

Environmental Services

This section includes all of the budgets in the Divisions of Environmental Services which are under the Department of Public Works and Utilities. Environmental Services includes Solid Waste Management, the Sewer Utility (Sewer Utility Fund, Sewer Utility Construction, Sewer Revenue Bonds, and the Sewer Facility Restricted Reserve) and Water Programs (Surface Water Management Fund, Water Utility Fund, Real Estate Excise Tax - River Fund, and the Drinking Water Supply Program presented under Special Projects in the Other Services and Programs section of the document). The budget for the Chambers Creek Golf Course is also included in this section as the land is owned by the Sewer Utility and the Golf Course is a part of the reclamation program for that site.

Major Accomplishments in 2004

The **Sewer Utility's** Chambers Creek Regional Wastewater Treatment Facility completed 20 years of operation in 2004. The Treatment Facility completed several significant projects in 2004 to further fine tune the treatment system to insure that it operates at peak efficiency. The Bioselector Modifications Project entailed modification of the inlet piping and metering to the basins, modifying the mixing zones by moving and/or removing concrete basin walls, replacing diffusers and many other upgrades to the existing aeration basins. Other improvement projects started to prolong equipment operations and provide personnel protection during maintenance activities included the installation of wall panels around the Ultra Violet (UV) disinfection system equipment and covers over the outdoor electrical switchgear. Brushes were installed on the secondary clarifiers to improve the process performance by removing algae growth and keeping it from building up.

Design, bidding and contracting was completed for the North End Supervisory Control and Data Acquisition (SCADA) project and is scheduled for completion in 2005. The Fertilizer Manufacturing Facility began construction, including a building to house the fertilizer manufacturing equipment, new dewatering centrifuges, odor control, storage silos, truck loading bay and scales. When completed in 2005, it will be only the second such facility on the West Coast capable of producing a Class "A" EQ (exceptional quality) fertilizer product.

In 2004, the Utility's Collection Division made 5200 pump station visits providing routine maintenance, cleaned 775,000 lineal feet (146.9 miles) of sewer lines, inspected 255,000 lineal feet (48.3 miles) of sewer lines via the use of television cameras, and smoke-tested 368,000 lineal feet (69.8 miles) of sewer line checking for damaged pipe or illegal connections.

The Utility completed the second phase of the Rainier Meadows capital improvement project, which eliminated an existing community septic system that the County has operated and maintained for the past 20 years. This project included the construction of the Rainier Meadows Interceptor through an existing 123-home community, elimination and demolition of an existing pump station, abandonment of an 8 acre community drainfield and installation of approximately 1,225 feet of 16 inch diameter gravity sewer lines.

The Utility also completed the construction of the Fredrickson Trunk Sewer Project. This project was initiated to extend another portion of the interceptor sewer system in 176th Street East prior to future road improvements. It also provides sewer system access for a large undeveloped area within the Utility's sewerage basin and included installation of 5,845 feet of 18 inch, 15 inch, 12 inch and 8 inch diameter gravity sewer pipe line in 176th St. E. from 69th Ave. Ct. E. to 84th Ave. E.

Section Contents	
Chambers Creek Golf Course	325
Real Estate Excise Tax - River	327
Sewer Revenue Bonds	329
Sewer Utility Fund	331
Sewer Utility Construction	337
Solid Waste Management Fund	341
Surface Water Management Fund.....	345
Water Utility Fund.....	351

Developer-provided extensions of sanitary sewers within the Utility's service area accounted for the construction of 10.24 miles (54,046 lineal feet) of public sewer systems as well as 5.76 miles (30,392 lineal feet) of private sanitary sewer systems. Land development also accounted for 1,855 single-family, 65 multi-family and 37 commercial units being connected to the County's sanitary sewer system. A total of 17.3 miles

of gravity sanitary sewers were added to the County's sanitary sewer system by capital improvement and developer extensions to the system in 2004.

During 2004, Utility staff assigned to implement the Coordinated Water System Plan (CWSP) successfully negotiated a change of ownership of a water system threatened with a "receivership" action by the Washington State Department of Health. The **Water Utility** participated in three multi-stakeholder watershed management planning processes under the Watershed Management Act for the Nisqually, Kitsap Peninsula and Chambers-Clover Creek Watershed or WRIA. The Nisqually Plan was the first in the State to be approved. Although completed in September 2004, the Chambers-Clover Watershed Management Plan has not yet been approved as prescribed by the Watershed Act. Because the primary focus of the watershed management planning process is to make water resource allocation decisions, the use of the County's Chambers Creek Properties water supply was discussed during the development of the Chambers-Clover Creek Watershed Plan.

Solid Waste Division managed program design and public outreach campaign in support of the County's curbside recycling programs. In September, the County Council approved a change to a new covered, wheeled cart system with a formal launch on February 15, 2005. The new program has broad public acceptance for despite the need to remove glass from curbside recycling and the small rate increase.

Pierce County Responds program continues to manage a large caseload and in the second half of the year headway was made on reducing the backlog. The assignment of full-time staff to work on Pierce County Responds and the hiring of a full-time supervisor will reduce the backlog further in 2005. Staff supervised the cleanup of one major Dirty Dozen dumpsite and the removal of more than 2,000 nuisance vehicles from private properties.

During 2004, Environmental Educators provided classroom presentations and resource loans that reached over 25,000 youth, one-third more than last year. Participation in a wide variety of community fairs and celebrations exposed thousands more to Solid Waste Division messages.

2004 was marked by the re-establishment of the Storm Drainage and Surface Water Management Advisory Board (SWAB). The Board assists with the public review of **Water Programs** planning documents and makes recommendations to the Pierce County Council on policy issues affecting the program. This year the Advisory Board reviewed and recommended adoption of the Gig Harbor, Muck Creek and Clover Creek basin plans.

In 2004, Capital Improvement Project (CIP) staff completed several significant projects including the construction of the Artondale Creek culvert replacement (flooding and fish passage issues), the Sylvia Lake Drainage improvements (flooding and sedimentation control), the Spanaway Airport Pipeline (groundwater flooding) and the Beach Drive pump station (flooding and contamination from septic tank effluent). Land acquisition for the Soldiers Home setback levee was completed with final design and construction anticipated in 2005. CIP staff also completed the Channel Migration Zone Study for South Prairie Creek, acquired land and/or conducted preliminary engineering for several future storm drainage and/or flood hazard reduction projects.

Program Services staff secured environmental authorizations for all CIP projects constructed in 2004, secured SWAB approval of three basin plans, completed Phase One Characterization for Key Peninsula/Islands Basin Plan, held basin community updates in Gig Harbor, Clover Creek, Muck Creek, and Key Peninsula/Islands basins, and initiated Basin Plans for Carbon River, White River, and Nisqually River basins. Program Services completed property acquisitions for Clover Creek, Gig Harbor, and South Prairie Creek, Mid-Nisqually, Mid-Puyallup, and Muck Creek basins. Staff also organized and conducted additional volunteer planting of W-1 Pond, involving over 100 volunteers.

Program Services staff initiated the Graham Groundwater Study, a USGS cooperative project, the Naches Trail Preserve Stewardship Plan, a water quality monitoring plan and a wetlands mitigation bank program. Staff also updated the Pierce County Lead Entity Strategy, which was rated "excellent" by the State Salmon Recovery Funding Board (SRFB) and prepared a major SRFB grant application for a setback levee feasibility study in 2005.

2004 was another very productive year for the Maintenance Division. Significant completed projects included: maintenance, construction and/or improvement of 188 Storm Drainage Pond Facilities, 11 major

Environmental Services

ditch systems, 2 major creeks, 7 small works projects, 15 fencing repairs and 2 new fencing projects (pond and quarry facility), 31.5 miles of vegetation management along the Puyallup and Carbon Rivers, repair of 5 levee sections on the Puyallup River and 2 sections on the Nisqually River, 28 misc./general drainage related maintenance projects, demolition of 5 repetitive flood-loss homes, and addressed 231 citizen drainage inquiries in the field.

To further implement long-standing elements of the NPDES permit, watershed action plans, 1997 Rate Study, and basin plans, Water Programs hired four new staff members in 2004; a watershed coordinator, a wetlands biologist, a community outreach specialist and a water quality technician who will assist with monitoring and inspections.

As regional coordinator for flooding, water quality and habitat issues, Water Programs continued working with FEMA to remap the 1987 floodplain regulation maps. The remapping of all the major river and creek systems within unincorporated Pierce County has been completed. Remapping of the floodplains of some of the smaller creeks and isolated depression areas will begin soon. Public review and comment on the remapping will start in 2005.

Water Programs led promotion of Low Impact Development (LID) within Pierce County, facilitating the construction of the County's first LID demonstration development, and participating closely in development of the new "Directions" package. Water Programs also coordinated with the South Puget Sound Salmon Enhancement group for the review and construction of the 94th St. Oxbow salmon habitat project.

DEPARTMENT BUDGETS

Department Name	2004 Budget	2005 Budget	Absolute Change	Percent Change
Chambers Creek Golf Course	\$ 1,326,600	\$ 6,350,000	\$ 5,023,400	378.7 %
Real Estate Excise Tax - River	1,779,800	2,664,520	884,720	49.7
Sewer Facil Restricted Reserve	6,245,830	6,590,980	345,150	5.5
Sewer Revenue Bonds	12,841,180	8,308,000	(4,533,180)	(35.3)
Sewer Utility Fund	44,658,080	48,375,790	3,717,710	8.3
Sewer Utility Construction	18,145,000	18,069,000	(76,000)	(0.4)
Solid Waste Management Fund	4,902,140	4,765,630	(136,510)	(2.8)
Surface Water Management Fund	18,642,220	20,252,880	1,610,660	8.6
Water Utility Fund	162,830	198,750	35,920	22.1
Total Environmental Services	\$ 108,703,680	\$ 115,575,550	\$ 6,871,870	6.3 %

Environmental Services

Chambers Creek Golf Course

Enterprise Fund

Departmental Summary:

The Chambers Creek Properties Golf Course is a project with the Chambers Creek Master Site Plan which was adopted by the County Council in 1997. The Chambers Creek Properties consist of over 950 acres located within the City of University Place adjacent to the County's wastewater treatment plant. The purpose of the Chambers Creek Golf Course fund is to develop a 27-hole championship flight golf course that maximizes the site potential, provides an environmental showcase, and generates revenue for both the course operations and other recreational features. Initial funding for the design, engineering and permitting of the course will be done through an interfund loan from the Sewer Utility.

Budget Highlights:

The proposed 2005 budget for the Chambers Creek Golf Course fund includes the following:

- a) Staff costs..... \$86,020
 - b) Course and clubhouse design..... 2,010,900
 - c) Course construction (2005 work)..... 4,142,940
 - d) Interest and other costs 110,140
- \$6,350,000

Funding in 2005 is provided by an interfund Sewer fund loan and an anticipated bank line of credit.

Performance Measures

- 1) Complete final design, implement a financing strategy and begin construction of the Chambers Creek Properties Golf Course project by December 31, 2005, which will enhance the recreational opportunities for the citizens of Pierce County and create a revenue generator for continued development of the Chambers Creek Properties. (Goals B, D, E, G)

FUNDING SOURCES

	2002 Actual	2003 Actual	2004 Budget	2005 Budget	Absolute Change	Percent Change
Other Financing Sources	\$ —	\$ —	\$ 1,326,600	\$ 6,350,000	\$ 5,023,400	378.7 %
Total	\$ —	\$ —	\$ 1,326,600	\$ 6,350,000	\$ 5,023,400	378.7 %

EXPENDITURES

	2002 Actual	2003 Actual	2004 Budget	2005 Budget	Absolute Change	Percent Change
Salaries & Wages	\$ —	\$ —	\$ —	\$ 71,210	\$ 71,210	∞ %
Personnel Benefits	—	—	—	14,810	14,810	∞
Supplies	—	—	—	1,000	1,000	∞
Other Services & Charges	—	—	1,326,600	2,023,200	696,600	52.5
Capital Outlays	—	—	—	4,142,940	4,142,940	∞
Interest	—	—	—	96,840	96,840	∞
Total	\$ —	\$ —	\$ 1,326,600	\$ 6,350,000	\$ 5,023,400	378.7 %

Chambers Creek Golf Course

STAFFING SUMMARY

	2000 FTE	2001 FTE	2002 FTE	2003 FTE	2004 FTE	2005 FTE
Administrative Svcs Mgr	—	—	—	—	—	0.50
Special Asst to Dir PW&U	—	—	—	—	—	0.15
Planner	—	—	—	—	—	0.15
Total	—	—	—	—	—	0.80

Real Estate Excise Tax - River
Special Revenue Fund

The mission of the Water Programs Division is to be a responsive service organization that efficiently addresses flood control, water quality, and the preservation of natural drainage systems.

Departmental Summary: The revenue for this fund is derived from a portion (currently 25%) of the first one-quarter of one percent tax imposed on the sale of real property situated in the unincorporated areas of Pierce County. The monies are used for river improvement capital projects, as identified in the Puyallup River Basin Comprehensive Flood Control Management Plan.

Budget Highlights: The 2005 R.E.E.T. - River budget is 50% above the 2004 level, and includes flood plain land acquisitions, and the Setback Levee project near the Soldiers Home in Orting. However, due to federal funding limitations, the status of this project is uncertain.

FUNDING SOURCES

	2002 Actual	2003 Actual	2004 Budget	2005 Budget	Absolute Change	Percent Change
Est Use of Begin Fund Balance	\$ —	\$ —	\$ 154,520	\$ 979,520	\$ 825,000	533.9 %
Taxes	1,112,308	1,493,594	1,200,000	1,250,000	50,000	4.2
Intergovernmental Revenue	101,045	43,837	425,280	435,000	9,720	2.3
Total	\$ 1,213,353	\$ 1,537,431	\$ 1,779,800	\$ 2,664,520	\$ 884,720	49.7 %

PROGRAM EXPENDITURES

	2004 FTE	2005 FTE	2004 Budget	2005 Budget	Absolute Change	Percent Change
Administration & Tech Support	1.71	1.57	\$ 1,086,800	\$ 2,164,520	\$ 1,077,720	99.2 %
Basin Plan & Land Acquisition	—	—	693,000	500,000	(193,000)	(27.8)
Total	1.71	1.57	\$ 1,779,800	\$ 2,664,520	\$ 884,720	49.7 %

Real Estate Excise Tax -River

STAFFING SUMMARY						
	2000 FTE	2001 FTE	2002 FTE	2003 FTE	2004 FTE	2005 FTE
Water Programs Manager	0.10	0.10	0.10	0.10	0.10	0.05
Administrative Svcs Mgr	0.05	0.05	0.05	0.05	0.05	0.03
Civil Engineer	0.95	0.60	0.92	1.05	0.94	0.90
Right of Way Agent	0.15	0.15	0.15	0.15	0.15	0.15
Admin Program Mgr	0.05	0.05	0.05	0.05	0.05	0.05
GIS Specialist	—	—	—	0.10	0.06	0.06
Accounting Assistant	0.30	0.30	0.30	0.30	0.30	0.30
Supervisory Admin Asst	0.05	0.05	0.05	0.05	0.05	0.03
Deputy PW & Utilities Dir	0.01	0.01	0.01	—	0.01	—
Engineering Tech	0.30	0.15	0.15	0.10	—	—
Dir – Public Works & Util	0.01	0.01	0.01	—	—	—
Environmental Biologist	—	0.20	—	—	—	—
Water Prog Maint Mgr	0.05	0.05	—	—	—	—
Total	2.02	1.72	1.79	1.95	1.71	1.57

Sewer Revenue Bonds

Enterprise Fund

Departmental Summary:

This fund is used to accumulate monies for repayment of the following bond issues:

Sewer Improvement and Refunding Revenue Bonds, 1993:

The \$36,900,000 Sewer Improvement and Refunding Revenue Bonds, which advance refunded the outstanding bonds at July 1, 1993 for the Sewer Revenue and Refunding Bonds, 1985; the Sewer Revenue Bonds, 1989; the Sewer Revenue Bonds, 1991; and the Sewer Revenue Bonds, 1992; and which provided financing for the purchase of land for expansion of the sewage treatment facility, are a combination of serial and term bonds as follows: (a) Serial bonds maturing in annual installments of \$955,000 to \$2,665,000 plus interest of 2.65% to 5.45%. The final serial bond maturity is February 1, 2008. (b) Term bonds maturing on February 1, 2013 in the amount of \$6,305,000 at 5.625%. Mandatory call provisions of the term bonds begin February 1, 2009, in the average annual amount of \$1,261,000 until the year 2013. The outstanding balance at December 31, 2004 is \$7,375,000.

Sewer Revenue Bonds, 1997:

The \$1,510,000 sewer revenue bonds, which were issued to provide sewer service to the South Hill area, are a combination of serial and term bonds as follows: (a) Serial bonds maturing in annual installments of \$75,000 to \$80,000 plus interest of 5.00% to 5.55% and having a final of February 1, 2014. (b) Term bonds maturing on February 1, 2017 in the amount of \$225,000 and interest of 5.70% and having mandatory calls of \$75,000 in each of 2015 and 2016. The outstanding balance at December 31, 2004 is \$975,000.

Sewer Revenue Bonds, 2001:

The \$18,495,000 sewer revenue bonds, which were issued to provide sewer service to the Dupont area, are serial bonds due in annual installments ranging from \$915,000 to \$1,100,000 plus interest of 4.25% to 5.10%. Bonds maturing August 1, 2009 through August 1, 2012 are callable beginning August 1, 2002 or on any scheduled interest payment date thereafter from excess ULID assessment payments. Bonds maturing on or after August 1, 2012 are callable on August 1, 2011 or on any scheduled interest payment date thereafter. The bond balance on December 31, 2004 is \$15,750,000.

Sewer Revenue Bonds

FINANCIAL SUMMARY

Bond Issue	2005 Revenue	2005 Expense
Sewer Revenue Bonds Accounts		
Operating Transfer from Sewer Assessment Account	\$ 3,574,000	\$ —
Operating Transfer from Sewer Revenue Bond Reserve Account	580,000	—
Principal	—	3,025,000
Interest and Amortization Expense	—	1,129,000
Subtotal	4,154,000	4,154,000
Assessment Collection Account		
Assessments Receivable	900,000	—
Interest and Penalties on Assessments	700,000	—
Investment Interest	10,000	—
Use of Fund Balance	1,964,000	—
Operating Transfer to Sewer Revenue Bond Account	—	3,574,000
Subtotal	3,574,000	3,574,000
Sewer Revenue Bond Reserve Account		
Investment Interest	89,000	—
Use of Fund Balance	491,000	—
Operating Transfer to Sewer Bond Account	—	580,000
Subtotal	580,000	580,000
Grand Total	\$ 8,308,000	\$ 8,308,000

Sewer Utility Fund

Enterprise Fund

The mission of the Sewer Utility is to provide customers with high quality, cost effective sanitary sewer services by collecting and treating all wastewater generated from County service areas in accordance with applicable Local, State and Federal permit requirements.

Departmental Summary:

The Sewer Utility Fund accounts for all activities involved with the collection and treatment of wastewater produced within unincorporated Pierce County. The fund is under the administration of the Public Works and Utilities Department. The system currently is comprised of a 24 million gallon a day secondary treatment plant located near the Chambers Creek entrance to Puget Sound, over 576 lineal miles of collection and transmission pipe, 80 major pumping stations, and over 900 minor pumping stations. The Sewer Utility's major service areas include University Place, Lakewood, Parkland, Spanaway, Frederickson, South Hill, Puyallup, Brown's Point, Midland, Milton, Dupont, and the lower Hylebos area of northern Pierce County. The department works with Steilacoom, Federal Way Water and Sewer, and Tacoma in the area of wastewater collection and treatment under different interlocal sewerage service agreements.

The fund's major activities revolve around the maintenance of the pumping stations, collection system, and the treatment plant facilities as well as the treatment of wastewater at the Chambers Creek Wastewater Treatment Plant. When required, the fund finances construction projects, which benefit its customers. The fund derives its revenues predominately from customer user charges and development permit fees.

Budget Highlights:

The recommended 2005 Sewer Utility Fund budget is 8.3% above the current year, and reflects the following items of note.

- a) An allocation of \$13.8 million for capital improvements (transferred to the Sewer Utility Construction Fund);
- b) 9 new positions:
 - 2 treatment plant operators
 - 3 staff in the development engineering section to reduce the turnaround time for permit review
 - 1 D.I.T.S. and 1 Records Specialist (shared with the Solid Waste and Surface Water Management funds)
- c) A rate increase of approximately 3%; and
- d) The use of \$7,730,000 in fund balance (net of depreciation expense).

Sewer Utility Fund

Performance Measures

- | | |
|---|---|
| <p>1) Provide treatment and disinfection to 100% of the wastewater received at the Chambers Creek Regional Wastewater Treatment Plant in order to comply with the National Discharge Pollution Elimination System permit and to protect the water quality of Pierce County. (Goals B, H, I)</p> | <p>stations at a individual average rate of 45 maintenance site visits per year; and providing responsive customer service through resolution of 100% of customer service calls within 5 working days in order to ensure safe and efficient transmission of wastewater to the Chambers Creek Waste Water Treatment Plant. (Goals G, H, I)</p> |
| <p>2) Maintain and extend the life of an aging Wastewater Collection System, by providing televised inspection and cleaning of the system at a rate of 23% of the system per year; inspecting and maintaining waste water pump</p> | |

FUNDING SOURCES

	2002 Actual	2003 Actual	2004 Budget	2005 Budget	Absolute Change	Percent Change
Est Use of Begin Fund Balance	\$ —	\$ —	\$ 20,092,930	\$ 20,371,350	\$ 278,420	1.4 %
Intergovernmental Revenue	380,284	59,706	—	—	—	—
Charges for Services	21,909,781	22,732,916	24,395,150	27,684,440	3,289,290	13.5
Miscellaneous Revenue	789,590	370,678	90,000	240,000	150,000	166.7
Contributed Capital	74,254	74,798	80,000	80,000	—	—
Other Financing Sources	(1,237,646)	(88,651)	—	—	—	—
Total	\$ 21,916,263	\$ 23,149,447	\$ 44,658,080	\$ 48,375,790	\$ 3,717,710	8.3 %

PROGRAM EXPENDITURES

	2004 FTE	2005 FTE	2004 Budget	2005 Budget	Absolute Change	Percent Change
Collection System Maintenance	37.00	37.00	\$ 4,380,530	\$ 4,721,540	\$ 341,010	7.8 %
Wastewater Treatment O & M	39.40	40.60	7,660,510	8,511,560	851,050	11.1
Admin, Engineering, & Planning	35.36	40.83	6,939,760	8,025,730	1,085,970	15.6
Depreciation/Depletion	—	—	11,748,280	12,641,270	892,990	7.6
Capital Improvement Program	—	—	13,929,000	14,475,690	546,690	3.9
Total	111.76	118.43	\$ 44,658,080	\$ 48,375,790	\$ 3,717,710	8.3 %

Sewer Utility Fund

WORKING CAPITAL SUMMARY

	2004 Estimate	2005 Budget
Operating Revenues		
Charges for Services	\$ 24,910,520	\$ 27,684,440
Grant Reimbursements	—	—
Subtotal	24,910,520	27,684,440
Operating Expenses		
Administration and Planning	7,037,660	8,025,730
Collection Systems Maintenance	4,337,790	4,721,540
Wastewater Treatment O & M	7,496,970	8,511,560
Depreciation/Depletion	11,748,280	12,641,270
Subtotal	30,620,700	33,900,100
Net Operating Income (Loss)	(5,710,180)	(6,215,660)
Non-Operating Revenue (Expense)		
Interest Income	225,000	225,000
Miscellaneous	49,180	15,000
Subtotal	274,180	240,000
Net Operating Income (Loss)	(5,436,000)	(5,975,660)
Other Sources (Uses) of Working Capital		
Depreciation/Depletion - add back	11,748,280	12,641,270
Equipment Purchases	(499,000)	(644,290)
Construction/Asset Acquisition	(7,670,880)	(13,831,400)
Contributed Capital	1,180,000	80,000
Subtotal	4,758,400	(1,754,420)
Net Increase (Decrease) in Working Capital	\$ (677,600)	\$ (7,730,080)

Sewer Utility Fund

STAFFING SUMMARY

	2000 FTE	2001 FTE	2002 FTE	2003 FTE	2004 FTE	2005 FTE
Dir – Public Works & Util	0.33	0.33	0.23	0.23	0.23	0.20
Deputy PW & Utilities Dir	0.33	0.33	0.23	0.23	0.21	0.20
WW Utility Manager	1.00	1.00	1.00	1.00	1.00	1.00
Administrative Svcs Mgr	0.50	0.50	0.50	0.50	0.50	0.28
Special Asst to Dir of PW & U	—	0.70	0.90	0.90	0.90	0.44
WWTP Superintendent	1.00	1.00	1.00	1.00	1.00	1.00
WW Collection System Mgr	1.00	1.00	1.00	1.00	1.00	1.00
WW Construction Proj Mgr	1.00	1.00	1.00	1.00	1.00	1.00
WWTP Engineer	—	—	1.00	1.00	1.00	1.00
Civil Engineer	9.00	9.00	9.00	9.00	10.00	12.00
WW Maint Spec Mech	3.00	3.00	5.00	5.00	5.00	5.00
WW Asst Coll System Mgr	—	—	1.00	1.00	1.00	1.00
WWTP Chief Operator	1.00	1.00	1.00	1.00	1.00	1.00
WWTP Lab Supervisor	1.00	1.00	1.00	1.00	1.00	1.00
WWTP Maint Supv	1.00	1.00	1.00	1.00	1.00	1.00
Planner	1.50	1.50	1.00	1.00	1.00	1.85
Engineering Tech	9.00	10.70	11.00	11.00	11.00	12.00
WW Coll Maint Supv	2.00	2.00	2.00	2.00	2.00	2.00
Right of Way Agent	0.50	0.50	0.50	0.50	0.50	0.24
Admin Program Mgr	0.40	0.40	0.40	0.40	0.40	0.40
WWTP Lab Analyst	1.00	1.00	1.00	1.00	1.00	1.00
Accounting Assistant	3.85	3.85	3.80	4.80	5.75	5.80
WWTP Operator	10.00	10.00	10.00	10.00	10.00	12.00
WW Coll Maint Tech Lead	3.00	3.00	3.00	3.00	3.00	3.00
WW Maint Spec Elec	3.00	2.00	2.00	2.00	2.00	2.00
WW Maint Spec Inst	3.00	4.00	4.00	4.00	4.00	4.00
Supervisory Admin Asst	0.55	0.55	0.55	0.55	0.55	0.62
Dept Info Tech Spec	—	—	—	—	0.17	0.51
WWTP Laboratory Tech	1.00	1.00	1.00	1.00	1.00	1.00
WWTP Pretreatment Tech	—	—	3.00	3.00	3.00	3.00
WW Maint Tech	21.00	25.00	24.00	24.00	24.00	24.00
Records Specialist	—	—	—	—	—	0.34
Program Development Coord	—	—	—	—	—	1.00
Administrative Asst	1.00	0.75	0.55	0.55	0.55	0.55
Office Assistant	9.00	9.00	9.00	8.00	8.00	8.00
WW Inventory Expeditor	1.00	1.00	1.00	1.00	1.00	1.00
WW Maint Worker	4.00	—	—	—	3.00	3.00
WWTP Utility Worker	1.00	1.00	2.00	2.00	4.00	4.00
WW Asst Const Proj Mgr	1.00	1.00	—	—	—	—
WWTP Lab/Pretmt Tech	3.00	3.00	—	—	—	—
Exec Dir - Operations	0.50	—	—	—	—	—
Executive Secretary	0.50	—	—	—	—	—
Asst to Exec Dir of Oper	0.70	—	—	—	—	—
WW Maint Tech Lead	1.00	—	—	—	—	—
GIS Technician	0.60	—	—	—	—	—
Total	103.26	102.11	104.66	104.66	111.76	118.43

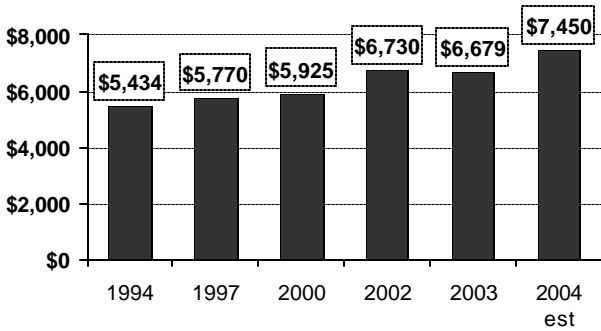
Sewer Utility Fund

WORKLOAD SERVICE DATA

	Unit of Measure	2000 Actual	2001 Actual	2002 Actual	2003 Actual	2004 Estimate	2005 Estimate
Laboratory analysis	Tests	26,145	28,806	27,219	27,142	28,500	28,600
Pretreatment program	Reviews	2,301	1,425	1,676	2,255	2,265	2,275
Accidental spill prev program	Reviews	731	492	336	696	710	725
Residual hauling/acceptance	Wet tons	12,648	14,359	12,893	12,196	13,500	13,700
Residual dryness	Percentage	15.7	15.2	15.8	15.4	15.0	15.5
Avg daily wastewater flow rec.	ADF/MGD	14.4	15.2	16.4	16.6	17.4	17.8
Preventative maintenance	Orders	4,860	4,787	6,089	7,924	9,000	9,000
Pump station maintenance visits	Visits	3,610	4,340	4,574	5,551	5,200	5,200
Auxiliary power system maint.	Visits	1,055	1,267	1,173	1,600	1,100	1,150
Residential grinder pump	Visits	1,364	1,330	1,180	910	1,100	1,050
Sewer line cleaning	Linear Ft	668,322	662,595	680,754	667,690	700,000	925,000
Sewer utilities locates	Visits	16,002	12,559	11,563	15,530	12,000	14,000
Smoke testing	Linear Ft	346,480	357,083	371,430	365,595	340,000	340,000
Sewer manhole	Repairs	1,025	581	517	749	700	700
Inflow and Infiltration	Repairs	405	427	333	266	340	350
Television inspection	Linear Ft	236,346	241,606	246,249	264,074	230,000	300,000
Emergency pump station calls	Incidents	81	114	90	93	120	131
Sewer line blockages	Incidents	25	10	17	4	15	20
Active billing accounts	Accounts	40,378	42,334	43,934	46,115	48,250	50,750
Permits, reviews and inspections	Cases	4,211	4,997	5,448	5,281	5,852	6,000
Collector pipe	Miles	537	576	578	583	588	595

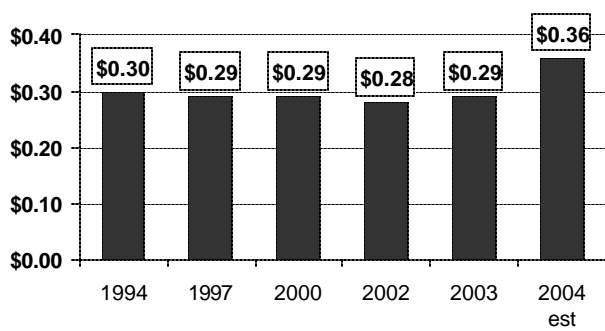
BUDGET RATIOS

Maintenance Cost per Mile of Pipe



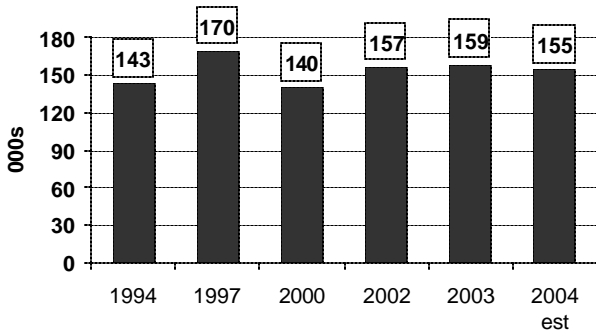
❖ From 1994 to 2004 the maintenance cost per mile of collection pipe increased 37% after adjusting for inflation.

Treatment Cost per Daily Gallon



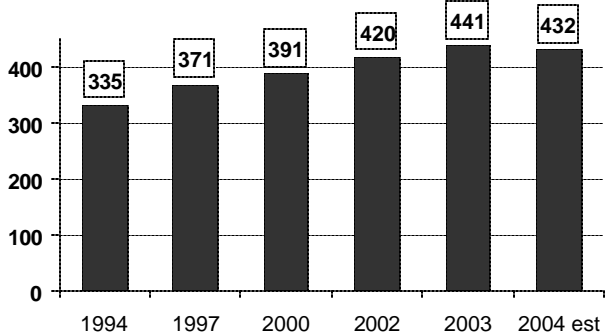
❖ From 1994 to 2004 the treatment cost per daily gallon of wastewater increased 20% after adjusting for inflation.

Wastewater Treated per Employee
Gallons in Thousands



❖ From 1994 to 2004 the number of gallons of wastewater treated daily per Sewer Utility employee increased 8%.

Customer Accounts per Employee



❖ From 1994 to 2004 the number of active customer accounts per Sewer Utility employee increased 29%.

Sewer Utility Construction

Enterprise Fund

Departmental Summary:

The Utilities Construction Fund is used to account for all non-ULID sewer construction work. This fund is financed through appropriations from the Sewer Utility Operating Fund, the Facility Restricted Reserve Fund and interest bearing loans from the Sewer Utility Operating Fund.

Budget Highlights:

22nd Avenue Trunk Sewer (183rd St to 196th St) - Installation of approximately 6,250 LF of 12" and 8" sewer collectors in 22nd Avenue East between 183rd Street East and 204th Street East.

112th Street E. Sewer Extension (CRP 5494) – Installation of approximately 875 feet of 8 inch collector sewer in conjunction with the Transportation Division's road improvement project CRP 5494.

Canyon Road CRP 5404 Sanitary Sewer Improvements – Installation of parallel 8 inch collector sewers on Canyon Road in conjunction with the Transportation Division's CRP 5404 road improvement project. This project also includes sewer collectors on portions of 144th Street E. and 152nd Street E.

Chambers Creek (WWTP) Fertilizer Manufacturing Facility (formerly Sludge Drying & Dewatering Facility) – Design and construction of a system to process the current Class B Biosolids to Class A fertilizer product manufactured at the treatment plant. The final product will be licensed as a commercial fertilizer and sold for commercial uses to offset operating expenses. In addition, the product will be used for various projects on the Chambers Creek Properties or on other publicly owned properties.

Chambers Creek WWTP Headwork Modifications - Includes the installation of new screens, addition of a new grit chamber, installation of rock traps, replacement of the scum collection system and the addition of odor control for this area of the WWTP. It also includes the removal of the existing belt presses which will be abandoned as a result of the centrifuge installation in the Fertilizer Manufacturing building.

Chambers Creek WWTP North End SCADA – Project includes design, construction and installation of a Supervisory Control And Data Acquisition (SCADA) system at the north end of the Chambers Creek Regional WWTP. The system provides for improved operational control and equipment monitoring as well as maintenance predictability.

Collection System SCADA Project - Replacement of the existing proprietary radio control system installed in the mid 1980's with a more up-to-date system. The new system will still rely on the existing radio network, but will employ new base stations, radio telemetry units, and software.

Cypress Green Drainfield Rehab – This project includes the design of an existing community septic system repair and rehabilitation. The existing system is showing early signs of failure.

Energy Dissipator Rehab and Odor Control – The project includes the rehabilitation of deteriorating unlined concrete surfaces of this existing structure at the WWTP. Odor control will also be addressed for this facility.

Meridian Interceptor Phase 1 Crossings – Installation of 7 bore and jacking crossings along Meridian Street East (SR 161) from 144th Street East to 156th Street East. The project includes approximately 1,000 feet of steel casing and sanitary

collector sewers.

Miscellaneous Sewer Line Extensions – Installation of miscellaneous sewer lines in conjunction with road construction projects within the County sewer service area.

North Dock Renovation - North Dock Renovation - The existing North Dock will be renovated into a public access pier in accordance with the Chambers Creek Properties Master Site Plan. In addition to decking and piling replacements, the project will include a pedestrian underpass of for the Burlington Northern Santa Fe railroad and related safety improvements. Project includes engineering studies, design, environmental review, permitting, and feasibility studies.

Phillips Siphon Liner – Project includes the relining of an existing 36 inch concrete interceptor that has experienced a liner failure.

Phillips Siphon Vault – Construction of a new vault structure for an existing inverted siphon under a creek. The completed structure will allow for maintenance access to the siphon to perform normal maintenance activities.

Rainier Meadows Phase 2 - Includes the installation of 1,350 feet of 12 inch sanitary sewer collector from the end of the Rainier Meadows Tie-in Project (7167) to the Cobblestone Temporary Pump Station (PS) on 160th Street E. The project will remove the Cobblestone PS from service and provide for service to a small portion of unserved Rainier Meadows Division No. 4.

Reclaimed Water System - This project will provide Class "A" reclaimed water from the treatment plant for irrigation of the new golf course on the Chambers Creek Properties. The reclaimed water system will treat up to 1 million gallons a day of secondary effluent from the WWTP.

Spanaway Loop Pump Station By-Pass – We installed 5,720 feet of 72 inch Interceptor sewer pipeline to retire the existing Spanaway Loop Pump Station and provide increased sewer capacity to eastern Pierce County service areas. In 2005, we will install curbs and gutters along 112th St S between 28th Ave S and Steele St.

Tahoma Vista Community System Tie-In - Connection of an existing community septic system to the existing sanitary sewer system. It includes the abandonment of an existing community drain field and the reconstruction of a pump station that is at the end of its useful life.

Tunnel Rehabilitation Project – Provide protection of the existing unlined Chambers Creek Tunnel which has experienced hydrogen sulfide corrosion. This phase of the project includes the lining of approximately 4200 feet of the tunnel and bypass pumping of the existing flows.

WWTP Expansion - This project will provide increased wastewater treatment capacity due to the expansion and growth of the County's sewer service area. It will include the addition of new tankage for all phases of the treatment plant to increase the plant's capacity rating. The future expansion is currently being studied by the County's engineering consultant. Once the study is completed, sizing and timing of the project will be more accurately identified.

WWTP Heating Hot Water System Upgrade – Project includes an overall plant energy audit to improve the efficiency of operations and equipment processes as well as piping demolition and replacement, boiler system upgrades and other miscellaneous hot water system improvements to meet WWTP needs.

WWTP Lab Expansion - This project will expand and improve the existing WWTP laboratory to meet the existing and future testing requirements for the WWTP. A study will be conducted to verify the actual space needs which are currently identified as approximately 3,000 square feet.

Sewer Utility Construction

PROJECT SUMMARY

Sewer Utility Construction Fund #425

— Funding Sources —

Project Name	Total Project Cost	2005 Expenditures	Funding Sources	
			Fund 402 Sewer Utility Fund	Fund 403 Facilities Capital Reserve
22nd Avenue Trunk Sewer	\$ 1,900,000	\$ 150,000	\$ —	\$ 150,000
112th St E Sewer Extension	330,000	330,000	—	330,000
Canyon Road CRP 5404 Sanitary Sewer Improvements	5,534,457	610,000	—	610,000
Chambers Creek WWTP Fertilizer Manufacturing Facility	10,861,029	4,838,000	3,870,400	967,600
Chambers Creek WWTP Headworks Modifications	6,485,000	3,135,000	3,135,000	—
Chambers Creek WWTP Northend SCADA	1,441,993	766,000	766,000	—
Collection System SCADA Project	2,051,708	150,000	150,000	—
Cypress Green Drainfield Rehab	335,000	260,000	260,000	—
Energy Dissipator Rehab and Odor Control	375,000	300,000	300,000	—
Meridian Interceptor Phase 1	1,386,192	1,300,000	—	1,300,000
Miscellaneous Sewer Line Extensions	1,656,091	505,000	—	505,000
North Dock Renovation	3,330,000	30,000	30,000	—
Phillips Siphon Liner	570,000	570,000	570,000	—
Phillips Siphon Vault	611,018	310,000	310,000	—
Rainier Meadows Phase 2	800,000	75,000	—	75,000
Reclaimed Water System	1,550,000	50,000	—	50,000
Spanaway Loop Pump Station Bypass	25,153,162	150,000	—	150,000
Tahoma Vista Community System Tie-In	618,563	550,000	550,000	—
Tunnel Rehabilitation Project	14,941,613	3,545,000	3,545,000	—
WWTP 15 MGD Expansion	33,000,000	100,000	—	100,000
WWTP Heating Hot Water Systems Upgrade	680,000	320,000	320,000	—
WWTP Lab Expansion	935,000	25,000	25,000	—
Total	\$ 114,545,826	\$ 18,069,000	\$ 13,831,400	\$ 4,237,600

Sewer Utility Construction

PROJECT SUMMARY

Capital Reserve Fund # 403	2005
Project Name	Budget
22nd Ave Trunk Sewer	\$ 150,000
112th St E Sewer Extension	330,000
Canyon Road CRP 504 Sanitary Sewer Improvements	610,000
Chambers Creek WWTP Fertilzer Manufacturing Facility	967,600
Meridian Inceptor Phase 1	1,300,000
Miscellaneous Sewer Line Extensions	505,000
Rainier Meadows Phase 2	75,000
Reclaimed Water System	50,000
Spanaway Loop Pump Station Bypass	150,000
WWTP 15 MGD Expansion	100,000
SubTotal -- Contributions to Construction Fund #425	4,237,600
Advance to Water Utility	190,750
Advance to Chambers Creek Golf Fund	2,119,160
Geographical Information System Support	43,470
Total	\$ 6,590,980

Solid Waste Management Fund

Enterprise Fund

The mission of the Solid Waste Management division is to provide Pierce County citizens with efficient waste reduction, recycling, disposal and household hazardous waste management systems which protect public health and safety and the natural and human environment of Pierce County.

Departmental Summary:

The Solid Waste Management Fund finances the planning, administration, program development, permitting and enforcement for the County's solid waste management system. The fund is under the administration of the Public Works and Utilities Department. The fund supports two separate functions: the Solid Waste Division of the Public Works and Utilities Department which is primarily responsible for planning, program development and recycling, and the Waste Management Section of the Tacoma-Pierce County Health Department, which is responsible for regulatory permitting and enforcement issues. Financing is generated through an allocation of the disposal fees collected at disposal sites operated by Land Recovery, Inc.

Budget Highlights:

The Solid Waste Management Fund budget is 2.8% below the current year's budget, mostly due to a smaller allocation clean-up expenses at Pierce County Responds sites (based upon actual experience). The budget includes:

- a) Consulting and legal services for the Hidden Valley clean-up action plan/consent decree/remediation services; and for on-going post-closure activities;
- b) On going funding for the Pierce County Responds program, with the addition of a supervisory position; and
- c) Continued emphasis on public information programs for recycling, yard-waste/composting activities.

Performance Measures

- 1) Conduct 1,200 site investigations, remove and recycle 1,500 nuisance vehicles, and assist 500 property owners with the removal of small quantities of illegally dumped waste to improve the livability of Pierce County. (Goals C, D, E, F, G, I)
- 2) Boost participation in curbside recycling through the new single-stream program: double the average monthly set-out rate to 60

percent; increase the amount of material recycled per household to 40 pounds per month; provide 800 outreach opportunities to educate youth and adults as to how they can positively impact the environment by recycling and other related programs. (Goals D, G, I)

Solid Waste Management Fund

FUNDING SOURCES

	2002 Actual	2003 Actual	2004 Budget	2005 Budget	Absolute Change	Percent Change
Est Use of Begin Fund Balance	\$ —	\$ —	\$ 1,554,240	\$ 1,211,890	\$ (342,350)	(22.0) %
Intergovernmental Revenue	673,036	114,365	371,000	524,240	153,240	41.3
Charges for Services	2,227,401	2,791,325	2,650,000	2,700,000	50,000	1.9
Miscellaneous Revenue	347,163	148,552	151,500	154,500	3,000	2.0
Other Financing Sources	(3,508)	(1,474)	175,400	175,000	(400)	(0.2)
Total	\$ 3,244,092	\$ 3,052,768	\$ 4,902,140	\$ 4,765,630	\$ (136,510)	(2.8) %

PROGRAM EXPENDITURES

	2004 FTE	2005 FTE	2004 Budget	2005 Budget	Absolute Change	Percent Change
Administration and Planning	4.34	6.58	\$ 1,290,190	\$ 1,758,680	\$ 468,490	36.3 %
Recycling and Debris Cleanup	5.20	4.48	1,894,480	1,421,010	(473,470)	(25.0)
Public Information & Education	4.90	5.00	829,270	791,270	(38,000)	(4.6)
Capital Improvements	—	—	—	104,000	104,000	∞
Depreciation	—	—	203,200	206,450	3,250	1.6
Self Insurance	—	—	210,000	55,000	(155,000)	(73.8)
Landfill Post Closure	—	—	475,000	429,220	(45,780)	(9.6)
Total	14.44	16.06	\$ 4,902,140	\$ 4,765,630	\$ (136,510)	(2.8) %

STAFFING SUMMARY

	2000 FTE	2001 FTE	2002 FTE	2003 FTE	2004 FTE	2005 FTE
Dir – Public Works & Util	0.03	0.03	0.03	0.03	0.03	0.10
Deputy PW & Utilities Dir	0.03	0.03	0.03	0.03	0.05	0.10
Administrative Svcs Mgr	0.15	0.15	0.15	0.15	0.15	0.05
Special Asst to Dir PW&U	—	—	—	—	—	0.08
Solid Waste Administrator	1.00	1.00	1.00	1.00	1.00	1.00
Code Enforcement Supv	—	—	—	—	—	1.00
Planner	1.00	1.00	1.00	1.00	1.00	1.00
Admin Program Mgr	0.15	0.15	0.15	0.15	0.15	0.15
Code Enforcement Officer	—	—	2.00	2.00	2.00	2.00
Environmental Educator	3.00	5.00	4.00	4.00	4.00	4.00
Solid Waste Recyc Analyst	3.00	2.00	3.00	3.00	3.00	3.00
Accounting Assistant	0.50	0.50	0.50	0.50	0.55	0.46
Dept Info Tech Spec	—	—	—	—	0.16	0.49
Supervisory Admin Asst	0.25	0.25	0.25	0.25	0.25	0.20
Records Specialist	—	—	—	—	—	0.33
Administrative Assistant	—	0.10	0.10	0.10	0.10	0.10
Office Assistant	1.00	1.00	1.50	1.50	2.00	2.00
Solid Waste Educator	1.00	—	—	—	—	—
Total	11.11	11.21	13.71	13.71	14.44	16.06

Solid Waste Management Fund

WORKING CAPITAL SUMMARY

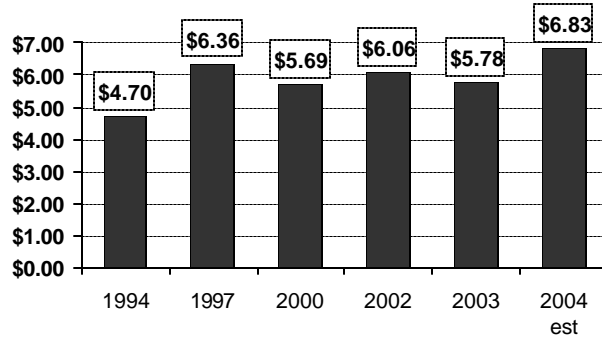
	2004 Estimate	2005 Budget
Operating Revenues		
Charges for Services	\$ 2,751,330	\$ 2,707,500
Grant Reimbursements	371,000	524,240
Subtotal	3,122,330	3,231,740
Operating Expenses		
Administration and Planning	1,303,580	1,758,680
Recycling and Debris Cleanup	1,480,900	1,421,010
Public Information and Education	730,900	791,270
Self Insurance	55,000	55,000
Depreciation	203,200	206,450
Post Closure Care	250,000	429,220
Subtotal	4,023,580	4,661,630
Net Operating Income (Loss)	(901,250)	(1,429,890)
Non-Operating Revenue (Expense)		
Interest Income	166,400	147,000
Operating Transfers	175,400	175,000
Subtotal	341,800	322,000
Net Operating Income (Loss)	(559,450)	(1,107,890)
Other Sources (Uses) of Working Capital		
Depreciation/Amortization - add back	203,200	206,450
Equipment Purchases	(20,000)	(39,000)
Other Improvements	—	(65,000)
Subtotal	183,200	102,450
Net Increase (Decrease) in Working Capital	\$ (376,250)	\$ (1,005,440)

WORKLOAD SERVICE DATA

	Unit of Measure	2000 Actual	2001 Actual	2002 Actual	2003 Actual	2004 Estimate	2005 Estimate
Solid Waste Operations							
Monitor solid waste operations	Sites	7	7	7	7	7	7
Household haz. waste cleanup	Participants	3,583	4,570	4,869	4,269	4,000	4,500
Education and Outreach							
Presentations and Workshops	Students	14,950	15,257	18,500	23,240	25,000	27,500
Fairs and Community Events	Attendees	418,000	425,000	438,000	400,000	200,000	200,000
Pierce County Responds							
Abating Small Illegal Dumpsites	Vouchers	n/a	n/a	n/a	50	200	500
Abating Nuisance Vehicles	Vehicles	n/a	n/a	n/a	n/a	1,850	1,500
Abating "Dirty Dozen" Sites	Sites	n/a	n/a	2	8	2	3

BUDGET RATIOS

Expenditures per Resident Served



❖ From 1994 to 2004 expenditures per resident served, excluding closure expenses and post-closure care, increased 45% after adjusting for inflation.

Surface Water Management Fund

Special Revenue Fund

The mission of the Water Programs Division is to be a responsive service organization that efficiently addresses flood control, water quality, and the preservation of natural drainage systems.

Departmental Summary:

The Storm Drainage and Surface Water Management Fund (SWM) was established to provide resources to plan, manage, and maintain the storm drainage and surface water runoff systems within unincorporated Pierce County drainage basin areas. The goals of the utility are to maintain water quality by preventing siltation and erosion of the County's waterways, protect water quality of lakes and aquifers, protect water quality for wildlife and fish habitat, and to minimize property loss from water damage.

The Flood Control - Rivers Division of SWM maintains the flood-control capacity of about 43 miles of channel in the downstream reaches of the Puyallup, White and Carbon Rivers. Pierce County has adopted the Puyallup River Basin Comprehensive Flood Control Management Plan that establishes maintenance and construction alternatives for the downstream reaches of the three rivers.

Budget Highlights:

The proposed 2005 Surface Water Management Fund budget total is 8.6% above 2004. The 2005 budget reflects a sizeable program of capital improvements (i.e. land purchases and construction projects) and 2 new positions devoted to land management responsibilities and maintenance contracts inspections.

In order to balance this budget we will be using approximately \$6.9 million in prior fund surplus.

Performance Measures

1) To address flood control, water quality, and the preservation of natural drainage systems: Maintain 5 miles of levee and creeks to reduce flood hazards; Acquire 2 repetitive loss properties ;Complete 4 high-priority Capital Improvement Projects; Perform 150

commercial/industrial water quality inspections; Implement 15 nonpoint source pollution control plan actions; Acquire and preserve 5 acres of floodplain habitat; Conduct 12 advisory and public meetings. (Goals B, G, H, I)

Surface Water Management Fund

FUNDING SOURCES

	2002 Actual	2003 Actual	2004 Budget	2005 Budget	Absolute Change	Percent Change
Est Use of Begin Fund Balance	\$ —	\$ —	\$ 5,316,740	\$ 6,862,330	\$ 1,545,590	29.1 %
Taxes	(354)	—	—	—	—	—
Intergovernmental Revenue	409,080	1,392,190	76,100	77,610	1,510	2.0
Charges for Services	12,819,186	13,161,073	13,061,380	13,102,940	41,560	0.3
Miscellaneous Revenue	491,531	299,283	188,000	210,000	22,000	11.7
Other Financing Sources	14,616	1,500	—	—	—	—
Total	\$ 13,734,059	\$ 14,854,046	\$ 18,642,220	\$ 20,252,880	\$ 1,610,660	8.6 %

PROGRAM EXPENDITURES

	2004 FTE	2005 FTE	2004 Budget	2005 Budget	Absolute Change	Percent Change
Drainage Ops & Maint/Admin	32.21	33.41	\$ 8,814,210	\$ 8,083,980	\$ (730,230)	(8.3) %
Water Quality/NPDES	4.96	5.84	946,890	1,086,380	139,490	14.7
Capital Improvement Program	7.13	7.69	7,351,260	9,314,480	1,963,220	26.7
Habitat Protection/Restoration	—	—	150,000	150,000	—	—
Quarry Operations	2.53	2.20	545,360	511,040	(34,320)	(6.3)
River Improvement	5.23	6.17	834,500	1,107,000	272,500	32.7
Total	52.06	55.31	\$ 18,642,220	\$ 20,252,880	\$ 1,610,660	8.6 %

Surface Water Management Fund

PROJECT SUMMARY

Drainage Basin	Project Name	Project #	Total Est Project Cost	2005 Budget
Browns & Dash Point	Beach Drive	D176	\$ 491,500	\$ 100,000
Clear/Clarks Creek	Springfield Pothole	D136	554,100	20,000
Clear/Clarks Creek	Canyon Creek Bypass	D138	1,520,800	78,000
Clear/Clarks Creek	144th St & 94th Ave E	D174	2,105,600	56,000
Clear/Clarks Creek	Woodland Creek Detention Pond	D310	2,799,300	486,000
Clear/Clarks Creek	Clear Creek Repetitive Loss	D173	150,400	150,400
Clear/Clarks Creek	144th Meridian Floodplain Acquisition	D337	900,000	900,000
Fox Island	Fox Island Etloh Drainage	D188	145,000	25,000
Gig Harbor	Crescent Creek Habitat Acquisition	D158	970,300	100,400
Gig Harbor	Artondale/Ray Nash Creek Acquisition	D171	1,826,400	301,400
Gig Harbor	McCormick Creek Culvert Replacements	D180	345,000	250,000
Key Peninsula	Rocky Creek Acquisition	D170	921,400	446,400
Mid-Nisqually	Mid-Nisqually Flood Prone Property Acquisition	D185	2,318,400	348,400
Mid-Puyallup River	Fennel Creek Wetland Enhancement	D172	1,219,400	596,400
Mid-Puyallup River	Mid-Puyallup Floodprone Property Acquisition	D177	1,589,100	200,000
Muck Creek	Muck Creek Habitat Acquisition	D161	1,748,500	205,400
Muck Creek	Christian-Muck Rd	D166	445,000	360,000
Muck Creek	288th & Muck Creek	D826	683,000	30,500
South Prairie	South Prairie Flood Prone Property Acquisition	D184	817,400	205,400
Steilacoom/Clover Creek	North Fork Clover Creek	D143	5,938,900	1,308,400
Steilacoom/Clover Creek	Spanaway Creek Fish Ladder	D825	527,500	27,500
Steilacoom/Clover Creek	Clover Creek Habitat	D157	3,025,700	276,400
Steilacoom/Clover Creek	224th St & 46th Ave Infiltration Pond	D167	1,015,200	550,000
Steilacoom/Clover Creek	136th St Pipeline	D178	283,900	140,000
Steilacoom/Clover Creek	Clover Creek Habitat Restoration	D182	1,639,500	150,000
Steilacoom/Clover Creek	Clover Creek Channel Modification	D183	477,000	450,000
Steilacoom/Clover Creek	Outfall Retrofits	D823	715,400	25,000
Steilacoom/Clover Creek	Graham Area Groundwater Study	D187	247,000	100,000
Steilacoom/Clover Creek	Oxbow Floodplain Acquisition	D824	1,235,000	25,000
Steilacoom/Clover Creek	Frederickson / 192nd St	D165	423,100	400,000
Steilacoom/Clover Creek	Brookdale Pit	D159	1,145,200	327,000
Subtotal			38,224,000	8,639,000
All	General Capital Improvement Project Support	D100	—	675,480
Total CIP			\$ 38,224,000	\$ 9,314,480

Surface Water Management Fund

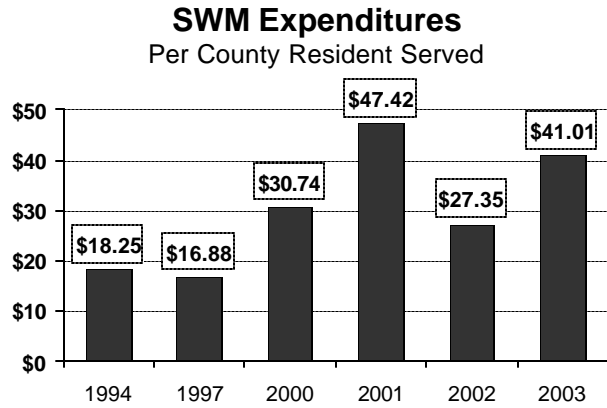
STAFFING SUMMARY

	2000 FTE	2001 FTE	2002 FTE	2003 FTE	2004 FTE	2005 FTE
Dir – Public Works & Util	0.07	0.07	0.17	0.18	0.18	0.20
Deputy PW & Utilities Dir	0.07	0.07	0.17	0.18	0.17	0.20
Water Programs Manager	0.60	0.60	0.60	0.70	0.70	0.95
Administrative Svcs Mgr	0.30	0.30	0.30	0.30	0.30	0.14
Planner	4.00	3.00	5.00	4.90	6.00	7.00
Water Program Maint Mgr	0.95	0.95	1.00	1.00	1.00	1.00
Civil Engineer	8.55	8.90	9.93	9.80	10.71	10.85
Engineering Tech	7.70	9.15	8.65	7.90	9.00	10.00
Right of Way Agent	0.35	0.35	0.35	0.35	0.35	0.61
Heavy Equipment Operator	—	—	4.00	4.00	4.00	4.00
Admin Program Mgr	0.40	0.40	0.40	0.40	0.40	0.40
GIS Specialist	—	—	—	0.80	0.92	0.93
Public Works Supv	1.00	1.00	1.00	1.00	1.00	1.00
Accounting Assistant	2.35	2.35	2.40	2.40	2.40	2.44
Environmental Educator	—	—	—	—	1.00	1.00
Water Quality Specialist	1.00	1.00	1.00	1.00	1.00	1.00
Maintenance Technician	—	—	—	6.00	6.00	6.00
Environmental Biologist	1.00	0.80	0.40	0.50	2.00	2.00
Dept Info Tech Spec	—	—	—	—	0.17	0.50
Supervisory Admin Asst	0.15	0.15	0.15	0.15	0.15	0.15
Administrative Assistant	—	0.15	0.35	0.35	0.35	0.35
Records Specialist	—	—	—	—	—	0.33
Maintenance Office Mgr	1.00	1.00	1.00	1.00	1.00	1.00
Office Assistant	2.26	2.26	2.26	2.26	2.26	2.26
Administrative Aide	1.00	1.00	0.98	0.98	1.00	1.00
River Improvement Spec	4.00	4.00	—	—	—	—
GIS Technician	0.40	—	—	—	—	—
River Technician	6.00	6.00	6.00	—	—	—
Total	43.15	43.50	46.11	46.15	52.06	55.31

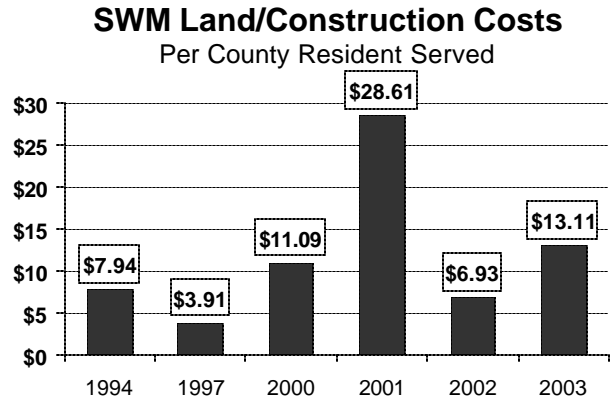
WORKLOAD SERVICE DATA

	Unit of Measure	2000 Actual	2001 Actual	2002 Actual	2003 Actual	2004 Estimate	2005 Estimate
Inquiries/responses	Contacts	156	331	151	229	250	250
Drainage plan reviews	Plans	65	70	80	65	70	80
Constructed CIP projects	Each	3	3	4	2	4	4
Drainage studies	Each	4	3	4	4	6	8
NPDES compliance	Hours	7,973	10,400	10,155	8,445	9,746	11,472
Access roads maintained	Miles	18	5	5	38	16	16
Vegetation control	Hours	835	1,304	1,853	1,466	1,000	1,000
Dike repair materials	Tons	-	4,653	145	6,183	4,800	5,000
Retention/Detention pond maint.	# of sites	49	95	146	127	110	110
CIP expenditures	Dollars	4,840,000	8,860,000	2,350,000	5,015,829	7,273,700	7,790,700
Small works projects	Each	3	9	16	10	6	6
Proj w/ on-time environ approvals	Projects	11	10	0	2	5	8
Non-point watershed plans	Actions	24	16	15	61	55	82
Projects funded by Salmon RBrd	Percent	33	50	100	19	33	33
Basin plans/characterization reports	Issued	-	-	7	3	4	3

BUDGET RATIOS



❖ From 1994 to 2003 total SWM expenditures per resident served (excluding River Improvement costs) increased 147% after adjusting for inflation.



❖ From 1994 to 2003 land and construction expenditures per resident served increased 65% after adjusting for inflation.

Surface Water Management Fund

Water Utility Fund

Enterprise Fund

Departmental Summary:

The Water Utility was created to develop the ground and surface water rights located at the County's Chambers Creek Properties. The Utility initial plan is to either develop the water rights itself or utilize a water development contract with a third party. The developed water resource would then be wholesaled to one or more water utilities within Pierce County.

Budget Highlights:

The proposed 2005 budget continues to fund the initial development of the Water Utility, which began in 1999. The initial steps include conversion of the water rights at Chambers Creek from industrial to municipal use; investigation of methods to contract out development of the water rights; development of a Water General Plan; assessment of the ground and surface waters; and development of a Water System Plan. The major components of the 2005 budget are the on-going expenses associated with these various studies, the costs for staff assigned to these activities, and interest expense. The initial funding for the development of the Water Utility is a loan from the Sewer Facilities Capital Reserve Fund.

FUNDING SOURCES

	2002 Actual	2003 Actual	2004 Budget	2005 Budget	Absolute Change	Percent Change
Other Financing Sources	\$ —	\$ —	\$ 162,830	\$ 198,750	\$ 35,920	22.1 %
Total	\$ —	\$ —	\$ 162,830	\$ 198,750	\$ 35,920	22.1 %

EXPENDITURES

	2002 Actual	2003 Actual	2004 Budget	2005 Budget	Absolute Change	Percent Change
Salaries & Wages	\$ 21,686	\$ 9,255	\$ 29,260	\$ 8,110	\$ (21,150)	(72.3) %
Personnel Benefits	(749)	2,192	5,450	1,680	(3,770)	(69.2)
Other Services & Charges	55,888	6,349	101,120	158,960	57,840	57.2
Interest	18,656	22,004	27,000	30,000	3,000	11.1
Total	\$ 95,481	\$ 39,800	\$ 162,830	\$ 198,750	\$ 35,920	22.1 %

STAFFING SUMMARY

	2000 FTE	2001 FTE	2002 FTE	2003 FTE	2004 FTE	2005 FTE
Special Asst to Dir PW&U	—	—	0.10	0.10	0.10	0.08
GIS Specialist	—	—	—	—	0.01	0.01
Water Programs Manager	0.10	0.20	0.20	0.20	0.20	—
Asst to Exec Dir of Oper	0.30	0.30	—	—	—	—
Planner	0.50	0.50	—	—	—	—
Total	0.90	1.00	0.30	0.30	0.31	0.09

Water Utility Fund
