stormwater management systems or technologies to provide benefits to the drainage and wastewater ratepayers. Proposed projects must be constructed over and above basic regulatory compliance and meet specific criteria to be eligible for funding. SPU is responsible for selecting the projects that will participate in the program. 2007 and 2008 will be pilot years for the program. Cost estimates may be revised over time. The intent is for this program to be open to other customers as well as to all City departments.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 50 | 17 | 1 | 1 | 1 | 1 | 1 | 72 |
| Project Total: | 0 | 50 | 17 | 1 | 1 | 1 | 1 | 1 | 72 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 50 | 17 | 1 | 1 | 1 | 1 | 1 | 72 |
| Appropriations Total* | 0 | 50 | 17 | 1 | 1 | 1 | 1 | 1 | 72 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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 program makes a number of spot improvements to drainage systems throughout Seattle. Projects increase the capacity of the drainage systems and prevent flooding. Typical improvements include installation of inlets and catch-basins, construction of ditches and grassed swales, and installation of culverts. Funding to maintain the improvements made under this program is included SPU's Operating Budget. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 1,072 | 296 | 219 | 263 | 269 | 276 | 282 | 289 | 2,966 |
| Project Total: | 1,072 | 296 | 219 | 263 | 269 | 276 | 282 | 289 | 2,966 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 1,072 | 296 | 219 | 263 | 269 | 276 | 282 | 289 | 2,966 |
| Appropriations Total* | 1,072 | 296 | 219 | 263 | 269 | 276 | 282 | 289 | 2,966 |
| O & M Costs (Savings) | | | 3 | 3 | 3 | 3 | 3 | 3 | 18 |
| Spending Plan | | 275 | 219 | 263 | 269 | 276 | 282 | 289 | 1,873 |

**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

Fecal TMDL Feasibility

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 4th Quarter 2004

Project ID: C343302

End Date: 4th Quarter 2008

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 investigates bacteria problems identified in Seattle's creeks and evaluates options for reducing bacteria levels, including treatment. Work focuses on watersheds that are affected by Total Maximum Daily Loadwater quality regulations. This includes Pipers, Thornton, and Longfellow creeks, after completion of additional work to identify sources of fecal coliform bacteria in these three basins. The project includes funding for development of a pilot project to test performance of some of the alternatives identified during the investigation. Understanding of bacteria sources is key to developing solutions and identifying potential sites for pilot testing. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 108 | 100 | 41 | 0 | 0 | 0 | 0 | 0 | 249 |
| Project Total: | 108 | 100 | 41 | 0 | 0 | 0 | 0 | 0 | 249 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 108 | 100 | 41 | 0 | 0 | 0 | 0 | 0 | 249 |
| Appropriations Total* | 108 | 100 | 41 | 0 | 0 | 0 | 0 | 0 | 249 |
| O & M Costs (Savings) | | | 0 | 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.

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: 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 removes top-priority fish passage barriers in the city that meet requirements for the use of drainage funds. Within the five fish-bearing creeks in Seattle, there are nearly 90 documented barriers to fish passage. The prioritized list of barriers that this project addresses changes as fish move into new areas, fish populations increase or decrease, and downstream barriers are modified or removed by SPU or others. SPU's Asset Management Committee approved this project. This project is in a preliminary phase of development, and cost estimates will be revised over time. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments. This project is delayed until 2009.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 137 | 7 | 1 | 60 | 81 | 165 | 169 | 185 | 805 |
| Project Total: | 137 | 7 | 1 | 60 | 81 | 165 | 169 | 185 | 805 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 137 | 7 | 1 | 60 | 81 | 165 | 169 | 185 | 805 |
| Appropriations Total* | 137 | 7 | 1 | 60 | 81 | 165 | 169 | 185 | 805 |
| O & M Costs (Savings) | | | 4 | 4 | 4 | 4 | 4 | 4 | 24 |
| Spending Plan | | 6 | 1 | 60 | 81 | 165 | 169 | 185 | 667 |

**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: 1st Quarter 2008 |
| Project ID: C303102 | End Date: 1st Quarter 2020 |

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 constructs Combined Sewer Overflow (CSO) reduction facilities in the Fremont/Wallingford area, at Basins 147 and 174. Major work includes flow monitoring, system modeling, facility planning, preliminary engineering, design, permits, land acquisition (if necessary), and construction. Work performed in the initial planning phase collects additional data and re-evaluates alternatives prior to allocating and spending additional funds. The project budget and schedule have been revised from the 2001 CSO Plan to account for project development, CSO Retrofit Implementation (which may reduce the size of the necessary facilities in this basin), and potential coordination with King County. The proposed allocation for 2008 would provide funds for initial planning work, with future allocations to be determined after the study is completed. This project is in a preliminary phase of development, and cost estimates will be revised over time. SPU's Asset Management Committee will review the project in 2008.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|-------|-------|-------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 0 | 348 | 265 | 222 | 1,077 | 1,828 | 1,024 | 4,764 |
| Project Total: | 0 | 0 | 348 | 265 | 222 | 1,077 | 1,828 | 1,024 | 4,764 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 0 | 348 | 265 | 222 | 1,077 | 1,828 | 1,024 | 4,764 |
| Appropriations Total* | 0 | 0 | 348 | 265 | 222 | 1,077 | 1,828 | 1,024 | 4,764 |
| 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

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 project is a placeholder for Combined Sewer Overflow (CSO) reduction projects that have yet to be identified in detail. It will be utilized to reduce CSOs to less than one overflow per year in basins that are exceeding this service level, yet do not currently have specific projects identified by the CSO reduction plan.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|-------|-------|-------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 0 | 1 | 789 | 808 | 1,103 | 3,386 | 5,778 | 11,865 |
| Project Total: | 0 | 0 | 1 | 789 | 808 | 1,103 | 3,386 | 5,778 | 11,865 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 0 | 1 | 789 | 808 | 1,103 | 3,386 | 5,778 | 11,865 |
| Appropriations Total* | 0 | 0 | 1 | 789 | 808 | 1,103 | 3,386 | 5,778 | 11,865 |
| O & M Costs (Savings) | | | 62 | 62 | 62 | 62 | 62 | 62 | 371 |

**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

BCL/Program Code: C332B

Project Type: Improved Facility

Start Date: 1st Quarter 2007

Project ID: C307019

End Date: 4th Quarter 2008

Location: 6700 E Marginal Wy S

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. The Georgetown flume currently functions as a storm drain, serving an approximately 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. The flume is owned by Seattle City Light and historically was used to convey cooling water from the Georgetown Steamplant, as well as numerous industrial discharges. It now collects runoff from City rights-of-way and private properties along S. Myrtle and S. Willow Streets, as well as runoff from areas immediately adjacent to the flume. The flume consists of a combination of pipes and wood or concrete-lined flumes that run about 2,500 feet across the north end of the King County Airport.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|-------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 3 | 209 | 1,023 | 0 | 0 | 0 | 0 | 0 | 1,235 |
| Project Total: | 3 | 209 | 1,023 | 0 | 0 | 0 | 0 | 0 | 1,235 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 3 | 209 | 1,023 | 0 | 0 | 0 | 0 | 0 | 1,235 |
| Appropriations Total* | 3 | 209 | 1,023 | 0 | 0 | 0 | 0 | 0 | 1,235 |
| O & M Costs (Savings) | | | 0 | 0 | 15 | 15 | 15 | 15 | 60 |
| Spending Plan | | 460 | 1,023 | 0 | 0 | 0 | 0 | 0 | 1,483 |

**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

Golden Gardens/View Avenue Landslide

| | |
|--|-------------------------------------|
| BCL/Program Name: Landslide Mitigation & Special Programs | BCL/Program Code: C335B |
| Project Type: New Facility | Start Date: 2nd Quarter 2004 |
| Project ID: C343403 | End Date: 4th Quarter 2008 |

Location: Golden Gardens Dr NW/View Ave NW

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: Not in an Urban Village

This project performs preliminary engineering, initial design of a landslide mitigation project, and the design and construction of the SPU-only portion of the mitigation project in the area of Golden Gardens Drive NW and View Ave. NW. There is uncontrolled stormwater discharging off of View Ave. NW onto private properties and an eight inch sewer line and pump station on a steep slope that has experienced several landslides in the past. The Seattle Department of Parks and Recreation (Parks) owns property down slope of both streets, and Golden Gardens Drive NW has been damaged from past slides. This project has been identified as a potential joint project between SPU, Parks, and the Seattle Department of Transportation. The project is in the design phase, and cost estimates will be revised over time. The SPU Asset Management Committee (AMC) approved this project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 160 | 293 | 1 | 0 | 0 | 0 | 0 | 0 | 454 |
| Project Total: | 160 | 293 | 1 | 0 | 0 | 0 | 0 | 0 | 454 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 160 | 293 | 1 | 0 | 0 | 0 | 0 | 0 | 454 |
| Appropriations Total* | 160 | 293 | 1 | 0 | 0 | 0 | 0 | 0 | 454 |
| O & M Costs (Savings) | | | 3 | 3 | 3 | 3 | 3 | 3 | 18 |
| Spending Plan | | 229 | 1 | 0 | 0 | 0 | 0 | 0 | 230 |

**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

Greenwood Peat Bog

| | |
|--|-------------------------------------|
| BCL/Program Name: Landslide Mitigation & Special Programs | BCL/Program Code: C335B |
| Project Type: Rehabilitation or Restoration | Start Date: 1st Quarter 2003 |
| Project ID: C333207 | End Date: 4th Quarter 2009 |

Location: NW 85th St. & NW 97th St. & Greenwood Ave. N & 8th Av. N

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: Not in an Urban Village

This project monitors the physical features of the Greenwood Peat Bog basin for a five-year period, including groundwater levels, stormwater and creek flows (one year only), precipitation, and ground elevations. The purpose of this project is to characterize the groundwater hydrology of the area, and in particular the response of groundwater to variations in precipitation and other factors (e.g., dewatering) and the corresponding impact on ground settlement. The confidence level of the current cost estimate is high.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 254 | 25 | 25 | 114 | 0 | 0 | 0 | 0 | 418 |
| Project Total: | 254 | 25 | 25 | 114 | 0 | 0 | 0 | 0 | 418 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 254 | 25 | 25 | 114 | 0 | 0 | 0 | 0 | 418 |
| Appropriations Total* | 254 | 25 | 25 | 114 | 0 | 0 | 0 | 0 | 418 |
| O & M Costs (Savings) | | | 0 | 0 | 2 | 2 | 2 | 2 | 8 |
| Spending Plan | | 76 | 25 | 114 | 0 | 0 | 0 | 0 | 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

Greenwood Water Quality Best Management Practice

BCL/Program Name: Protection of Beneficial Uses **BCL/Program Code:** C333B
Project Type: New Facility **Start Date:** 1st Quarter 2006
Project ID: C353306 **End Date:** 4th Quarter 2008

Location: N 105th St./N 112th St.

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

This project designs and constructs a stormwater treatment facility to meet code requirements for a portion of the Seattle Department of Transportation (SDOT) roadway improvement project on Greenwood Ave. N between N 105th and N 112th Streets. See SDOT project TC36638 for more transportation-related information. SPU and SDOT have agreed that the existing natural drainage system on NW 110th St can be modified to meet most of the drainage requirements. This project provides treatment for the section of Greenwood Ave. N between NW 105th and NW 107th via a media filtration vault or other conventional stormwater treatment system. The project also includes grant funding for the SDOT roadway improvement project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 23 | 0 | 410 | 0 | 0 | 0 | 0 | 0 | 433 |
| Project Total: | 23 | 0 | 410 | 0 | 0 | 0 | 0 | 0 | 433 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 23 | 0 | 410 | 0 | 0 | 0 | 0 | 0 | 433 |
| Appropriations Total* | 23 | 0 | 410 | 0 | 0 | 0 | 0 | 0 | 433 |
| O & M Costs (Savings) | | | 0 | 2 | 2 | 2 | 2 | 2 | 11 |

Heavy Equipment Purchases - DWF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: New Investment **Start Date:** 1st Quarter 2007
Project ID: C4116-DWF **End Date:** Ongoing

Location: N/A

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 replaces existing heavy equipment (such as vactors, loaders, and bulldozers) used by SPU field crews, purchases new equipment, and retrofits existing equipment to meet SPU operational needs and initiatives.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|-------|-------|-------|-------|-------|-------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 1,824 | 4,534 | 1,645 | 1,233 | 1,555 | 1,799 | 1,666 | 14,256 |
| Project Total: | 0 | 1,824 | 4,534 | 1,645 | 1,233 | 1,555 | 1,799 | 1,666 | 14,256 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 1,824 | 4,534 | 1,645 | 1,233 | 1,555 | 1,799 | 1,666 | 14,256 |
| Appropriations Total* | 0 | 1,824 | 4,534 | 1,645 | 1,233 | 1,555 | 1,799 | 1,666 | 14,256 |
| O & M Costs (Savings) | | | 71 | 71 | 71 | 71 | 71 | 71 | 428 |
| Spending Plan | | 1,137 | 4,534 | 1,645 | 1,233 | 1,555 | 1,799 | 1,666 | 13,569 |

**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 Drive SW/32nd 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 funds SPU's share of a partnership with the Seattle Housing Authority (SHA) to construct 34 blocks of natural drainage system in SHA's High Point 120-acre redevelopment. The natural drainage system project retrofits 9% of the Longfellow Creek Watershed to meet the pre-developed pasture runoff conditions for the two-year design storm, as well as provide a distributed, block-scale water quality treatment system. The drainage system also includes construction of porous pavement sidewalks and one block of porous pavement street. The project enables SPU to achieve flood control and water quality objectives in the project area at a lower cost than through either development of a large regional drainage and water quality facility, or through retrofit of currently-developed streets to include natural drainage systems.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 2,654 | 876 | 721 | 168 | 108 | 83 | 0 | 0 | 4,610 |
| Project Total: | 2,654 | 876 | 721 | 168 | 108 | 83 | 0 | 0 | 4,610 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 2,654 | 876 | 721 | 168 | 108 | 83 | 0 | 0 | 4,610 |
| Appropriations Total* | 2,654 | 876 | 721 | 168 | 108 | 83 | 0 | 0 | 4,610 |
| O & M Costs (Savings) | | | 15 | 64 | 65 | 65 | 65 | 65 | 339 |
| Spending Plan | | 750 | 721 | 168 | 108 | 83 | 0 | 0 | 1,830 |

**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

I-5 Pavement Reconstruction - DWF

| | |
|---|-------------------------------------|
| BCL/Program Name: Shared Cost Projects | BCL/Program Code: C410B |
| Project Type: Improved Facility | Start Date: 1st Quarter 2007 |
| Project ID: C407022-DWF | End Date: 4th Quarter 2020 |

Location: I-5

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 program relocates or replaces drainage and wastewater related facilities affected by the Washington State Department of Transportation's (WSDOT) I-5 Pavement Reconstruction Project. WSDOT plans to reconstruct 16 miles of I-5 pavement from Tukwila/Seattle city limits north to NE 145th. Interstate 5, the only north-south interstate freeway in Washington state, carries 280,000 vehicles through Seattle per day and as a result, the pavement is wearing out. I-5 was built in the 1960s, and its use has exceeded its lifespan. The concrete is now 40 years old and needs to be replaced. Repairing I-5 offers a unique opportunity to improve traffic flow and meet current drainage code requirements. The projects will be coordinated with other transportation projects in the area including the Alaskan Way Viaduct project, the SR 520 Bridge Replacement project, Light Rail, and I-405 and SR 509 improvements. The confidence level of the cost estimate is low due to the early planning stage for this project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 132 | 139 | 150 | 163 | 167 | 180 | 168 | 1,099 |
| Project Total: | 0 | 132 | 139 | 150 | 163 | 167 | 180 | 168 | 1,099 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 132 | 139 | 150 | 163 | 167 | 180 | 168 | 1,099 |
| Appropriations Total* | 0 | 132 | 139 | 150 | 163 | 167 | 180 | 168 | 1,099 |
| 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

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 2013 |

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 program integrates drainage and wastewater field data into the new Supervisory Control and Data Acquisition (SCADA) system installed as part of CIP project C195008. This program is broken down into two concurrent projects. Project One will integrate wastewater and surface water field monitoring systems into the new SCADA system at the Operations Control Center. This will upgrade approximately 85 combined sewer overflow sites, 68 wastewater lift stations, 17 rain gauge sites, and the communication infrastructure. The project defines and implements processes, procedures, and interfaces to make quality-validated SCADA measurement data available to operators, planners, and management. This data will be used to assist in capacity planning, validating repairs, assessing new permits, and prioritizing planned maintenance. Project Two integrates SCADA with SPU asset and maintenance information management systems. SCADA measurement data will be used to assist in capacity planning, validating repairs, and identifying blockages.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|-------|-------|-------|-------|-------|-------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 2 | 1,446 | 3,775 | 2,980 | 3,297 | 3,727 | 3,934 | 4,157 | 23,318 |
| Project Total: | 2 | 1,446 | 3,775 | 2,980 | 3,297 | 3,727 | 3,934 | 4,157 | 23,318 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 2 | 1,446 | 3,775 | 2,980 | 3,297 | 3,727 | 3,934 | 4,157 | 23,318 |
| Appropriations Total* | 2 | 1,446 | 3,775 | 2,980 | 3,297 | 3,727 | 3,934 | 4,157 | 23,318 |
| O & M Costs (Savings) | | | 319 | 499 | 594 | 689 | 784 | 784 | 3,669 |

**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

Intergovernmental Shares - DRN

BCL/Program Name: Landslide Mitigation & Special Programs **BCL/Program Code:** C335B
Project Type: New Facility **Start Date:** 1st Quarter 2004
Project ID: C3355 **End Date:** 4th Quarter 2008

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 program provides funding to enable SPU to collaborate with other City departments that are implementing projects that have a drainage fund nexus and create a benefit for the drainage system. Proposed projects must meet specific criteria to be eligible for funding. SPU is responsible for selecting the projects that will participate in the program. By 2009, this project will transition to the Drainage & Wastewater Partnership Program (C3335), which has a broader pool of applicants.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|-------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 375 | 1,975 | 1,873 | 0 | 0 | 0 | 0 | 0 | 4,223 |
| Project Total: | 375 | 1,975 | 1,873 | 0 | 0 | 0 | 0 | 0 | 4,223 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 375 | 1,975 | 1,873 | 0 | 0 | 0 | 0 | 0 | 4,223 |
| Appropriations Total* | 375 | 1,975 | 1,873 | 0 | 0 | 0 | 0 | 0 | 4,223 |
| 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

Intergovernmental Shares - WW

BCL/Program Name: Wastewater Conveyance

BCL/Program Code: C320B

Project Type: New Facility

Start Date: 1st Quarter 2004

Project ID: C3205

End Date: 4th Quarter 2008

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 program provides funding to enable SPU to collaborate with other City departments that are implementing projects that have a wastewater fund nexus and that create a benefit for the wastewater system. Proposed projects must meet specific criteria to be eligible for funding. SPU is responsible for selecting the projects that will participate in the program. By 2009, this project will transition to the Drainage & Wastewater Partnership Program (C3203), which has a broader pool of applicants.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 251 | 300 | 308 | 0 | 0 | 0 | 0 | 0 | 859 |
| Project Total: | 251 | 300 | 308 | 0 | 0 | 0 | 0 | 0 | 859 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 251 | 300 | 308 | 0 | 0 | 0 | 0 | 0 | 859 |
| Appropriations Total* | 251 | 300 | 308 | 0 | 0 | 0 | 0 | 0 | 859 |
| 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

Jackson Park Detention - Phase 2

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: 2nd Quarter 1999

Project ID: C399305

End Date: 4th Quarter 2009

Location: 1000 NE 135th St

Neighborhood Plan: Broadview-Bitter Lake-Haller Lake

Neighborhood Plan Matrix: N/A

Neighborhood District: North

Urban Village: Not in an Urban Village

The project constructed three detention ponds in the Jackson Park golf course, rerouted 1,600 feet of Thornton Creek channel and improved habitat for fish and wildlife. This project was substantially completed in 2003 and physical completion notice was issued in April 2004. Remaining work includes post-construction monitoring, reporting to external agencies and riparian plant establishment to meet Federal permitting requirements. This project is in the close out phase.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|--------|------|------|------|------|------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 10,664 | 123 | 38 | 53 | 0 | 0 | 0 | 0 | 10,878 |
| Project Total: | 10,664 | 123 | 38 | 53 | 0 | 0 | 0 | 0 | 10,878 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 10,664 | 123 | 38 | 53 | 0 | 0 | 0 | 0 | 10,878 |
| Appropriations Total* | 10,664 | 123 | 38 | 53 | 0 | 0 | 0 | 0 | 10,878 |
| O & M Costs (Savings) | | | 45 | 45 | 45 | 45 | 45 | 45 | 270 |
| Spending Plan | | 67 | 38 | 53 | 0 | 0 | 0 | 0 | 158 |

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: C408S05

End Date: 4th Quarter 2008

Location: 303 S Jackson St

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 will replace or relocate SPU drainage and wastewater facilities impacted by SDOT work at King Street Station. In addition, SPU will evaluate opportunities for low-impact development treatment, such as disconnecting roof drains and creating mini-swales for drainage. The SDOT project is to rehabilitate the historically-designated King Street Station structure that is being acquired from Burlington Northern Santa Fe Railway.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 0 | 308 | 0 | 0 | 0 | 0 | 0 | 308 |
| Project Total: | 0 | 0 | 308 | 0 | 0 | 0 | 0 | 0 | 308 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 0 | 308 | 0 | 0 | 0 | 0 | 0 | 308 |
| Appropriations Total* | 0 | 0 | 308 | 0 | 0 | 0 | 0 | 0 | 308 |
| O & M Costs (Savings) | | | 0 | 2 | 2 | 2 | 2 | 2 | 8 |

**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 2013

Location: Lakewood Avenue South

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Southeast

Urban Village: Columbia City

This project studies decentralized alternatives to manage the collection, conveyance, and disposal of stormwater in combined sewer or partially separated sewer basins. The project also implements a stormwater cistern and rain garden demonstration project in the Lakewood Avenue SE neighborhood, which includes conducting pre- and post-project monitoring, marketing, and modeling. The project was created in 2004 by Ordinance 121553, and is partially funded by a \$1.3 million grant from the EPA. The confidence in the budget is low as this project is still in preliminary engineering.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 428 | 551 | 523 | 170 | 60 | 64 | 49 | 58 | 1,903 |
| Project Total: | 428 | 551 | 523 | 170 | 60 | 64 | 49 | 58 | 1,903 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 428 | 551 | 523 | 170 | 60 | 64 | 49 | 58 | 1,903 |
| Appropriations Total* | 428 | 551 | 523 | 170 | 60 | 64 | 49 | 58 | 1,903 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 235 | 523 | 170 | 60 | 64 | 49 | 58 | 1,159 |

**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

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 2009

Location:

Neighborhood Plan: Broadview-Bitter Lake-Haller Lake

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: Bitter Lake Village

This project will investigate sewer capacity issues along Linden Ave North and will implement solutions to accommodate increased demands. Work will include design and construction of a new sewer main to meet future wastewater demands. Work will be integrated with SPU drainage improvements and SDOT's Linden Avenue North Complete Streets Project, which includes road improvements, bike lanes, curbs, gutters, sidewalks and landscaping. The confidence level in the current cost estimate is low. Amounts for 2009 are largely a placeholder for design support, and out-year spending will be budgeted in future CIPs when project scope and schedules have been further defined.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 0 | 0 | 500 | 0 | 0 | 0 | 0 | 500 |
| Project Total: | 0 | 0 | 0 | 500 | 0 | 0 | 0 | 0 | 500 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 0 | 0 | 500 | 0 | 0 | 0 | 0 | 500 |
| Appropriations Total* | 0 | 0 | 0 | 500 | 0 | 0 | 0 | 0 | 500 |
| 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

Linden Avenue N. Drainage

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: 1st Quarter 2008

Project ID: C308007

End Date: 4th Quarter 2010

Location:

Neighborhood Plan: Broadview-Bitter Lake-Haller Lake

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: Bitter Lake Village

This project would fund SPU drainage improvements and upgrades associated with SDOT's Linden Avenue North Complete Streets Project from N. 130th Street to N. 145th Street. The confidence level in the current cost estimate is low. Amounts for 2009 are largely a placeholder for design support, and out-year spending will be budgeted in future CIPs when project scope and schedules have been further defined.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 0 | 0 | 500 | 500 | 0 | 0 | 0 | 1,000 |
| Project Total: | 0 | 0 | 0 | 500 | 500 | 0 | 0 | 0 | 1,000 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 0 | 0 | 500 | 500 | 0 | 0 | 0 | 1,000 |
| Appropriations Total* | 0 | 0 | 0 | 500 | 500 | 0 | 0 | 0 | 1,000 |
| 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

Localized Flood Control Program

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: Ongoing

Project ID: C3312

End Date: 4th Quarter 2013

Location: N/A

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 program reduces flooding and the impacts of stormwater associated with the local collection and conveyance system. This local system is a secondary system of pipes, ditches, creek tributaries, culverts, inlets, and catch basins that collect and convey stormwater runoff to the primary (a.k.a. trunk) conveyance system, though in some instances the secondary system discharges directly to a receiving water body. This program will bridge the gap between Spot Drainage projects and Major CIP projects. The construction of these medium-size projects will help reduce flooding throughout the City. The confidence level in the current cost estimate is low.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|-------|------|-------|------|-------|-------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 684 | 250 | 1,081 | 216 | 1,137 | 868 | 4,874 | 4,738 | 13,848 |
| Project Total: | 684 | 250 | 1,081 | 216 | 1,137 | 868 | 4,874 | 4,738 | 13,848 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 684 | 250 | 1,081 | 216 | 1,137 | 868 | 4,874 | 4,738 | 13,848 |
| Appropriations Total* | 684 | 250 | 1,081 | 216 | 1,137 | 868 | 4,874 | 4,738 | 13,848 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 442 | 1,081 | 216 | 1,137 | 868 | 4,874 | 4,738 | 13,356 |

**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 (Phase IV) will implement a permanent solution to stormwater flooding and side sewer backups in the Madison Valley area. Earlier phases of the project, including the Madison Valley Interim Solution Project (Madison Valley Phase III) constructed emergency and temporary solutions. These include storage of up to one million gallons of stormwater and flow control gates to reduce side sewer backups. However, computer flow modeling and additional basin and rainfall analysis has indicated that the required stormwater capacity during intense storm events could exceed three million gallons, necessitating further analysis and planning for a long-term solution. The initial project development plan was approved by SPU's Asset Management Committee. SPU is evaluating a range of solutions, with costs from \$15 million to \$80 million. The budget shown below reflects a mid-range estimate for rate-planning purposes and will be updated when a final concept is selected.

In the 2008 budget process, Council adopted a proviso restricting spending on this project. Details are provided in the departmental narrative at the beginning of this section.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|-------|--------|--------|------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 1 | 3,172 | 3,725 | 15,776 | 12,931 | 110 | 56 | 58 | 35,829 |
| Project Total: | 1 | 3,172 | 3,725 | 15,776 | 12,931 | 110 | 56 | 58 | 35,829 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 1 | 3,172 | 3,725 | 15,776 | 12,931 | 110 | 56 | 58 | 35,829 |
| Appropriations Total* | 1 | 3,172 | 3,725 | 15,776 | 12,931 | 110 | 56 | 58 | 35,829 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 1,300 | 3,725 | 15,776 | 12,931 | 110 | 56 | 58 | 33,956 |

**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

Meadowbrook Outfall Rehabilitation

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: 1st Quarter 2005

Project ID: C353206

End Date: 2nd Quarter 2008

Location: Riviera Pl. NE & NE 105th & NE 106th St.

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: North

Urban Village: Not in an Urban Village

This project repairs or replaces three damaged outfall pipes discharging overflow stormwater from Meadowbrook Pond to Lake Washington at Riviera Place NE between NE 106th St. and NE 105th St. Alternatives to repairing or replacing the three outfall pipes were investigated, and the conditions of related structures, including a seawall, were assessed. Investigation has shown that since just two of the three outfall pipes could handle the design flow, only those pipes will be repaired, and the third outfall pipe will be abandoned.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 446 | 2,643 | 22 | 0 | 0 | 0 | 0 | 0 | 3,111 |
| Project Total: | 446 | 2,643 | 22 | 0 | 0 | 0 | 0 | 0 | 3,111 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 446 | 2,643 | 22 | 0 | 0 | 0 | 0 | 0 | 3,111 |
| Appropriations Total* | 446 | 2,643 | 22 | 0 | 0 | 0 | 0 | 0 | 3,111 |
| O & M Costs (Savings) | | | 0 | 12 | 12 | 12 | 12 | 12 | 60 |
| Spending Plan | | 1,715 | 22 | 0 | 0 | 0 | 0 | 0 | 1,737 |

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 program replaces customer meters that are not performing within the American Water Works Association's standards of accuracy due to obsolescence, incorrect application, or inability to repair. It is currently more cost effective to replace two-inch and smaller meters than it is to repair them. Three-inch and larger meters are repaired, if possible. SPU's Asset Management Committee has approved the program. The confidence level of the cost estimate is high.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 2,038 | 530 | 577 | 505 | 517 | 529 | 542 | 556 | 5,794 |
| Project Total: | 2,038 | 530 | 577 | 505 | 517 | 529 | 542 | 556 | 5,794 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 2,038 | 530 | 577 | 505 | 517 | 529 | 542 | 556 | 5,794 |
| Appropriations Total* | 2,038 | 530 | 577 | 505 | 517 | 529 | 542 | 556 | 5,794 |
| 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.*

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 project makes minor upgrades and replacements to sewer infrastructure by setting castings to grade on repaving projects, replacing existing castings with larger diameter castings to meet safety standards, and installing maintenance holes on existing sewer mainlines. Improvements are made after notification by SPU Field Operations or Construction Management staff. If these improvements are not done, surface water, groundwater infiltration, or stormwater inflow into the collection system will occur. This project was reviewed by SPU's Asset Management Committee as part of the overall Sewer Rehabilitation Programmatic Plan. The confidence level in this cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 103 | 96 | 90 | 100 | 108 | 116 | 124 | 116 | 853 |
| Project Total: | 103 | 96 | 90 | 100 | 108 | 116 | 124 | 116 | 853 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 103 | 96 | 90 | 100 | 108 | 116 | 124 | 116 | 853 |
| Appropriations Total* | 103 | 96 | 90 | 100 | 108 | 116 | 124 | 116 | 853 |
| O & M Costs (Savings) | | | 4 | 4 | 4 | 4 | 4 | 4 | 26 |
| Spending Plan | | 85 | 90 | 100 | 108 | 116 | 124 | 116 | 739 |

**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: New Facility

Start Date: 1st Quarter 2003

Project ID: C333205

End Date: 4th Quarter 2011

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 reduces flooding problems along Martin Luther King, Jr. Way S and adjacent streets by rehabilitating the existing system, eliminating bypasses to the sanitary sewer system, and providing a functioning conveyance system for future roadway and drainage improvements proposed by Sound Transit in 2008. The project removes petroleum-contaminated sediments from the existing system, provides improved maintenance access for future cleaning, increases the carrying capacity of the system to meet a 25-year performance level of service, improves storm water quality treatment using portion of the funding from Sound Transit, and reduces overall long-term maintenance costs. This project was initially reviewed by SPU's Asset Management Committee and will be reviewed again in 2008 during the design phase when more accurate construction estimates become available. The confidence level in the current cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|-------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 1,081 | 585 | 3,059 | 68 | 48 | 50 | 0 | 0 | 4,891 |
| Project Total: | 1,081 | 585 | 3,059 | 68 | 48 | 50 | 0 | 0 | 4,891 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 1,081 | 585 | 3,059 | 68 | 48 | 50 | 0 | 0 | 4,891 |
| Appropriations Total* | 1,081 | 585 | 3,059 | 68 | 48 | 50 | 0 | 0 | 4,891 |
| O & M Costs (Savings) | | | 2 | 2 | 2 | 2 | 2 | 2 | 12 |
| Spending Plan | | 800 | 3,059 | 68 | 48 | 50 | 0 | 0 | 4,025 |

**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

Mobility Improvement

BCL/Program Name: Landslide Mitigation & Special Programs

BCL/Program Code: C335B

Project Type: Improved Facility

Start Date: 1st Quarter 2004

Project ID: C333514

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 project funds drainage designers to work on Seattle Department of Transportation (SDOT) design functions and assist with cost estimates for transportation capital project grant applications. This coordination allows SPU to improve drainage in concert with transportation capital projects.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 900 | 308 | 309 | 316 | 323 | 331 | 339 | 347 | 3,173 |
| Project Total: | 900 | 308 | 309 | 316 | 323 | 331 | 339 | 347 | 3,173 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 900 | 308 | 309 | 316 | 323 | 331 | 339 | 347 | 3,173 |
| Appropriations Total* | 900 | 308 | 309 | 316 | 323 | 331 | 339 | 347 | 3,173 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 300 | 309 | 316 | 323 | 331 | 339 | 347 | 2,265 |

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

2008-2013 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

N 125th & Aurora N Storm Drain

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: 3rd Quarter 2002

Project ID: C302313

End Date: 4th Quarter 2010

Location: N 125th St/Aurora ave n

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: Bitter Lake Village

This project will coordinate with the Seattle Department of Transportation (SDOT) Aurora Transit, Pedestrian and Safety Improvements project TC36625, which installs new curbs, gutters, sidewalks, and a bus lane on Aurora Ave. N from N 110th St. to N 145th St. Stormwater facilities are associated with the SDOT project. The SDOT project will be required to meet City of Seattle stormwater requirements for the applicable project areas. SPU is analyzing potential stormwater improvements to augment the SDOT project improvements to match existing conditions in the downstream trunk drainage system. The SPU stormwater improvements may include new and/or modified existing stormwater flow control facilities (i.e., detention), conveyance, and water quality facilities. This project was reviewed by SPU's Asset Management Committee. The confidence level in the current cost estimate is low.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 916 | 403 | 567 | 484 | 460 | 0 | 0 | 0 | 2,830 |
| Project Total: | 916 | 403 | 567 | 484 | 460 | 0 | 0 | 0 | 2,830 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 916 | 403 | 567 | 484 | 460 | 0 | 0 | 0 | 2,830 |
| Appropriations Total* | 916 | 403 | 567 | 484 | 460 | 0 | 0 | 0 | 2,830 |
| O & M Costs (Savings) | | | 0 | 0 | 2 | 2 | 2 | 2 | 8 |
| Spending Plan | | 120 | 567 | 484 | 460 | 0 | 0 | 0 | 1,631 |

**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 assesses unimproved right-of-way and right-of-way redevelopment opportunities within the city and identifies areas suitable for enhancing existing drainage systems. In addition to identifying natural system drainage areas based on surface water management goals, the project assesses neighborhood, land use, and transportation objectives for the right-of-way. The project produces a suitability map for natural system surface water management in the right-of-way. The project also identifies a menu of options for natural system enhancement based on local condition criteria and drainage basin performance goals relative to conveyance, detention, or treatment. Each option is developed for consideration in the city's Street Improvement Manual, and includes right-of-way elements, configuration, and dimensions. For each option, associated standard plans are developed for consideration in the Standard Plans update to assist SPU in prioritizing drainage improvements.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|-------|-------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 527 | 169 | 122 | 421 | 539 | 551 | 2,709 | 3,467 | 8,505 |
| Project Total: | 527 | 169 | 122 | 421 | 539 | 551 | 2,709 | 3,467 | 8,505 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 527 | 169 | 122 | 421 | 539 | 551 | 2,709 | 3,467 | 8,505 |
| Appropriations Total* | 527 | 169 | 122 | 421 | 539 | 551 | 2,709 | 3,467 | 8,505 |
| O & M Costs (Savings) | | | 43 | 43 | 43 | 43 | 43 | 43 | 255 |
| Spending Plan | | 134 | 122 | 421 | 539 | 551 | 2,709 | 3,467 | 7,943 |

**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

Neighborhood Drainage/Climate Bonus Matching Grant Project

BCL/Program Name: Landslide Mitigation & Special Programs **BCL/Program Code:** C335B
Project Type: New Facility **Start Date:** 1st Quarter 2007
Project ID: C307020 **End Date:** Ongoing

Location: N/A

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

This matching grant project funds community-based drainage projects that have important drainage benefits and additional value in meeting climate protection goals. It seeks to leverage SPU's drainage efforts with a dollar-for-dollar contribution of volunteer labor and donated materials and services. This project was added to the 2007-2012 Adopted CIP by Council action. 2007 and 2008 will be pilot years for the program, which is currently in a preliminary phase of development.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 150 | 156 | 158 | 162 | 165 | 169 | 173 | 1,133 |
| Project Total: | 0 | 150 | 156 | 158 | 162 | 165 | 169 | 173 | 1,133 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 150 | 156 | 158 | 162 | 165 | 169 | 173 | 1,133 |
| Appropriations Total* | 0 | 150 | 156 | 158 | 162 | 165 | 169 | 173 | 1,133 |
| O & M Costs (Savings) | | | 6 | 6 | 6 | 6 | 6 | 6 | 34 |

No Dig Pipe & Maintenance Rehabilitation

BCL/Program Name: Wastewater Conveyance **BCL/Program Code:** C320B
Project Type: Rehabilitation or Restoration **Start Date:** Ongoing
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 program rehabilitates sewer pipes prior to complete failure. Trenchless, or "No Dig", technology is used for full line replacements, and avoids surface use disruption and costly surface repairs. This program was reviewed by SPU's Asset Management Committee as part of the overall Sewer Rehabilitation Programmatic Plan. The confidence level in this cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 6,597 | 1,346 | 3,200 | 2,773 | 2,164 | 2,769 | 2,834 | 3,582 | 25,265 |
| Project Total: | 6,597 | 1,346 | 3,200 | 2,773 | 2,164 | 2,769 | 2,834 | 3,582 | 25,265 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 6,597 | 1,346 | 3,200 | 2,773 | 2,164 | 2,769 | 2,834 | 3,582 | 25,265 |
| Appropriations Total* | 6,597 | 1,346 | 3,200 | 2,773 | 2,164 | 2,769 | 2,834 | 3,582 | 25,265 |
| O & M Costs (Savings) | | | 132 | 132 | 132 | 132 | 132 | 132 | 792 |
| Spending Plan | | 2,346 | 3,200 | 2,773 | 2,164 | 2,769 | 2,834 | 3,582 | 19,668 |

**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: 2700 Airport Wy S

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 improves operational facilities within the city limits that support SPU management, operations and maintenance business functions, workforce, material, and equipment. Sub-projects within this program will go to the SPU's Asset Management Committee for approval.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 2,457 | 1,823 | 867 | 885 | 907 | 869 | 890 | 913 | 9,611 |
| Project Total: | 2,457 | 1,823 | 867 | 885 | 907 | 869 | 890 | 913 | 9,611 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 2,457 | 1,823 | 867 | 885 | 907 | 869 | 890 | 913 | 9,611 |
| Appropriations Total* | 2,457 | 1,823 | 867 | 885 | 907 | 869 | 890 | 913 | 9,611 |
| O & M Costs (Savings) | | | 48 | 48 | 48 | 48 | 48 | 48 | 288 |
| Spending Plan | | 870 | 867 | 885 | 907 | 869 | 890 | 913 | 6,201 |

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: 2700 Airport Wy 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 program conducts studies, assessments, planning, design, and purchases for operational facility assets within the city limits. In 2011-2012, SPU is planning to focus improvements on water-funded projects. This focus may change over time as projects are prioritized. Sub-projects within this program will go to SPU's Asset Management Committee for approval.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 146 | 626 | 71 | 65 | 67 | 10 | 10 | 10 | 1,005 |
| Project Total: | 146 | 626 | 71 | 65 | 67 | 10 | 10 | 10 | 1,005 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 146 | 626 | 71 | 65 | 67 | 10 | 10 | 10 | 1,005 |
| Appropriations Total* | 146 | 626 | 71 | 65 | 67 | 10 | 10 | 10 | 1,005 |
| O & M Costs (Savings) | | | 5 | 5 | 5 | 5 | 5 | 5 | 29 |
| Spending Plan | | 790 | 71 | 65 | 67 | 10 | 10 | 10 | 1,023 |

**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: 4th Quarter 2010 |

Location: 2700 Airport Wy S

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: Not in an Urban Village

This program rehabilitates, replaces, and constructs new improvements at the Operations Control Center complex to support the business needs of SPU's operational work force. Projects within this program include proposed Main Warehouse roof replacement, Main Warehouse lighting improvements, Operations Control Center public space improvements and Main Warehouse office space improvements. These proposed projects are necessary to address deferred maintenance of the Main Warehouse and other structures at the Operations Control Center complex. Sub-projects within this program will go to the SPU Asset Management Committee for approval.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 1,610 | 640 | 85 | 377 | 45 | 0 | 0 | 0 | 2,757 |
| Project Total: | 1,610 | 640 | 85 | 377 | 45 | 0 | 0 | 0 | 2,757 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 1,610 | 640 | 85 | 377 | 45 | 0 | 0 | 0 | 2,757 |
| Appropriations Total* | 1,610 | 640 | 85 | 377 | 45 | 0 | 0 | 0 | 2,757 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 14 | 14 | 14 | 41 |
| Spending Plan | | 706 | 85 | 377 | 45 | 0 | 0 | 0 | 1,213 |

**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

Pinehurst Natural Drainage System

BCL/Program Name: Low Impact Development

BCL/Program Code: C334B

Project Type: New Facility

Start Date: 4th Quarter 2002

Project ID: C333202

End Date: 4th Quarter 2009

Location: Thornton Creek Watershed/NE 113th St and 23rd Ave. NE/NE 117th St. and 16th Ave. NE

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Northeast

Urban Village: Not in an Urban Village

This project constructs natural drainage system improvements to convey stormwater, using the unimproved right-of-way as a starting point for design. Construction of the project is complete, and it is currently in the first of a three year landscape establishment period. The project scope includes constructing an engineered system of swales or other design alternatives to detain runoff, filter pollutants, and allow maximum opportunity for infiltration; using native vegetation as a stormwater management element, as well as for aesthetic appeal; and constructing a sidewalk on one side of each street within the project area. The project installs natural drainage systems on approximately 11.5 blocks (330 ft. per block) in the project area. In addition, some ditch and culvert systems are installed to mitigate existing spot drainage problems. The project is partially funded with a \$3.7 million state Public Works Trust Fund loan, which was approved by Ordinance 121464 in 2004.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 4,986 | 30 | 85 | 50 | 0 | 0 | 0 | 0 | 5,151 |
| Project Total: | 4,986 | 30 | 85 | 50 | 0 | 0 | 0 | 0 | 5,151 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 4,986 | 30 | 85 | 50 | 0 | 0 | 0 | 0 | 5,151 |
| Appropriations Total* | 4,986 | 30 | 85 | 50 | 0 | 0 | 0 | 0 | 5,151 |
| O & M Costs (Savings) | | | 3 | 3 | 7 | 7 | 7 | 7 | 34 |
| Spending Plan | | 167 | 85 | 50 | 0 | 0 | 0 | 0 | 302 |

**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 program rehabilitates and/or replaces failing and misaligned sewer pipes throughout the city. An ongoing closed circuit television inspection program identifies pipes to be replaced. This program prevents complete pipe collapse by providing small repairs at numerous sites throughout the city, avoiding more costly full-line failures or repairs. This rehabilitation program is performed by outside contractors.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|-------|------|-------|-------|-------|-------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 1,908 | 1,078 | 1,218 | 889 | 1,078 | 1,103 | 1,129 | 1,078 | 9,481 |
| Project Total: | 1,908 | 1,078 | 1,218 | 889 | 1,078 | 1,103 | 1,129 | 1,078 | 9,481 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 1,908 | 1,078 | 1,218 | 889 | 1,078 | 1,103 | 1,129 | 1,078 | 9,481 |
| Appropriations Total* | 1,908 | 1,078 | 1,218 | 889 | 1,078 | 1,103 | 1,129 | 1,078 | 9,481 |
| O & M Costs (Savings) | | | 25 | 25 | 25 | 25 | 25 | 25 | 150 |
| Spending Plan | | 734 | 1,218 | 889 | 1,078 | 1,103 | 1,129 | 1,078 | 7,229 |

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 program rehabilitates and/or replaces failing and misaligned sewer pipes throughout the city. An ongoing closed circuit television inspection program identifies pipes to be replaced. This program prevents complete pipe collapse by providing small repairs at numerous sites throughout the city, avoiding more costly full-line failures or repairs. This rehabilitation program is performed by City crews.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|--------|-------|-------|-------|-------|-------|-------|-------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 11,534 | 2,410 | 2,830 | 3,210 | 3,718 | 4,399 | 4,177 | 3,582 | 35,860 |
| Project Total: | 11,534 | 2,410 | 2,830 | 3,210 | 3,718 | 4,399 | 4,177 | 3,582 | 35,860 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 11,534 | 2,410 | 2,830 | 3,210 | 3,718 | 4,399 | 4,177 | 3,582 | 35,860 |
| Appropriations Total* | 11,534 | 2,410 | 2,830 | 3,210 | 3,718 | 4,399 | 4,177 | 3,582 | 35,860 |
| O & M Costs (Savings) | | | 50 | 50 | 50 | 50 | 50 | 50 | 300 |

**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

Post-Construction Monitoring

| | |
|---|-------------------------------------|
| BCL/Program Name: Control Structures | BCL/Program Code: C310B |
| Project Type: New Investment | Start Date: 1st Quarter 2007 |
| Project ID: C307003 | End Date: 4th Quarter 2013 |

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 develops a Post-Construction Compliance Monitoring Plan, a requirement of the National Pollutant Discharge Elimination System (NPDES) permit. The plan may detail measures for the effectiveness of Combined Sewer Overflow (CSO) controls, and may be used to demonstrate attainment of water quality standards. The plan may include monitoring protocols for biological assessments, ambient monitoring, and related activities. SPU's Asset Management Committee will review and approve the project in 2008. Confidence in the cost estimate is low.

In the 2008 budget process, Council adopted a proviso restricting spending on this project. Details are provided in the departmental narrative at the beginning of this section.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 59 | 50 | 0 | 108 | 110 | 113 | 116 | 556 |
| Project Total: | 0 | 59 | 50 | 0 | 108 | 110 | 113 | 116 | 556 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 59 | 50 | 0 | 108 | 110 | 113 | 116 | 556 |
| Appropriations Total* | 0 | 59 | 50 | 0 | 108 | 110 | 113 | 116 | 556 |
| 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

Pump Station and Force Main Improvements

BCL/Program Name: Control Structures **BCL/Program Code:** C310B
Project Type: New 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 wastewater pump station and force main improvements, upgrades, repairs and rehabilitation. Typical improvements may include design and installation of emergency generators, and material and labor costs for equipment replacement (pumps and valves), as well as equipment for the remote monitoring system. This program implements the Pump Station Asset Management Plan. This program combines C3102 Pump Station Improvements and C3103 Force Main Improvements, which were listed separately in the 2007-2012 Adopted CIP.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|-------|-------|-------|-------|-------|-------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 853 | 661 | 1,353 | 1,798 | 1,832 | 1,875 | 1,919 | 1,964 | 12,255 |
| Project Total: | 853 | 661 | 1,353 | 1,798 | 1,832 | 1,875 | 1,919 | 1,964 | 12,255 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 853 | 661 | 1,353 | 1,798 | 1,832 | 1,875 | 1,919 | 1,964 | 12,255 |
| Appropriations Total* | 853 | 661 | 1,353 | 1,798 | 1,832 | 1,875 | 1,919 | 1,964 | 12,255 |
| O & M Costs (Savings) | | | 61 | 61 | 61 | 61 | 61 | 61 | 368 |
| Spending Plan | | 750 | 1,353 | 1,798 | 1,832 | 1,875 | 1,919 | 1,964 | 11,491 |

Pump Station Optimization Study

BCL/Program Name: Control Structures **BCL/Program Code:** C310B
Project Type: New Investment **Start Date:** 1st Quarter 2009
Project ID: C307012 **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 study examines the optimal methods and timing for operating and maintaining the pump stations. It may include evaluation of alternative technologies for cleaning or assessment of force mains, pumps, or ancillary equipment/infrastructure. SPU's Asset Management Committee will review and approve the project. Confidence in the cost estimate is low.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 0 | 0 | 105 | 54 | 0 | 0 | 0 | 159 |
| Project Total: | 0 | 0 | 0 | 105 | 54 | 0 | 0 | 0 | 159 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 0 | 0 | 105 | 54 | 0 | 0 | 0 | 159 |
| Appropriations Total* | 0 | 0 | 0 | 105 | 54 | 0 | 0 | 0 | 159 |
| O & M Costs (Savings) | | | 0 | 100 | 50 | 1 | 1 | 1 | 153 |

**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: 3rd Quarter 2016

Location: N/A

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 facilities for Combined Sewer Overflow (CSO) reduction in the S Genesee area. Major work includes flow monitoring, system modeling, facility planning, preliminary engineering, design, permitting, land acquisition (if necessary) and construction. The project schedule has been revised from the 2001 CSO Plan to account for project development; work performed under the CSO Facility Retrofit project (C302102), which may reduce the size of the necessary facilities in this basin; and potential coordination with King County. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|-------|-------|-------|-------|-------|-------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 533 | 743 | 1,349 | 1,104 | 1,024 | 5,955 | 9,482 | 3,582 | 23,772 |
| Project Total: | 533 | 743 | 1,349 | 1,104 | 1,024 | 5,955 | 9,482 | 3,582 | 23,772 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 533 | 743 | 1,349 | 1,104 | 1,024 | 5,955 | 9,482 | 3,582 | 23,772 |
| Appropriations Total* | 533 | 743 | 1,349 | 1,104 | 1,024 | 5,955 | 9,482 | 3,582 | 23,772 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 1,101 | 1,349 | 1,104 | 1,024 | 5,955 | 9,482 | 3,582 | 23,597 |

**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 2017 |

Location: N/A

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 facilities for Combined Sewer Overflow (CSO) reduction in the S Henderson/Rainier Avenue S area. Major work includes flow monitoring, system modeling, facility planning, preliminary engineering, design, permits, land acquisition (if necessary), and construction. The project schedule has been revised from the 2001 CSO Plan to account for project development; work performed under the CSO Facility Retrofit project (C302102), which may reduce the size of the necessary facilities in this basin; and potential coordination with King County. This project is in a preliminary phase of development and cost estimates will be revised over time. This project has been approved by SPU's Asset Management Committee. In addition, this project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|-------|------|-------|-------|--------|-------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 622 | 477 | 1,283 | 833 | 3,318 | 4,784 | 13,559 | 8,851 | 33,727 |
| Project Total: | 622 | 477 | 1,283 | 833 | 3,318 | 4,784 | 13,559 | 8,851 | 33,727 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 622 | 477 | 1,283 | 833 | 3,318 | 4,784 | 13,559 | 8,851 | 33,727 |
| Appropriations Total* | 622 | 477 | 1,283 | 833 | 3,318 | 4,784 | 13,559 | 8,851 | 33,727 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 573 | 1,283 | 833 | 3,318 | 4,784 | 13,559 | 8,851 | 33,201 |

**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

Salmon Bay Phase 2 Acquisition & Restoration

BCL/Program Name: Landslide Mitigation & Special Programs **BCL/Program Code:** C335B
Project Type: Improved Facility **Start Date:** 2nd Quarter 2003
Project ID: C333307 **End Date:** 1st 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

The project is a community-driven public access and habitat restoration project spearheaded by Groundswell Northwest and carried forth by Seattle Public Utilities. Most of the improvements will occur within the 34th Avenue Street end, while remaining improvements will occur on neighboring City property to the west. The Salmon Bay Natural Area is the only remaining wooded shoreline in Ballard that provides refuge and rearing habitat for juvenile salmon as they migrate to Puget Sound. The project goal is to improve shoreline habitat at the site. Another aspect of the project is to create opportunities to improve public access by building pedestrian paths and installing a public “viewing area” with interpretive signage. The interpretive signage captures the details of the unique natural and cultural history of the site. It also 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 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 580 | 106 | 1 | 1 | 1 | 0 | 0 | 0 | 689 |
| Project Total: | 580 | 106 | 1 | 1 | 1 | 0 | 0 | 0 | 689 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 580 | 106 | 1 | 1 | 1 | 0 | 0 | 0 | 689 |
| Appropriations Total* | 580 | 106 | 1 | 1 | 1 | 0 | 0 | 0 | 689 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 3 | 3 | 3 | 10 |
| Spending Plan | | 310 | 1 | 1 | 1 | 0 | 0 | 0 | 313 |

**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

Sanitary Sewer Overflow Capacity

BCL/Program Name: Wastewater Conveyance

BCL/Program Code: C320B

Project Type: New Investment

Start Date: 2nd Quarter 2002

Project ID: C302205

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 project identifies utility gaps in complying with proposed federal Sanitary Sewer Overflow (SSO) regulations and promotes programs and projects that improve collection system practices. Key priority goals for achieving collection system compliance may include control of Fats, Oils, and Grease (FOG); developing an Overflow Emergency Response Plan; providing adequate conveyance capacity; and eliminating and mitigating SSOs via configuration management.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|-------|-------|-------|-------|-------|-------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 569 | 243 | 1,071 | 1,133 | 1,190 | 1,199 | 1,227 | 1,271 | 7,903 |
| Project Total: | 569 | 243 | 1,071 | 1,133 | 1,190 | 1,199 | 1,227 | 1,271 | 7,903 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 569 | 243 | 1,071 | 1,133 | 1,190 | 1,199 | 1,227 | 1,271 | 7,903 |
| Appropriations Total* | 569 | 243 | 1,071 | 1,133 | 1,190 | 1,199 | 1,227 | 1,271 | 7,903 |
| O & M Costs (Savings) | | | 40 | 40 | 40 | 40 | 40 | 40 | 237 |
| Spending Plan | | 354 | 1,071 | 1,133 | 1,190 | 1,199 | 1,227 | 1,271 | 7,445 |

**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 stormwater treatment facilities to mitigate more than eight acres of new roadway in Southeast Seattle created as part of the Seattle Housing Authority's (SHA) low-income housing redevelopments, Rainier Vista and NewHolly Phase 3. The Seattle Municipal Code requires water quality treatment for runoff from new or replaced vehicular surfaces and allows off-site mitigation when approved by the SPU Director. SHA has agreed to reimburse the capital costs for SPU to identify and construct a water quality project or projects that provide equivalent or greater benefits to the Lake Washington drainage basin than facilities built at the project site. In 2006, Ordinance 122018 authorized SPU to enter into a Memorandum of Agreement with SHA to accept voluntary contributions for these stormwater treatment facilities.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 95 | 356 | 337 | 652 | 280 | 0 | 0 | 0 | 1,720 |
| Project Total: | 95 | 356 | 337 | 652 | 280 | 0 | 0 | 0 | 1,720 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 95 | 356 | 337 | 652 | 280 | 0 | 0 | 0 | 1,720 |
| Appropriations Total* | 95 | 356 | 337 | 652 | 280 | 0 | 0 | 0 | 1,720 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 218 | 337 | 652 | 280 | 0 | 0 | 0 | 1,487 |

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

2008-2013 Adopted Capital Improvement Program

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 2012 |

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 project improves security and protection of SPU's drainage and wastewater facilities. This is a programmatic project that includes analysis of system vulnerabilities and implementation of security improvements to increase emergency response capabilities and reduce security risks to critical SPU assets. Improvements include integration of security access control systems, alarms, and procedures; physical improvements to facilities (card readers, cameras, monitoring systems, fence upgrades, gate improvements, and hardening of critical infrastructure); and technology improvements to increase communications, response and investigation capabilities.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 7 | 718 | 518 | 631 | 647 | 662 | 677 | 0 | 3,860 |
| Project Total: | 7 | 718 | 518 | 631 | 647 | 662 | 677 | 0 | 3,860 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 7 | 718 | 518 | 631 | 647 | 662 | 677 | 0 | 3,860 |
| Appropriations Total* | 7 | 718 | 518 | 631 | 647 | 662 | 677 | 0 | 3,860 |
| O & M Costs (Savings) | | | 97 | 97 | 97 | 97 | 97 | 97 | 582 |
| Spending Plan | | 867 | 518 | 631 | 647 | 662 | 677 | 0 | 4,002 |

**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 - DRN

| | |
|--|-------------------------------------|
| BCL/Program Name: Sediments | BCL/Program Code: C350B |
| Project Type: Rehabilitation or Restoration | Start Date: 4th Quarter 2000 |
| Project ID: C3501 | End Date: Ongoing |

Location: N/A

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 studies and analyzes the cleanup of contaminated sediment sites in which the City is a participant, performs the actual cleanup of contaminated sites, performs preliminary engineering for future cleanup efforts, and conducts 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. This program supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments. Seattle Public Utilities (SPU) is planning on deferring the costs of this project under the Financial Accounting Standards Board Statement 71 (FAS 71).

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|-------|-------|-------|------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 4,513 | 3,393 | 3,254 | 3,020 | 1,740 | 108 | 8 | 16 | 16,052 |
| Project Total: | 4,513 | 3,393 | 3,254 | 3,020 | 1,740 | 108 | 8 | 16 | 16,052 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 4,513 | 3,393 | 3,254 | 3,020 | 1,740 | 108 | 8 | 16 | 16,052 |
| Appropriations Total* | 4,513 | 3,393 | 3,254 | 3,020 | 1,740 | 108 | 8 | 16 | 16,052 |
| O & M Costs (Savings) | | | 80 | 80 | 80 | 80 | 80 | 80 | 482 |
| Spending Plan | | 2,262 | 3,254 | 3,020 | 1,740 | 108 | 8 | 16 | 10,408 |

**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 - WW

| | |
|--|-------------------------------------|
| BCL/Program Name: Sediments | BCL/Program Code: C350B |
| Project Type: Rehabilitation or Restoration | Start Date: 4th Quarter 2000 |
| Project ID: C3502 | End Date: Ongoing |

Location: N/A

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 studies and analyzes the cleanup of contaminated sediment sites in which the City is a participant, performs the actual cleanup of contaminated sites, performs preliminary engineering for future clean-up efforts, and conducts 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. This program supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments. Seattle Public Utilities (SPU) is planning on deferring the costs of this project under the Financial Accounting Standards Board Statement 71 (FAS 71).

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 3,635 | 1,416 | 992 | 549 | 51 | 6 | 5 | 1 | 6,655 |
| Project Total: | 3,635 | 1,416 | 992 | 549 | 51 | 6 | 5 | 1 | 6,655 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 3,635 | 1,416 | 992 | 549 | 51 | 6 | 5 | 1 | 6,655 |
| Appropriations Total* | 3,635 | 1,416 | 992 | 549 | 51 | 6 | 5 | 1 | 6,655 |
| O & M Costs (Savings) | | | 33 | 33 | 33 | 33 | 33 | 33 | 200 |
| Spending Plan | | 1,025 | 992 | 549 | 51 | 6 | 5 | 1 | 2,629 |

**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 Survey

BCL/Program Name: Control Structures

BCL/Program Code: C310B

Project Type: New Investment

Start Date: 1st Quarter 2007

Project ID: C307007

End Date: 4th Quarter 2008

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 will develop a sediment survey report to meet National Pollutant Discharge Elimination System (NPDES) permit requirements. The study may include a summary of sediment data and findings. The project will conduct a literature search of all relevant sediment data in the area of the City's CSO outfalls. The consequence of not completing this project is non-compliance with the CSO NPDES permit, which may result in fines or other consequences (e.g., consent decree, administrative order). SPU's Asset Management Committee reviewed and approved the project. Confidence in the cost estimate is low.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 107 | 8 | 0 | 0 | 0 | 0 | 0 | 115 |
| Project Total: | 0 | 107 | 8 | 0 | 0 | 0 | 0 | 0 | 115 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 107 | 8 | 0 | 0 | 0 | 0 | 0 | 115 |
| Appropriations Total* | 0 | 107 | 8 | 0 | 0 | 0 | 0 | 0 | 115 |
| O & M Costs (Savings) | | | 0 | 1 | 1 | 1 | 1 | 1 | 3 |
| Spending Plan | | 100 | 8 | 0 | 0 | 0 | 0 | 0 | 108 |

**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: 1st Quarter 2007

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 develops a system-wide model of Seattle's sewage system, including the King County trunk conveyance system within the city limits. 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. The model will also be integrated with SCADA in order to obtain information on wastewater levels, flows and volumes in the system, overflows and backups, and downstream constraints in the County system.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|-------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 0 | 1,275 | 968 | 560 | 353 | 124 | 0 | 3,280 |
| Project Total: | 0 | 0 | 1,275 | 968 | 560 | 353 | 124 | 0 | 3,280 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 0 | 1,275 | 968 | 560 | 353 | 124 | 0 | 3,280 |
| Appropriations Total* | 0 | 0 | 1,275 | 968 | 560 | 353 | 124 | 0 | 3,280 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 16 | 16 |

**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 program performs emergency rehabilitation of sewer lines that collapse, cause surface problems, or otherwise endanger public health or welfare. Once reports of surface subsidence or overflows from ratepayers or SPU Field Operations staff are received, a closed circuit television inspection is completed or attempted. The inspection is followed by a DWF pipeline condition assessment by SPU Engineering staff or SPU Field Operations First Response Crews. Field Operations crews may then perform an emergency repair of a pipeline. If the location is more complicated or in a critical location, SPU will declare the location an emergency and contract the repair with the assistance of SPU's Construction Management division and the Department of Executive Administration (DEA). This effort relieves the burden of a potential service interruption to the customer. This program was reviewed by SPU's Asset Management Committee as part of the overall Sewer Rehabilitation Programmatic Plan. The confidence level in the current cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 3,882 | 677 | 641 | 631 | 700 | 717 | 734 | 751 | 8,733 |
| Project Total: | 3,882 | 677 | 641 | 631 | 700 | 717 | 734 | 751 | 8,733 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 3,882 | 677 | 641 | 631 | 700 | 717 | 734 | 751 | 8,733 |
| Appropriations Total* | 3,882 | 677 | 641 | 631 | 700 | 717 | 734 | 751 | 8,733 |
| O & M Costs (Savings) | | | 44 | 44 | 44 | 44 | 44 | 44 | 262 |
| Spending Plan | | 500 | 641 | 631 | 700 | 717 | 734 | 751 | 4,674 |

**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 program replaces existing sewer lines citywide with pipes of the same diameter and capacity. Closed circuit television inspections identify defects in sewer mainlines. Each mainline defect is catalogued in an SPU database and assigned a priority that reflects the urgency of repair. SPU uses a criticality analysis as part of an asset management approach to evaluating life cycle costs.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 371 | 145 | 357 | 375 | 404 | 434 | 458 | 462 | 3,006 |
| Project Total: | 371 | 145 | 357 | 375 | 404 | 434 | 458 | 462 | 3,006 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 371 | 145 | 357 | 375 | 404 | 434 | 458 | 462 | 3,006 |
| Appropriations Total* | 371 | 145 | 357 | 375 | 404 | 434 | 458 | 462 | 3,006 |
| O & M Costs (Savings) | | | 15 | 15 | 15 | 15 | 15 | 15 | 90 |
| Spending Plan | | 109 | 357 | 375 | 404 | 434 | 458 | 462 | 2,599 |

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 program makes spot improvements in landslide-prone areas throughout Seattle. Typical improvements include installing berms, swales, catch basins, storm drains, subsurface drains, and small slope stability improvement projects. The cost estimates will be revised over time as projects are determined.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|-------|------|-------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 999 | 578 | 504 | 947 | 1,138 | 448 | 1,869 | 718 | 7,201 |
| Project Total: | 999 | 578 | 504 | 947 | 1,138 | 448 | 1,869 | 718 | 7,201 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 999 | 578 | 504 | 947 | 1,138 | 448 | 1,869 | 718 | 7,201 |
| Appropriations Total* | 999 | 578 | 504 | 947 | 1,138 | 448 | 1,869 | 718 | 7,201 |
| O & M Costs (Savings) | | | 36 | 36 | 36 | 36 | 36 | 36 | 216 |
| Spending Plan | | 400 | 504 | 947 | 1,138 | 448 | 1,869 | 718 | 6,024 |

**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 project makes spot improvements and supports project development for small-capacity sewer systems throughout Seattle. Typical improvements include rerouting of a sewer line or relocation of a maintenance hole. The cost estimates will be revised over time as projects are determined.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 280 | 175 | 179 | 452 | 679 | 713 | 730 | 289 | 3,497 |
| Project Total: | 280 | 175 | 179 | 452 | 679 | 713 | 730 | 289 | 3,497 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 280 | 175 | 179 | 452 | 679 | 713 | 730 | 289 | 3,497 |
| Appropriations Total* | 280 | 175 | 179 | 452 | 679 | 713 | 730 | 289 | 3,497 |
| O & M Costs (Savings) | | | 17 | 17 | 17 | 17 | 17 | 17 | 105 |
| Spending Plan | | 271 | 179 | 452 | 679 | 713 | 730 | 289 | 3,313 |

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 2009

Location: North Seattle

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 relocates or replaces drainage and wastewater related facilities affected by the extension of the Sound Transit Central Link light rail system to the University District.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 9 | 95 | 237 | 233 | 0 | 0 | 0 | 0 | 574 |
| Project Total: | 9 | 95 | 237 | 233 | 0 | 0 | 0 | 0 | 574 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 9 | 95 | 237 | 233 | 0 | 0 | 0 | 0 | 574 |
| Appropriations Total* | 9 | 95 | 237 | 233 | 0 | 0 | 0 | 0 | 574 |
| O & M Costs (Savings) | | | 0 | 0 | 50 | 50 | 50 | 50 | 200 |

**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 2008

Location: Central & South areas of Seattle

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 relocates or replaces drainage and wastewater-related facilities affected by Sound Transit's Central Link project. Sound Transit proposes to construct an electrical light rail transit system that includes more than 14 miles of alignment from the Convention Place Station to South 154th Street near Seattle/Tacoma Airport. The City of Seattle, including SPU, has an ongoing agreement for partial reimbursement from Sound Transit. Seattle Public Utilities pays for water betterments that are being done in conjunction with the Sound Transit Central Link Project. Sound Transit Water Betterments are listed as a separate capital project in the SPU Water Fund CIP (C405430).

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 1,911 | 435 | 323 | 0 | 0 | 0 | 0 | 0 | 2,669 |
| Project Total: | 1,911 | 435 | 323 | 0 | 0 | 0 | 0 | 0 | 2,669 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 1,911 | 435 | 323 | 0 | 0 | 0 | 0 | 0 | 2,669 |
| Appropriations Total* | 1,911 | 435 | 323 | 0 | 0 | 0 | 0 | 0 | 2,669 |
| O & M Costs (Savings) | | | 50 | 50 | 50 | 50 | 50 | 50 | 300 |

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

2008-2013 Adopted Capital Improvement Program

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 2010

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 will construct off-site stormwater treatment facilities to meet the requirements in the Lake Washington basin of the Integrated Drainage Plan (IDP) agreed to by SPU and Sound Transit for the Sound Transit South Corridor Project. An IDP is an option in Seattle's code that substitutes on-site stormwater quality treatment with off-site stormwater quality treatment within a basin draining to the same receiving water body. Sound Transit has agreed to pay SPU the estimated cost of providing on-site treatment, and SPU has agreed to construct equivalent facilities off-site. SPU's Asset Management Committee reviewed and approved this project. The confidence level in the current cost estimate is low.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 86 | 242 | 360 | 484 | 480 | 0 | 0 | 0 | 1,652 |
| Project Total: | 86 | 242 | 360 | 484 | 480 | 0 | 0 | 0 | 1,652 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 86 | 242 | 360 | 484 | 480 | 0 | 0 | 0 | 1,652 |
| Appropriations Total* | 86 | 242 | 360 | 484 | 480 | 0 | 0 | 0 | 1,652 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 60 | 60 | 60 | 180 |

**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
Project Type: Improved Facility
Project ID: C4114-DWF

BCL/Program Code: C410B
Start Date: 1st Quarter 2007
End Date: 4th Quarter 2009

Location: South Lake Union

Neighborhood Plan: South Lake Union

Neighborhood Plan Matrix: N/A

Neighborhood District: Lake Union

Urban Village: South Lake Union

This project relocates or replaces drainage and wastewater related facilities affected by City-sponsored projects in the South Lake Union Area. Project work also includes 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 project also funds planning-level coordination with other City departments on projects within the South Lake Union area. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 137 | 144 | 8 | 0 | 0 | 0 | 0 | 289 |
| Project Total: | 0 | 137 | 144 | 8 | 0 | 0 | 0 | 0 | 289 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 137 | 144 | 8 | 0 | 0 | 0 | 0 | 289 |
| Appropriations Total* | 0 | 137 | 144 | 8 | 0 | 0 | 0 | 0 | 289 |
| O & M Costs (Savings) | | | 0 | 0 | 2 | 2 | 2 | 2 | 8 |

**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 Lander Grade Separation - DWF

| | |
|---|-------------------------------------|
| BCL/Program Name: Shared Cost Projects | BCL/Program Code: C410B |
| Project Type: Improved Facility | Start Date: 1st Quarter 2008 |
| Project ID: C408S03 - DWF | End Date: 4th Quarter 2011 |

Location: S Lander St/1st Ave S/4th Ave S

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 protects and/or replaces drainage and wastewater assets affected by SDOT work to create a grade-separated crossing of the railroad tracks on S. Lander, south of downtown. The project is part of Bridging the Gap and needs to be completed prior to demolition of the Alaskan Way Viaduct. SDOT plans to begin construction in mid-2009. The project will impact a 90" cast-in-place concrete storm drain and some smaller diameter combined sewer. Costs, scheduling and contracting modes are in preliminary planning stages. SPU will consider options including replacement, abandonment or protection in place.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 0 | 206 | 211 | 217 | 222 | 0 | 0 | 856 |
| Project Total: | 0 | 0 | 206 | 211 | 217 | 222 | 0 | 0 | 856 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 0 | 206 | 211 | 217 | 222 | 0 | 0 | 856 |
| Appropriations Total* | 0 | 0 | 206 | 211 | 217 | 222 | 0 | 0 | 856 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 4 | 4 | 9 |

**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

Spokane Street Viaduct - DWF

| | |
|--|-------------------------------------|
| BCL/Program Name: Shared Cost Projects | BCL/Program Code: C410B |
| Project Type: Rehabilitation or Restoration | Start Date: 1st Quarter 2007 |
| Project ID: C407023-DWF | End Date: 4th Quarter 2008 |

Location: Spokane Street 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 relocates or replaces drainage and wastewater assets affected by SDOT work on the Spokane St. Viaduct. In mid-2008, SDOT will begin construction of the new 4th Ave S off ramp from the the S Spokane St Viaduct. SPU must relocate approximately 600 linear feet of 30" watermain between the BNSF railroad tracks and 4th Ave S to make way for the new ramp, and the project may also require relocation of drianage and wastewater assets. SPU is expected to complete the relocation project in time to allow the SDOT project to be built on schedule. SPU will design, advertise and construct the relocations in a separate contract from the SDOT project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 132 | 600 | 0 | 0 | 0 | 0 | 0 | 732 |
| Project Total: | 0 | 132 | 600 | 0 | 0 | 0 | 0 | 0 | 732 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 132 | 600 | 0 | 0 | 0 | 0 | 0 | 732 |
| Appropriations Total* | 0 | 132 | 600 | 0 | 0 | 0 | 0 | 0 | 732 |
| O & M Costs (Savings) | | | 0 | 50 | 50 | 50 | 50 | 50 | 250 |

**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

SR 519 Interchange - DWF

| | |
|---|-------------------------------------|
| BCL/Program Name: Shared Cost Projects | BCL/Program Code: C410B |
| Project Type: Improved Facility | Start Date: 1st Quarter 2008 |
| Project ID: C408S04 - DWF | End Date: 4th Quarter 2011 |

Location: S. Royal Brougham Way & 1st Ave. S./S. Atlantic St./ 5th Ave. S.

| | |
|--|---|
| Neighborhood Plan: Duwamish | Neighborhood Plan Matrix: N/A |
| Neighborhood District: Greater Duwamish | Urban Village: Not in an Urban Village |

This project will replace or relocate SPU drainage and wastewater facilities affected by an SDOT/WSDOT project. The SDOT/WSDOT SR-519 Interchange project is a joint effort by the SDOT and others to address the growing congestion in the South Downtown area. It includes street reconstruction to allow waterfront traffic to bypass the majority of the rail switching tracks and a truck-only access road between Terminal 46 and the BNSF Inter-modal yard to improve freight movement. Project design integrates with Alaskan Way Viaduct and Port of Seattle Terminal 46 redevelopment. In addition, SPU will evaluate opportunities for low-impact development and regional solutions.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 0 | 206 | 211 | 217 | 222 | 0 | 0 | 856 |
| Project Total: | 0 | 0 | 206 | 211 | 217 | 222 | 0 | 0 | 856 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 0 | 206 | 211 | 217 | 222 | 0 | 0 | 856 |
| Appropriations Total* | 0 | 0 | 206 | 211 | 217 | 222 | 0 | 0 | 856 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 4 | 4 | 9 |

**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

SR-520 Bridge Replacement - DWF

| | |
|--|-------------------------------------|
| BCL/Program Name: Shared Cost Projects | BCL/Program Code: C410B |
| Project Type: Rehabilitation or Restoration | Start Date: 1st Quarter 2007 |
| Project ID: C407021-DWF | End Date: 4th Quarter 2020 |

Location: SR 520

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: University Campus

This program relocates or replaces drainage and wastewater related facilities affected by the Washington State Department of Transportation's replacement of the SR 520 floating bridge. SR 520 is one of two east-west crossings across Lake Washington. Approximately 155,000-160,000 people cross the SR 520 floating bridge (Evergreen Point Bridge) each day. Built in the 1960s, without the benefit of today's design standards or drainage code requirements, the Evergreen Point Bridge and the Portage Bay Bridge are vulnerable to windstorms and earthquakes and are at risk of collapse if they are not replaced. The six-mile project area begins at I-5 in Seattle and extends to 108th Avenue Northeast in Bellevue (just west of I-405). The confidence level of the cost estimate is low due to the early planning stage for this project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 132 | 139 | 150 | 163 | 176 | 191 | 168 | 1,119 |
| Project Total: | 0 | 132 | 139 | 150 | 163 | 176 | 191 | 168 | 1,119 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 132 | 139 | 150 | 163 | 176 | 191 | 168 | 1,119 |
| Appropriations Total* | 0 | 132 | 139 | 150 | 163 | 176 | 191 | 168 | 1,119 |
| 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

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 2010

Location: 2300 Prescott Ave SW

Neighborhood Plan: Admiral

Neighborhood Plan Matrix: N/A

Neighborhood District: Southwest

Urban Village: Not in an Urban Village

This project investigates and develops a long-range plan to address flooding and slope instability problems in the SW Prescott Place/Admiral Way Landslide Mitigation Study area. The project includes researching historical information, drilling soil samples, performing slope stability analyses, and identifying and implementing solutions to problem areas. Currently nine landslide and three flooding areas have been identified in the study area. Three of the landslide problem areas in the study area are joint projects with the Seattle Department of Transportation (SDOT) and the Seattle Department of Parks and Recreation. See SDOT project TC36551 for more transportation-related information. There is a low degree of confidence in the cost estimate. SPU's Asset Management Committee has approved the project. This project is delayed until 2009.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 636 | 1 | 1 | 316 | 22 | 0 | 0 | 0 | 976 |
| Project Total: | 636 | 1 | 1 | 316 | 22 | 0 | 0 | 0 | 976 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 636 | 1 | 1 | 316 | 22 | 0 | 0 | 0 | 976 |
| Appropriations Total* | 636 | 1 | 1 | 316 | 22 | 0 | 0 | 0 | 976 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 5 | 5 | 5 | 15 |

**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

Taylor Creek Culverts Phase 2

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 4th Quarter 1999

Project ID: C399315

End Date: 4th Quarter 2011

Location: Taylor Creek/Rainier Ave. S

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 designs and constructs fish passage improvements at the culvert that conveys Taylor Creek under Rainier Avenue S. Currently, three different types of culverts make up the system under Rainier Avenue S: a short 42 inch diameter section crossing a 20-foot side street; a 3x4 foot box culvert running under Rainier Avenue S.; and a corrugated metal culvert running under an adjacent apartment building. The points where these three culverts connect have eight- to 10-inch drops impeding fish passage. In addition, the culverts are velocity barriers during most rainstorms. The project is currently in the design phase/permitting. Confidence in the cost estimate is medium. SPU's Asset Management Committee has approved the construction phase of the project. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 739 | 221 | 601 | 26 | 11 | 11 | 0 | 0 | 1,609 |
| Project Total: | 739 | 221 | 601 | 26 | 11 | 11 | 0 | 0 | 1,609 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 739 | 221 | 601 | 26 | 11 | 11 | 0 | 0 | 1,609 |
| Appropriations Total* | 739 | 221 | 601 | 26 | 11 | 11 | 0 | 0 | 1,609 |
| O & M Costs (Savings) | | | 6 | 6 | 6 | 6 | 6 | 6 | 36 |
| Spending Plan | | 285 | 601 | 26 | 11 | 11 | 0 | 0 | 934 |

**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

Taylor Creek Fish Habitat Improvements

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 2nd Quarter 2008

Project ID: C308003

End Date: 4th Quarter 2008

Location: Taylor Creek/Renton Ave. S./Rainier Ave. S.

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 evaluates and potentially constructs engineered log jams in Taylor Creek. Such jams are designed to store sediment and slow the energy of high flows in the creek, thus increasing creek health. This project enhances the condition of Taylor Creek, storing sediment and reducing scour, and the resultant creek bed will be healthier for fish and other creatures. This project is part of SPU's Protection of Beneficial Uses Program related to Taylor Creek Enhancement and Restoration initiative. Please see SPU project C399315 Taylor Creek Culverts Phase II for more information. Due to uncertainty, the project is being given minimal budget allocations, which will be revised over time.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Project Total: | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Appropriations Total* | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| O & M Costs (Savings) | | | 0 | 1 | 1 | 1 | 1 | 1 | 5 |

*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

Taylor Creek Sewer Facility Stabilization

BCL/Program Name: Wastewater Conveyance

BCL/Program Code: C320B

Project Type: New Facility

Start Date: 2nd Quarter 2008

Project ID: C308004

End Date: 4th Quarter 2008

Location: Taylor Creek/Renton Ave. S./Rainier Ave. S.

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 evaluates and potentially conducts maintenance work on sewer structures in the east fork of Taylor Creek. Taylor Creek flows through an area that once had a sewer facility. Cement walls of the facility remain embedded in the east fork of the watercourse. This project will evaluate the stability of the walls and stabilize them if necessary. This project enhances the condition of Taylor Creek by reducing the likelihood that the old walls in the creek will fail, allowing stored sediments to flow down Taylor Creek. This project is part of the SPU's Protection of Beneficial Uses Program related to Taylor Creek Enhancement and Restoration initiative. Please see SPU project C399315 Taylor Creek Culverts Phase II for more information. Due to uncertainty, the project is being given minimal budget allocations, which will be revised over time.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Project Total: | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Appropriations Total* | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| O & M Costs (Savings) | | | 0 | 1 | 1 | 1 | 1 | 1 | 5 |

**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 St

Neighborhood Plan: Northgate

Neighborhood Plan Matrix: N/A

Neighborhood District: North

Urban Village: Northgate

This project conducts preliminary engineering, design, and construction of a water quality facility on the south lot of Northgate Mall. The facility is located between 3rd Ave. and 5th Ave. NE and between NE 100th St. and NE 103rd St., and provides water quality treatment for public drainage. 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 Ave. NE. The project also includes improvements to pedestrian access and landscaping. SPU's Asset Management Committee has approved the project. The confidence level of the current cost estimate is medium. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments. The balance of the \$10.6 million total project budget will be carried forward each year until it is spent. SPU plans to carry forward \$5.3 million from 2007 to 2008. This year, \$3 million in additional budget authority is being requested to cover construction delays and increased cost projections, as shown in years 2008-2011.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|-------|-------|------|------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 2,451 | 6,481 | 3,257 | 1,136 | 185 | 95 | 0 | 0 | 13,605 |
| Project Total: | 2,451 | 6,481 | 3,257 | 1,136 | 185 | 95 | 0 | 0 | 13,605 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 2,451 | 6,481 | 3,257 | 1,136 | 185 | 95 | 0 | 0 | 13,605 |
| Appropriations Total* | 2,451 | 6,481 | 3,257 | 1,136 | 185 | 95 | 0 | 0 | 13,605 |
| O & M Costs (Savings) | | | 0 | 0 | 71 | 71 | 71 | 71 | 284 |
| Spending Plan | | 1,200 | 8,538 | 1,136 | 185 | 95 | 0 | 0 | 11,154 |

**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: Battery St/Battery St Tun Off Rp

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 project relocates, replaces, and protects drainage- and wastewater-related facilities affected by work on the Alaskan Way Viaduct and Seawall. The Alaskan Way Viaduct is part of State Route 99, which carries 25 percent of the north-south traffic through downtown Seattle and is a major truck route serving the city's industrial areas. The seawall supports the soils under Alaskan Way and the Viaduct. Both facilities were damaged on February 28, 2001 by the Nisqually Earthquake. The Washington State Department of Transportation (WSDOT) is the lead for the project. 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 project designs and constructs these relocations according to the transportation project scope and schedule. Only 2008 and 2009 are budgeted in this CIP. Further budgeting will take place when the scope and timing are further defined.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|-------|-------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 1,476 | 3,247 | 2,310 | 2,882 | 0 | 0 | 0 | 0 | 9,915 |
| Project Total: | 1,476 | 3,247 | 2,310 | 2,882 | 0 | 0 | 0 | 0 | 9,915 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 1,476 | 3,247 | 2,310 | 2,882 | 0 | 0 | 0 | 0 | 9,915 |
| Appropriations Total* | 1,476 | 3,247 | 2,310 | 2,882 | 0 | 0 | 0 | 0 | 9,915 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 3,347 | 2,310 | 2,882 | 0 | 0 | 0 | 0 | 8,539 |

**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: 2nd 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 reduces the stormwater runoff and pollutants from an approximately 105-acre sub-basin of Piper's Creek to protect downstream aquatic resources. The unimproved right-of-way is a starting point for design. The project scope includes constructing an engineered system of swales or other design alternatives to detain runoff, filter pollutants, and allow maximum opportunity for infiltration; using native vegetation as a stormwater management element, as well as for aesthetic appeal; and constructing a sidewalk on one side of each that uses the Street Edge Alternatives (SEA) or Cascade design approach. Funding to operate and maintain the project is expected to be included in SPU's operating budget starting in 2011 although maintenance responsibility is shared along some of the project streets with property owners. Property owners and residents adjacent to the SEA street designs are expected to provide the majority of vegetation maintenance; however all maintenance of the Cascade design, which has higher volumes of water and few properties facing the system, is the responsibility of SPU. The confidence level for the current cost estimate is low. SPU's Asset Management Committee approval is required prior to the start of the design phase. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|-------|-------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 657 | 309 | 151 | 253 | 2,780 | 1,812 | 124 | 127 | 6,213 |
| Project Total: | 657 | 309 | 151 | 253 | 2,780 | 1,812 | 124 | 127 | 6,213 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 657 | 309 | 151 | 253 | 2,780 | 1,812 | 124 | 127 | 6,213 |
| Appropriations Total* | 657 | 309 | 151 | 253 | 2,780 | 1,812 | 124 | 127 | 6,213 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 40 | 80 | 80 | 200 |
| Spending Plan | | 289 | 151 | 253 | 2,780 | 1,812 | 124 | 127 | 5,536 |

**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

Wastewater Rehabilitation Evaluation

| | |
|--|-------------------------------------|
| BCL/Program Name: Wastewater Conveyance | BCL/Program Code: C320B |
| Project Type: Rehabilitation or Restoration | Start Date: 1st Quarter 1998 |
| Project ID: C3AA401 | 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 program plans upcoming sewer rehabilitation projects. This is done by investigating existing records, reports, and plans; obtaining field data from closed circuit television inspection; and reviewing flow monitoring data. The project team then develops alternatives and cost estimates and makes recommendations for work to be included in the annual rehab program. The team determines whether each project should be done as a no-dig, point rehab, or full line replacement project. This program will include the development of a decision model to prioritize wastewater rehab projects based on maximization of the benefit/cost ratio. This program goes through an annual review with the Asset Management Committee as part of the overall Sewer Rehabilitation Programmatic Plan. The confidence in the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 1,614 | 258 | 252 | 526 | 323 | 358 | 395 | 578 | 4,304 |
| Project Total: | 1,614 | 258 | 252 | 526 | 323 | 358 | 395 | 578 | 4,304 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 1,614 | 258 | 252 | 526 | 323 | 358 | 395 | 578 | 4,304 |
| Appropriations Total* | 1,614 | 258 | 252 | 526 | 323 | 358 | 395 | 578 | 4,304 |
| O & M Costs (Savings) | | | 22 | 22 | 22 | 22 | 22 | 22 | 129 |
| Spending Plan | | 255 | 252 | 526 | 323 | 358 | 395 | 578 | 2,687 |

**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

Water Reuse - Wastewater

BCL/Program Name: Wastewater Conveyance

BCL/Program Code: C320B

Project Type: New Facility

Start Date: 4th Quarter 2001

Project ID: C301203

End Date: 4th Quarter 2008

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 pilot project disconnects residences from combined sewer systems and evaluates on-site methods of detention and infiltration of residential site stormwater. The project involves ten properties in the Fremont-Ballard neighborhood, with performance monitors on three of the properties per the approved Water Quality Assurance Project Plan. The monitoring period extends through two wet seasons and includes flow and water quality parameters. This project was reviewed and approved by SPU's Asset Management Committee. The confidence level in the current cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 476 | 97 | 44 | 0 | 0 | 0 | 0 | 0 | 617 |
| Project Total: | 476 | 97 | 44 | 0 | 0 | 0 | 0 | 0 | 617 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 476 | 97 | 44 | 0 | 0 | 0 | 0 | 0 | 617 |
| Appropriations Total* | 476 | 97 | 44 | 0 | 0 | 0 | 0 | 0 | 617 |
| O & M Costs (Savings) | | | 0 | 3 | 3 | 3 | 3 | 3 | 15 |

**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

Watershed Base Creek Flow Control

BCL/Program Name: Low Impact Development

BCL/Program Code: C334B

Project Type: New Facility

Start Date: 1st Quarter 2005

Project ID: C353310

End Date: 4th Quarter 2009

Location: Citywide/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 project develops concepts and preliminary engineering for improvements to stormwater flow control in targeted creeks at which operation of the City's drainage system has resulted in ecosystem degradation. Under this project, SPU identifies flow control techniques (such as natural drainage system elements, by-pass facilities, and detention), evaluates alternatives, and prepares cost-benefit analyses on identified alternatives. A benefit of these preliminary engineering efforts is identification of the most cost-effective capital project options while considering other objectives such as flood control, environmental, and economic benefits. The confidence level of the current cost estimate is medium. Proposed projects are subject to approval by SPU's Asset Management Committee. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 109 | 71 | 282 | 210 | 0 | 0 | 0 | 0 | 672 |
| Project Total: | 109 | 71 | 282 | 210 | 0 | 0 | 0 | 0 | 672 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 109 | 71 | 282 | 210 | 0 | 0 | 0 | 0 | 672 |
| Appropriations Total* | 109 | 71 | 282 | 210 | 0 | 0 | 0 | 0 | 672 |
| O & M Costs (Savings) | | | 0 | 0 | 3 | 3 | 3 | 3 | 13 |
| Spending Plan | | 125 | 282 | 210 | 0 | 0 | 0 | 0 | 617 |

**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 2002 |
| Project ID: C302103 | End Date: 4th Quarter 2012 |

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 constructs facilities for Combined Sewer Overflow (CSO) reduction in the Windermere area. Major work includes a feasibility study for assessing potential coordination with King County, flow monitoring, system modeling, facility planning, preliminary engineering, design, permitting, and construction. The project schedule has been revised from the 2001 CSO Plan to account for project development; SPU's CSO Facility Retrofit project (C302102), which may reduce the size of the necessary facilities in this basin; and potential coordination with King County. This project is in a preliminary phase of development and cost estimates will be revised over time as the scope of the plan is clarified. This project has been approved by SPU's Asset Management Committee.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|-------|-------|-------|------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 1,339 | 855 | 2,260 | 5,167 | 5,416 | 244 | 60 | 0 | 15,341 |
| Project Total: | 1,339 | 855 | 2,260 | 5,167 | 5,416 | 244 | 60 | 0 | 15,341 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 1,339 | 855 | 2,260 | 5,167 | 5,416 | 244 | 60 | 0 | 15,341 |
| Appropriations Total* | 1,339 | 855 | 2,260 | 5,167 | 5,416 | 244 | 60 | 0 | 15,341 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 78 | 78 |
| Spending Plan | | 1,106 | 2,260 | 5,167 | 5,416 | 244 | 60 | 0 | 14,253 |

**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 program evaluates, prioritizes and makes necessary repairs on subsurface landslide control drains and tunnels installed as a result of extensive landslide damage during the winter of 1933-1934. The Works Progress Administration sponsored the construction of landslide mitigation projects at 29 sites around the city between 1935-1941. This program was one of the recommended activities from the Landslide Policy Paper adopted by the City Council in 1998. This program is in a preliminary phase of development and cost estimates will be revised over time as comprehensive site-specific evaluations are completed. SPU's Asset Management Committee has approved the programmatic approach.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 724 | 301 | 257 | 473 | 539 | 276 | 282 | 359 | 3,211 |
| Project Total: | 724 | 301 | 257 | 473 | 539 | 276 | 282 | 359 | 3,211 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 724 | 301 | 257 | 473 | 539 | 276 | 282 | 359 | 3,211 |
| Appropriations Total* | 724 | 301 | 257 | 473 | 539 | 276 | 282 | 359 | 3,211 |
| O & M Costs (Savings) | | | 16 | 16 | 16 | 16 | 16 | 16 | 96 |
| Spending Plan | | 200 | 257 | 473 | 539 | 276 | 282 | 359 | 2,386 |

**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. The City-owned infrastructure used to accomplish this task consists of 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, paints, 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. Seattle Public Utilities maintains a list of materials that are still useable and makes these items available to anyone who wants them.

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 guides the construction of facilities that provide the citizens of Seattle with sufficient recycling and solid waste services for the next 30 years. In 2008, this project is broken down into two separate projects: the North Transfer Station Rebuild and the South 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 include Environmental Policy Act (SEPA) evaluations, permitting, property acquisition, design, construction, and purchase of facility equipment.

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

Seattle Public Utilities – Solid Waste

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 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 totals approximately \$11.4 million in 2008 (including Technology projects funded by the Solid Waste Fund, displayed in a separate section of this CIP), or \$35.3 million lower than the 2008 Endorsed Budget. In the New Facilities BCL, the 2008 budget for the South Park Development project is lower by \$8.1 million but the total project costs remain relatively unchanged. Also, the joint Executive-Council decision to avoid building the intermodal third station reduces the 2008 budget by \$28 million. In the Rehabilitation and Heavy Equipment BCL, the budget is about \$1 million lower than the Endorsed due to a shift of heavy equipment purchases to the Shared Cost Projects BCL, and an efficiency reduction for the Midway Flare Improvements project.

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 2008, SPU continues 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 capital improvement projects that receive funding from multiple SPU funds. In 2008 the program includes funding for Operational Facility improvements, 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. Solid Waste-supported technology projects are shown grouped with other technology projects in the SPU Technology CIP section.

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 will be refined after project completion and will be included as part of SPU's future O&M Budget submittals.

SPU - Solid Waste

Project Summary

| BCL/Program Name & Project | Project ID | Life To Date | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|---|------------|--------------|---------------|--------------|---------------|--------------------------|---------------|---------------|--------------|----------------|
| New Facilities | | | | | | BCL/Program Code: | | | | C230B |
| Miscellaneous Station Improvements | C203005 | 979 | 123 | 116 | 0 | 0 | 0 | 0 | 0 | 1,218 |
| New Facilities Development | C205308 | 40 | 26 | 25 | 29 | 31 | 33 | 35 | 29 | 248 |
| Solid Waste Facility Master Plan -- North Transfer Station Rebuild | C207005 | 10 | 941 | 1,055 | 3,541 | 16,797 | 15,096 | 4,963 | 4,503 | 46,906 |
| Solid Waste Facility Master Plan -- South Transfer Station Rebuild | C207006 | 4 | 12,530 | 5,100 | 23,778 | 28,404 | 8,218 | 17,954 | 4,306 | 100,294 |
| South Park Development | C206402 | 0 | 617 | 376 | 2,524 | 539 | 2,977 | 564 | 0 | 7,597 |
| South Recycling Disposal Station Household Hazardous Waste Relocation | C207002 | 0 | 246 | 286 | 827 | 847 | 0 | 0 | 0 | 2,206 |
| New Facilities Total | | 1,033 | 14,483 | 6,958 | 30,699 | 46,618 | 26,324 | 23,516 | 8,838 | 158,469 |

*Amounts in thousands of dollars

2008-2013 Adopted Capital Improvement Program

SPU - Solid Waste

Project Summary

| BCL/Program Name & Project | Project ID | Life To Date | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|---|-------------|--------------|--------------------------|--------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Rehabilitation and Heavy Equipment | | | BCL/Program Code: | | | | | | | C240B |
| Disaster Debris Management Plan | C206401 | 0 | 102 | 49 | 0 | 0 | 0 | 0 | 0 | 151 |
| Historic Landfill Improvements | C206601 | 143 | 51 | 39 | 0 | 0 | 0 | 0 | 0 | 233 |
| Kent Highlands Agency Negotiations | C205406 | 190 | 51 | 58 | 54 | 55 | 57 | 59 | 58 | 582 |
| Kent Highlands Flare Improvement | C205404 | 11 | 99 | 103 | 107 | 0 | 0 | 0 | 0 | 320 |
| Kent Highlands N Pond Diversion | C205405 | 0 | 25 | 54 | 0 | 0 | 0 | 0 | 0 | 79 |
| Kent Highlands Storm Drain Replacement | C208001 | 0 | 0 | 256 | 515 | 11 | 0 | 0 | 0 | 782 |
| Kent Records Retention | C207001 | 0 | 30 | 74 | 0 | 0 | 0 | 0 | 0 | 104 |
| Midway Agency Negotiations | C205407 | 48 | 15 | 31 | 26 | 55 | 28 | 29 | 29 | 261 |
| Midway Flare Improvements | C207003 | 0 | 20 | 33 | 0 | 0 | 0 | 0 | 0 | 53 |
| Midway Landfill Improvements | C203004 | 865 | 225 | 166 | 252 | 2,838 | 2,978 | 0 | 0 | 7,324 |
| Rehab & Heavy Equipment Development | C205411 | 0 | 52 | 0 | 58 | 61 | 65 | 67 | 63 | 366 |
| Yard Waste Carts | C205412 | 2,056 | 0 | 0 | 1,149 | 0 | 0 | 0 | 0 | 3,205 |
| Rehabilitation and Heavy Equipment Total | | 3,313 | 670 | 863 | 2,161 | 3,020 | 3,128 | 155 | 150 | 13,460 |
| Shared Cost Projects | | | BCL/Program Code: | | | | | | | C410B |
| 1% for Art – SWF | C4118 - SWF | 60 | 359 | 64 | 277 | 455 | 236 | 232 | 91 | 1,774 |
| Heavy Equipment Purchases - SWF | C4116- SWF | 3,398 | 778 | 1,625 | 1,262 | 1,337 | 1,416 | 1,588 | 1,745 | 13,149 |
| Operational Facility - Construction - SWF | C4106- SWF | 1,099 | 687 | 221 | 284 | 291 | 272 | 278 | 286 | 3,418 |
| Operational Facility - Other - SWF | C4115- SWF | 12 | 82 | 29 | 25 | 26 | 10 | 10 | 10 | 204 |
| Operations Control Center - SWF | C4105- SWF | 458 | 210 | 26 | 118 | 15 | 0 | 0 | 0 | 827 |
| Security Improvements - SWF | C4113- SWF | 2 | 205 | 173 | 210 | 216 | 221 | 226 | 0 | 1,253 |
| Shared Cost Projects Total | | 5,029 | 2,321 | 2,138 | 2,176 | 2,340 | 2,155 | 2,334 | 2,132 | 20,625 |
| Department Total | | 9,375 | 17,474 | 9,959 | 35,036 | 51,978 | 31,607 | 26,005 | 11,120 | 192,554 |

*Amounts in thousands of dollars

2008-2013 Adopted Capital Improvement Program

SPU - Solid Waste

Fund Summary

| Fund Name | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|-------------------------|--------------|---------------|--------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Solid Waste Fund | 9,375 | 17,474 | 9,959 | 35,036 | 51,978 | 31,607 | 26,005 | 11,120 | 192,554 |
| Department Total | 9,375 | 17,474 | 9,959 | 35,036 | 51,978 | 31,607 | 26,005 | 11,120 | 192,554 |

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

**Amounts in thousands of dollars*

2008-2013 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 2003
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 program provides the budget for the Solid Waste Fund portion of the 1% for Arts contribution to the Municipal Arts Fund (MAF) for use in public art projects. The 1% funds deposited in the MAF shall be spent by the Office of Arts and Cultural Affairs (OACA) on art projects that are in the City's Municipal Arts Plan (MAP), which is prepared annually by OACA and approved by the Mayor. Seattle Public Utilities (SPU) contributes 1% of all eligible CIP project budget annually.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 60 | 359 | 64 | 277 | 455 | 236 | 232 | 91 | 1,774 |
| Project Total: | 60 | 359 | 64 | 277 | 455 | 236 | 232 | 91 | 1,774 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 60 | 359 | 64 | 277 | 455 | 236 | 232 | 91 | 1,774 |
| Appropriations Total* | 60 | 359 | 64 | 277 | 455 | 236 | 232 | 91 | 1,774 |
| O & M Costs (Savings) | | | 12 | 12 | 12 | 12 | 12 | 12 | 72 |

Disaster Debris Management Plan

BCL/Program Name: Rehabilitation and Heavy Equipment **BCL/Program Code:** C240B
Project Type: Improved Facility **Start Date:** 4th Quarter 2006
Project ID: C206401 **End Date:** 4th Quarter 2008

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 a citywide disaster debris management plan. Federal grant funds have been requested. The scope of the plan will depend on grant funding levels and grant requirements.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 0 | 102 | 49 | 0 | 0 | 0 | 0 | 0 | 151 |
| Project Total: | 0 | 102 | 49 | 0 | 0 | 0 | 0 | 0 | 151 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 0 | 102 | 49 | 0 | 0 | 0 | 0 | 0 | 151 |
| Appropriations Total* | 0 | 102 | 49 | 0 | 0 | 0 | 0 | 0 | 151 |
| O & M Costs (Savings) | | | 0 | 1 | 1 | 1 | 1 | 1 | 4 |
| Spending Plan | | 220 | 49 | 0 | 0 | 0 | 0 | 0 | 269 |

**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: In more than one District **Urban Village:** In more than one Urban Village

This program replaces existing heavy equipment (such as loaders and bulldozers) used at Solid Waste Utility facilities, purchases new equipment, and retrofits existing equipment to meet SPU operational needs and initiatives. This project was included in the 2007-2012 Adopted CIP as C201002 Heavy Equipment Purchases – SWF.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|-------|-------|-------|-------|-------|-------|--------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 3,398 | 778 | 1,625 | 1,262 | 1,337 | 1,416 | 1,588 | 1,745 | 13,149 |
| Project Total: | 3,398 | 778 | 1,625 | 1,262 | 1,337 | 1,416 | 1,588 | 1,745 | 13,149 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 3,398 | 778 | 1,625 | 1,262 | 1,337 | 1,416 | 1,588 | 1,745 | 13,149 |
| Appropriations Total* | 3,398 | 778 | 1,625 | 1,262 | 1,337 | 1,416 | 1,588 | 1,745 | 13,149 |
| O & M Costs (Savings) | | | 45 | 45 | 45 | 45 | 45 | 45 | 269 |
| Spending Plan | | 539 | 1,625 | 1,262 | 1,337 | 1,416 | 1,588 | 1,745 | 9,512 |

Historic Landfill Improvements

BCL/Program Name: Rehabilitation and Heavy Equipment **BCL/Program Code:** C240B
Project Type: Improved Facility **Start Date:** 1st Quarter 2006
Project ID: C206601 **End Date:** 4th Quarter 2008

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 researches and evaluates measures to reduce environmental impacts at old historic landfills in the city. A test landfill gas extraction system and monitoring network was installed at Genessee Park in November 2006. The evaluation of this system will be completed in November 2007. The results of the evaluation will be used to determine if additional work is needed. The confidence in the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 143 | 51 | 39 | 0 | 0 | 0 | 0 | 0 | 233 |
| Project Total: | 143 | 51 | 39 | 0 | 0 | 0 | 0 | 0 | 233 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 143 | 51 | 39 | 0 | 0 | 0 | 0 | 0 | 233 |
| Appropriations Total* | 143 | 51 | 39 | 0 | 0 | 0 | 0 | 0 | 233 |
| O & M Costs (Savings) | | | 13 | 13 | 13 | 13 | 13 | 13 | 78 |
| Spending Plan | | 105 | 39 | 0 | 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

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

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 conducts the required environmental and feasibility studies to evaluate the effectiveness of the Kent Highlands Landfill closure. These efforts and regulatory agency negotiations are required under an existing Consent Order with the Washington State Department of Ecology. The outcome of these efforts may lead to validation that the current environmental controls are sufficient, or require additional remedial actions. If these efforts are successful, the result is avoided unnecessary capital expenditures or new operations and maintenance expenses. The confidence in the cost estimate is medium. SPU's Asset Management Committee has approved the project concept, although additional briefings may occur.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 190 | 51 | 58 | 54 | 55 | 57 | 59 | 58 | 582 |
| Project Total: | 190 | 51 | 58 | 54 | 55 | 57 | 59 | 58 | 582 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 190 | 51 | 58 | 54 | 55 | 57 | 59 | 58 | 582 |
| Appropriations Total* | 190 | 51 | 58 | 54 | 55 | 57 | 59 | 58 | 582 |
| O & M Costs (Savings) | | | 25 | 25 | 25 | 25 | 25 | 25 | 150 |
| Spending Plan | | 60 | 58 | 54 | 55 | 57 | 59 | 58 | 401 |

**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

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 designs and constructs modifications needed to continue operating the gas flare facility at the Kent Highlands Landfill. As gas flows decrease naturally over time, modifications are necessary to continue operating the flare facility. The original equipment was sized for the gas flows in 1993 and SPU is approaching the limits of system components for decreased flows. Anticipated work elements over time include blower replacement, connection to natural gas for supplemental fuel, and flare replacement. The confidence in the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 11 | 99 | 103 | 107 | 0 | 0 | 0 | 0 | 320 |
| Project Total: | 11 | 99 | 103 | 107 | 0 | 0 | 0 | 0 | 320 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 11 | 99 | 103 | 107 | 0 | 0 | 0 | 0 | 320 |
| Appropriations Total* | 11 | 99 | 103 | 107 | 0 | 0 | 0 | 0 | 320 |
| O & M Costs (Savings) | | | 0 | 0 | 2 | 2 | 2 | 2 | 6 |
| Spending Plan | | 80 | 103 | 107 | 0 | 0 | 0 | 0 | 290 |

Kent Highlands N Pond Diversion

BCL/Program Name: Rehabilitation and Heavy Equipment **BCL/Program Code:** C240B
Project Type: Improved Facility **Start Date:** 1st Quarter 2007
Project ID: C205405 **End Date:** 4th Quarter 2008

Location: 23076 Military Rd 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 diverts water from the Kent Highlands North Pond to surface waters via the Green River, avoiding costly discharge to the King County Metro sewer. Subsequent investigations indicate this discharge is not as significant as earlier assumed. SPU will continue to monitor Kent Highlands North Pond while the diversion is on hold.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 0 | 25 | 54 | 0 | 0 | 0 | 0 | 0 | 79 |
| Project Total: | 0 | 25 | 54 | 0 | 0 | 0 | 0 | 0 | 79 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 0 | 25 | 54 | 0 | 0 | 0 | 0 | 0 | 79 |
| Appropriations Total* | 0 | 25 | 54 | 0 | 0 | 0 | 0 | 0 | 79 |
| O & M Costs (Savings) | | | 0 | (25) | (25) | (25) | (25) | (25) | -125 |

*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 2010 |

Location: 23076 Military Rd 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 rehabilitates a critical storm drainage line at the Kent Highlands Landfill. SPU owns, operates and maintains a 42" storm drainage line on the south side of the Kent Highlands landfill. The 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. One section is crushed and the rest is severely corroded. This line transmits surface water from I-5, Military Road and a small portion of the landfill. The line is located on City property and on WSDOT right-of-way adjacent to SR516. If this line fails, it will damage the adjacent highway. This project funds the evaluation of the existing line and subsequent rehabilitation.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 0 | 0 | 256 | 515 | 11 | 0 | 0 | 0 | 782 |
| Project Total: | 0 | 0 | 256 | 515 | 11 | 0 | 0 | 0 | 782 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 0 | 0 | 256 | 515 | 11 | 0 | 0 | 0 | 782 |
| Appropriations Total* | 0 | 0 | 256 | 515 | 11 | 0 | 0 | 0 | 782 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 4 | 4 | 4 | 12 |

**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 Records Retention

BCL/Program Name: Rehabilitation and Heavy Equipment

BCL/Program Code: C240B

Project Type: Improved Facility

Start Date: 1st Quarter 2007

Project ID: C207001

End Date: 4th Quarter 2008

Location: 23076 Military Rd 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 plans, designs, and constructs a location to maintain the required Superfund Administrative Record for the clean-ups at Midway and Kent Highlands. Currently the records are not centralized in a secure location. Part of the planning may identify the best storage strategy for this enormous volume of files. The confidence in the cost estimate is low.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 0 | 30 | 74 | 0 | 0 | 0 | 0 | 0 | 104 |
| Project Total: | 0 | 30 | 74 | 0 | 0 | 0 | 0 | 0 | 104 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 0 | 30 | 74 | 0 | 0 | 0 | 0 | 0 | 104 |
| Appropriations Total* | 0 | 30 | 74 | 0 | 0 | 0 | 0 | 0 | 104 |
| O & M Costs (Savings) | | | 0 | 1 | 1 | 1 | 1 | 1 | 3 |
| Spending Plan | | 25 | 74 | 0 | 0 | 0 | 0 | 0 | 99 |

**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

BCL/Program Code: C240B

Project Type: Improved Facility

Start Date: 1st Quarter 2005

Project ID: C205407

End Date: Ongoing

Location: 24808 Pacific Hwy 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 conducts the required environmental and feasibility studies to evaluate the effectiveness of the closure of the Midway Landfill. These efforts and regulatory agency negotiations are required under an existing Consent Order with the Washington State Department of Ecology. The outcome of these efforts may lead to validation that the current environmental controls are sufficient or identify the need for additional remedial actions. If these efforts are successful, this project has the potential to reduce new capital expenditures or new operations and maintenance expenses. The confidence in the cost estimate is medium. SPU's Asset Management Committee has approved the project concept, although additional briefings may occur.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 48 | 15 | 31 | 26 | 55 | 28 | 29 | 29 | 261 |
| Project Total: | 48 | 15 | 31 | 26 | 55 | 28 | 29 | 29 | 261 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 48 | 15 | 31 | 26 | 55 | 28 | 29 | 29 | 261 |
| Appropriations Total* | 48 | 15 | 31 | 26 | 55 | 28 | 29 | 29 | 261 |
| O & M Costs (Savings) | | | 1 | 1 | 1 | 1 | 1 | 1 | 8 |

**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 2007

Project ID: C207003

End Date: 4th Quarter 2008

Location: 24808 Pacific Hwy 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 designs and constructs modifications necessary to continue operation of the gas flare facility at the Midway Landfill. As gas flows decrease naturally over time, modifications are necessary to continue operating the flare facility. The original equipment was sized for the gas flows in 1989 and retrofitted in 2003. SPU anticipates that by 2008, the system may again approach its limits for decreased flows. By 2008, SPU may add natural gas to the system in order to maintain combustion. Alternatives to flaring may be researched during this project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 0 | 20 | 33 | 0 | 0 | 0 | 0 | 0 | 53 |
| Project Total: | 0 | 20 | 33 | 0 | 0 | 0 | 0 | 0 | 53 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 0 | 20 | 33 | 0 | 0 | 0 | 0 | 0 | 53 |
| Appropriations Total* | 0 | 20 | 33 | 0 | 0 | 0 | 0 | 0 | 53 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Spending Plan | | 25 | 33 | 0 | 0 | 0 | 0 | 0 | 58 |

**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 Landfill Improvements

BCL/Program Name: Rehabilitation and Heavy Equipment **BCL/Program Code:** C240B
Project Type: Improved Facility **Start Date:** 1st Quarter 2003
Project ID: C203004 **End Date:** 4th Quarter 2011

Location: 24808 Pacific Hwy 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 conducts post-closure capital improvements at the Midway Landfill, a 50-acre former gravel quarry located in Kent, Washington and operated by SPU from 1966 to 1983. The Washington State Department of Transportation (WSDOT) is undertaking a billion-dollar project to widen Interstate 5 by two lanes on the west side. This state project impacts landfill post-closure infrastructure that is currently in place on the WSDOT right-of-way, and also requires SPU to remove refuse buried in the right-of-way. SPU and WSDOT are working together on this project, which will be awarded as a Design Build contract in 2008, if WSDOT obtains funding for its highway project. SPU has completed preliminary engineering for waste removal and stormwater system relocation as needed to accommodate the additional lanes on I-5. Design will resume once WSDOT has obtained funding for the project, as determined by public vote in November 2007.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|-------|-------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 865 | 225 | 166 | 252 | 2,838 | 2,978 | 0 | 0 | 7,324 |
| Project Total: | 865 | 225 | 166 | 252 | 2,838 | 2,978 | 0 | 0 | 7,324 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 865 | 225 | 166 | 252 | 2,838 | 2,978 | 0 | 0 | 7,324 |
| Appropriations Total* | 865 | 225 | 166 | 252 | 2,838 | 2,978 | 0 | 0 | 7,324 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 37 | 37 | 73 |
| Spending Plan | | 460 | 166 | 252 | 2,838 | 2,978 | 0 | 0 | 6,694 |

**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 2008

Location: 8101 2nd 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 allows short-term actions to ensure that the City's existing Recycling & Disposal Stations continue to function reliably, pending implementation of the Solid Waste Facilities Master Plan. The work includes emergency electrical service relocation to maintain safe and reliable power, fuel system control reconfiguration, development of a misting system at the South Recycling & Disposal Station, transfer station electrical improvements, transfer station drainage improvements, installation of acoustical insulation, water line and hydrant replacement, South Household Hazardous Waste entry relocation, and other facility improvements necessary to keep the stations operational and safe. The project also includes installation of electric trucking gates, an important security element as SPU does more trucking in off-peak hour periods.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 979 | 123 | 116 | 0 | 0 | 0 | 0 | 0 | 1,218 |
| Project Total: | 979 | 123 | 116 | 0 | 0 | 0 | 0 | 0 | 1,218 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 979 | 123 | 116 | 0 | 0 | 0 | 0 | 0 | 1,218 |
| Appropriations Total* | 979 | 123 | 116 | 0 | 0 | 0 | 0 | 0 | 1,218 |
| O & M Costs (Savings) | | | 0 | 5 | 5 | 5 | 5 | 5 | 25 |
| Spending Plan | | 295 | 116 | 0 | 0 | 0 | 0 | 0 | 411 |

**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

New Facilities Development

BCL/Program Name: New Facilities **BCL/Program Code:** C230B
Project Type: Improved Facility **Start Date:** 1st Quarter 2005
Project ID: C205308 **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 project develops Solid Waste New Facility improvements through the preparation of Project Development Plans. Project proposals, including supporting cost-benefit analyses, are reviewed and approved by SPU's Capital Planning Committee. Staff then develop a Project Development Plan for approval by SPU's Asset Management Committee. Documentation is prepared and budget implications are identified. The confidence in the cost estimate is medium. SPU's Asset Management Committee may review new individual project proposals as they occur.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 40 | 26 | 25 | 29 | 31 | 33 | 35 | 29 | 248 |
| Project Total: | 40 | 26 | 25 | 29 | 31 | 33 | 35 | 29 | 248 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 40 | 26 | 25 | 29 | 31 | 33 | 35 | 29 | 248 |
| Appropriations Total* | 40 | 26 | 25 | 29 | 31 | 33 | 35 | 29 | 248 |
| O & M Costs (Savings) | | | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| Spending Plan | | 0 | 25 | 29 | 31 | 33 | 35 | 29 | 182 |

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: 2700 Airport Wy S

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 improves operational facilities within the city limits that support SPU management, operations and maintenance business functions, workforce, material and equipment. Sub-projects within this program will go to SPU's Asset Management Committee for approval.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 1,099 | 687 | 221 | 284 | 291 | 272 | 278 | 286 | 3,418 |
| Project Total: | 1,099 | 687 | 221 | 284 | 291 | 272 | 278 | 286 | 3,418 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 1,099 | 687 | 221 | 284 | 291 | 272 | 278 | 286 | 3,418 |
| Appropriations Total* | 1,099 | 687 | 221 | 284 | 291 | 272 | 278 | 286 | 3,418 |
| O & M Costs (Savings) | | | 17 | 17 | 17 | 17 | 17 | 17 | 103 |
| Spending Plan | | 333 | 221 | 284 | 291 | 272 | 278 | 286 | 1,965 |

**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: 2700 Airport Wy 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 program conducts studies, assessments, planning, design, and purchases for operational facility assets within the city limits. In 2011-2012, SPU plans to focus improvements on water-funded projects, but that could change over time as projects are determined. Sub-projects within this program will go to SPU's Asset Management Committee for approval.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 12 | 82 | 29 | 25 | 26 | 10 | 10 | 10 | 204 |
| Project Total: | 12 | 82 | 29 | 25 | 26 | 10 | 10 | 10 | 204 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 12 | 82 | 29 | 25 | 26 | 10 | 10 | 10 | 204 |
| Appropriations Total* | 12 | 82 | 29 | 25 | 26 | 10 | 10 | 10 | 204 |
| O & M Costs (Savings) | | | 1 | 1 | 1 | 1 | 1 | 1 | 5 |
| Spending Plan | | 185 | 29 | 25 | 26 | 10 | 10 | 10 | 295 |

Operations Control Center - SWF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2003
Project ID: C4105-SWF **End Date:** 4th Quarter 2010

Location: 2700 Airport Wy S

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

This program rehabilitates, replaces and constructs new improvements at the Operations Control Center complex to support the business needs of SPU's operational work force. Projects within this program include proposed Main Warehouse roof replacement, Main Warehouse lighting improvements, Operations Control Center public space improvements and Main Warehouse office space improvements. These proposed projects are necessary to address deferred maintenance of the Main Warehouse and other structures at the Operations Control Center complex. Sub-projects within this program will go to the SPU Asset Management Committee for approval.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 458 | 210 | 26 | 118 | 15 | 0 | 0 | 0 | 827 |
| Project Total: | 458 | 210 | 26 | 118 | 15 | 0 | 0 | 0 | 827 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 458 | 210 | 26 | 118 | 15 | 0 | 0 | 0 | 827 |
| Appropriations Total* | 458 | 210 | 26 | 118 | 15 | 0 | 0 | 0 | 827 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 4 | 4 | 4 | 12 |
| Spending Plan | | 200 | 26 | 118 | 15 | 0 | 0 | 0 | 359 |

**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

Rehab & Heavy Equipment Development

BCL/Program Name: Rehabilitation and Heavy Equipment

BCL/Program Code: C240B

Project Type: Improved Facility

Start Date: 1st Quarter 2006

Project ID: C205411

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 project develops rehabilitation and heavy equipment improvements identified through Project Development Plans. Project proposals, including cost-benefit analyses, are reviewed and approved by SPU's Capital Planning Committee. Staff then develops a Project Development Plan for approval by SPU's Asset Management Committee. The confidence in the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 0 | 52 | 0 | 58 | 61 | 65 | 67 | 63 | 366 |
| Project Total: | 0 | 52 | 0 | 58 | 61 | 65 | 67 | 63 | 366 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 0 | 52 | 0 | 58 | 61 | 65 | 67 | 63 | 366 |
| Appropriations Total* | 0 | 52 | 0 | 58 | 61 | 65 | 67 | 63 | 366 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 10 | 0 | 58 | 61 | 65 | 67 | 63 | 324 |

**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 2012

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 project improves security and protection of SPU's Solid Waste facilities. This is a programmatic project that includes analysis of system vulnerabilities and implementation of security improvements to increase emergency response capabilities and reduce security risks to critical SPU assets. Improvements include integration of security access control systems, alarms, and procedures; physical improvements to facilities (e.g., card readers, cameras, monitoring systems, fence upgrades, gate improvements, and hardening of critical infrastructure); and technology improvements to increase communications, response and investigation capabilities.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 2 | 205 | 173 | 210 | 216 | 221 | 226 | 0 | 1,253 |
| Project Total: | 2 | 205 | 173 | 210 | 216 | 221 | 226 | 0 | 1,253 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 2 | 205 | 173 | 210 | 216 | 221 | 226 | 0 | 1,253 |
| Appropriations Total* | 2 | 205 | 173 | 210 | 216 | 221 | 226 | 0 | 1,253 |
| O & M Costs (Savings) | | | 32 | 32 | 32 | 32 | 32 | 32 | 192 |
| Spending Plan | | 400 | 173 | 210 | 216 | 221 | 226 | 0 | 1,446 |

**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 2013 |

Location: 1350 N 34th St

| | |
|--|--|
| Neighborhood Plan: Not in a Neighborhood Plan | Neighborhood Plan Matrix: N/A |
| Neighborhood District: Lake Union | Urban Village: In more than one Urban Village |

This project implements the North Transfer Station rebuild included in the Solid Waste CIP Facilities Master Plan (formerly C201006). The existing North Recycling and Disposal Station will be replaced with a new transfer station that will modernize solid waste operations, enhance worker safety, and allow for greater recycling opportunities. The new transfer station will be constructed on the existing parcel and a new adjacent parcel purchased in 2007. The transfer station design will be adjusted slightly to accommodate the two-station solution agreed to by Mayor and Council in 2007. The confidence level in the cost estimate is medium as the project is in the pre-engineering phase.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|-------|-------|--------|--------|-------|-------|--------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 10 | 941 | 1,055 | 3,541 | 16,797 | 15,096 | 4,963 | 4,503 | 46,906 |
| Project Total: | 10 | 941 | 1,055 | 3,541 | 16,797 | 15,096 | 4,963 | 4,503 | 46,906 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 10 | 941 | 1,055 | 3,541 | 16,797 | 15,096 | 4,963 | 4,503 | 46,906 |
| Appropriations Total* | 10 | 941 | 1,055 | 3,541 | 16,797 | 15,096 | 4,963 | 4,503 | 46,906 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 1,088 | 1,055 | 3,541 | 16,797 | 15,096 | 4,963 | 4,503 | 47,043 |

**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 2013

Location: 8100 2nd Ave S

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 implements the South Transfer Station rebuild included in the Solid Waste CIP Facilities Master Plan (formerly C201006). The existing South Recycling and Disposal Station will be replaced with a new station that will modernize solid waste operations, enhance worker safety, and allow for greater recycling opportunities. The new transfer station will be constructed on the existing parcel and an adjacent parcel that will be purchased in late 2007. The transfer station design will be adjusted slightly to accommodate the two-station solution agreed to by the Mayor and the City Council in 2007. The confidence level in the cost estimate is medium as the project is in the pre-engineering phase.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|--------|-------|--------|--------|-------|--------|-------|---------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 4 | 12,530 | 5,100 | 23,778 | 28,404 | 8,218 | 17,954 | 4,306 | 100,294 |
| Project Total: | 4 | 12,530 | 5,100 | 23,778 | 28,404 | 8,218 | 17,954 | 4,306 | 100,294 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 4 | 12,530 | 5,100 | 23,778 | 28,404 | 8,218 | 17,954 | 4,306 | 100,294 |
| Appropriations Total* | 4 | 12,530 | 5,100 | 23,778 | 28,404 | 8,218 | 17,954 | 4,306 | 100,294 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 11,524 | 5,100 | 23,778 | 28,404 | 8,218 | 17,954 | 4,306 | 99,284 |

**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: South Park

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 as a historic landfill operator will participate in the remediation of the entire site. The Department of Ecology is the lead regulatory agency for oversight of this project. The confidence in the cost estimate is low. SPU plans to defer the costs of this project under the Financial Accounting Standards Board Statement 71 (FAS 71).

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|-------|------|-------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 0 | 617 | 376 | 2,524 | 539 | 2,977 | 564 | 0 | 7,597 |
| Project Total: | 0 | 617 | 376 | 2,524 | 539 | 2,977 | 564 | 0 | 7,597 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 0 | 617 | 376 | 2,524 | 539 | 2,977 | 564 | 0 | 7,597 |
| Appropriations Total* | 0 | 617 | 376 | 2,524 | 539 | 2,977 | 564 | 0 | 7,597 |
| O & M Costs (Savings) | | | 0 | 0 | 300 | 300 | 300 | 300 | 1,200 |
| Spending Plan | | 430 | 376 | 2,524 | 539 | 2,977 | 564 | 0 | 7,410 |

**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 2007 |
| Project ID: C207002 | End Date: 4th Quarter 2010 |

Location: 8105 5th Ave S

| | |
|--|---|
| 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 relocates the South Household Hazardous Waste (SHHW) facility, currently located at the South Recycling Disposal Station (SRDS). The Solid Waste Facility Master Plan calls for the SRDS to be demolished and rebuilt. As a result, the SHHW, which is co-located with SRDS, may need to be relocated. Other site redevelopment efforts may be significantly constrained if the existing facility remains in its current location. In addition, SHHW may require some facility improvements. Retrofitting the existing facility may cost more than complete replacement because engineering costs for facility retrofits are significantly higher. The timing of this investment is dependent on implementation of the Master Plan and redevelopment of the south transfer station property.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 0 | 246 | 286 | 827 | 847 | 0 | 0 | 0 | 2,206 |
| Project Total: | 0 | 246 | 286 | 827 | 847 | 0 | 0 | 0 | 2,206 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 0 | 246 | 286 | 827 | 847 | 0 | 0 | 0 | 2,206 |
| Appropriations Total* | 0 | 246 | 286 | 827 | 847 | 0 | 0 | 0 | 2,206 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 11 | 11 | 11 | 33 |
| Spending Plan | | 0 | 286 | 827 | 847 | 0 | 0 | 0 | 1,960 |

**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 2009

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 purchases the remaining value of yard waste carts and commercial containers in the event that SPU engages new contractors for solid waste collection. Requests for proposals are under development for solid waste collection contracts which expire March 31, 2009. SPU will decide how to address container acquisition as it prepares to execute new collection contracts.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|-------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Solid Waste Rates | 2,056 | 0 | 0 | 1,149 | 0 | 0 | 0 | 0 | 3,205 |
| Project Total: | 2,056 | 0 | 0 | 1,149 | 0 | 0 | 0 | 0 | 3,205 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Solid Waste Fund | 2,056 | 0 | 0 | 1,149 | 0 | 0 | 0 | 0 | 3,205 |
| Appropriations Total* | 2,056 | 0 | 0 | 1,149 | 0 | 0 | 0 | 0 | 3,205 |
| O & M Costs (Savings) | | | 0 | 0 | 16 | 16 | 16 | 16 | 64 |

**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 | Life To Date | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|---|------------|---------------|---------------|--------------|---------------|--------------|---------------|---------------|---------------|----------------|
| Technology | | | | | | | | | | C510B |
| Administrative - Technology | C5301 | 3,862 | 822 | 889 | 892 | 948 | 220 | 0 | 0 | 7,633 |
| Business Intelligence - Technology | C5302 | 2,359 | 2,373 | 1,542 | 1,504 | 916 | 827 | 677 | 0 | 10,198 |
| Customer Relationship Management - Technology | C5303 | 7,026 | 2,213 | 2,086 | 1,525 | 3,018 | 3,419 | 225 | 0 | 19,512 |
| Enterprise Project Management - Technology | C5304 | 1,465 | 1,897 | 1,026 | 1,682 | 1,724 | 263 | 0 | 0 | 8,057 |
| Fund Placeholders - Technology | C5305 | 0 | 0 | 0 | 0 | 0 | 2,258 | 8,298 | 10,630 | 21,186 |
| Information Management - Technology | C5306 | 8,971 | 1,959 | 1,722 | 1,586 | 1,201 | 1,158 | 226 | 0 | 16,823 |
| Monitor & Control Management - Technology | C5307 | 813 | 348 | 3 | 3 | 129 | 124 | 0 | 0 | 1,420 |
| Technology Infrastructure - Technology | C5308 | 5,339 | 1,094 | 1,708 | 3,500 | 1,401 | 1,654 | 734 | 0 | 15,430 |
| Work Management - Technology | C5309 | 2,027 | 461 | 949 | 816 | 577 | 221 | 225 | 0 | 5,276 |
| Technology Total | | 31,862 | 11,167 | 9,925 | 11,508 | 9,914 | 10,144 | 10,385 | 10,630 | 105,535 |
| Department Total | | 31,862 | 11,167 | 9,925 | 11,508 | 9,914 | 10,144 | 10,385 | 10,630 | 105,535 |

*Amounts in thousands of dollars

2008-2013 Adopted Capital Improvement Program

SPU - Technology Projects

Fund Summary

| Fund Name | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|------------------------------|---------------|---------------|--------------|---------------|--------------|---------------|---------------|---------------|----------------|
| Drainage and Wastewater Fund | 10,204 | 3,843 | 4,048 | 4,206 | 3,395 | 3,474 | 3,555 | 3,639 | 36,364 |
| Solid Waste Fund | 5,602 | 1,569 | 1,444 | 1,706 | 1,857 | 1,900 | 1,946 | 1,992 | 18,016 |
| Water Fund | 16,056 | 5,755 | 4,433 | 5,596 | 4,662 | 4,770 | 4,884 | 4,999 | 51,155 |
| Department Total | 31,862 | 11,167 | 9,925 | 11,508 | 9,914 | 10,144 | 10,385 | 10,630 | 105,535 |

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

**Amounts in thousands of dollars*

2008-2013 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 program makes technology improvements to support the management of SPU. Major projects include IT Service Management and a suite of Finance System Enhancements.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 1,180 | 230 | 254 | 257 | 310 | 77 | 0 | 0 | 2,308 |
| Solid Waste Rates | 712 | 113 | 156 | 156 | 160 | 44 | 0 | 0 | 1,341 |
| Water Rates | 1,970 | 479 | 479 | 479 | 478 | 99 | 0 | 0 | 3,984 |
| Project Total: | 3,862 | 822 | 889 | 892 | 948 | 220 | 0 | 0 | 7,633 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 1,180 | 230 | 254 | 257 | 310 | 77 | 0 | 0 | 2,308 |
| Solid Waste Fund | 712 | 113 | 156 | 156 | 160 | 44 | 0 | 0 | 1,341 |
| Water Fund | 1,970 | 479 | 479 | 479 | 478 | 99 | 0 | 0 | 3,984 |
| Appropriations Total* | 3,862 | 822 | 889 | 892 | 948 | 220 | 0 | 0 | 7,633 |
| O & M Costs (Savings) | | | 38 | 38 | 38 | 38 | 38 | 38 | 229 |
| Spending Plan | | 436 | 889 | 892 | 948 | 220 | 0 | 0 | 3,385 |

**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

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 program develops tools that pull together data from SPU's major operational systems to inform management decisions. Major projects include upgrades to the Science Information Management System, a Customer Contact data warehouse, Fleet Management Data and an End-User Computing Program. Due to quickly changing technology cycles and uncertainty about the out years, the budget for year 2013 is in the Fund Placeholders program (C5305).

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|-------|-------|------|------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 651 | 745 | 544 | 434 | 383 | 329 | 282 | 0 | 3,368 |
| Solid Waste Rates | 546 | 439 | 182 | 45 | 15 | 60 | 113 | 0 | 1,400 |
| Water Rates | 1,162 | 1,189 | 816 | 1,025 | 518 | 438 | 282 | 0 | 5,430 |
| Project Total: | 2,359 | 2,373 | 1,542 | 1,504 | 916 | 827 | 677 | 0 | 10,198 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 651 | 745 | 544 | 434 | 383 | 329 | 282 | 0 | 3,368 |
| Solid Waste Fund | 546 | 439 | 182 | 45 | 15 | 60 | 113 | 0 | 1,400 |
| Water Fund | 1,162 | 1,189 | 816 | 1,025 | 518 | 438 | 282 | 0 | 5,430 |
| Appropriations Total* | 2,359 | 2,373 | 1,542 | 1,504 | 916 | 827 | 677 | 0 | 10,198 |
| O & M Costs (Savings) | | | 51 | 51 | 51 | 51 | 51 | 51 | 306 |
| Spending Plan | | 1,782 | 1,542 | 1,504 | 916 | 827 | 677 | 0 | 7,248 |

**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

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 program develops and implements systems to manage billing, customer contact, and customer information at Seattle Public Utilities (SPU). Major projects include Automated Meter Reading and the Drainage Billing System.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|-------|-------|-------|-------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 2,645 | 1,363 | 1,601 | 919 | 1,084 | 1,145 | 91 | 0 | 8,848 |
| Solid Waste Rates | 1,940 | 271 | 205 | 191 | 925 | 1,092 | 37 | 0 | 4,661 |
| Water Rates | 2,441 | 579 | 280 | 415 | 1,009 | 1,182 | 97 | 0 | 6,003 |
| Project Total: | 7,026 | 2,213 | 2,086 | 1,525 | 3,018 | 3,419 | 225 | 0 | 19,512 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 2,645 | 1,363 | 1,601 | 919 | 1,084 | 1,145 | 91 | 0 | 8,848 |
| Solid Waste Fund | 1,940 | 271 | 205 | 191 | 925 | 1,092 | 37 | 0 | 4,661 |
| Water Fund | 2,441 | 579 | 280 | 415 | 1,009 | 1,182 | 97 | 0 | 6,003 |
| Appropriations Total* | 7,026 | 2,213 | 2,086 | 1,525 | 3,018 | 3,419 | 225 | 0 | 19,512 |
| O & M Costs (Savings) | | | 98 | 98 | 98 | 98 | 98 | 98 | 585 |
| Spending Plan | | 1,832 | 2,086 | 1,525 | 3,018 | 3,419 | 225 | 0 | 12,105 |

**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

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 provide Seattle Public Utilities (SPU) with a comprehensive system 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.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|-------|-------|-------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 564 | 607 | 328 | 538 | 552 | 84 | 0 | 0 | 2,673 |
| Solid Waste Rates | 146 | 190 | 103 | 168 | 172 | 26 | 0 | 0 | 805 |
| Water Rates | 755 | 1,100 | 595 | 976 | 1,000 | 153 | 0 | 0 | 4,579 |
| Project Total: | 1,465 | 1,897 | 1,026 | 1,682 | 1,724 | 263 | 0 | 0 | 8,057 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 564 | 607 | 328 | 538 | 552 | 84 | 0 | 0 | 2,673 |
| Solid Waste Fund | 146 | 190 | 103 | 168 | 172 | 26 | 0 | 0 | 805 |
| Water Fund | 755 | 1,100 | 595 | 976 | 1,000 | 153 | 0 | 0 | 4,579 |
| Appropriations Total* | 1,465 | 1,897 | 1,026 | 1,682 | 1,724 | 263 | 0 | 0 | 8,057 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 40 | 40 | 81 |
| Spending Plan | | 750 | 1,026 | 1,682 | 1,724 | 263 | 0 | 0 | 5,445 |

**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

Fund Placeholders - Technology

| | |
|-------------------------------------|-------------------------------------|
| BCL/Program Name: Technology | BCL/Program Code: C510B |
| Project Type: New Investment | Start Date: 1st Quarter 2011 |
| 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 program sets aside funds for future technology investments in years 2011-2013 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 2011-2013 Budget processes.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|-------|-------|--------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 0 | 0 | 0 | 0 | 0 | 902 | 2,700 | 3,639 | 7,241 |
| Solid Waste Rates | 0 | 0 | 0 | 0 | 0 | 196 | 1,672 | 1,992 | 3,860 |
| Water Rates | 0 | 0 | 0 | 0 | 0 | 1,160 | 3,926 | 4,999 | 10,085 |
| Project Total: | 0 | 0 | 0 | 0 | 0 | 2,258 | 8,298 | 10,630 | 21,186 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 0 | 0 | 0 | 0 | 0 | 902 | 2,700 | 3,639 | 7,241 |
| Solid Waste Fund | 0 | 0 | 0 | 0 | 0 | 196 | 1,672 | 1,992 | 3,860 |
| Water Fund | 0 | 0 | 0 | 0 | 0 | 1,160 | 3,926 | 4,999 | 10,085 |
| Appropriations Total* | 0 | 0 | 0 | 0 | 0 | 2,258 | 8,298 | 10,630 | 21,186 |
| 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

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 program improves Seattle Public Utilities' (SPU) technological infrastructure for storage and retrieval of business information, including spatial information and documents. Major projects include Document Management and Utility GIS Data Development. Due to quickly changing technology cycles and uncertainty about the out years, the Budget for year 2013 is in the Fund Placeholders - Program C5305.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|-------|-------|-------|-------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 3,048 | 422 | 618 | 467 | 368 | 325 | 149 | 0 | 5,397 |
| Solid Waste Rates | 758 | 311 | 241 | 269 | 197 | 205 | 0 | 0 | 1,981 |
| Water Rates | 5,165 | 1,226 | 863 | 850 | 636 | 628 | 77 | 0 | 9,445 |
| Project Total: | 8,971 | 1,959 | 1,722 | 1,586 | 1,201 | 1,158 | 226 | 0 | 16,823 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 3,048 | 422 | 618 | 467 | 368 | 325 | 149 | 0 | 5,397 |
| Solid Waste Fund | 758 | 311 | 241 | 269 | 197 | 205 | 0 | 0 | 1,981 |
| Water Fund | 5,165 | 1,226 | 863 | 850 | 636 | 628 | 77 | 0 | 9,445 |
| Appropriations Total* | 8,971 | 1,959 | 1,722 | 1,586 | 1,201 | 1,158 | 226 | 0 | 16,823 |
| O & M Costs (Savings) | | | 84 | 84 | 84 | 84 | 84 | 84 | 505 |
| Spending Plan | | 2,018 | 1,722 | 1,586 | 1,201 | 1,158 | 226 | 0 | 7,911 |

**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 program develops systems to directly interface with utility infrastructure, either to control it or to provide real-time information about its state. Two small out-year subprojects are planned in this category: a Laboratory Information Management System upgrade and a monitoring system for historic landfills. Due to quickly changing technology cycles and uncertainty about the out years, the budget for years 2012 and 2013 are in the Fund Placeholders - Program C5305.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 14 | 33 | 1 | 1 | 0 | 0 | 0 | 0 | 49 |
| Solid Waste Rates | 4 | 10 | 1 | 1 | 129 | 0 | 0 | 0 | 145 |
| Water Rates | 795 | 305 | 1 | 1 | 0 | 124 | 0 | 0 | 1,226 |
| Project Total: | 813 | 348 | 3 | 3 | 129 | 124 | 0 | 0 | 1,420 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 14 | 33 | 1 | 1 | 0 | 0 | 0 | 0 | 49 |
| Solid Waste Fund | 4 | 10 | 1 | 1 | 129 | 0 | 0 | 0 | 145 |
| Water Fund | 795 | 305 | 1 | 1 | 0 | 124 | 0 | 0 | 1,226 |
| Appropriations Total* | 813 | 348 | 3 | 3 | 129 | 124 | 0 | 0 | 1,420 |
| O & M Costs (Savings) | | | 7 | 7 | 7 | 7 | 7 | 7 | 43 |

**This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts 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 program develops and implements technology improvements that support Seattle Public Utilities' (SPU) business systems. Major projects include IT Business Continuity, Data Storage Improvements, a Server Environment Upgrade and SPU's share of the Citywide Technology Infrastructure Optimization project. Due to uncertainty surrounding short technology product cycles, the budget for year 2013 is in the Fund Placeholders - Program C5305.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|-------|-------|-------|-------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 1,023 | 308 | 372 | 1,291 | 487 | 541 | 261 | 0 | 4,283 |
| Solid Waste Rates | 1,172 | 168 | 432 | 779 | 190 | 242 | 88 | 0 | 3,071 |
| Water Rates | 3,144 | 618 | 904 | 1,430 | 724 | 871 | 385 | 0 | 8,076 |
| Project Total: | 5,339 | 1,094 | 1,708 | 3,500 | 1,401 | 1,654 | 734 | 0 | 15,430 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 1,023 | 308 | 372 | 1,291 | 487 | 541 | 261 | 0 | 4,283 |
| Solid Waste Fund | 1,172 | 168 | 432 | 779 | 190 | 242 | 88 | 0 | 3,071 |
| Water Fund | 3,144 | 618 | 904 | 1,430 | 724 | 871 | 385 | 0 | 8,076 |
| Appropriations Total* | 5,339 | 1,094 | 1,708 | 3,500 | 1,401 | 1,654 | 734 | 0 | 15,430 |
| O & M Costs (Savings) | | | 77 | 77 | 77 | 77 | 77 | 77 | 463 |

**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
Project Type: New Investment
Project ID: C5309

BCL/Program Code: C510B
Start Date: 1st Quarter 2003
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 program develops and implements new technologies to improve the efficiency and effectiveness of Seattle Public Utilities' (SPU) front-line workers. Major projects include Dispatching, Vehicle Location Technology and a Maximo Upgrade Program. Due to the uncertainty surrounding short technology product cycles, the budget for year 2013 is in the Fund Placeholders - Program C5305.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Drainage and Wastewater Rates | 1,079 | 135 | 330 | 299 | 211 | 71 | 72 | 0 | 2,197 |
| Solid Waste Rates | 324 | 67 | 124 | 97 | 69 | 35 | 36 | 0 | 752 |
| Water Rates | 624 | 259 | 495 | 420 | 297 | 115 | 117 | 0 | 2,327 |
| Project Total: | 2,027 | 461 | 949 | 816 | 577 | 221 | 225 | 0 | 5,276 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Drainage and Wastewater Fund | 1,079 | 135 | 330 | 299 | 211 | 71 | 72 | 0 | 2,197 |
| Solid Waste Fund | 324 | 67 | 124 | 97 | 69 | 35 | 36 | 0 | 752 |
| Water Fund | 624 | 259 | 495 | 420 | 297 | 115 | 117 | 0 | 2,327 |
| Appropriations Total* | 2,027 | 461 | 949 | 816 | 577 | 221 | 225 | 0 | 5,276 |
| O & M Costs (Savings) | | | 26 | 26 | 26 | 26 | 26 | 26 | 158 |
| Spending Plan | | 1,236 | 949 | 816 | 577 | 221 | 225 | 0 | 4,024 |

**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 20 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 overriding 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:** To comply with water quality regulations and to enhance water system security, the City plans to cover all of its drinking-water reservoirs over the next several years. Two reservoirs, Bitter Lake and Lake Forest Park, have already been covered with floating covers. The Lincoln Reservoir/Cal Anderson Park project is complete. Design work for the replacement of Beacon, Myrtle, West Seattle, and Maple Leaf reservoirs commenced in 2005, and construction began on the Beacon and Myrtle Reservoir projects in 2006 with projected project completion at the end of 2008. Construction of a new buried reservoir to replace the West Seattle Reservoir will begin in 2008 with completion of the project by the end of 2010. The construction of Maple Leaf Reservoir's replacement is scheduled to begin in 2009 and end in 2011. SPU currently plans to decommission the Roosevelt Reservoir, and further evaluate the possibility of decommissioning the Volunteer Reservoir; however, specific actions at these two reservoirs are expected to occur after 2011.
- **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 on the Cedar River Watershed. This agreement commits the City to certain projects and management practices to mitigate the environmental impact 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 project within the Cedar HCP Program is the Cedar Sockeye Hatchery, which has been delayed at least a year as it undergoes an appeal of its Environmental Impact Statement. Other HCP projects within the municipal watershed include culvert improvements and other stream restoration work, removal of logging roads, and restoration of forest and lands. Research and monitoring are also being conducted in association with many of these projects. Approximately \$31 million is included in the 2008-2013 Adopted CIP for these projects.

Project Selection Process

SPU has adopted an Asset Management approach for selecting 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 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 that meet the benefit 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

Seattle Public Utilities – Water

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 \$83.9 million in 2008 (including Technology projects funded by the Water Fund, displayed in a separate section of this CIP), or \$7.6 million higher than the 2008 Endorsed Budget. In the Distribution BCL, the higher demand for taps results in an increase of \$4.3 million for that program. The Watermain Rehabilitation program increases slightly in order to fund specific projects that will in turn reduce maintenance costs. Likewise, the Transmission Pipeline Rehabilitation program, in the Transmission BCL, sees an increase to initiate new projects that will save maintenance costs. The 2008 budget for the Water Quality and Treatment BCL increases by \$2.76 million due to the following: inflationary costs for the West Seattle Reservoir Covering project, acceleration of the Maple Leaf Reservoir Covering project, and an adjustment to the cash flow for the Beacon Reservoir Covering project, without affecting overall costs. In the Water Resources BCL, a few projects result in increases: acceleration of the Morse Lake Pumping Plant project, increased site condition costs for the Cedar Moraine Improvements project, and a delay with the Landsburg Flood Passage Improvements project. In the Watershed Stewardship BCL, the budget increases by \$1.52 million largely due to implementation of the Muckleshoot Indian Tribe Agreement and expanding the scope for the Endangered Species Act Chinook Research and Monitoring Project.

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 Program: This program category includes projects and programs directly related to implementation of the Cedar River Watershed Habitat Conservation Plan. Projects are grouped into eight areas of focus: road improvements and decommissioning, stream and riparian restoration, upland forest restoration, Landsburg fish passage improvements, Cedar sockeye hatchery, Ballard Locks improvements, downstream fish habitat, and Cedar permanent dead storage evaluations.

Shared Cost Projects: This program includes capital improvement projects that receive funding from multiple SPU funds. In 2008, the program includes funding for utility relocation due to the Alaskan Way Tunnel & Seawall Project, Operational Facility Improvements, the Operations Control Center Upgrade, Security Improvements, and Sound Transit Light Rail.

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 plan for and produce untreated water to meet anticipated demands at our supply reliability standard, and promote residential and commercial water conservation.

Seattle Public Utilities – Water

Watershed Stewardship: Projects and programs in this program category provide environmental protection, sustain the environment, and enhance environmental quality, both locally and regionally. Several of the projects are implemented 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 O&M Budget submittals.

City Council Provisos to the CIP

No more than \$100,000 of the money appropriated for 2008 for the Seattle Public Utilities' (SPU's) Water Quality & Treatment BCL may be spent on Reservoir Covering - Maple Leaf project (Project ID C101078) until authorized by a future ordinance. Council anticipates that such authority will not be granted unless SPU submits a report to Council that evaluates potential rate impacts of the accelerated schedule for the Reservoir Covering - Maple Leaf project.

SPU - Water

Project Summary

| BCL/Program Name & Project | Project ID | Life To Date | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|---|------------|--------------|--------|-------|-------|-------|-------|-------|-------|---------------|
| Distribution | | | | | | | | | | C110B |
| Asset Management | C1126 | 1,518 | 259 | 51 | 208 | 212 | 216 | 220 | 231 | 2,915 |
| Aurora Ave. N (110th - 145th) | C103033 | 3 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 12 |
| Cathodic Protection Program | C1116 | 1,476 | 843 | 451 | 552 | 580 | 609 | 639 | 809 | 5,959 |
| Cedar River Pipeline 2 Replace Portion | C104013 | 77 | 316 | 1 | 0 | 0 | 0 | 0 | 0 | 394 |
| Chamber Upgrades - Distribution | C103002 | 524 | 121 | 154 | 105 | 108 | 110 | 113 | 116 | 1,351 |
| Distribution System In-Line Gate Valves | C199012 | 571 | 60 | 61 | 121 | 124 | 127 | 130 | 133 | 1,327 |
| Fireflow & Pressure Improvements | C1128 | 71 | 561 | 327 | 1,052 | 1,078 | 1,103 | 1,129 | 1,156 | 6,477 |
| Hidden Lake CSO Betterments | C104066 | 71 | 446 | 1 | 0 | 0 | 0 | 0 | 0 | 518 |
| Hidden Lake CSO Impact Work | C104067 | 145 | 293 | 46 | 0 | 0 | 0 | 0 | 0 | 484 |
| Multiple Utility Relocation | C1133 | 327 | 612 | 573 | 625 | 870 | 913 | 958 | 1,156 | 6,034 |
| Painting Program - Myrtle Tank | C104031 | 87 | 56 | 5 | 1,399 | 388 | 0 | 0 | 0 | 1,935 |
| Painting Program - Richmond Highland | C104032 | 98 | 5 | 5 | 1,956 | 593 | 0 | 0 | 0 | 2,657 |
| Painting Program - Steel Structures | C1NW130 | 262 | 52 | 0 | 473 | 539 | 551 | 564 | 578 | 3,019 |
| Pump Station - Install Station Motors | C199052 | 415 | 60 | 72 | 63 | 65 | 66 | 68 | 69 | 878 |
| Pump Station - Queen Anne | C1AA005 | 734 | 5,102 | 171 | 0 | 0 | 0 | 0 | 0 | 6,007 |
| Seismic Upgrade - Pipeline Backbone | C101038 | 407 | 51 | 765 | 1,657 | 580 | 0 | 0 | 0 | 3,460 |
| Seismic Upgrade - Tanks | C1120 | 1,349 | 3,510 | 690 | 300 | 300 | 551 | 300 | 0 | 7,000 |
| Water Infrastructure - Hydrant Replacement/Relocation | C1110 | 1,536 | 163 | 425 | 436 | 447 | 458 | 468 | 480 | 4,413 |
| Water Infrastructure - New Hydrants | C1112 | 0 | 105 | 102 | 131 | 135 | 138 | 141 | 144 | 896 |
| Water Infrastructure - New Taps | C1113 | 3,209 | 10,145 | 8,500 | 6,836 | 7,004 | 7,168 | 7,337 | 7,511 | 57,710 |

*Amounts in thousands of dollars

2008-2013 Adopted Capital Improvement Program

SPU - Water

Project Summary

| BCL/Program Name & Project | Project ID | Life To Date | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|---|------------|---------------|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Distribution | | | BCL/Program Code: | | | | | | | C110B |
| Water Infrastructure - Service Renewal | C1109 | 58 | 6,099 | 5,478 | 6,310 | 6,466 | 6,616 | 6,773 | 6,933 | 44,733 |
| Water Infrastructure - Watermain Extensions | C1111 | 253 | 1,167 | 592 | 1,052 | 1,078 | 1,103 | 1,129 | 1,156 | 7,530 |
| Watermain Rehabilitation | C1129 | 3,840 | 1,118 | 1,141 | 4,207 | 4,310 | 4,411 | 4,515 | 5,200 | 28,742 |
| WSDOT Sound Walls | C104019 | 27 | 149 | 41 | 0 | 0 | 0 | 0 | 0 | 217 |
| Distribution Total | | 17,058 | 31,301 | 19,653 | 27,483 | 24,877 | 24,140 | 24,484 | 25,672 | 194,668 |
| Habitat Conservation Program | | | BCL/Program Code: | | | | | | | C160B |
| Ballard Locks Improvements | C1606 | 961 | 76 | 79 | 54 | 431 | 0 | 0 | 0 | 1,601 |
| Cedar Sockeye Hatchery | C1605 | 2,799 | 5,407 | 2,245 | 7,572 | 647 | 0 | 0 | 0 | 18,670 |
| Downstream Fish Habitat | C1607 | 465 | 2,517 | 2,729 | 2,451 | 43 | 17 | 0 | 0 | 8,222 |
| Instream Flow Management Studies | C1608 | 554 | 571 | 718 | 500 | 337 | 0 | 0 | 0 | 2,680 |
| Landsburg Fish Passage Monitoring | C1604 | 351 | 268 | 261 | 3 | 0 | 0 | 0 | 0 | 883 |
| Stream & Riparian Restoration | C1602 | 3,374 | 955 | 738 | 759 | 606 | 657 | 592 | 433 | 8,114 |
| Upland Reserve Forest Restoration | C1603 | 3,753 | 831 | 658 | 701 | 722 | 742 | 695 | 661 | 8,763 |
| Watershed Road Improvement/Decommissioning | C1601 | 5,445 | 940 | 846 | 780 | 804 | 700 | 727 | 745 | 10,987 |
| Habitat Conservation Program Total | | 17,702 | 11,565 | 8,274 | 12,820 | 3,590 | 2,116 | 2,014 | 1,839 | 59,920 |

*Amounts in thousands of dollars

2008-2013 Adopted Capital Improvement Program

SPU - Water

Project Summary

| BCL/Program Name & Project | Project ID | Life To Date | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|--------------|--------------|-------|-------|-------|--------------------------|-------|-------|-------|---------------|
| Shared Cost Projects | | | | | | BCL/Program Code: | | | | C410B |
| 1% for Art – WF | C4118 - WF | 741 | 592 | 218 | 388 | 415 | 182 | 51 | 118 | 2,705 |
| 2006 Storms Capital Program - WF | C4120-WF | 0 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 200 |
| Bridging the Gap Program-WF | C4119-WF | 0 | 0 | 1,277 | 1,317 | 372 | 384 | 397 | 410 | 4,157 |
| Climate Protection - WF | C407S01-WF | 0 | 154 | 186 | 172 | 177 | 181 | 185 | 189 | 1,244 |
| Heavy Equipment Purchases - WF | C4116-WF | 251 | 4,643 | 2,873 | 1,511 | 4,683 | 4,933 | 1,019 | 2,435 | 22,348 |
| I-5 Pavement Reconstruction - WF | C407022-WF | 0 | 132 | 139 | 150 | 163 | 167 | 180 | 168 | 1,099 |
| Integrated Control Monitoring Program - WF | C4108-WF | 12 | 3,899 | 2,072 | 919 | 650 | 55 | 28 | 87 | 7,722 |
| Meter Replacement - WF | C4101-WF | 2,208 | 574 | 625 | 547 | 560 | 573 | 587 | 602 | 6,276 |
| Operational Facility - Construction - WF | C4106-WF | 2,909 | 2,650 | 1,102 | 1,834 | 1,877 | 1,495 | 1,530 | 1,569 | 14,966 |
| Operational Facility - Other - WF | C4115-WF | 156 | 676 | 182 | 567 | 818 | 110 | 113 | 116 | 2,738 |
| Operations Control Center - WF | C4105-WF | 3,022 | 1,383 | 183 | 820 | 102 | 0 | 0 | 0 | 5,510 |
| Regional Facility - WF | C4107-WF | 60 | 1,420 | 776 | 2,604 | 2,687 | 551 | 564 | 578 | 9,240 |
| Security Improvements - WF | C4113-WF | 46 | 2,302 | 1,036 | 1,262 | 1,293 | 1,323 | 1,355 | 0 | 8,617 |
| Sound Transit – Airport Link - WF | C4111-WF | 3 | 63 | 28 | 0 | 0 | 0 | 0 | 0 | 94 |
| Sound Transit – University Link - WF | C4110-WF | 5 | 49 | 122 | 120 | 0 | 0 | 0 | 0 | 296 |
| Sound Transit - Water Betterment | C405430 | 1,195 | 410 | 431 | 833 | 1,025 | 992 | 1,016 | 0 | 5,902 |
| Sound Transit Central Link - WF | C4104-WF | 3,752 | 612 | 369 | 0 | 0 | 0 | 0 | 0 | 4,733 |
| South Lake Union - WF | C4114-WF | 0 | 150 | 139 | 16 | 0 | 0 | 0 | 0 | 305 |
| South Lander Grade Separation - WF | C408S03 - WF | 0 | 0 | 102 | 104 | 107 | 109 | 0 | 0 | 422 |
| Spokane Street Viaduct - WF | C407023-WF | 0 | 132 | 1,527 | 0 | 0 | 0 | 0 | 0 | 1,659 |

*Amounts in thousands of dollars

2008-2013 Adopted Capital Improvement Program

SPU - Water

Project Summary

| BCL/Program Name & Project | Project ID | Life To Date | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|--------------|---------------|---------------|---------------|---------------|--------------------------|---------------|--------------|--------------|----------------|
| Shared Cost Projects | | | | | | BCL/Program Code: | | | | C410B |
| SR 519 Interchange - WF | C408S04 - WF | 0 | 0 | 102 | 104 | 107 | 109 | 0 | 0 | 422 |
| SR-520 Bridge Replacement - WF | C407021-WF | 0 | 132 | 139 | 150 | 163 | 176 | 191 | 168 | 1,119 |
| Utility Relocation due to Alaskan Way Viaduct and Seawall Replacement - WF | C4102-WF | 337 | 2,017 | 257 | 320 | 0 | 0 | 0 | 0 | 2,931 |
| Shared Cost Projects Total | | 14,697 | 22,090 | 13,985 | 13,738 | 15,199 | 11,340 | 7,216 | 6,440 | 104,705 |
| Transmission | | | | | | BCL/Program Code: | | | | C120B |
| I-405 Widening Cedar River Pipelines Impacts | C105096 | 35 | 39 | 142 | 0 | 0 | 0 | 0 | 0 | 216 |
| Maple Leaf Gatehouse Pipe Refurbishing | C195001 | 94 | 254 | 350 | 0 | 0 | 0 | 0 | 0 | 698 |
| Marine View/Des Moines Creek | C197021 | 248 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 258 |
| Purveyor Meters Replace - SPU | C1206 | 2 | 147 | 137 | 105 | 108 | 110 | 113 | 1 | 723 |
| Renton Franchise/Line Valve Cedar River | C102023 | 2,235 | 45 | 1 | 0 | 0 | 0 | 0 | 0 | 2,281 |
| Replace Air Valve Chambers | C199060 | 458 | 64 | 64 | 67 | 69 | 71 | 72 | 74 | 939 |
| Seismic Upgrade - Cedar River Pipelines @ Ginger Creek | C197032 | 1,710 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 1,716 |
| Tolt Pipeline 2 II & III East of Tieline | C100084 | 28,239 | 11 | 11 | 11 | 11 | 0 | 0 | 0 | 28,283 |
| Tolt Pipeline 2 II & III West of Tieline | C100083 | 26,418 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 26,424 |
| Tolt Pipeline I - Phase 3 - B | C199003 | 5,249 | 6 | 0 | 2 | 2 | 2 | 0 | 0 | 5,261 |
| Tolt Pipeline II - Phase 4 | C194029 | 28,735 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 28,744 |
| Transmission Pipelines Rehabilitation | C1207 | 44 | 689 | 1,145 | 1,051 | 1,077 | 1,103 | 1,129 | 1,157 | 7,395 |
| Water Design Standards & Guideline Program | C102028 | 399 | 275 | 115 | 0 | 0 | 0 | 0 | 0 | 789 |
| Water System Dewatering | C1205 | 320 | 34 | 14 | 158 | 162 | 165 | 169 | 174 | 1,196 |
| Transmission Total | | 94,186 | 1,583 | 1,991 | 1,394 | 1,429 | 1,451 | 1,483 | 1,406 | 104,923 |

*Amounts in thousands of dollars

2008-2013 Adopted Capital Improvement Program

SPU - Water

Project Summary

| BCL/Program Name & Project | Project ID | Life To Date | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|------------|----------------|--------------------------|---------------|---------------|---------------|---------------|--------------|--------------|----------------|
| Water Quality & Treatment | | | BCL/Program Code: | | | | | | | C140B |
| Cedar Treatment Facility | C196015 | 93,568 | 454 | 1 | 1 | 1 | 1 | 1 | 0 | 94,027 |
| Reservoir Covering - Beacon | C101060 | 11,692 | 18,490 | 9,326 | 1,500 | 0 | 0 | 0 | 0 | 41,008 |
| Reservoir Covering - Maple Leaf | C101078 | 1,309 | 14 | 718 | 14,198 | 28,018 | 14,335 | 804 | 0 | 59,396 |
| Reservoir Covering - Myrtle | C101076 | 4,115 | 6,720 | 600 | 0 | 0 | 0 | 0 | 0 | 11,435 |
| Reservoir Covering - Volunteer | C101059 | 94 | 0 | 10 | 5 | 54 | 110 | 847 | 8,089 | 9,209 |
| Reservoir Covering - West Seattle | C101075 | 1,293 | 730 | 8,149 | 18,445 | 8,938 | 175 | 0 | 0 | 37,730 |
| Treatment Facility/Water Quality Improvements | C107018 | 0 | 106 | 154 | 158 | 162 | 165 | 169 | 173 | 1,087 |
| Water Quality Equipment | C107020 | 0 | 166 | 102 | 5 | 0 | 0 | 0 | 0 | 273 |
| Water Quality & Treatment Total | | 112,071 | 26,680 | 19,060 | 34,312 | 37,173 | 14,786 | 1,821 | 8,262 | 254,165 |
| Water Resources | | | BCL/Program Code: | | | | | | | C150B |
| Dam Safety Program | C1506 | 3,302 | 0 | 3,322 | 206 | 804 | 2,427 | 368 | 578 | 11,007 |
| Morse Lake Pump Plant | C103032 | 805 | 1,847 | 1,588 | 10,517 | 12,392 | 2,328 | 4,515 | 578 | 34,570 |
| Regional Water Conservation Program | C1504 | 5,235 | 3,731 | 3,774 | 4,207 | 4,858 | 682 | 729 | 765 | 23,981 |
| Seattle Direct Service Additional Conservation | C1505 | 1,751 | 1,918 | 1,802 | 1,991 | 2,088 | 37 | 0 | 0 | 9,587 |
| Water Resources Project Development | C105100 | 397 | 102 | 113 | 113 | 108 | 121 | 128 | 0 | 1,082 |
| Water Supply Flexibility Program | C1507 | 0 | 0 | 438 | 841 | 862 | 0 | 0 | 0 | 2,141 |
| Water System Plan - 2013 | C113001 | 0 | 0 | 0 | 49 | 99 | 465 | 770 | 23 | 1,406 |
| Water Resources Total | | 11,490 | 7,598 | 11,037 | 17,924 | 21,211 | 6,060 | 6,510 | 1,944 | 83,774 |

*Amounts in thousands of dollars

2008-2013 Adopted Capital Improvement Program

SPU - Water

Project Summary

| BCL/Program Name & Project | Project ID | Life To Date | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|---|------------|--------------|-------|------|------|--------------------------|------|------|------|---------------|
| Watershed Stewardship | | | | | | BCL/Program Code: | | | | C130B |
| BPA - Aquatic & Riparian Restoration | C1303 | 868 | 305 | 36 | 0 | 0 | 0 | 0 | 0 | 1,209 |
| BPA - Road Decommissioning/Improvements | C1304 | 74 | 137 | 157 | 5 | 0 | 0 | 0 | 0 | 373 |
| BPA - Security Measures | C1305 | 720 | 35 | 72 | 11 | 11 | 11 | 0 | 0 | 860 |
| BPA - Upland Forest Restoration | C1306 | 555 | 395 | 176 | 79 | 27 | 28 | 0 | 0 | 1,260 |
| Cedar Bridges | C1307 | 49 | 1,176 | 209 | 105 | 178 | 192 | 0 | 0 | 1,909 |
| Cedar Falls – Railroad Hazardous Material Remediation | C100078 | 171 | 62 | 53 | 0 | 0 | 0 | 0 | 0 | 286 |
| Cedar River - Boundary Land Acquisition | C198008 | 2,357 | 128 | 11 | 322 | 117 | 123 | 129 | 135 | 3,322 |
| Cedar River Non-HCP Road Improvements | C191001 | 5,324 | 830 | 702 | 715 | 733 | 860 | 880 | 902 | 10,946 |
| Cedar River Watershed Cultural Resource Information Management System | C107005 | 0 | 207 | 103 | 0 | 0 | 0 | 0 | 0 | 310 |
| Cedar River Watershed Fish & Wildlife Information Management System | C107001 | 0 | 42 | 141 | 0 | 0 | 0 | 0 | 0 | 183 |
| Cedar River Watershed Inventory Management System | C107006 | 0 | 199 | 201 | 0 | 0 | 0 | 0 | 0 | 400 |
| Cedar River Watershed Limited Use Area Management Plan | C107002 | 0 | 104 | 44 | 0 | 0 | 0 | 0 | 0 | 148 |
| Endangered Species Act Chinook Research & Monitoring | C101048 | 1,112 | 259 | 323 | 0 | 0 | 0 | 0 | 0 | 1,694 |
| Endangered Species Act Snohomish River Basin | C101003 | 277 | 45 | 49 | 53 | 65 | 55 | 0 | 0 | 544 |
| Endangered Species Act Tolt Levee Modifications | C105095 | 540 | 655 | 945 | 599 | 27 | 28 | 0 | 0 | 2,794 |
| Environmental Steward Project Development | C105084 | 112 | 97 | 86 | 105 | 108 | 110 | 113 | 116 | 847 |

*Amounts in thousands of dollars

2008-2013 Adopted Capital Improvement Program

SPU - Water

Project Summary

| BCL/Program Name & Project | Project ID | Life To Date | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|------------|----------------|----------------|---------------|----------------|--------------------------|---------------|---------------|---------------|----------------|
| Watershed Stewardship | | | | | | BCL/Program Code: | | | | C130B |
| Kerriston Road Mitigation | C107017 | 0 | 75 | 104 | 221 | 232 | 243 | 255 | 268 | 1,398 |
| Lake Youngs Management Plan | C107003 | 0 | 156 | 54 | 42 | 70 | 62 | 0 | 0 | 384 |
| Muckleshoot Agreement Implementation Plan | C1309 | 17,302 | 1,324 | 885 | 105 | 0 | 0 | 0 | 0 | 19,616 |
| Restoration Thinning Slash Treatment | C107019 | 0 | 223 | 174 | 90 | 93 | 0 | 0 | 0 | 580 |
| Rock Creek Fishway | C101008 | 440 | 1,640 | 180 | 14 | 14 | 0 | 0 | 0 | 2,288 |
| South Fork Tolt Large Woody Debris Replacement | C104057 | 88 | 3 | 3 | 63 | 65 | 26 | 0 | 0 | 248 |
| Tolt Bridges | C1308 | 230 | 6 | 85 | 263 | 0 | 0 | 0 | 0 | 584 |
| Tolt River Watershed Road Improvements | C196007 | 1,643 | 177 | 192 | 126 | 129 | 132 | 135 | 0 | 2,534 |
| Tolt Watershed Management Plan | C105083 | 341 | 219 | 161 | 0 | 0 | 0 | 0 | 0 | 721 |
| Watershed Emergency/Opportunity | C107004 | 0 | 207 | 214 | 158 | 216 | 221 | 226 | 231 | 1,473 |
| Watershed Vegetation Management Plan | C107015 | 0 | 103 | 130 | 127 | 130 | 0 | 0 | 0 | 490 |
| Watershed Stewardship Total | | 32,203 | 8,809 | 5,490 | 3,203 | 2,215 | 2,091 | 1,738 | 1,652 | 57,401 |
| Department Total | | 299,407 | 109,626 | 79,490 | 110,874 | 105,694 | 61,984 | 45,266 | 47,215 | 859,556 |

*Amounts in thousands of dollars

2008-2013 Adopted Capital Improvement Program

Fund Summary

| Fund Name | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|-------------------------|----------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|
| Water Fund | 299,407 | 109,626 | 79,490 | 110,874 | 105,694 | 61,984 | 45,266 | 47,215 | 859,556 |
| Department Total | 299,407 | 109,626 | 79,490 | 110,874 | 105,694 | 61,984 | 45,266 | 47,215 | 859,556 |

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 program provides the budget for the Water Fund portion of the 1% for Arts contribution to the Municipal Arts Fund (MAF) for use in public art projects. The 1% funds deposited in the MAF shall be spent by the Office of Arts and Cultural Affairs (OACA) on art projects that are in the City's Municipal Arts Plan (MAP), which is prepared annually by OACA and approved by the Mayor. Seattle Public Utilities (SPU) contributes 1% of all eligible CIP project budget annually.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 741 | 592 | 218 | 388 | 415 | 182 | 51 | 118 | 2,705 |
| Project Total: | 741 | 592 | 218 | 388 | 415 | 182 | 51 | 118 | 2,705 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 741 | 592 | 218 | 388 | 415 | 182 | 51 | 118 | 2,705 |
| Appropriations Total* | 741 | 592 | 218 | 388 | 415 | 182 | 51 | 118 | 2,705 |
| O & M Costs (Savings) | | | 12 | 12 | 12 | 12 | 12 | 12 | 71 |

2006 Storms Capital Program - 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:** 4th Quarter 2008

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 repairs water infrastructure damaged by the 2006 winter storms, which were declared a federal emergency. The majority of this work will take place in the watersheds, as the storms had the most lasting impact in those areas. This work will be reimbursed by the Federal Emergency Management Agency (FEMA).

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 200 |
| Project Total: | 0 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 200 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 200 |
| Appropriations Total* | 0 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 200 |
| 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.

Asset Management

BCL/Program Name: Distribution

BCL/Program Code: C110B

Project Type: Rehabilitation or Restoration

Start Date: 4th Quarter 2002

Project ID: C1126

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 program allows Seattle Public Utilities to manage the City’s water system assets as optimally as possible by using sound asset management principles and practices. Project elements include the following: developing, monitoring, and reporting on measurable customer and environmental service levels; preparing Strategic Asset Management Plans; developing and implementing asset decision models; developing information technology applications; collecting data and assessing the condition of SPU’s assets; and evaluating SPU’s current operating and maintenance practices and processes. Funding is allocated from the Asset Management Program to these various programs once they are clearly defined.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 1,518 | 259 | 51 | 208 | 212 | 216 | 220 | 231 | 2,915 |
| Project Total: | 1,518 | 259 | 51 | 208 | 212 | 216 | 220 | 231 | 2,915 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 1,518 | 259 | 51 | 208 | 212 | 216 | 220 | 231 | 2,915 |
| Appropriations Total* | 1,518 | 259 | 51 | 208 | 212 | 216 | 220 | 231 | 2,915 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 160 | 51 | 208 | 212 | 216 | 220 | 231 | 1,298 |

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

SPU - Water

Aurora Ave. N (110th - 145th)

BCL/Program Name: Distribution

BCL/Program Code: C110B

Project Type: Improved Facility

Start Date: 4th Quarter 2003

Project ID: C103033

End Date: 1st Quarter 2008

Location: N 110th St./Aurora Ave. N

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: North

Urban Village: Not in an Urban Village

The Seattle Department of Transportation is developing a scope of work for rehabilitating or improving Aurora Ave. N. This project conducts preliminary engineering to determine the water system impacts of that transportation project. If the transportation project progresses further, additional funds will be requested at that time. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 3 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 12 |
| Project Total: | 3 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 12 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 3 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 12 |
| Appropriations Total* | 3 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 12 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 0 | 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.*

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 2010

Location: 3015 NW 54th St

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Ballard

Urban Village: Ballard

This project is a sub-element of the Cedar River Habitat Conservation Plan (HCP) and associated Cedar River Instream Flow Agreement. Improvements include the planning, design, and construction of freshwater conservation and smolt passage facilities at the Ballard Locks to improve fish passage and survival. The project is part of a comprehensive instream flow management program for the Cedar River that protects the City's continued ability to divert adequate amounts of high quality water for regional use. This program also protects instream resources and the U.S. Army Corps of Engineers' ability to provide adequate flows for operating the Locks. SPU's Asset Management Committee has approved the HCP at the program level. The confidence level for this cost estimate is high.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 961 | 76 | 79 | 54 | 431 | 0 | 0 | 0 | 1,601 |
| Project Total: | 961 | 76 | 79 | 54 | 431 | 0 | 0 | 0 | 1,601 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 961 | 76 | 79 | 54 | 431 | 0 | 0 | 0 | 1,601 |
| Appropriations Total* | 961 | 76 | 79 | 54 | 431 | 0 | 0 | 0 | 1,601 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 8 | 8 | 8 | 24 |

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

SPU - Water

BPA - Aquatic & Riparian Restoration

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: Improved Facility

Start Date: 2nd Quarter 2004

Project ID: C1303

End Date: 4th Quarter 2008

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 plans and implements aquatic and riparian restoration projects within the Cedar River Municipal Watershed. These projects enhance and accelerate the City's existing efforts to restore riparian, aquatic, and wetland habitat in the watershed, and compensate for the impacts of the Bonneville Power Administration's power line project on that habitat. SPU's Asset Management Committee has approved this program. The confidence level in the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 868 | 305 | 36 | 0 | 0 | 0 | 0 | 0 | 1,209 |
| Project Total: | 868 | 305 | 36 | 0 | 0 | 0 | 0 | 0 | 1,209 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 868 | 305 | 36 | 0 | 0 | 0 | 0 | 0 | 1,209 |
| Appropriations Total* | 868 | 305 | 36 | 0 | 0 | 0 | 0 | 0 | 1,209 |
| O & M Costs (Savings) | | | 0 | 6 | 6 | 6 | 6 | 6 | 30 |
| Spending Plan | | 261 | 36 | 0 | 0 | 0 | 0 | 0 | 297 |

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

BPA - Road Decommissioning/Improvements

BCL/Program Name: Watershed Stewardship **BCL/Program Code:** C130B
Project Type: Improved Facility **Start Date:** 2nd Quarter 2004
Project ID: C1304 **End Date:** 4th 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 program plans and implements road decommissioning and road improvement projects within the Cedar River Municipal Watershed. These projects enhance and accelerate the City's existing programs to improve or abandon watershed roads, and compensate for the effects of the additional road length added to the watershed as a result of the Bonneville Power Administration's power line project. SPU's Asset Management Committee has approved this program. The confidence level in the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 74 | 137 | 157 | 5 | 0 | 0 | 0 | 0 | 373 |
| Project Total: | 74 | 137 | 157 | 5 | 0 | 0 | 0 | 0 | 373 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 74 | 137 | 157 | 5 | 0 | 0 | 0 | 0 | 373 |
| Appropriations Total* | 74 | 137 | 157 | 5 | 0 | 0 | 0 | 0 | 373 |
| O & M Costs (Savings) | | | 0 | 0 | 2 | 2 | 2 | 2 | 7 |
| Spending Plan | | 102 | 157 | 5 | 0 | 0 | 0 | 0 | 264 |

BPA - Security Measures

BCL/Program Name: Watershed Stewardship **BCL/Program Code:** C130B
Project Type: New Facility **Start Date:** 1st Quarter 2004
Project ID: C1305 **End Date:** 4th Quarter 2011

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 plans, purchases, and installs watershed security improvements within the Cedar River Municipal Watershed to protect watershed resources and restrict watershed access. These projects compensate for the impacts of the Bonneville Power Administration's power line project on security within the watershed. SPU's Asset Management Committee has reviewed and approved this set of projects. The confidence level in cost estimates is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 720 | 35 | 72 | 11 | 11 | 11 | 0 | 0 | 860 |
| Project Total: | 720 | 35 | 72 | 11 | 11 | 11 | 0 | 0 | 860 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 720 | 35 | 72 | 11 | 11 | 11 | 0 | 0 | 860 |
| Appropriations Total* | 720 | 35 | 72 | 11 | 11 | 11 | 0 | 0 | 860 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 4 | 4 | 9 |
| Spending Plan | | 46 | 72 | 11 | 11 | 11 | 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.

SPU - Water

BPA - Upland Forest Restoration

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: Improved Facility

Start Date: 2nd Quarter 2004

Project ID: C1306

End Date: 4th Quarter 2011

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 plans and implements forest restoration projects within the Cedar River Municipal Watershed. This program will enhance and accelerate the City's existing Upland Forest Restoration Program and help compensate for the impacts of the Bonneville Power Administration's power line project on older, second-growth forest and other upland habitats in the watershed. SPU's Asset Management Committee has reviewed and approved this program. The confidence level in cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 555 | 395 | 176 | 79 | 27 | 28 | 0 | 0 | 1,260 |
| Project Total: | 555 | 395 | 176 | 79 | 27 | 28 | 0 | 0 | 1,260 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 555 | 395 | 176 | 79 | 27 | 28 | 0 | 0 | 1,260 |
| Appropriations Total* | 555 | 395 | 176 | 79 | 27 | 28 | 0 | 0 | 1,260 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 6 | 6 | 13 |
| Spending Plan | | 482 | 176 | 79 | 27 | 28 | 0 | 0 | 792 |

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

2008-2013 Adopted Capital Improvement Program

SPU - Water

Bridging the Gap Program-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: 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 relocates and improves SPU infrastructure as part of the Seattle Department of Transportation's (SDOT) "Bridging the Gap" program. SPU will deliver a variety of water utility improvements and relocations throughout the City. Typical improvements and relocations may include water and sewer mains, storm detention facilities, natural drainage systems, catch basins, culverts, and inlets. This program protects existing SPU infrastructure, relocates infrastructure as needed, and takes advantage of opportunities to construct priority improvements and enhancements more cost effectively by coordinating projects with SDOT.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|-------|-------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 0 | 1,277 | 1,317 | 372 | 384 | 397 | 410 | 4,157 |
| Project Total: | 0 | 0 | 1,277 | 1,317 | 372 | 384 | 397 | 410 | 4,157 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 0 | 1,277 | 1,317 | 372 | 384 | 397 | 410 | 4,157 |
| Appropriations Total* | 0 | 0 | 1,277 | 1,317 | 372 | 384 | 397 | 410 | 4,157 |
| 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 - Water

Cathodic Protection Program

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2004
Project ID: C1116 **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 program implements SPU's Cathodic Protection Master Plan by installing pipe exterior corrosion protection systems along the major water transmission pipelines. Cathodic protection systems are a relatively low-cost method of extending the life of buried pipelines. They can be used to protect ductile iron, steel, and concrete cylinder pipe. Unprotected, these types of pipelines corrode through an electrochemical process; cathodic protection strives to slow down or even stop this electrochemical process by providing electrical current to the pipe. Each project installs new or replacement rectifiers and anodes along a section of pipeline between one and four miles in length.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 1,476 | 843 | 451 | 552 | 580 | 609 | 639 | 809 | 5,959 |
| Project Total: | 1,476 | 843 | 451 | 552 | 580 | 609 | 639 | 809 | 5,959 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 1,476 | 843 | 451 | 552 | 580 | 609 | 639 | 809 | 5,959 |
| Appropriations Total* | 1,476 | 843 | 451 | 552 | 580 | 609 | 639 | 809 | 5,959 |
| O & M Costs (Savings) | | | 3 | 3 | 3 | 3 | 3 | 3 | 18 |
| Spending Plan | | 452 | 451 | 552 | 580 | 609 | 639 | 809 | 4,092 |

**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
Project Type: Improved Facility
Project ID: C1307

BCL/Program Code: C130B
Start Date: 1st Quarter 2007
End Date: 4th Quarter 2011

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 replaces bridges in the Cedar River Watershed on watershed roads where existing bridges are no longer able to carry required loading, resulting in safety and environmental risks. In 2008, high priority bridge replacements will be planned and executed in compliance with state laws, safety and environmental regulations, and tribal access agreements. The Cedar River Watershed Transportation Strategic Asset Management Plan has identified critical bridge replacements as a priority. SPU's Asset Management Committee has approved the program. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 49 | 1,176 | 209 | 105 | 178 | 192 | 0 | 0 | 1,909 |
| Project Total: | 49 | 1,176 | 209 | 105 | 178 | 192 | 0 | 0 | 1,909 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 49 | 1,176 | 209 | 105 | 178 | 192 | 0 | 0 | 1,909 |
| Appropriations Total* | 49 | 1,176 | 209 | 105 | 178 | 192 | 0 | 0 | 1,909 |
| O & M Costs (Savings) | | | 16 | 16 | 16 | 16 | 16 | 16 | 96 |
| Spending Plan | | 567 | 209 | 105 | 178 | 192 | 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.*

Cedar Falls – Railroad Hazardous Material Remediation

BCL/Program Name: Watershed Stewardship **BCL/Program Code:** C130B
Project Type: New Investment **Start Date:** 1st Quarter 2006
Project ID: C100078 **End Date:** 4th Quarter 2008

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 addresses contamination left by historical railroad operations in the Cedar River Municipal Watershed. It has three components: 1) assess the nature and risks posed by the contamination; 2) determine the scope and cost of an appropriate cleanup; and 3) support negotiations with Burlington Northern Santa Fe (BNSF) that lead to remedial action. The first two of these components have been completed. A small portion of the contaminated material is located on lands where BNSF and its predecessor operated under an easement granted by the City, while the majority of the contaminated material is located on land that BNSF owns. The project funds staff time to negotiate an agreement to share a portion of the cleanup costs, and is consistent with SPU’s long-term effort to consolidate ownership of watershed lands, after proper cleanup by the responsible parties of any contamination. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 171 | 62 | 53 | 0 | 0 | 0 | 0 | 0 | 286 |
| Project Total: | 171 | 62 | 53 | 0 | 0 | 0 | 0 | 0 | 286 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 171 | 62 | 53 | 0 | 0 | 0 | 0 | 0 | 286 |
| Appropriations Total* | 171 | 62 | 53 | 0 | 0 | 0 | 0 | 0 | 286 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 8 | 53 | 0 | 0 | 0 | 0 | 0 | 61 |

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

Cedar River - Boundary Land Acquisition

| | |
|--|-------------------------------------|
| BCL/Program Name: Watershed Stewardship | BCL/Program Code: C130B |
| Project Type: New Investment | Start Date: 1st Quarter 1998 |
| Project ID: C198008 | 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 |

Although the City owns virtually all lands draining to the municipal water supply intake on the Cedar River, some exceptions remain along the boundary. The past decade has seen significant changes in ownership and land use of properties immediately adjoining the City’s property. This project enables SPU to evaluate risks to watershed protection and security posed by these changes, and to respond as opportunities arise by acquiring property. All property acquisitions require specific legislative authority. SPU's Asset Management Committee has approved the project. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 2,357 | 128 | 11 | 322 | 117 | 123 | 129 | 135 | 3,322 |
| Project Total: | 2,357 | 128 | 11 | 322 | 117 | 123 | 129 | 135 | 3,322 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 2,357 | 128 | 11 | 322 | 117 | 123 | 129 | 135 | 3,322 |
| Appropriations Total* | 2,357 | 128 | 11 | 322 | 117 | 123 | 129 | 135 | 3,322 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 398 | 11 | 322 | 117 | 123 | 129 | 135 | 1,235 |

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

Cedar River Non-HCP Road Improvements

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: Improved Facility

Start Date: 1st Quarter 1991

Project ID: C191001

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

The Cedar River Watershed contains more than 615 miles of forest roads. This project funds major improvements (beyond routine maintenance) on roads designated as having long-term purpose for watershed management including forest fire suppression, fish and wildlife management, forest management, security, and public education. Roads not deemed to be of long-term necessity are "deconstructed" by removing potentially unstable sidecast and fill material; constructing frequent waterbars; and re-establishing stream crossings. This work is designed to provide long-term stability, approximate the drainage flows that existed prior to management activities, and to be complementary to road improvement and decommissioning projects included in the Cedar River Habitat Conservation Plan (HCP). SPU's Asset Management Committee has approved the project. The confidence level of the cost estimate is low.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 5,324 | 830 | 702 | 715 | 733 | 860 | 880 | 902 | 10,946 |
| Project Total: | 5,324 | 830 | 702 | 715 | 733 | 860 | 880 | 902 | 10,946 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 5,324 | 830 | 702 | 715 | 733 | 860 | 880 | 902 | 10,946 |
| Appropriations Total* | 5,324 | 830 | 702 | 715 | 733 | 860 | 880 | 902 | 10,946 |
| O & M Costs (Savings) | | | 50 | 50 | 50 | 50 | 50 | 50 | 301 |
| Spending Plan | | 829 | 702 | 715 | 733 | 860 | 880 | 0 | 4,719 |

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

Cedar River Pipeline 2 Replace Portion

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2004
Project ID: C104013 **End Date:** 1st Quarter 2008

Location: Carpel #2 Between Volunteer Park And Maple Leaf Gatehouse

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 investigates the condition and the current maximum working pressure of a 42-inch lockbar steel feeder main that is suspected to be corroded in some locations. The Cedar River Pipeline No. 2 extends from Volunteer Park to the Maple Leaf neighborhood and crosses the Ship Canal in a tunnel. It is currently expected that improvements will be limited to pressure testing the pipeline and installing an impressed current cathodic protection system. SPU's Asset Management Committee reviewed and approved the preliminary engineering phase of the project. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 77 | 316 | 1 | 0 | 0 | 0 | 0 | 0 | 394 |
| Project Total: | 77 | 316 | 1 | 0 | 0 | 0 | 0 | 0 | 394 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 77 | 316 | 1 | 0 | 0 | 0 | 0 | 0 | 394 |
| Appropriations Total* | 77 | 316 | 1 | 0 | 0 | 0 | 0 | 0 | 394 |
| O & M Costs (Savings) | | | 0 | 2 | 2 | 2 | 2 | 2 | 10 |
| Spending Plan | | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 120 |

**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 2008

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 develops a comprehensive information management system for archaeological artifacts from the Cedar River and S. Fork Tolt River Municipal Watersheds. It will create a searchable database while simultaneously accessioning and preserving the collection, which currently is not being archivally preserved. The database will also make the information easily accessible to researchers and the public. SPU manages a collection of thousands of artifacts, documents and photos documenting over 9,400 years of human activity in watersheds. These collections are located in the Gale Archives at the Cedar River Watershed Education Center. Information about these artifacts and documents is neither cohesive, nor accessible to researchers, staff or Native American tribes currently. Capturing the archaeological information about these collections is critical to the proper management and preservation of these irreplaceable items.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 207 | 103 | 0 | 0 | 0 | 0 | 0 | 310 |
| Project Total: | 0 | 207 | 103 | 0 | 0 | 0 | 0 | 0 | 310 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 207 | 103 | 0 | 0 | 0 | 0 | 0 | 310 |
| Appropriations Total* | 0 | 207 | 103 | 0 | 0 | 0 | 0 | 0 | 310 |
| O & M Costs (Savings) | | | 5 | 5 | 5 | 5 | 5 | 5 | 30 |
| Spending Plan | | 91 | 103 | 0 | 0 | 0 | 0 | 0 | 194 |

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

2008-2013 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: 4th Quarter 2008

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 develops and implements a data management system for fish and wildlife assets and resources in the Cedar River Municipal Watershed (CRW), which covers over 90,000 acres. Development and use of the information management system (IMS) will be compatible with and linked to, as appropriate, other SPU information management systems and their architecture. The outcome will be a significant decrease in staff labor over decades, better management of the City land, enhanced regulatory compliance, and knowledge and documentation of Cedar River fish and wildlife assets. The confidence level of the cost estimate is medium. This project title was Cedar River Watershed & Wildlife Information Management System in the 2007-2013 Adopted CIP.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 42 | 141 | 0 | 0 | 0 | 0 | 0 | 183 |
| Project Total: | 0 | 42 | 141 | 0 | 0 | 0 | 0 | 0 | 183 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 42 | 141 | 0 | 0 | 0 | 0 | 0 | 183 |
| Appropriations Total* | 0 | 42 | 141 | 0 | 0 | 0 | 0 | 0 | 183 |
| O & M Costs (Savings) | | | 0 | 5 | 5 | 5 | 5 | 5 | 25 |
| Spending Plan | | 20 | 141 | 0 | 0 | 0 | 0 | 0 | 161 |

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

Cedar River Watershed Inventory Management System

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: New Investment

Start Date: 1st Quarter 2007

Project ID: C107006

End Date: 1st Quarter 2008

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 implements an inventory management system (including bar codes and bar code readers) to help identify inventory requirements, set targets, and report actual and projected inventory status. Proper inventory control will improve efficiency, reduce waste on capital and operations and maintenance expenditures, and optimize inventory levels. The inventory system will link to SPU's Work Management System (Maximo) and provide SPU staff with information useful in determining true project and activity costs. It will also assist in setting and meeting service level targets. The confidence level of the cost estimate is medium. This project title was Cedar River Watershed Management System in the 2007-2013 Adopted CIP.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 199 | 201 | 0 | 0 | 0 | 0 | 0 | 400 |
| Project Total: | 0 | 199 | 201 | 0 | 0 | 0 | 0 | 0 | 400 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 199 | 201 | 0 | 0 | 0 | 0 | 0 | 400 |
| Appropriations Total* | 0 | 199 | 201 | 0 | 0 | 0 | 0 | 0 | 400 |
| O & M Costs (Savings) | | | 0 | 5 | 5 | 5 | 5 | 5 | 25 |
| Spending Plan | | 47 | 201 | 0 | 0 | 0 | 0 | 0 | 248 |

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

Cedar River Watershed Limited Use Area Management Plan

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: New Investment

Start Date: 1st Quarter 2007

Project ID: C107002

End Date: 4th Quarter 2008

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 analyzes Limited Uses Areas (LUAs) within the Cedar River Municipal Watershed. The analysis will include a review of current management plans, operational activities, and public usage patterns, identification of problems and issues, and development of recommendations for changes in Seattle Public Utilities' (SPU) policies and operational activities. SPU owns several hundred acres of land near or adjacent to the Cedar River Municipal Watershed that lies outside of the hydrographic boundary of the drinking water supply. SPU provides and maintains recreational facilities (trails, sanitation, parking, boat ramps, etc.) and maintenance operations on these lands, such as the Rattlesnake Lake Recreation Area, Landsburg Park, and Taylor Mountain Forest. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 104 | 44 | 0 | 0 | 0 | 0 | 0 | 148 |
| Project Total: | 0 | 104 | 44 | 0 | 0 | 0 | 0 | 0 | 148 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 104 | 44 | 0 | 0 | 0 | 0 | 0 | 148 |
| Appropriations Total* | 0 | 104 | 44 | 0 | 0 | 0 | 0 | 0 | 148 |
| O & M Costs (Savings) | | | 0 | 1 | 1 | 1 | 1 | 1 | 4 |
| Spending Plan | | 65 | 44 | 0 | 0 | 0 | 0 | 0 | 109 |

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

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: 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 project, a component of the Cedar River Habitat Conservation Plan (HCP) and Landsburg Mitigation Agreement, mitigates impacts on sockeye salmon caused by the migration barrier formed by the Landsburg Diversion Dam. The hatchery's purpose is to produce fry in lieu of the production that could occur if sockeye were allowed to spawn above Landsburg Dam. The project consists of spring-fed water supply improvements, a broodstock holding facility, an incubation and short-term holding facility capable of producing 34 million fry, housing for two employees, and a broodstock collection facility. SPU's Asset Management Committee approved the HCP at the program level. The confidence level for this cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|-------|-------|------|------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 2,799 | 5,407 | 2,245 | 7,572 | 647 | 0 | 0 | 0 | 18,670 |
| Project Total: | 2,799 | 5,407 | 2,245 | 7,572 | 647 | 0 | 0 | 0 | 18,670 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 2,799 | 5,407 | 2,245 | 7,572 | 647 | 0 | 0 | 0 | 18,670 |
| Appropriations Total* | 2,799 | 5,407 | 2,245 | 7,572 | 647 | 0 | 0 | 0 | 18,670 |
| O & M Costs (Savings) | | | 334 | 458 | 458 | 458 | 458 | 458 | 2,624 |
| Spending Plan | | 2,165 | 2,245 | 7,572 | 647 | 0 | 0 | 0 | 12,629 |

**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 Treatment Facility

BCL/Program Name: Water Quality & Treatment **BCL/Program Code:** C140B
Project Type: New Facility **Start Date:** 1st Quarter 1996
Project ID: C196015 **End Date:** 4th Quarter 2012

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 and implements water treatment improvements to the Cedar River water supply to improve water quality, ensure compliance with drinking water regulations, and mitigate the periodic taste and odor problems that occur on the Cedar source. Under this project, new ozone disinfecting facilities (compatible with filtration) were planned, designed, and constructed near the Lake Youngs Reservoir. SPU utilized a design-build-operate contracting method for this project, similar to that used for the recently-commissioned Tolt Treatment Facility. The project is now complete and fully operating.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|--------|------|------|------|------|------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 93,568 | 454 | 1 | 1 | 1 | 1 | 1 | 0 | 94,027 |
| Project Total: | 93,568 | 454 | 1 | 1 | 1 | 1 | 1 | 0 | 94,027 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 93,568 | 454 | 1 | 1 | 1 | 1 | 1 | 0 | 94,027 |
| Appropriations Total* | 93,568 | 454 | 1 | 1 | 1 | 1 | 1 | 0 | 94,027 |
| O & M Costs (Savings) | | | 7 | 7 | 7 | 7 | 8 | 8 | 44 |
| Spending Plan | | 460 | 0 | 0 | 0 | 0 | 0 | 0 | 460 |

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 program allows SPU to meet current Occupational Safety and Health Administration (OSHA) and Washington State Health Administration (WSHA) standards for confined space entry by replacing undersized underground chamber access openings (rings and covers) throughout the City's water system. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 524 | 121 | 154 | 105 | 108 | 110 | 113 | 116 | 1,351 |
| Project Total: | 524 | 121 | 154 | 105 | 108 | 110 | 113 | 116 | 1,351 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 524 | 121 | 154 | 105 | 108 | 110 | 113 | 116 | 1,351 |
| Appropriations Total* | 524 | 121 | 154 | 105 | 108 | 110 | 113 | 116 | 1,351 |
| O & M Costs (Savings) | | | 7 | 7 | 7 | 7 | 7 | 7 | 41 |
| Spending Plan | | 100 | 154 | 105 | 108 | 110 | 113 | 116 | 806 |

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

SPU - Water

Climate Protection - WF

BCL/Program Name: Shared Cost Projects

BCL/Program Code: C410B

Project Type: New Investment

Start Date: 1st Quarter 2007

Project ID: C407S01-WF

End Date: 4th Quarter 2013

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 researches the impact of climate change on the water system, and identifies adaptations or additional system resiliency that may be required. The effort is part of the Mayor's Environmental Action Agenda, which includes a City commitment to meet or beat Kyoto greenhouse gas emission targets. The Office of Sustainability & Environment (OSE) leads the Citywide effort.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 154 | 186 | 172 | 177 | 181 | 185 | 189 | 1,244 |
| Project Total: | 0 | 154 | 186 | 172 | 177 | 181 | 185 | 189 | 1,244 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 154 | 186 | 172 | 177 | 181 | 185 | 189 | 1,244 |
| Appropriations Total* | 0 | 154 | 186 | 172 | 177 | 181 | 185 | 189 | 1,244 |
| 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.*

2008-2013 Adopted Capital Improvement Program

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 funds projects that ensure the continuing safe functioning, operation and monitoring of SPU's water supply dams and associated facilities per regulatory, utility and public requirements. These dams are located outside Seattle with the exception of the in-town reservoir dams. Some system improvements occur on an as-needed basis, usually by regulatory mandate, and therefore specific upgrades cannot be identified fully at this time. Typical improvements include upgrades to the dams' failure warning systems, spillways, outlet works, piping and other civil, mechanical and structural systems whose proper functioning is required for the safe operation of the dams.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 3,302 | 0 | 3,322 | 206 | 804 | 2,427 | 368 | 578 | 11,007 |
| Project Total: | 3,302 | 0 | 3,322 | 206 | 804 | 2,427 | 368 | 578 | 11,007 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 3,302 | 0 | 3,322 | 206 | 804 | 2,427 | 368 | 578 | 11,007 |
| Appropriations Total* | 3,302 | 0 | 3,322 | 206 | 804 | 2,427 | 368 | 578 | 11,007 |
| O & M Costs (Savings) | | | 500 | 500 | 500 | 500 | 500 | 500 | 3,000 |

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

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 project replaces aging in-line gate valves throughout the water distribution system, many of which are more than 50 years old, and for which spare parts are difficult to obtain. The confidence level of the cost estimate is medium as it is dependent on the condition of the gate valves and the availability of parts. The project has been approved by SPU's Asset Management Committee.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 571 | 60 | 61 | 121 | 124 | 127 | 130 | 133 | 1,327 |
| Project Total: | 571 | 60 | 61 | 121 | 124 | 127 | 130 | 133 | 1,327 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 571 | 60 | 61 | 121 | 124 | 127 | 130 | 133 | 1,327 |
| Appropriations Total* | 571 | 60 | 61 | 121 | 124 | 127 | 130 | 133 | 1,327 |
| O & M Costs (Savings) | | | 7 | 7 | 7 | 7 | 7 | 7 | 40 |
| Spending Plan | | 115 | 61 | 121 | 124 | 127 | 130 | 133 | 811 |

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

Downstream Fish Habitat

BCL/Program Name: Habitat Conservation Program
Project Type: Rehabilitation or Restoration
Project ID: C1607

BCL/Program Code: C160B
Start Date: 1st Quarter 2001
End Date: 4th Quarter 2011

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

The project implements downstream habitat protection and restoration measures in the lower 22 miles of the main stem Cedar River for the benefit of anadromous salmonid species, especially Chinook salmon, and to enhance natural ecological processes that shape and maintain riparian and aquatic habitat. Activities include habitat land acquisition in collaboration with Cascade Land Conservancy, restoration work at Walsh Lake, and restoration work in the lower Cedar River. This project is part of the Cedar River Habitat Conservation Plan (HCP), which was approved by SPU's Asset Management Committee at the program level. The confidence level of the current cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|-------|-------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 465 | 2,517 | 2,729 | 2,451 | 43 | 17 | 0 | 0 | 8,222 |
| Project Total: | 465 | 2,517 | 2,729 | 2,451 | 43 | 17 | 0 | 0 | 8,222 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 465 | 2,517 | 2,729 | 2,451 | 43 | 17 | 0 | 0 | 8,222 |
| Appropriations Total* | 465 | 2,517 | 2,729 | 2,451 | 43 | 17 | 0 | 0 | 8,222 |
| O & M Costs (Savings) | | | 50 | 50 | 50 | 50 | 50 | 50 | 300 |
| Spending Plan | | 2,515 | 2,729 | 2,451 | 43 | 17 | 0 | 0 | 7,755 |

**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 Chinook Research & Monitoring

BCL/Program Name: Watershed Stewardship **BCL/Program Code:** C130B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2001
Project ID: C101048 **End Date:** 4th Quarter 2008

Location: Lake Washington/Ship Canal/Lake Union
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 researches and monitors Seattle’s salmon population, with emphasis on their habitat use in Lake Washington, the Ship Canal/Lake Union, and Ballard Locks. This program is part of the City's response to the listing of Chinook salmon as a threatened species under the federal Endangered Species Act (ESA). The results of these research and monitoring activities may minimize adverse impacts to endangered species from capital facilities and facility operations, as well as design salmon habitat restoration projects within the City of Seattle. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 1,112 | 259 | 323 | 0 | 0 | 0 | 0 | 0 | 1,694 |
| Project Total: | 1,112 | 259 | 323 | 0 | 0 | 0 | 0 | 0 | 1,694 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 1,112 | 259 | 323 | 0 | 0 | 0 | 0 | 0 | 1,694 |
| Appropriations Total* | 1,112 | 259 | 323 | 0 | 0 | 0 | 0 | 0 | 1,694 |
| O & M Costs (Savings) | | | 0 | 8 | 8 | 8 | 8 | 8 | 42 |
| Spending Plan | | 337 | 323 | 0 | 0 | 0 | 0 | 0 | 660 |

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: Snohomish River Basin
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 develops critical habitat for salmon in the Tolt River Watershed. The program is coordinated with similar efforts undertaken by Seattle City Light, and projects may occur in cooperation with King County, affected tribes, or other local, state, and federal agencies. The confidence level of the cost estimate is low.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 277 | 45 | 49 | 53 | 65 | 55 | 0 | 0 | 544 |
| Project Total: | 277 | 45 | 49 | 53 | 65 | 55 | 0 | 0 | 544 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 277 | 45 | 49 | 53 | 65 | 55 | 0 | 0 | 544 |
| Appropriations Total* | 277 | 45 | 49 | 53 | 65 | 55 | 0 | 0 | 544 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 3 | 3 | 5 |
| Spending Plan | | 11 | 49 | 53 | 65 | 55 | 0 | 0 | 233 |

**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 Tolt Levee Modifications

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: Improved Facility

Start Date: 1st Quarter 2005

Project ID: C105095

End Date: 4th Quarter 2011

Location: City Of Carnation

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 removes approximately 1,000 feet of riverbank levee along the lower right bank of the Tolt River adjacent to the Tolt MacDonald Park. It is a collaborative project between Seattle Public Utilities, Seattle City Light, and the King County Department of Natural Resources and Parks. The project constructs a new setback levee at the edge of the floodplain to provide reconnection to off-channel salmon habitat and to allow for the creation of new spawning and rearing habitat for Chinook salmon. The SPU Asset Management Committee has approved this project. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 540 | 655 | 945 | 599 | 27 | 28 | 0 | 0 | 2,794 |
| Project Total: | 540 | 655 | 945 | 599 | 27 | 28 | 0 | 0 | 2,794 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 540 | 655 | 945 | 599 | 27 | 28 | 0 | 0 | 2,794 |
| Appropriations Total* | 540 | 655 | 945 | 599 | 27 | 28 | 0 | 0 | 2,794 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 17 | 17 | 34 |
| Spending Plan | | 250 | 945 | 599 | 27 | 28 | 0 | 0 | 1,849 |

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

Environmental Steward Project Development

BCL/Program Name: Watershed Stewardship **BCL/Program Code:** C130B
Project Type: Improved Facility **Start Date:** 1st Quarter 2005
Project ID: C105084 **End Date:** Ongoing

Location: Cedar & Tolt 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 plans environmental stewardship activities prior to the formation of specific capital projects. This work includes development of Strategic Asset Management Plans and Project Development Plans for the Watershed and Environmental Program Area, policy analysis and program development to deal with issues related to the management of the Tolt and Cedar River Municipal Watersheds, and other work that assists in the identification of potential capital projects and development of concept-level scopes and estimates for new capital projects.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 112 | 97 | 86 | 105 | 108 | 110 | 113 | 116 | 847 |
| Project Total: | 112 | 97 | 86 | 105 | 108 | 110 | 113 | 116 | 847 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 112 | 97 | 86 | 105 | 108 | 110 | 113 | 116 | 847 |
| Appropriations Total* | 112 | 97 | 86 | 105 | 108 | 110 | 113 | 116 | 847 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 75 | 86 | 105 | 108 | 110 | 113 | 116 | 713 |

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 project improves the water distribution system by adding new water lines; replacing, relining, or slip-lining existing lines; adjusting pressure zone boundaries; and installing pressure reducing and pressure boosting installations to meet evolving customer service levels for continuity of service, pressure, water quality, and fire protection. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|-------|-------|-------|-------|-------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 71 | 561 | 327 | 1,052 | 1,078 | 1,103 | 1,129 | 1,156 | 6,477 |
| Project Total: | 71 | 561 | 327 | 1,052 | 1,078 | 1,103 | 1,129 | 1,156 | 6,477 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 71 | 561 | 327 | 1,052 | 1,078 | 1,103 | 1,129 | 1,156 | 6,477 |
| Appropriations Total* | 71 | 561 | 327 | 1,052 | 1,078 | 1,103 | 1,129 | 1,156 | 6,477 |
| O & M Costs (Savings) | | | 5 | 5 | 5 | 5 | 5 | 5 | 30 |
| Spending Plan | | 260 | 327 | 1,052 | 1,078 | 1,103 | 1,129 | 1,156 | 6,105 |

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

SPU - Water

Heavy Equipment Purchases - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: New Investment **Start Date:** 1st Quarter 1999
Project ID: C4116-WF **End Date:** Ongoing

Location: N/A

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 replaces existing heavy equipment (such as loaders and bulldozers) used at Water Utility facilities and purchases new equipment. The project also retrofits existing equipment to meet SPU operational needs and initiatives.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|-------|-------|-------|-------|-------|-------|--------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 251 | 4,643 | 2,873 | 1,511 | 4,683 | 4,933 | 1,019 | 2,435 | 22,348 |
| Project Total: | 251 | 4,643 | 2,873 | 1,511 | 4,683 | 4,933 | 1,019 | 2,435 | 22,348 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 251 | 4,643 | 2,873 | 1,511 | 4,683 | 4,933 | 1,019 | 2,435 | 22,348 |
| Appropriations Total* | 251 | 4,643 | 2,873 | 1,511 | 4,683 | 4,933 | 1,019 | 2,435 | 22,348 |
| O & M Costs (Savings) | | | 112 | 112 | 112 | 112 | 112 | 112 | 670 |
| Spending Plan | | 1,940 | 2,873 | 1,511 | 4,683 | 4,933 | 1,019 | 2,435 | 19,394 |

Hidden Lake CSO Betterments

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 3rd Quarter 2004
Project ID: C104066 **End Date:** 1st Quarter 2008

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 improves fire flows and hydrants in conjunction with a King County combined sewer rehabilitation project, which is impacting SPU Water services in Shoreline. The County project creates an opportunity for SPU to perform its work while the width of the street is exposed, reducing future disruption by additional street openings. The four-inch water line under Springdale Ct. NW does not provide minimum fireflow requirements to the area and replacing approximately 1,100 linear feet of pipe will bring to the area at least 20 percent more than the minimum requirement. In addition, all hydrants in the area will be replaced with six-inch standard hydrants. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 71 | 446 | 1 | 0 | 0 | 0 | 0 | 0 | 518 |
| Project Total: | 71 | 446 | 1 | 0 | 0 | 0 | 0 | 0 | 518 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 71 | 446 | 1 | 0 | 0 | 0 | 0 | 0 | 518 |
| Appropriations Total* | 71 | 446 | 1 | 0 | 0 | 0 | 0 | 0 | 518 |
| O & M Costs (Savings) | | | 0 | 3 | 3 | 3 | 3 | 3 | 13 |
| Spending Plan | | 529 | 0 | 0 | 0 | 0 | 0 | 0 | 529 |

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

SPU - Water

Hidden Lake CSO Impact Work

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 3rd Quarter 2004
Project ID: C104067 **End Date:** 4th Quarter 2008

Location: City of Shoreline

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Northeast

Urban Village: Not in an Urban Village

This project is an inter-agency project with King County to address impacts to the City's water system in Shoreline by a King County sewer rehabilitation and improvement project. The County project includes the installation of a large underground storage pipe in the Boeing Creek Park, replacing the Hidden Lake pump station and approximately 11,000 feet of sewer pipe between the Hidden Lake pump station and the Richmond Beach pump station. The SPU work involves cutting, capping, and reconnecting pipes to allow implementation of the County project through SPU's water service area. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 145 | 293 | 46 | 0 | 0 | 0 | 0 | 0 | 484 |
| Project Total: | 145 | 293 | 46 | 0 | 0 | 0 | 0 | 0 | 484 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 145 | 293 | 46 | 0 | 0 | 0 | 0 | 0 | 484 |
| Appropriations Total* | 145 | 293 | 46 | 0 | 0 | 0 | 0 | 0 | 484 |
| O & M Costs (Savings) | | | 0 | 2 | 2 | 2 | 2 | 2 | 12 |
| Spending Plan | | 605 | 46 | 0 | 0 | 0 | 0 | 0 | 651 |

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

SPU - Water

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:** 4th Quarter 2008

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 is in response to the Washington State Department of Transportation's (WSDOT) planned widening of I-405 in the vicinity of South Center mall, and SR-167 near S 212 Street. At both locations SPU owns the pipeline right-of-way. At South Center, it is expected that SPU will sell airspace rights to WSDOT. Construction is expected to be performed by, and at the expense of, WSDOT replacing 900 feet of Cedar River Pipeline (CRPL) 4. The confidence level of the current cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 35 | 39 | 142 | 0 | 0 | 0 | 0 | 0 | 216 |
| Project Total: | 35 | 39 | 142 | 0 | 0 | 0 | 0 | 0 | 216 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 35 | 39 | 142 | 0 | 0 | 0 | 0 | 0 | 216 |
| Appropriations Total* | 35 | 39 | 142 | 0 | 0 | 0 | 0 | 0 | 216 |
| O & M Costs (Savings) | | | 0 | 1 | 1 | 1 | 1 | 1 | 5 |
| Spending Plan | | 80 | 142 | 0 | 0 | 0 | 0 | 0 | 222 |

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

SPU - Water

I-5 Pavement Reconstruction - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2007
Project ID: C407022-WF **End Date:** 4th Quarter 2020

Location: I-5

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 program relocates or replaces water-related facilities affected by the Washington State Department of Transportation's (WSDOT) I-5 Pavement Reconstruction Project. WSDOT plans to reconstruct 16 miles of I-5 pavement from Tukwila/Seattle city limits north to NE 145th. Interstate 5, the only north-south interstate freeway in Washington state, carries 280,000 vehicles through Seattle per day and as a result, the pavement is wearing out. I-5 was built in the 1960s, and its use has exceeded its lifespan. The concrete is now 40 years old and needs to be replaced. Repairing I-5 offers a unique opportunity to improve traffic flow and meet current drainage code requirements. The projects will be coordinated with other transportation projects in the area including the Alaskan Way Viaduct project, the SR 520 Bridge Replacement project, Light Rail, and I-405 and SR 509 improvements. The confidence level of the cost estimate is low due to the early planning state for this project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 132 | 139 | 150 | 163 | 167 | 180 | 168 | 1,099 |
| Project Total: | 0 | 132 | 139 | 150 | 163 | 167 | 180 | 168 | 1,099 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 132 | 139 | 150 | 163 | 167 | 180 | 168 | 1,099 |
| Appropriations Total* | 0 | 132 | 139 | 150 | 163 | 167 | 180 | 168 | 1,099 |
| 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.

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: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Ballard

Urban Village: In more than one Urban Village

This program is part of the Cedar River Habitat Conservation Plan (HCP), which has received approval by SPU's Asset Management Committee. This program studies the relationships between stream flow and habitat conditions, with an emphasis on Chinook; supports effective allocation of water above guaranteed levels; and addresses technical issues that emerged in the later stages of developing the HCP. The project includes studies to evaluate the feasibility of using dead storage in Chester Morse Lake to augment future water supply and flows, taking into account engineering, environmental, and economic issues. SPU's Asset Management Committee has approved the project. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 554 | 571 | 718 | 500 | 337 | 0 | 0 | 0 | 2,680 |
| Project Total: | 554 | 571 | 718 | 500 | 337 | 0 | 0 | 0 | 2,680 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 554 | 571 | 718 | 500 | 337 | 0 | 0 | 0 | 2,680 |
| Appropriations Total* | 554 | 571 | 718 | 500 | 337 | 0 | 0 | 0 | 2,680 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 13 | 13 | 13 | 40 |
| Spending Plan | | 402 | 718 | 500 | 337 | 0 | 0 | 0 | 1,957 |

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

SPU - Water

Integrated Control Monitoring Program - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: New Investment **Start Date:** 1st Quarter 2002
Project ID: C4108-WF **End Date:** 4th Quarter 2013

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 program expands upon the Supervisory Control and Data Acquisition (SCADA) system installed as part of CIP project C195008. This program is broken down into three concurrent projects. Project one will enable System Operators to gather more system information and control water infrastructure. The equipment includes 120 new SCADA devices, such as flow or pressure from remote sensors and from supply dams, to remotely control-led pumps and valves. Project two is Operations Optimization, a set of organizational process and technology applications to improve water system operations and SCADA data usefulness. Applications include a web-based Water System Operating Plan, a Water Quality Analyzer, and a Data Quality Monitor. Project three integrates SCADA with SPU asset and maintenance information management systems. SCADA measurement data will be used to assist in capacity planning, validating repairs, identifying blockages, assessing DPD permit requests, correlating/calibrating models, and prioritizing planning.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|-------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 12 | 3,899 | 2,072 | 919 | 650 | 55 | 28 | 87 | 7,722 |
| Project Total: | 12 | 3,899 | 2,072 | 919 | 650 | 55 | 28 | 87 | 7,722 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 12 | 3,899 | 2,072 | 919 | 650 | 55 | 28 | 87 | 7,722 |
| Appropriations Total* | 12 | 3,899 | 2,072 | 919 | 650 | 55 | 28 | 87 | 7,722 |
| O & M Costs (Savings) | | | 31 | 123 | 372 | 372 | 372 | 372 | 1,642 |
| Spending Plan | | 3,811 | 2,072 | 919 | 650 | 55 | 28 | 87 | 7,622 |

**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

BCL/Program Code: C130B

Project Type: New Investment

Start Date: 1st Quarter 2007

Project ID: C107017

End Date: 4th 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 analyzes the water supply risks presented by public access on the Kerriston Road. It includes feasibility studies and cost estimates for all of the risk management options that are developed, as well as funds for acquisition of property, based on the assumption that acquisition will be the preferred option. Kerriston Road is a King County right-of-way that bisects the lower Cedar River watershed within the municipal watershed boundary. The presence of this road poses a number of security and operational challenges in watershed management. The Washington Department of Health, which administers the Safe Drinking Water Act, has pointed out these risks to Seattle Public Utilities and requested an approach to address them. King County has shown an interest in cooperating in the acquisition of privately-owned land at the end of Kerriston Road, thereby allowing the County to close the road. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 75 | 104 | 221 | 232 | 243 | 255 | 268 | 1,398 |
| Project Total: | 0 | 75 | 104 | 221 | 232 | 243 | 255 | 268 | 1,398 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 75 | 104 | 221 | 232 | 243 | 255 | 268 | 1,398 |
| Appropriations Total* | 0 | 75 | 104 | 221 | 232 | 243 | 255 | 268 | 1,398 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 4 | 104 | 221 | 232 | 243 | 255 | 268 | 1,327 |

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

Lake Youngs Management Plan

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: New Investment

Start Date: 1st Quarter 2007

Project ID: C107003

End Date: 4th Quarter 2011

Location: Lake Youngs Reserve

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 aims to survey and control invasive plant species and restore habitat of the infested areas in the Lake Youngs Reserve. Surveys will be completed for all common noxious weed species, including English Holly, English Ivy, Scotch Broom, and Eurasian Blackberries. The primary invasive species that impacts forest habitat is English Holly. This project will investigate several control methods for the holly and will restore the forest habitat by planting a variety of native understory species once the holly is removed. The primary invasive species that threatens the wetland habitat is Eurasian Blackberry. This project will remove the invasive blackberry from the wetlands and plant where needed with native wetland plants. Short and long-term goals for other habitat restoration will also be developed during this project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 156 | 54 | 42 | 70 | 62 | 0 | 0 | 384 |
| Project Total: | 0 | 156 | 54 | 42 | 70 | 62 | 0 | 0 | 384 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 156 | 54 | 42 | 70 | 62 | 0 | 0 | 384 |
| Appropriations Total* | 0 | 156 | 54 | 42 | 70 | 62 | 0 | 0 | 384 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 10 | 10 | 20 |
| Spending Plan | | 10 | 54 | 42 | 70 | 62 | 0 | 0 | 238 |

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

SPU - Water

Marine View/Des Moines Creek

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Rehabilitation or Restoration **Start Date:** 3rd Quarter 1997
Project ID: C197021 **End Date:** 4th Quarter 2008

Location: Marine View Dr.

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 responds to a project by the City of Des Moines that replaces an existing embankment and box culvert over the Des Moines Creek with a bridge. As a result of the City of Des Moines' project, SPU's Des Moines Way pipeline over the embankment is decommissioned. The work is essentially complete, and the section of the pipeline south of the new bridge is no longer in service. Remaining closeout activities include finding a new owner for the decommissioned pipe, or filling it with sand or weak concrete. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 248 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 258 |
| Project Total: | 248 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 258 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 248 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 258 |
| Appropriations Total* | 248 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 258 |
| O & M Costs (Savings) | | | 0 | 1 | 1 | 1 | 1 | 1 | 6 |
| Spending Plan | | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 7 |

Meter Replacement - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2004
Project ID: C4101-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:** In more than one Urban Village

This program replaces customer meters that are not performing within the American Water Works Association's standards of accuracy due to obsolescence, incorrect application, or inability to repair. It is currently more cost effective to replace two-inch and smaller meters than it is to repair them. Three-inch and larger meters are repaired, if possible. SPU's Asset Management Committee has approved the program. The confidence level of the cost estimate is high.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 2,208 | 574 | 625 | 547 | 560 | 573 | 587 | 602 | 6,276 |
| Project Total: | 2,208 | 574 | 625 | 547 | 560 | 573 | 587 | 602 | 6,276 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 2,208 | 574 | 625 | 547 | 560 | 573 | 587 | 602 | 6,276 |
| Appropriations Total* | 2,208 | 574 | 625 | 547 | 560 | 573 | 587 | 602 | 6,276 |
| 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.*

SPU - Water

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 implements a cost-effective system for reliably delivering water from Cedar Dead Storage during drought conditions for water supply and instream flows. This project may either make modifications to the existing Morse Lake Pumping Plants or construct a more reliable and cost-effective alternative system. SPU Asset Management Committee has approved the project. The confidence level of the cost estimate is low.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|-------|--------|--------|-------|-------|------|--------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 805 | 1,847 | 1,588 | 10,517 | 12,392 | 2,328 | 4,515 | 578 | 34,570 |
| Project Total: | 805 | 1,847 | 1,588 | 10,517 | 12,392 | 2,328 | 4,515 | 578 | 34,570 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 805 | 1,847 | 1,588 | 10,517 | 12,392 | 2,328 | 4,515 | 578 | 34,570 |
| Appropriations Total* | 805 | 1,847 | 1,588 | 10,517 | 12,392 | 2,328 | 4,515 | 578 | 34,570 |
| O & M Costs (Savings) | | | 95 | 32 | 49 | 32 | 32 | 32 | 272 |
| Spending Plan | | 738 | 1,588 | 10,517 | 12,392 | 2,328 | 4,515 | 578 | 32,656 |

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

2008-2013 Adopted Capital Improvement Program

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 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

The Muckleshoot Settlement Agreement, per Ordinance 122131, settles Muckleshoot Indian Tribe (MIT) claims over Seattle’s withdrawal of water from the Cedar River and a longstanding tribal claim over declining fish runs in the Cedar River/Lake Washington Basin. The agreement provides certainty for the region’s water quality and quantity and a cooperative relationship between the City and the tribe. This program implements the agreement’s provisions, including trail improvements, development of the Cooperative Plan, upgrading the computerized access notification system, safety plan development, and improvements (including safety equipment and technology, communication equipment improvements, gates), surplus land transfers, and acquisition of the Yakima Pass parcel (required prior to conveyance to MIT). This program also includes the remaining payout of the settlement agreement; as well as projects C106015 and C107016 previously listed as separate projects in the 2007-2012 CIP.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 17,302 | 1,324 | 885 | 105 | 0 | 0 | 0 | 0 | 19,616 |
| Project Total: | 17,302 | 1,324 | 885 | 105 | 0 | 0 | 0 | 0 | 19,616 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 17,302 | 1,324 | 885 | 105 | 0 | 0 | 0 | 0 | 19,616 |
| Appropriations Total* | 17,302 | 1,324 | 885 | 105 | 0 | 0 | 0 | 0 | 19,616 |
| O & M Costs (Savings) | | | 105 | 105 | 105 | 105 | 105 | 105 | 630 |
| Spending Plan | | 1,650 | 885 | 105 | 0 | 0 | 0 | 0 | 2,640 |

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

SPU - Water

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 program enables Seattle Public Utilities (SPU) to respond to large projects that are conducted by other agencies that impact Seattle's water system. Impacts include utility conflicts that require relocations and construction impacts, and the project includes coordination to minimize impacts to SPU's customers and supply. Often these agencies reimburse SPU for some or all of the costs incurred. The Project ID for this program was C1205 in the 2007-2012 Adopted CIP.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|-------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 327 | 612 | 573 | 625 | 870 | 913 | 958 | 1,156 | 6,034 |
| Project Total: | 327 | 612 | 573 | 625 | 870 | 913 | 958 | 1,156 | 6,034 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 327 | 612 | 573 | 625 | 870 | 913 | 958 | 1,156 | 6,034 |
| Appropriations Total* | 327 | 612 | 573 | 625 | 870 | 913 | 958 | 1,156 | 6,034 |
| O & M Costs (Savings) | | | 30 | 30 | 30 | 30 | 30 | 30 | 181 |
| Spending Plan | | 710 | 573 | 625 | 870 | 913 | 958 | 1,156 | 5,805 |

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: 2700 Airport Wy S

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 improves operational facilities within the city limits that support SPU management, operations and maintenance business functions, workforce, material, and equipment. Sub-projects within this program will go to SPU's Asset Management Committee for approval.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 2,909 | 2,650 | 1,102 | 1,834 | 1,877 | 1,495 | 1,530 | 1,569 | 14,966 |
| Project Total: | 2,909 | 2,650 | 1,102 | 1,834 | 1,877 | 1,495 | 1,530 | 1,569 | 14,966 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 2,909 | 2,650 | 1,102 | 1,834 | 1,877 | 1,495 | 1,530 | 1,569 | 14,966 |
| Appropriations Total* | 2,909 | 2,650 | 1,102 | 1,834 | 1,877 | 1,495 | 1,530 | 1,569 | 14,966 |
| O & M Costs (Savings) | | | 75 | 75 | 75 | 75 | 75 | 75 | 449 |
| Spending Plan | | 1,260 | 1,102 | 1,834 | 1,877 | 1,495 | 1,530 | 1,569 | 10,667 |

**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: 2700 Airport Wy S

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 conducts studies, assessments, planning, design, and purchases for operational facility assets within the city limits. In 2011-2012, SPU plans to focus improvements on water-funded projects, but that could change over time as projects are determined. Sub-projects within this program will go to SPU's Asset Management Committee for approval.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 156 | 676 | 182 | 567 | 818 | 110 | 113 | 116 | 2,738 |
| Project Total: | 156 | 676 | 182 | 567 | 818 | 110 | 113 | 116 | 2,738 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 156 | 676 | 182 | 567 | 818 | 110 | 113 | 116 | 2,738 |
| Appropriations Total* | 156 | 676 | 182 | 567 | 818 | 110 | 113 | 116 | 2,738 |
| O & M Costs (Savings) | | | 14 | 14 | 14 | 14 | 14 | 14 | 82 |
| Spending Plan | | 1,110 | 182 | 567 | 818 | 110 | 113 | 116 | 3,016 |

Operations Control Center - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2003
Project ID: C4105-WF **End Date:** 4th Quarter 2010

Location: 2700 Airport Wy S

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

This program rehabilitates, replaces, and constructs new improvements at the Operations Control Center complex to support the business needs of SPU's operational work force. Projects within this program include proposed Main Warehouse roof replacement, Main Warehouse lighting improvements, Operations Control Center public space improvements and Main Warehouse office space improvements. These proposed projects are necessary to address deferred maintenance of the Main Warehouse and other structures at the Operations Control Center complex. Sub-projects within this program will go to the SPU Asset Management Committee for approval.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 3,022 | 1,383 | 183 | 820 | 102 | 0 | 0 | 0 | 5,510 |
| Project Total: | 3,022 | 1,383 | 183 | 820 | 102 | 0 | 0 | 0 | 5,510 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 3,022 | 1,383 | 183 | 820 | 102 | 0 | 0 | 0 | 5,510 |
| Appropriations Total* | 3,022 | 1,383 | 183 | 820 | 102 | 0 | 0 | 0 | 5,510 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 28 | 28 | 28 | 83 |
| Spending Plan | | 1,312 | 183 | 820 | 102 | 0 | 0 | 0 | 2,417 |

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

2008-2013 Adopted Capital Improvement Program

SPU - Water

Painting Program - Myrtle Tank

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 2nd Quarter 2004
Project ID: C104031 **End Date:** 2nd Quarter 2010

Location: 3600 SW Myrtle St

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Southwest

Urban Village: Morgan Junction

This project cleans and overcoats the tank exterior of the Myrtle tanks. The Tank Painting program involves interior and exterior surface preparation and painting, minor structural repairs, and safety modifications on a regular maintenance cycle at the city's various tank sites. The interior lining on one of the tanks is also removed and replaced. Minor safety and operational modifications are made. The confidence level of the cost estimate is high, but the project is currently on hold due to staff reallocation to higher-priority projects. SPU's Asset Management Committee has approved the project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|-------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 87 | 56 | 5 | 1,399 | 388 | 0 | 0 | 0 | 1,935 |
| Project Total: | 87 | 56 | 5 | 1,399 | 388 | 0 | 0 | 0 | 1,935 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 87 | 56 | 5 | 1,399 | 388 | 0 | 0 | 0 | 1,935 |
| Appropriations Total* | 87 | 56 | 5 | 1,399 | 388 | 0 | 0 | 0 | 1,935 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 10 | 10 | 10 | 29 |
| Spending Plan | | 8 | 5 | 1,399 | 388 | 0 | 0 | 0 | 1,800 |

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

Painting Program - Richmond Highland

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 2nd Quarter 2004
Project ID: C104032 **End Date:** 2nd Quarter 2010

Location: 19355 Fremont Ave N

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 cleans and overcoats the tank exterior of the Richmond Highland tanks. The interior lining is completely removed and replaced. Minor safety and operational modifications are made. The Tank Painting program involves interior and exterior surface preparation and painting, minor structural repairs, and safety modifications on a regular maintenance cycle at the City's various tank sites. The confidence level of the cost estimate is high, but the project is currently on hold due to staff reallocation to higher priority projects. SPU's Asset Management Committee has approved the project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|-------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 98 | 5 | 5 | 1,956 | 593 | 0 | 0 | 0 | 2,657 |
| Project Total: | 98 | 5 | 5 | 1,956 | 593 | 0 | 0 | 0 | 2,657 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 98 | 5 | 5 | 1,956 | 593 | 0 | 0 | 0 | 2,657 |
| Appropriations Total* | 98 | 5 | 5 | 1,956 | 593 | 0 | 0 | 0 | 2,657 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 13 | 13 | 13 | 40 |
| Spending Plan | | 8 | 5 | 1,956 | 593 | 0 | 0 | 0 | 2,562 |

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

SPU - Water

Painting Program - Steel Structures

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2000
Project ID: C1NW130 **End Date:** 4th Quarter 2013

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

The Steel Structures Painting program involves rehabilitation of the coating, lining, and paint systems on exposed steel pipelines, elevated tanks, standpipes, and other steel structures in the water system. The work involves minor structural repairs and safety modifications, surface preparation, and the application of a new coating system. This program is in a preliminary phase of development and cost estimates will be revised over time.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 262 | 52 | 0 | 473 | 539 | 551 | 564 | 578 | 3,019 |
| Project Total: | 262 | 52 | 0 | 473 | 539 | 551 | 564 | 578 | 3,019 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 262 | 52 | 0 | 473 | 539 | 551 | 564 | 578 | 3,019 |
| Appropriations Total* | 262 | 52 | 0 | 473 | 539 | 551 | 564 | 578 | 3,019 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 50 | 0 | 473 | 539 | 551 | 564 | 578 | 2,755 |

Pump Station - Install Station Motors

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 4th Quarter 1999
Project ID: C199052 **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 program replaces aging pump station motors throughout the water distribution system with new, more efficient motors. Some of the existing motors were installed 30 or more years ago and are now obsolete, with limited replacement parts available. The confidence for this project cost estimate is medium. SPU's Asset Management Committee has approved this project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 415 | 60 | 72 | 63 | 65 | 66 | 68 | 69 | 878 |
| Project Total: | 415 | 60 | 72 | 63 | 65 | 66 | 68 | 69 | 878 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 415 | 60 | 72 | 63 | 65 | 66 | 68 | 69 | 878 |
| Appropriations Total* | 415 | 60 | 72 | 63 | 65 | 66 | 68 | 69 | 878 |
| O & M Costs (Savings) | | | 4 | 4 | 4 | 4 | 4 | 4 | 26 |

**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 - Queen Anne

BCL/Program Name: Distribution

BCL/Program Code: C110B

Project Type: Improved Facility

Start Date: 1st Quarter 1996

Project ID: C1AA005

End Date: 4th Quarter 2008

Location: 110 Lee 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 constructs a new booster pump station and pressure zone on the top of Queen Anne Hill to improve pressure at existing low-pressure water services in the higher elevation areas. The project includes more than 14,000 feet of watermain improvements necessary to establish the new pressure zone. The booster pump station will be an underground facility located at the site of the Queen Anne standpipes. The project also has a side benefit of improving fire flow capacity within the new pressure zone created. Project is in construction and the pressure improvements will be realized in mid-2008. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 734 | 5,102 | 171 | 0 | 0 | 0 | 0 | 0 | 6,007 |
| Project Total: | 734 | 5,102 | 171 | 0 | 0 | 0 | 0 | 0 | 6,007 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 734 | 5,102 | 171 | 0 | 0 | 0 | 0 | 0 | 6,007 |
| Appropriations Total* | 734 | 5,102 | 171 | 0 | 0 | 0 | 0 | 0 | 6,007 |
| O & M Costs (Savings) | | | 16 | 16 | 16 | 16 | 16 | 16 | 96 |
| Spending Plan | | 7,602 | 171 | 0 | 0 | 0 | 0 | 0 | 7,773 |

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

2008-2013 Adopted Capital Improvement Program

SPU - Water

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: 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 program replaces SPU wholesale customer meters that are not performing within industry standards of accuracy. The project also funds customer-requested wholesale meter changes and upgrades. Most SPU costs are directly reimbursed by the wholesale customers. The confidence in the cost estimate is medium. This program does not require the SPU Asset Management Committee review as it is an ongoing program. The Project ID for this program was C1107 in the 2007-2012 Adopted CIP.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 2 | 147 | 137 | 105 | 108 | 110 | 113 | 1 | 723 |
| Project Total: | 2 | 147 | 137 | 105 | 108 | 110 | 113 | 1 | 723 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 2 | 147 | 137 | 105 | 108 | 110 | 113 | 1 | 723 |
| Appropriations Total* | 2 | 147 | 137 | 105 | 108 | 110 | 113 | 1 | 723 |
| O & M Costs (Savings) | | | 4 | 4 | 4 | 4 | 4 | 4 | 22 |
| Spending Plan | | 62 | 137 | 105 | 108 | 110 | 113 | 1 | 636 |

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: 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 regional facilities that support SPU management, operations and maintenance business functions, work force, material, and equipment. The cost estimates will be revised over time as projects are determined. Sub-projects within this program will go to the Asset Management Committee for approval.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|------|-------|-------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 60 | 1,420 | 776 | 2,604 | 2,687 | 551 | 564 | 578 | 9,240 |
| Project Total: | 60 | 1,420 | 776 | 2,604 | 2,687 | 551 | 564 | 578 | 9,240 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 60 | 1,420 | 776 | 2,604 | 2,687 | 551 | 564 | 578 | 9,240 |
| Appropriations Total* | 60 | 1,420 | 776 | 2,604 | 2,687 | 551 | 564 | 578 | 9,240 |
| O & M Costs (Savings) | | | 46 | 46 | 46 | 46 | 46 | 46 | 277 |
| Spending Plan | | 1,247 | 776 | 2,604 | 2,687 | 551 | 564 | 578 | 9,007 |

**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:** 4th Quarter 2013

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 program provides rebates to water customers to "buy back" water that is being inefficiently used at a cost that is lower than the cost of developing new supply sources. The rebates are provided to direct and wholesale retail customers for a variety of water-using products and equipment. Examples include upgrades in industrial process water, replacing water-cooled equipment with air-cooled versions, more efficient toilets and urinals, high-efficiency clothes washers, and new irrigation controllers and sensors. This project is required by Seattle's Water System Plan, wholesale contracts, and by City Council adopted legislation, including Resolutions 30091 and 30259, and Ordinance 120532. The goal is to cumulatively save 11 million gallons per day of average annual savings by 2011.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|-------|-------|-------|------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 5,235 | 3,731 | 3,774 | 4,207 | 4,858 | 682 | 729 | 765 | 23,981 |
| Project Total: | 5,235 | 3,731 | 3,774 | 4,207 | 4,858 | 682 | 729 | 765 | 23,981 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 5,235 | 3,731 | 3,774 | 4,207 | 4,858 | 682 | 729 | 765 | 23,981 |
| Appropriations Total* | 5,235 | 3,731 | 3,774 | 4,207 | 4,858 | 682 | 729 | 765 | 23,981 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 3,300 | 3,774 | 4,207 | 4,858 | 682 | 729 | 765 | 18,315 |

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

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 2008

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

In 1998, the Cities of Seattle and Renton signed an agreement that addresses Renton's request that SPU add line valves east of downtown Renton to reduce flooding in the event of a pipeline failure. This project responds to that agreement. Project components include improvement or relocation of pipeline dewatering points, replacement of Cedar River Pipeline 1 & 2 valves, automation of the I-405 ball valves, modifications to Augusta Gatehouse, and other miscellaneous work. The certainty of the project cost estimate is high, and it has been approved by SPU's Asset Management Committee.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 2,235 | 45 | 1 | 0 | 0 | 0 | 0 | 0 | 2,281 |
| Project Total: | 2,235 | 45 | 1 | 0 | 0 | 0 | 0 | 0 | 2,281 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 2,235 | 45 | 1 | 0 | 0 | 0 | 0 | 0 | 2,281 |
| Appropriations Total* | 2,235 | 45 | 1 | 0 | 0 | 0 | 0 | 0 | 2,281 |
| O & M Costs (Savings) | | | 35 | 35 | 35 | 35 | 35 | 35 | 210 |
| Spending Plan | | 145 | 0 | 0 | 0 | 0 | 0 | 0 | 145 |

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

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 program replaces existing valve chamber tops and access chimneys with larger diameter tops and chimneys, and makes minor air valve improvements as needed. The project provides SPU staff with safer access to valves, and complies with industry safety standards. The confidence level in the cost estimate is high. SPU's Asset Management Committee has approved the project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 458 | 64 | 64 | 67 | 69 | 71 | 72 | 74 | 939 |
| Project Total: | 458 | 64 | 64 | 67 | 69 | 71 | 72 | 74 | 939 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 458 | 64 | 64 | 67 | 69 | 71 | 72 | 74 | 939 |
| Appropriations Total* | 458 | 64 | 64 | 67 | 69 | 71 | 72 | 74 | 939 |
| O & M Costs (Savings) | | | 5 | 5 | 5 | 5 | 5 | 5 | 28 |

**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: 4th Quarter 2009

Location: 3901 Beacon Ave S

Neighborhood Plan: North Beacon Hill

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: Beacon Hill

This project replaces the existing 49 million gallon open South Beacon Reservoir with a new 50 million gallon underground reinforced concrete reservoir, and rehabilitates the pipes and valves connecting the reservoir to the water system. Additionally, the project retires the existing 61 million gallon North Beacon Reservoir and fills the void with soil. This project helps to protect Seattle's water supply from vandalism and contamination. Following this project, the Seattle Department of Parks and Recreation (Parks) will expand Jefferson Park over the reservoir site as a 2000 Parks Levy Project. The confidence level of the cost estimate is high.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|--------|--------|-------|-------|------|------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 11,692 | 18,490 | 9,326 | 1,500 | 0 | 0 | 0 | 0 | 41,008 |
| Project Total: | 11,692 | 18,490 | 9,326 | 1,500 | 0 | 0 | 0 | 0 | 41,008 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 11,692 | 18,490 | 9,326 | 1,500 | 0 | 0 | 0 | 0 | 41,008 |
| Appropriations Total* | 11,692 | 18,490 | 9,326 | 1,500 | 0 | 0 | 0 | 0 | 41,008 |
| O & M Costs (Savings) | | | 0 | (10) | (10) | (10) | (10) | (10) | -50 |
| Spending Plan | | 17,130 | 9,326 | 1,539 | 0 | 0 | 0 | 0 | 27,995 |

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

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: 1200 NE 82nd St

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Northeast

Urban Village: Not in an Urban Village

This project replaces the existing 60 million gallon Maple Leaf Reservoir with a new 60 million gallon, 2-cell underground reinforced concrete reservoir, and rehabilitates pipelines leading into and out of the reservoir. The project helps to protect Seattle's water supply from vandalism and contamination and improves water quality. Funds spent to date have been for design. The confidence level of the cost estimate is medium as construction is not scheduled to occur for several years in the future. Project construction completion is now planned for the year 2011, 2 years ahead of the previous schedule. Project commissioning and closeout activities will extend through 2012.

In the 2008 budget process, Council adopted a proviso restricting spending on this project. Details are provided in the departmental narrative at the beginning of this section.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|--------|--------|--------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 1,309 | 14 | 718 | 14,198 | 28,018 | 14,335 | 804 | 0 | 59,396 |
| Project Total: | 1,309 | 14 | 718 | 14,198 | 28,018 | 14,335 | 804 | 0 | 59,396 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 1,309 | 14 | 718 | 14,198 | 28,018 | 14,335 | 804 | 0 | 59,396 |
| Appropriations Total* | 1,309 | 14 | 718 | 14,198 | 28,018 | 14,335 | 804 | 0 | 59,396 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 10 | 10 | 20 |
| Spending Plan | | 350 | 718 | 14,198 | 28,018 | 14,335 | 804 | 0 | 58,423 |

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

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: 4th Quarter 2008

Location: 3600 SW Myrtle St

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Southwest

Urban Village: Morgan Junction

This project replaces the existing 10 million gallon open Myrtle Reservoir with a new 5 million gallon underground reinforced concrete reservoir, rehabilitates the pipes and valves connecting the reservoir to the water system, and converts the existing gas chlorine disinfection system at the reservoir to sodium hypochlorite (a liquid form of chlorine disinfection). The project helps to protect Seattle's water supply from vandalism and contamination and improves water quality. Due to the August 2006 Concrete Strike and adverse weather in the winter of 2006/2007 construction completion is planned for 1st Quarter 2008. Project closeout activities will extend through 2008. The confidence level of the cost estimate is high.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|------|------|------|------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 4,115 | 6,720 | 600 | 0 | 0 | 0 | 0 | 0 | 11,435 |
| Project Total: | 4,115 | 6,720 | 600 | 0 | 0 | 0 | 0 | 0 | 11,435 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 4,115 | 6,720 | 600 | 0 | 0 | 0 | 0 | 0 | 11,435 |
| Appropriations Total* | 4,115 | 6,720 | 600 | 0 | 0 | 0 | 0 | 0 | 11,435 |
| O & M Costs (Savings) | | | 2 | 5 | 5 | 5 | 5 | 5 | 27 |
| Spending Plan | | 6,612 | 600 | 0 | 0 | 0 | 0 | 0 | 7,212 |

**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: 1120 E Prospect St

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: East District **Urban Village:** Capitol Hill

Per Ordinance 121447, this project may replace the existing Volunteer Reservoir with a new underground reservoir, and rehabilitates pipelines leading into and out of the reservoir. The project helps to protect Seattle's water supply from vandalism and contamination. SPU is evaluating the possibility of decommissioning this reservoir instead of burying it. Funding provided in 2011 is intended for design work to underground the reservoir, if a decision is made to keep the reservoir in service. The confidence level of the cost estimate is low.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|-------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 94 | 0 | 10 | 5 | 54 | 110 | 847 | 8,089 | 9,209 |
| Project Total: | 94 | 0 | 10 | 5 | 54 | 110 | 847 | 8,089 | 9,209 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 94 | 0 | 10 | 5 | 54 | 110 | 847 | 8,089 | 9,209 |
| Appropriations Total* | 94 | 0 | 10 | 5 | 54 | 110 | 847 | 8,089 | 9,209 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 15 | 10 | 5 | 54 | 110 | 847 | 8,089 | 9,130 |

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:** 4th Quarter 2011

Location: 8800 8th 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 68 million gallon West Seattle Reservoir with a new 30 million gallon underground reinforced concrete reservoir, and rehabilitates pipelines leading into and out of the reservoir. The project helps to protect Seattle's water supply from vandalism and contamination. The confidence level of the cost estimate is medium. Project construction completion is planned for the year 2010.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|-------|--------|-------|------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 1,293 | 730 | 8,149 | 18,445 | 8,938 | 175 | 0 | 0 | 37,730 |
| Project Total: | 1,293 | 730 | 8,149 | 18,445 | 8,938 | 175 | 0 | 0 | 37,730 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 1,293 | 730 | 8,149 | 18,445 | 8,938 | 175 | 0 | 0 | 37,730 |
| Appropriations Total* | 1,293 | 730 | 8,149 | 18,445 | 8,938 | 175 | 0 | 0 | 37,730 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 10 | 10 | 10 | 30 |
| Spending Plan | | 680 | 8,149 | 18,445 | 8,938 | 175 | 0 | 0 | 36,387 |

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

Restoration Thinning Slash Treatment

BCL/Program Name: Watershed Stewardship
Project Type: Rehabilitation or Restoration
Project ID: C107019

BCL/Program Code: C130B
Start Date: 1st Quarter 2007
End Date: 4th Quarter 2010

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 treats woody debris (slash) that results from thinning small trees under the HCP Upland Forest Restoration Thinning program. This project will improve wildlife habitat and huckleberry production as part of the Muckleshoot Settlement Agreement. The Restoration Thinning program requires cutting young trees to reduce tree density and improve long-term habitat value. These cut trees are typically left on the ground to decay, and the thinning has resulted in persistent slash in several watershed locations. This slash presents an obstacle to wildlife movement, impedes understory plant growth, and increases wildfire risk. This project treats the slash using a variety of methods (cut and pile, mulch, and/or remove) in key areas to improve wildlife movement, understory plant growth, and reduce fire hazard. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 223 | 174 | 90 | 93 | 0 | 0 | 0 | 580 |
| Project Total: | 0 | 223 | 174 | 90 | 93 | 0 | 0 | 0 | 580 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 223 | 174 | 90 | 93 | 0 | 0 | 0 | 580 |
| Appropriations Total* | 0 | 223 | 174 | 90 | 93 | 0 | 0 | 0 | 580 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 3 | 3 | 3 | 9 |
| Spending Plan | | 180 | 174 | 90 | 93 | 0 | 0 | 0 | 537 |

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

SPU - Water

Rock Creek Fishway

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: Improved Facility

Start Date: 1st Quarter 2002

Project ID: C101008

End Date: 4th Quarter 2010

Location: Lake Youngs

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

In 2000, SPU received notification from the Washington Department of Fish and Wildlife that the culvert crossing under the Lake Youngs Aqueduct on Rock Creek, approximately 3.5 miles north of Landsburg, does not comply with existing fish passage requirements. This project is planned to meet requirements: an independent consultant assessment of the nature and magnitude of fish passage impairment at the current structure; conceptual development of a range of improvement options for the facility; and design, permitting, and construction of the selected improvement option. SPU's Asset Management Committee has approved the project. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 440 | 1,640 | 180 | 14 | 14 | 0 | 0 | 0 | 2,288 |
| Project Total: | 440 | 1,640 | 180 | 14 | 14 | 0 | 0 | 0 | 2,288 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 440 | 1,640 | 180 | 14 | 14 | 0 | 0 | 0 | 2,288 |
| Appropriations Total* | 440 | 1,640 | 180 | 14 | 14 | 0 | 0 | 0 | 2,288 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 3 | 3 | 3 | 8 |
| Spending Plan | | 1,750 | 180 | 14 | 14 | 0 | 0 | 0 | 1,958 |

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

2008-2013 Adopted Capital Improvement Program

SPU - Water

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:** 4th Quarter 2011

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 program assists low-income households with installing water-efficient fixtures, such as toilets, showerheads, clothes washers, and faucets. The program implements Ordinance 120532, adopted in 2001, and supplements funding provided under SPU's Regional Water Conservation Program (C1504). Council directed SPU to provide additional funding for measures to reduce personal and commercial water consumption in SPU's direct service area. The project is designed in three phases. Phase One targets low-income housing providers; Phase Two targets subsidized and non-subsidized low-income households; and Phase Three targets clothes washers and irrigation system upgrades for all low-income households. Accelerated commercial and industrial facility and equipment upgrades are done in all three phases and may include reclaimed water projects if cost effective. The confidence level of the cost estimate is low, since it is dependent on customer response.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|-------|-------|-------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 1,751 | 1,918 | 1,802 | 1,991 | 2,088 | 37 | 0 | 0 | 9,587 |
| Project Total: | 1,751 | 1,918 | 1,802 | 1,991 | 2,088 | 37 | 0 | 0 | 9,587 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 1,751 | 1,918 | 1,802 | 1,991 | 2,088 | 37 | 0 | 0 | 9,587 |
| Appropriations Total* | 1,751 | 1,918 | 1,802 | 1,991 | 2,088 | 37 | 0 | 0 | 9,587 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 1,795 | 1,802 | 1,991 | 2,088 | 37 | 0 | 0 | 7,713 |

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

SPU - Water

Security Improvements - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2005
Project ID: C4113-WF **End Date:** 4th Quarter 2012

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 project improves security and protection of SPU's water facilities. Phase one is now substantially complete, with improvements at 23 SPU-occupied sites that significantly reduced risks at many of the most critical facilities. This project represents phase two, which extends this work to further sites and may include installation of key cards, an Integrated Security System, signage, electronic monitoring and security-related infrastructure improvements, as well as upgrades to key, fence, and communication systems.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|-------|-------|-------|-------|-------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 46 | 2,302 | 1,036 | 1,262 | 1,293 | 1,323 | 1,355 | 0 | 8,617 |
| Project Total: | 46 | 2,302 | 1,036 | 1,262 | 1,293 | 1,323 | 1,355 | 0 | 8,617 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 46 | 2,302 | 1,036 | 1,262 | 1,293 | 1,323 | 1,355 | 0 | 8,617 |
| Appropriations Total* | 46 | 2,302 | 1,036 | 1,262 | 1,293 | 1,323 | 1,355 | 0 | 8,617 |
| O & M Costs (Savings) | | | 194 | 194 | 194 | 194 | 194 | 194 | 1,164 |
| Spending Plan | | 1,957 | 1,036 | 1,262 | 1,293 | 1,323 | 1,355 | 0 | 8,226 |

Seismic Upgrade - Cedar River Pipelines @ Ginger Creek

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Improved Facility **Start Date:** 1st Quarter 1999
Project ID: C197032 **End Date:** 1st Quarter 2008

Location: Lake Youngs Wy. SE & Kirkland Wy. SE (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 upgrades support systems for Cedar River Pipelines 1, 2, and 3 where they cross a boggy area at Ginger Creek so they can better withstand and remain operational after a medium-to-large earthquake. The confidence in the cost estimates is high, and SPU's Asset Management Committee has approved the project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 1,710 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 1,716 |
| Project Total: | 1,710 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 1,716 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 1,710 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 1,716 |
| Appropriations Total* | 1,710 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 1,716 |
| O & M Costs (Savings) | | | 0 | 9 | 9 | 9 | 9 | 9 | 43 |
| Spending Plan | | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |

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

Seismic Upgrade - Pipeline Backbone

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Improved Facility **Start Date:** 1st Quarter 2001
Project ID: C101038 **End Date:** 4th Quarter 2010

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 program makes seismic improvements to the water distribution system to better ensure water availability following an earthquake. The program includes seismic vulnerability and hydraulic modeling of the system to determine pipeline vulnerabilities, earthquake failure effects on the system, and cost-effective mitigation approaches. For budgeting purposes, it is anticipated that approximately 20 isolation valves will be installed at various locations to prevent vulnerable pipelines from draining the system. SPU's Asset Management Committee has approved the project. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|-------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 407 | 51 | 765 | 1,657 | 580 | 0 | 0 | 0 | 3,460 |
| Project Total: | 407 | 51 | 765 | 1,657 | 580 | 0 | 0 | 0 | 3,460 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 407 | 51 | 765 | 1,657 | 580 | 0 | 0 | 0 | 3,460 |
| Appropriations Total* | 407 | 51 | 765 | 1,657 | 580 | 0 | 0 | 0 | 3,460 |
| O & M Costs (Savings) | | | 10 | 10 | 10 | 10 | 10 | 10 | 60 |
| Spending Plan | | 75 | 765 | 1,657 | 580 | 0 | 0 | 0 | 3,077 |

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

SPU - Water

Seismic Upgrade - Tanks

BCL/Program Name: Distribution

BCL/Program Code: C110B

Project Type: Improved Facility

Start Date: 4th Quarter 1994

Project ID: C1120

End Date: 4th Quarter 2011

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 project makes seismic upgrades or replaces above-ground water tanks to improve their performance under seismic conditions and eliminate the risk of major failures. Typical upgrades include improving anchorage and foundations for standpipes, and adding seismic isolators and strengthening braces for elevated tanks supported on steel pillars. This project has been approved by SPU's Asset Management Committee. This project is in a preliminary phase of development for the years beyond 2008, and cost estimates will be revised over time.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 1,349 | 3,510 | 690 | 300 | 300 | 551 | 300 | 0 | 7,000 |
| Project Total: | 1,349 | 3,510 | 690 | 300 | 300 | 551 | 300 | 0 | 7,000 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 1,349 | 3,510 | 690 | 300 | 300 | 551 | 300 | 0 | 7,000 |
| Appropriations Total* | 1,349 | 3,510 | 690 | 300 | 300 | 551 | 300 | 0 | 7,000 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 31 | 31 | 61 |
| Spending Plan | | 4,792 | 690 | 11 | 0 | 551 | 0 | 0 | 6,044 |

**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 – Airport Link - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: New Facility **Start Date:** 1st Quarter 2007
Project ID: C4111-WF **End Date:** 4th Quarter 2008

Location: South Seattle

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 relocates, replaces, and protects water-related facilities affected by the extension of the Sound Transit Central Link light rail system to SeaTac Airport. This extension is located in Tukwila but will impact one or more water transmission lines. Sound Transit's project will first construct an electric light rail system on an over 14-mile alignment from the Convention Place Station to S. 154th Street near Seattle/Tacoma International Airport. The second segment will progress from the Convention Place Station to Northgate.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 3 | 63 | 28 | 0 | 0 | 0 | 0 | 0 | 94 |
| Project Total: | 3 | 63 | 28 | 0 | 0 | 0 | 0 | 0 | 94 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 3 | 63 | 28 | 0 | 0 | 0 | 0 | 0 | 94 |
| Appropriations Total* | 3 | 63 | 28 | 0 | 0 | 0 | 0 | 0 | 94 |
| O & M Costs (Savings) | | | 0 | 50 | 50 | 50 | 50 | 50 | 250 |

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 2009

Location: North Seattle

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 relocates or replaces water-related facilities affected by the extension of the Sound Transit Central Link light rail system to the University District. Sound Transit's project will first construct an electric light rail system on an over 14-mile alignment from the Convention Place Station to S. 154th Street near Seattle/Tacoma International Airport. The second segment will progress from the Convention Place Station to Northgate.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 5 | 49 | 122 | 120 | 0 | 0 | 0 | 0 | 296 |
| Project Total: | 5 | 49 | 122 | 120 | 0 | 0 | 0 | 0 | 296 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 5 | 49 | 122 | 120 | 0 | 0 | 0 | 0 | 296 |
| Appropriations Total* | 5 | 49 | 122 | 120 | 0 | 0 | 0 | 0 | 296 |
| O & M Costs (Savings) | | | 0 | 0 | 50 | 50 | 50 | 50 | 200 |

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

Sound Transit - Water Betterment

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2005
Project ID: C405430 **End Date:** 4th Quarter 2012

Location: Central & South areas of Seattle

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 project improves water mains and appurtenances (hydrants, valves, coatings, cathodic protection, etc.) related to Sound Transit's light rail projects. These improvements are "opportunity" projects that become available and cost effective as Sound Transit constructs light rail and rebuilds the street right-of-way. Sound Transit's project will first construct an electric light rail system on an over 14-mile alignment from the Convention Place Station to S. 154th Street near Seattle/Tacoma International Airport. The second segment will progress from the Convention Place Station to Northgate.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 1,195 | 410 | 431 | 833 | 1,025 | 992 | 1,016 | 0 | 5,902 |
| Project Total: | 1,195 | 410 | 431 | 833 | 1,025 | 992 | 1,016 | 0 | 5,902 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 1,195 | 410 | 431 | 833 | 1,025 | 992 | 1,016 | 0 | 5,902 |
| Appropriations Total* | 1,195 | 410 | 431 | 833 | 1,025 | 992 | 1,016 | 0 | 5,902 |
| O & M Costs (Savings) | | | 0 | 60 | 60 | 60 | 60 | 60 | 300 |

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

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 2008 |

Location: Central & South areas of Seattle

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 relocates or replaces water-related facilities affected by Sound Transit’s Central Link Project. Sound Transit is constructing an electrical light rail transit system that includes more than 14 miles of alignment from the Convention Place Station to South 154th Street near Seattle/Tacoma Airport. The City of Seattle, including SPU, has an agreement for partial reimbursement from Sound Transit. Seattle Public Utilities pays for water betterments that are being done in conjunction with the Sound Transit Central Link Project. Sound Transit Water Betterments are listed as a separate capital project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 3,752 | 612 | 369 | 0 | 0 | 0 | 0 | 0 | 4,733 |
| Project Total: | 3,752 | 612 | 369 | 0 | 0 | 0 | 0 | 0 | 4,733 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 3,752 | 612 | 369 | 0 | 0 | 0 | 0 | 0 | 4,733 |
| Appropriations Total* | 3,752 | 612 | 369 | 0 | 0 | 0 | 0 | 0 | 4,733 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 50 | 50 | 50 | 150 |

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

South Fork Tolt Large Woody Debris Replacement

| | |
|--|-------------------------------------|
| BCL/Program Name: Watershed Stewardship | BCL/Program Code: C130B |
| Project Type: Improved Facility | Start Date: 1st Quarter 2004 |
| Project ID: C104057 | End Date: 4th Quarter 2011 |

Location: South Fork 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 project improves fish habitat on the South Fork Tolt River. The 1989 Tolt Settlement Agreement for the federal relicensing of the South Fork Tolt Dam obligated SPU to conduct this work, under the management of the interagency Tolt Fish Advisory Committee (TFAC). In 2004, TFAC approved a project to place large woody debris in the South Fork Tolt River, which was completed in October 2005. This project improved habitat conditions for salmon and steelhead in the river and utilized approximately \$88,000 of SPU's total \$210,000 funding obligation (in 2004 dollars). Remaining funds will be spent when TFAC identifies and implements additional project(s). The confidence level of the cost estimate is high, but the timing is uncertain.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 88 | 3 | 3 | 63 | 65 | 26 | 0 | 0 | 248 |
| Project Total: | 88 | 3 | 3 | 63 | 65 | 26 | 0 | 0 | 248 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 88 | 3 | 3 | 63 | 65 | 26 | 0 | 0 | 248 |
| Appropriations Total* | 88 | 3 | 3 | 63 | 65 | 26 | 0 | 0 | 248 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| Spending Plan | | 0 | 3 | 63 | 65 | 26 | 0 | 0 | 157 |

**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 2009

Location: South Lake Union

Neighborhood Plan: South Lake Union

Neighborhood Plan Matrix: N/A

Neighborhood District: Lake Union

Urban Village: South Lake Union

This project relocates or replaces watermains, hydrants, water services, and transmission lines affected by City-sponsored projects in the South Lake Union Area. This effort identifies SPU water system direct impacts, opportunities for system improvements, and cost responsibility. This project also funds planning-level coordination with other City departments on projects within the South Lake Union area. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 150 | 139 | 16 | 0 | 0 | 0 | 0 | 305 |
| Project Total: | 0 | 150 | 139 | 16 | 0 | 0 | 0 | 0 | 305 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 150 | 139 | 16 | 0 | 0 | 0 | 0 | 305 |
| Appropriations Total* | 0 | 150 | 139 | 16 | 0 | 0 | 0 | 0 | 305 |
| O & M Costs (Savings) | | | 0 | 0 | 2 | 2 | 2 | 2 | 6 |

South Lander Grade Separation - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2008
Project ID: C408S03 - WF **End Date:** 4th Quarter 2011

Location: S Lander St/1st Ave S/4th Ave S

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 protects and/or replaces water assets affected by SDOT work to create a grade-separated crossing of the railroad tracks on S. Lander, south of downtown. The project is part of Bridging the Gap and needs to be completed prior to demolition of the Alaskan Way Viaduct. SDOT plans to begin construction in mid 2009. The project will impact a 16" watermain between Occidental Ave S and 3rd Ave S. Costs, scheduling and contracting modes are in preliminary planning stages. SPU will consider options including replacement, abandonment or protection in place.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 0 | 102 | 104 | 107 | 109 | 0 | 0 | 422 |
| Project Total: | 0 | 0 | 102 | 104 | 107 | 109 | 0 | 0 | 422 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 0 | 102 | 104 | 107 | 109 | 0 | 0 | 422 |
| Appropriations Total* | 0 | 0 | 102 | 104 | 107 | 109 | 0 | 0 | 422 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 2 | 2 | 4 |

**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 - WF

| | |
|---|-------------------------------------|
| BCL/Program Name: Shared Cost Projects | BCL/Program Code: C410B |
| Project Type: Improved Facility | Start Date: 1st Quarter 2008 |
| Project ID: C408S04 - WF | End Date: 4th Quarter 2011 |

Location: S. Royal Brougham Way & 1st Ave. S./S. Atlantic St./5th Ave. S.

| | |
|--|---|
| Neighborhood Plan: Duwamish | Neighborhood Plan Matrix: N/A |
| Neighborhood District: Greater Duwamish | Urban Village: Not in an Urban Village |

This project replaces or relocates SPU drinking water facilities affected by work on the SR 519 Interchange. The SDOT/WSDOT SR-519 Interchange project is a joint effort by SDOT and others to address the growing congestion in the South Downtown area. It includes street reconstruction to allow waterfront traffic to bypass the majority of the rail-switching tracks and a truck-only access road between Terminal 46 and the BNSF Inter-modal yard to improve freight movement. Project design integrates with Alaskan Way Viaduct and Port of Seattle Terminal 46 redevelopment. In addition, SPU will evaluate opportunities for low-impact development and regional solutions.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 0 | 102 | 104 | 107 | 109 | 0 | 0 | 422 |
| Project Total: | 0 | 0 | 102 | 104 | 107 | 109 | 0 | 0 | 422 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 0 | 102 | 104 | 107 | 109 | 0 | 0 | 422 |
| Appropriations Total* | 0 | 0 | 102 | 104 | 107 | 109 | 0 | 0 | 422 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 2 | 2 | 4 |

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

SR-520 Bridge Replacement - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2007
Project ID: C407021-WF **End Date:** 4th Quarter 2020

Location: SR 520

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: University Campus

This program relocates or replaces water-related facilities affected by the Washington State Department of Transportation's replacement of the SR 520 floating bridge. SR 520 is one of two east-west crossings across Lake Washington. Approximately 155,000-160,000 people cross the SR 520 floating bridge (Evergreen Point Bridge) each day. Built in the 1960s, without the benefit of today's design standards or drainage code requirements, the Evergreen Point Bridge and the Portage Bay Bridge are vulnerable to windstorms and earthquakes and are at risk of collapse if they are not replaced. The six-mile project area begins at I-5 in Seattle and extends to 108th Avenue Northeast in Bellevue (just west of I-405). The confidence level of the cost estimate is low due to the early planning stage for this project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 132 | 139 | 150 | 163 | 176 | 191 | 168 | 1,119 |
| Project Total: | 0 | 132 | 139 | 150 | 163 | 176 | 191 | 168 | 1,119 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 132 | 139 | 150 | 163 | 176 | 191 | 168 | 1,119 |
| Appropriations Total* | 0 | 132 | 139 | 150 | 163 | 176 | 191 | 168 | 1,119 |
| 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.*

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 restores fish and wildlife habitats in the Cedar River Watershed that have been degraded by past activities, such as logging and road construction. It is part of the Cedar River Habitat Conservation Plan (HCP) and includes streambank stabilization, streamside revegetation, large woody debris placement, conifer under-planting, riparian thinning, stream-crossing projects to improve flow, stream-crossing improvements to reestablish fish passage, and bull trout habitat studies. SPU's Asset Management Committee has approved the HCP at the program level. The confidence level for this project cost estimate is high.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 3,374 | 955 | 738 | 759 | 606 | 657 | 592 | 433 | 8,114 |
| Project Total: | 3,374 | 955 | 738 | 759 | 606 | 657 | 592 | 433 | 8,114 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 3,374 | 955 | 738 | 759 | 606 | 657 | 592 | 433 | 8,114 |
| Appropriations Total* | 3,374 | 955 | 738 | 759 | 606 | 657 | 592 | 433 | 8,114 |
| O & M Costs (Savings) | | | 41 | 41 | 41 | 41 | 41 | 41 | 243 |
| Spending Plan | | 504 | 738 | 759 | 606 | 657 | 592 | 433 | 4,289 |

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

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 2009

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 project replaces two remaining stream crossings with bridges in the Tolt River Watershed. A cost/benefit analysis determined that access is needed on these roads, and the existing crossings are undersized for stream conditions, posing a risk of road failure with associated safety and environmental risks. The confidence level of the current cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 230 | 6 | 85 | 263 | 0 | 0 | 0 | 0 | 584 |
| Project Total: | 230 | 6 | 85 | 263 | 0 | 0 | 0 | 0 | 584 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 230 | 6 | 85 | 263 | 0 | 0 | 0 | 0 | 584 |
| Appropriations Total* | 230 | 6 | 85 | 263 | 0 | 0 | 0 | 0 | 584 |
| O & M Costs (Savings) | | | 3 | 3 | 3 | 3 | 3 | 3 | 18 |
| Spending Plan | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Tolt Pipeline 2 II & III East of Tieline

BCL/Program Name: Transmission
Project Type: Improved Facility
Project ID: C100084

BCL/Program Code: C120B
Start Date: 3rd Quarter 1987
End Date: 4th Quarter 2010

Location: Various

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

The project constructed portions of Tolt Pipeline No. 2 between the Trilogy Development and Duvall. It is essentially complete and in service, with environmental restoration and monitoring activities required by permits continuing on for several more years. The confidence level in the cost estimate is high. SPU's Asset Management Committee has approved the project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|--------|------|------|------|------|------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 28,239 | 11 | 11 | 11 | 11 | 0 | 0 | 0 | 28,283 |
| Project Total: | 28,239 | 11 | 11 | 11 | 11 | 0 | 0 | 0 | 28,283 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 28,239 | 11 | 11 | 11 | 11 | 0 | 0 | 0 | 28,283 |
| Appropriations Total* | 28,239 | 11 | 11 | 11 | 11 | 0 | 0 | 0 | 28,283 |
| O & M Costs (Savings) | | | 10 | 10 | 10 | 10 | 10 | 10 | 60 |
| Spending Plan | | 22 | 11 | 11 | 11 | 0 | 0 | 0 | 55 |

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

SPU - Water

Tolt Pipeline 2 II & III West of Tieline

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Improved Facility **Start Date:** 3rd Quarter 1987
Project ID: C100083 **End Date:** 4th Quarter 2008

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

The project constructed portions of Tolt Pipeline No. 2 between Redmond's Education Hill neighborhood and the Trilogy Development. It is essentially complete and in service, with environmental restoration and monitoring activities required by permits continuing on for several more years. The confidence level in the cost estimate is high. SPU's Asset Management Committee has approved the project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|--------|------|------|------|------|------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 26,418 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 26,424 |
| Project Total: | 26,418 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 26,424 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 26,418 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 26,424 |
| Appropriations Total* | 26,418 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 26,424 |
| O & M Costs (Savings) | | | 20 | 20 | 20 | 20 | 20 | 20 | 120 |
| Spending Plan | | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 10 |

Tolt Pipeline I - Phase 3 - B

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 1999
Project ID: C199003 **End Date:** 4th Quarter 2011

Location: Tolt 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 replaced one mile of the original Tolt Pipeline No. 1 spanning the Snoqualmie Valley where it was weakened by corrosion. It is essentially complete and in service, with environmental restoration and monitoring activities required by permits continuing on for several more years. The confidence level in the cost estimate is high. SPU's Asset Management Committee has approved the project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 5,249 | 6 | 0 | 2 | 2 | 2 | 0 | 0 | 5,261 |
| Project Total: | 5,249 | 6 | 0 | 2 | 2 | 2 | 0 | 0 | 5,261 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 5,249 | 6 | 0 | 2 | 2 | 2 | 0 | 0 | 5,261 |
| Appropriations Total* | 5,249 | 6 | 0 | 2 | 2 | 2 | 0 | 0 | 5,261 |
| O & M Costs (Savings) | | | 10 | 10 | 10 | 10 | 10 | 10 | 60 |
| Spending Plan | | 5 | 0 | 2 | 2 | 2 | 0 | 0 | 11 |

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

SPU - Water

Tolt Pipeline II - Phase 4

BCL/Program Name: Transmission
Project Type: Improved Facility
Project ID: C194029

BCL/Program Code: C120B
Start Date: 1st Quarter 1995
End Date: 1st Quarter 2008

Location: Tolt Pipeline Right of Way

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

The project constructed portions of Tolt Pipeline No. 2 between Woodinville and Lake Forest Park. It is essentially complete and in service, with environmental restoration and monitoring activities required by permits continuing on for several more years. The confidence level in the cost estimate is high. SPU's Asset Management Committee has approved the project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|--------|------|------|------|------|------|------|------|--------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 28,735 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 28,744 |
| Project Total: | 28,735 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 28,744 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 28,735 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 28,744 |
| Appropriations Total* | 28,735 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 28,744 |
| O & M Costs (Savings) | | | 24 | 24 | 25 | 27 | 29 | 29 | 158 |
| Spending Plan | | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |

Tolt River Watershed Road Improvements

BCL/Program Name: Watershed Stewardship
Project Type: Improved Facility
Project ID: C196007

BCL/Program Code: C130B
Start Date: 1st Quarter 1996
End Date: 4th Quarter 2012

Location: Tolt 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 improves the forest roads in the South Fork Tolt River Watershed to comply with Washington State Department of Natural Resources Forest Practices Act standards, and to minimize erosion and sediment loading into creeks and the South Fork Tolt reservoir. Improvements include regrading, replacing inadequate culverts and cross drains, installing a stable rock base, and capping with finer rock. The confidence level of the cost estimate is high.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 1,643 | 177 | 192 | 126 | 129 | 132 | 135 | 0 | 2,534 |
| Project Total: | 1,643 | 177 | 192 | 126 | 129 | 132 | 135 | 0 | 2,534 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 1,643 | 177 | 192 | 126 | 129 | 132 | 135 | 0 | 2,534 |
| Appropriations Total* | 1,643 | 177 | 192 | 126 | 129 | 132 | 135 | 0 | 2,534 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 13 | 13 |
| Spending Plan | | 88 | 192 | 126 | 129 | 132 | 135 | 0 | 802 |

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

Tolt Watershed Management Plan

BCL/Program Name: Watershed Stewardship **BCL/Program Code:** C130B
Project Type: Improved Facility **Start Date:** 1st Quarter 2005
Project ID: C105083 **End Date:** 4th Quarter 2008

Location: Tolt 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 develops a Tolt Watershed Management Plan to bring operations in the Tolt municipal watershed area into alignment with the operation of other major watershed facilities, and to provide guidance for a wide array of management activities into the future. Major elements addressed in the plan include forestland management, facility security and protection, road maintenance and operations, and fish and wildlife management. SPU's Asset Management Committee has approved the project. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 341 | 219 | 161 | 0 | 0 | 0 | 0 | 0 | 721 |
| Project Total: | 341 | 219 | 161 | 0 | 0 | 0 | 0 | 0 | 721 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 341 | 219 | 161 | 0 | 0 | 0 | 0 | 0 | 721 |
| Appropriations Total* | 341 | 219 | 161 | 0 | 0 | 0 | 0 | 0 | 721 |
| O & M Costs (Savings) | | | 0 | 4 | 4 | 4 | 4 | 4 | 18 |
| Spending Plan | | 377 | 161 | 0 | 0 | 0 | 0 | 0 | 538 |

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: 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 program rehabilitates and upgrades water transmission pipes as deficiencies are identified. The confidence level of the current cost estimate is low. SPU's Asset Management Committee review is not required as it is an ongoing program. The Project ID for this program was C1127 in the 2007-2012 Adopted CIP.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|-------|-------|-------|-------|-------|-------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 44 | 689 | 1,145 | 1,051 | 1,077 | 1,103 | 1,129 | 1,157 | 7,395 |
| Project Total: | 44 | 689 | 1,145 | 1,051 | 1,077 | 1,103 | 1,129 | 1,157 | 7,395 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 44 | 689 | 1,145 | 1,051 | 1,077 | 1,103 | 1,129 | 1,157 | 7,395 |
| Appropriations Total* | 44 | 689 | 1,145 | 1,051 | 1,077 | 1,103 | 1,129 | 1,157 | 7,395 |
| O & M Costs (Savings) | | | 10 | 10 | 10 | 10 | 10 | 10 | 60 |
| Spending Plan | | 200 | 1,145 | 1,051 | 1,077 | 1,103 | 1,129 | 0 | 5,705 |

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

Treatment Facility/Water Quality Improvements

BCL/Program Name: Water Quality & Treatment
Project Type: Rehabilitation or Restoration
Project ID: C107018

BCL/Program Code: C140B
Start Date: 1st Quarter 2007
End Date: Ongoing

Location: Various

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 plans, designs, and constructs minor water quality and treatment facility rehabilitation and improvement projects on an ongoing basis. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 106 | 154 | 158 | 162 | 165 | 169 | 173 | 1,087 |
| Project Total: | 0 | 106 | 154 | 158 | 162 | 165 | 169 | 173 | 1,087 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 106 | 154 | 158 | 162 | 165 | 169 | 173 | 1,087 |
| Appropriations Total* | 0 | 106 | 154 | 158 | 162 | 165 | 169 | 173 | 1,087 |
| O & M Costs (Savings) | | | 5 | 5 | 5 | 5 | 5 | 5 | 33 |
| Spending Plan | | 65 | 154 | 158 | 162 | 165 | 169 | 173 | 1,046 |

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

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 program, part of the Cedar River Habitat Conservation Plan (HCP), conducts restoration planting and restoration and ecological thinning within previously-harvested upland forests. Planting occurs in selected areas of forest to promote the development of more natural and diverse ecological communities of vegetation. Restoration thinning reduces the density of trees to encourage tree growth. Ecological thinning accelerates the development of characteristics of mature forests. Work also includes marbled murrelet surveys and forest inventory and modeling. The inventory is used to plan restoration work, and the modeling is used to project effects of restoration treatments in development of the forest over time. SPU's Asset Management Committee has approved the HCP at the program level. The confidence level for this cost estimate is high.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 3,753 | 831 | 658 | 701 | 722 | 742 | 695 | 661 | 8,763 |
| Project Total: | 3,753 | 831 | 658 | 701 | 722 | 742 | 695 | 661 | 8,763 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 3,753 | 831 | 658 | 701 | 722 | 742 | 695 | 661 | 8,763 |
| Appropriations Total* | 3,753 | 831 | 658 | 701 | 722 | 742 | 695 | 661 | 8,763 |
| O & M Costs (Savings) | | | 44 | 44 | 44 | 44 | 44 | 44 | 263 |
| Spending Plan | | 820 | 658 | 701 | 722 | 742 | 695 | 661 | 4,999 |

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

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: Battery St/Battery St Tun Off Rp

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 project relocates, replaces, and protects water system-related facilities affected by work on the Alaskan Way Viaduct and Seawall. The Alaskan Way Viaduct is part of State Route 99, which carries 25 percent of the north-south traffic through downtown Seattle and is a major truck route serving the city's industrial areas. The seawall supports the soils under Alaskan Way and the Viaduct. Both facilities were damaged in the February 28, 2001, Nisqually Earthquake. The Washington State Department of Transportation (WSDOT) is the lead for the project. SPU has substantial water system infrastructure along the approximately four-mile project corridor which must be relocated one or more times during the project. This project designs and constructs these relocations according to the transportation project scope and schedule. Only 2008 and 2009 are budgeted in this CIP. Further budgeting will take place when the scope and timing are further defined.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 337 | 2,017 | 257 | 320 | 0 | 0 | 0 | 0 | 2,931 |
| Project Total: | 337 | 2,017 | 257 | 320 | 0 | 0 | 0 | 0 | 2,931 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 337 | 2,017 | 257 | 320 | 0 | 0 | 0 | 0 | 2,931 |
| Appropriations Total* | 337 | 2,017 | 257 | 320 | 0 | 0 | 0 | 0 | 2,931 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 2,117 | 257 | 320 | 0 | 0 | 0 | 0 | 2,694 |

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

Water Design Standards & Guideline Program

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Rehabilitation or Restoration **Start Date:** 2nd Quarter 2002
Project ID: C102028 **End Date:** 4th Quarter 2008

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 creates detailed design standards for various types of water facilities in order to streamline future design efforts, reduce costs, and increase the quality of future facilities. The confidence level in the cost estimate is high. SPU's Asset Management Committee has approved the project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 399 | 275 | 115 | 0 | 0 | 0 | 0 | 0 | 789 |
| Project Total: | 399 | 275 | 115 | 0 | 0 | 0 | 0 | 0 | 789 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 399 | 275 | 115 | 0 | 0 | 0 | 0 | 0 | 789 |
| Appropriations Total* | 399 | 275 | 115 | 0 | 0 | 0 | 0 | 0 | 789 |
| O & M Costs (Savings) | | | 0 | 4 | 4 | 4 | 4 | 4 | 20 |
| Spending Plan | | 420 | 115 | 0 | 0 | 0 | 0 | 0 | 535 |

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 program replaces older and damaged hydrants to ensure a reliable and adequate supply of water for fire protection. The Seattle Fire Department provides SPU with information on hydrants that are found to be malfunctioning. Other repairs or replacements occur when hydrants are damaged by vehicles. On average, SPU repairs or replaces between seven and 25 hydrants per year. Cost estimates are revised over time, reflecting uncertainty about how many hydrants will be found to be malfunctioning in a given year. The SPU Asset Management Committee has approved the project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 1,536 | 163 | 425 | 436 | 447 | 458 | 468 | 480 | 4,413 |
| Project Total: | 1,536 | 163 | 425 | 436 | 447 | 458 | 468 | 480 | 4,413 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 1,536 | 163 | 425 | 436 | 447 | 458 | 468 | 480 | 4,413 |
| Appropriations Total* | 1,536 | 163 | 425 | 436 | 447 | 458 | 468 | 480 | 4,413 |
| O & M Costs (Savings) | | | 10 | 10 | 10 | 10 | 10 | 10 | 60 |
| Spending Plan | | 415 | 425 | 436 | 447 | 458 | 468 | 480 | 3,129 |

**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 - New Hydrants

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: New Facility **Start Date:** 2nd Quarter 1999
Project ID: C1112 **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 program provides new fire hydrants citywide. The number of new hydrants installed each year varies with demand. The confidence level of the cost estimate is medium, as the Seattle Fire Department determines the number of hydrants that should be added. The project has been approved by the SPU Asset Management Committee.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 105 | 102 | 131 | 135 | 138 | 141 | 144 | 896 |
| Project Total: | 0 | 105 | 102 | 131 | 135 | 138 | 141 | 144 | 896 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 105 | 102 | 131 | 135 | 138 | 141 | 144 | 896 |
| Appropriations Total* | 0 | 105 | 102 | 131 | 135 | 138 | 141 | 144 | 896 |
| O & M Costs (Savings) | | | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
| Spending Plan | | 125 | 102 | 131 | 135 | 138 | 141 | 144 | 916 |

Water Infrastructure - New Taps

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: New Facility **Start Date:** 4Q/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 program provides for new connections to existing watermain 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. SPU's approach is to respond to customers' requests for new water services and to coordinate this work with other water utility work needed at the site of the subject development. If this work were not accomplished, new structures could not be completed or occupied. The confidence level of the current cost estimate is medium as the number of taps depends on customer requests. SPU's Asset Management Committee has approved this project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|--------|-------|-------|-------|-------|-------|-------|--------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 3,209 | 10,145 | 8,500 | 6,836 | 7,004 | 7,168 | 7,337 | 7,511 | 57,710 |
| Project Total: | 3,209 | 10,145 | 8,500 | 6,836 | 7,004 | 7,168 | 7,337 | 7,511 | 57,710 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 3,209 | 10,145 | 8,500 | 6,836 | 7,004 | 7,168 | 7,337 | 7,511 | 57,710 |
| Appropriations Total* | 3,209 | 10,145 | 8,500 | 6,836 | 7,004 | 7,168 | 7,337 | 7,511 | 57,710 |
| O & M Costs (Savings) | | | 10 | 10 | 10 | 10 | 10 | 10 | 60 |
| Spending Plan | | 7,000 | 8,500 | 6,836 | 7,004 | 7,168 | 7,337 | 7,511 | 51,356 |

**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 - 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 project replaces water service lines that are prone to failure due to their age or pipe material characteristics, and disconnects and retires water service lines that are no longer needed by customers due to changes in property use. SPU's approach is to preemptively replace water services in those settings where water service leakage would require an unusually costly reactive replacement. This project also provides reactive replacement of services that develop leaks and are likely to develop additional leaks. If water service line replacement work were not to occur, leakage on aging or obsolete water service pipes could not be prevented or eliminated. Each leak incident would need to be addressed separately with individual repair visits, repeated pavement openings, and multiple instances of citizen inconvenience. If unneeded water service lines were not disconnected from the active distribution system, then their aging and their lack of visibility would result in leakage and instances of unintended damage during future utility excavation work. The confidence level of the current cost estimate is high. SPU's Asset Management Committee has approved this project.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|-------|-------|-------|-------|-------|-------|--------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 58 | 6,099 | 5,478 | 6,310 | 6,466 | 6,616 | 6,773 | 6,933 | 44,733 |
| Project Total: | 58 | 6,099 | 5,478 | 6,310 | 6,466 | 6,616 | 6,773 | 6,933 | 44,733 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 58 | 6,099 | 5,478 | 6,310 | 6,466 | 6,616 | 6,773 | 6,933 | 44,733 |
| Appropriations Total* | 58 | 6,099 | 5,478 | 6,310 | 6,466 | 6,616 | 6,773 | 6,933 | 44,733 |
| O & M Costs (Savings) | | | 10 | 10 | 10 | 10 | 10 | 10 | 60 |

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

2008-2013 Adopted Capital Improvement Program

SPU - Water

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 program assists private developers to install new standard watermains and fire hydrants that serve properties being developed or re-developed. Once constructed and commissioned, new watermains are turned over to SPU to own, operate, and maintain. Costs incurred by SPU under this program are almost fully reimbursed by the parties triggering the need for the new watermains. The confidence level of the current cost estimate is medium. The program has been approved by SPU's Asset Management Committee.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|-------|------|-------|-------|-------|-------|-------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 253 | 1,167 | 592 | 1,052 | 1,078 | 1,103 | 1,129 | 1,156 | 7,530 |
| Project Total: | 253 | 1,167 | 592 | 1,052 | 1,078 | 1,103 | 1,129 | 1,156 | 7,530 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 253 | 1,167 | 592 | 1,052 | 1,078 | 1,103 | 1,129 | 1,156 | 7,530 |
| Appropriations Total* | 253 | 1,167 | 592 | 1,052 | 1,078 | 1,103 | 1,129 | 1,156 | 7,530 |
| O & M Costs (Savings) | | | 5 | 5 | 5 | 5 | 5 | 5 | 30 |
| Spending Plan | | 1,000 | 592 | 1,052 | 1,078 | 1,103 | 1,129 | 1,156 | 7,110 |

**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 2009

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 purchases and installs on-line water quality monitoring equipment to increase Seattle's capacity to detect and rapidly respond to drinking water contamination events. SPU is actively investigating methods to improve the drinking water quality security and surveillance system. This project would allow for continued improvements. Collaborative research between SPU and United States Environmental Protection Agency (USEPA) will yield specific recommendations for online monitoring equipment (quantity and suggested locations) in 2007. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 166 | 102 | 5 | 0 | 0 | 0 | 0 | 273 |
| Project Total: | 0 | 166 | 102 | 5 | 0 | 0 | 0 | 0 | 273 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 166 | 102 | 5 | 0 | 0 | 0 | 0 | 273 |
| Appropriations Total* | 0 | 166 | 102 | 5 | 0 | 0 | 0 | 0 | 273 |
| O & M Costs (Savings) | | | 32 | 32 | 33 | 34 | 35 | 35 | 201 |
| Spending Plan | | 120 | 102 | 5 | 0 | 0 | 0 | 0 | 227 |

Water Resources Project Development

BCL/Program Name: Water Resources

BCL/Program Code: C150B

Project Type: Improved Facility

Start Date: 1st Quarter 2005

Project ID: C105100

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 project develops potential new projects in SPU's Water Resources Business Area through the preparation of technical evaluation, cost benefit analysis, and the initial Project Development Plan (PDP1). The scope and costs are refined as the project progresses to the preliminary engineering phase.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 397 | 102 | 113 | 113 | 108 | 121 | 128 | 0 | 1,082 |
| Project Total: | 397 | 102 | 113 | 113 | 108 | 121 | 128 | 0 | 1,082 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 397 | 102 | 113 | 113 | 108 | 121 | 128 | 0 | 1,082 |
| Appropriations Total* | 397 | 102 | 113 | 113 | 108 | 121 | 128 | 0 | 1,082 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 480 | 113 | 113 | 108 | 121 | 128 | 0 | 1,063 |

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

2008-2013 Adopted Capital Improvement Program

SPU - Water

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 2010

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 provides water supply flexibility by addressing critical water resource management issues, and is grouped into five categories: drought and flood mitigation; improved environmental performance; legal, regulatory and policy issues; emergency response; and future supply uncertainties. This program includes projects C104016, C197009, and C1AA012 which were previously listed separately in the 2007-2012 Adopted CIP.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 0 | 438 | 841 | 862 | 0 | 0 | 0 | 2,141 |
| Project Total: | 0 | 0 | 438 | 841 | 862 | 0 | 0 | 0 | 2,141 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 0 | 438 | 841 | 862 | 0 | 0 | 0 | 2,141 |
| Appropriations Total* | 0 | 0 | 438 | 841 | 862 | 0 | 0 | 0 | 2,141 |
| O & M Costs (Savings) | | | 5 | 5 | 10 | 10 | 10 | 10 | 50 |

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

2008-2013 Adopted Capital Improvement Program

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 program improves the configuration of approximately 200 blowoffs as the need arises. Blowoffs are valves and piping located at low points in water pipelines used to drain or flush the line for emergency or maintenance operations. The program's goals include: eliminating or minimizing flooding damage to downstream private property due to blowoff operations; addressing the discharge of water into sensitive streams; requiring monitoring and treatment for impacts due to chlorine, pH, and turbidity; eliminating possible cross-connections; and addressing improvements to water courses to reduce erosion or other damage caused by blowoff operations. The programmatic approach and criteria have been approved by SPU's Asset Management Committee. The confidence level of the cost estimate is medium. The Project ID for this program was C1105 in the 2007-2012 Adopted CIP.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 320 | 34 | 14 | 158 | 162 | 165 | 169 | 174 | 1,196 |
| Project Total: | 320 | 34 | 14 | 158 | 162 | 165 | 169 | 174 | 1,196 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 320 | 34 | 14 | 158 | 162 | 165 | 169 | 174 | 1,196 |
| Appropriations Total* | 320 | 34 | 14 | 158 | 162 | 165 | 169 | 174 | 1,196 |
| O & M Costs (Savings) | | | 5 | 5 | 5 | 5 | 5 | 5 | 31 |
| Spending Plan | | 91 | 14 | 158 | 162 | 165 | 169 | 0 | 759 |

**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 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 conducts an environmental review and updates the 2013 Comprehensive Water System Plan. State regulations require water utilities to submit a new comprehensive water system plan every six years as a condition of state utility operating permit renewal. This project is in a preliminary phase of development and cost estimates will be revised over time as the scope of the plan is clarified.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 0 | 0 | 49 | 99 | 465 | 770 | 23 | 1,406 |
| Project Total: | 0 | 0 | 0 | 49 | 99 | 465 | 770 | 23 | 1,406 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 0 | 0 | 49 | 99 | 465 | 770 | 23 | 1,406 |
| Appropriations Total* | 0 | 0 | 0 | 49 | 99 | 465 | 770 | 23 | 1,406 |
| 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.*

2008-2013 Adopted Capital Improvement Program

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 program replaces and rehabilitates watermain pipelines. The program utilizes asset management principles to provide sustainability of the watermain distribution system infrastructure at the lowest life-cycle costs. Pipes are replaced when the cost of continued repairs exceeds the replacement cost. Alternative methods of rehabilitation, such as clean and cement mortar lining, are utilized when appropriate to provide a more cost-effective option while reducing the impacts to the surrounding community. Other customer levels of service, such as pressure and fire flow, may drive watermain improvements, either by regulation or where cost effective. SPU's Asset Management Committee has approved the project. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 3,840 | 1,118 | 1,141 | 4,207 | 4,310 | 4,411 | 4,515 | 5,200 | 28,742 |
| Project Total: | 3,840 | 1,118 | 1,141 | 4,207 | 4,310 | 4,411 | 4,515 | 5,200 | 28,742 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 3,840 | 1,118 | 1,141 | 4,207 | 4,310 | 4,411 | 4,515 | 5,200 | 28,742 |
| Appropriations Total* | 3,840 | 1,118 | 1,141 | 4,207 | 4,310 | 4,411 | 4,515 | 5,200 | 28,742 |
| O & M Costs (Savings) | | | 10 | 10 | 10 | 10 | 10 | 10 | 60 |
| Spending Plan | | 1,178 | 1,141 | 4,207 | 4,310 | 4,411 | 4,515 | 5,200 | 24,962 |

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

Watershed Emergency/Opportunity

BCL/Program Name: Watershed Stewardship
Project Type: Improved Facility
Project ID: C107004

BCL/Program Code: C130B
Start Date: 1st Quarter 2007
End Date: 4th Quarter 2013

Location: Cedar & Tolt 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 limited funding for small, unanticipated capital projects to address emergency requirements and take advantage of opportunities in the Cedar River and Tolt River municipal watersheds. History has shown that such situations arise throughout the year with little advance warning. Examples of emergencies include landslides, windstorms, or other severe weather conditions that cause damage to the watershed. Such events would need immediate assessments regarding whether capital expenditures could be required, and possibly immediate, small-scale restoration actions. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 207 | 214 | 158 | 216 | 221 | 226 | 231 | 1,473 |
| Project Total: | 0 | 207 | 214 | 158 | 216 | 221 | 226 | 231 | 1,473 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 207 | 214 | 158 | 216 | 221 | 226 | 231 | 1,473 |
| Appropriations Total* | 0 | 207 | 214 | 158 | 216 | 221 | 226 | 231 | 1,473 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spending Plan | | 200 | 214 | 158 | 216 | 221 | 226 | 231 | 1,466 |

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

Watershed Vegetation Management Plan

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: New Investment

Start Date: 1st Quarter 2007

Project ID: C107015

End Date: 4th Quarter 2010

Location: Cedar & Tolt River Watershed; Lake Youngs Reserve

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 and begins implementation of a plan for the control or eradication of non-native, invasive plants throughout the Cedar and Tolt Municipal Watersheds and the Lake Youngs Reserve. It will also include restoration of native habitats in locations where the invasives occur. This project requires extensive surveys for over 55 non-native plant species that landowners are legally required to control. It also requires testing numerous control and eradication methods for each species, to ensure that only the most cost-effective methods are used over the longer term. This testing will result in a large amount of control work and habitat restoration that will take place during the development of the management plan. The plan will include recommendations for management of invasive plants along powerline rights-of-way within the municipal watersheds.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 0 | 103 | 130 | 127 | 130 | 0 | 0 | 0 | 490 |
| Project Total: | 0 | 103 | 130 | 127 | 130 | 0 | 0 | 0 | 490 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 0 | 103 | 130 | 127 | 130 | 0 | 0 | 0 | 490 |
| Appropriations Total* | 0 | 103 | 130 | 127 | 130 | 0 | 0 | 0 | 490 |
| O & M Costs (Savings) | | | 0 | 0 | 0 | 85 | 85 | 85 | 255 |
| Spending Plan | | 195 | 130 | 127 | 130 | 0 | 0 | 0 | 582 |

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

WSDOT Sound Walls

BCL/Program Name: Distribution
Project Type: Improved Facility
Project ID: C104019

BCL/Program Code: C110B
Start Date: 1st Quarter 2004
End Date: 4th Quarter 2008

Location: E Roanoke St/Roanoke Ave Off RP

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: East District

Urban Village: Not in an Urban Village

This project responds to impacts on a 20-inch watermain resulting from Washington State Department of Transportation's (WSDOT) planned installation of sound walls along the I-5 corridor. SPU's approach is to work with WSDOT designers to keep the sound wall construction from degrading the service life of this important watermain, and to ensure that the wall foundation will not impede future maintenance and repair of the watermain. If this work were not accomplished, the design and construction of the new sound wall could promote leakage or catastrophic failure of the 20-inch watermain and make associated repairs impossible without partial removal of the new wall. The confidence level of the cost estimate is medium.

| | LTD | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Total |
|--|-----|------|------|------|------|------|------|------|-------|
| Revenue Sources | | | | | | | | | |
| Water Rates | 27 | 149 | 41 | 0 | 0 | 0 | 0 | 0 | 217 |
| Project Total: | 27 | 149 | 41 | 0 | 0 | 0 | 0 | 0 | 217 |
| Fund Appropriations/Allocations | | | | | | | | | |
| Water Fund | 27 | 149 | 41 | 0 | 0 | 0 | 0 | 0 | 217 |
| Appropriations Total* | 27 | 149 | 41 | 0 | 0 | 0 | 0 | 0 | 217 |
| O & M Costs (Savings) | | | 0 | 1 | 1 | 1 | 1 | 1 | 5 |
| Spending Plan | | 26 | 41 | 0 | 0 | 0 | 0 | 0 | 67 |

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