

# 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).

## **Major Accomplishments in 2003**

The **Sewer Utility's** Chambers Creek Regional Wastewater Treatment Plant accomplished several significant projects in 2003 to further fine tuning the treatment system to insure that it operates at peak efficiency. The Bioselector Modifications Project commenced in 2003 with final completion scheduled to occur in 2004. This project entails modification of the inlet piping and metering to the basins, modification of the mixing zones by moving and/or removing concrete basin walls, replacing diffusers and many other upgrades to the existing aeration basins. Other improvements included the construction and installation of the new Ultraviolet Disinfection System which was done to eliminate the current means of disinfection - chlorine contact chambers - and the award of the contract for the Environmental Services Building Irrigation Pipeline and Pump station Project. This latter project will allow the Sewer Utility to use existing water sources on the Chambers Creek site to irrigate the substantial landscaping and ball field areas located adjacent to the building, thereby eliminating our reliance on the potable water supplied by Tacoma Water. Also, the Fire alarm system upgrade for the Wastewater Treatment Plant was completed, which included installing addressable devices throughout the plant as well as adding a new fire alarm panel in the administration building.

In 2003, the Sewer Utility Sewer Collection Division entered into a private/public venture with a developer to complete the first phase of the Rainier Meadows Community System tie in. This project was comprised of the installation of approximately 1,297 feet of 18 inch diameter gravity sewer line in 89<sup>th</sup> Avenue East (private road) from 152<sup>nd</sup> Street East to the plat of Rainier Meadows. Construction was also completed in 2003 of the combined maintenance facility for our Sewer Collections staff. This project entailed remodeling the existing maintenance building (Building "A"), building a covered parking facility (Building "B") and finally a maintenance shop (Building "C").

2003 also saw the completion of the Spanaway Loop Pump Station Bypass project. This last phase included installation of over a mile of 72 inch diameter gravity sewer line from the existing 72 inch diameter interceptor located in 112<sup>th</sup> Street West (directly in front of McCord) to the existing Spanaway Loop Pump Station located at 116<sup>th</sup> and Spanaway Loop Road. The purpose of this extension was to take off line the aging and under capacity Spanaway Loop Pump Station and provide for growth in Eastern Pierce County. Another significant sewer capital project completed in 2003 included the Canyon Road Interceptor Phase 2 project which allowed the Sewer Utility to take off line the Albertson Pump Station. This project consisted of approximately 14,500 feet of 18 inch, 15 inch, and 8 inch gravity sewer line extending in Canyon Road East from 160<sup>th</sup> Street East to 116<sup>th</sup> Street East. All totaled, the Sewer Utility, through its capital improvement program, added 21,680 lineal feet of pipe to the County's inventory resulting in an overall system increase of 71,493 lineal feet of pipe, or 13.54 miles.

Finally, the trend of system expansion through development continued in 2003. Approximately 1,877 single family units, 37 multi family units, and 25 commercial accounts were added through the efforts of the Sewer Utility's Development Engineering Section. In addition, 22,164 lineal feet of public sewer line and 27,649 lineal feet of private sewer lines were added to the County's system. During 2003 in the **Water Utility**, staff assigned to the CWSP (Coordinated

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## ***Environmental Services & Water Programs***

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Water System Plan) participated in three multi-stakeholder watershed management planning processes under the Watershed Management Act for the Nisqually, Kitsap and Chambers-Clover Creek Watershed or WRIA. The Nisqually Watershed Management Plan was completed in the fall of 2003. 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 has been discussed as a potential new source of water during the development of the Chambers-Clover Creek Watershed Plan which is expected to be completed in 2004.

Pierce County Responds in **Solid Waste** completed its second year with its focus on nuisance vehicles. Publicity for the nuisance vehicle law passed by the County Council in June resulted in a 50 percent increase in the number of calls and complaints received by the program. Staff logged more than 1,200 complaints about properties with nuisance vehicles. In December, the Division launched its Cooperative Abatement Program through which the County shares the cost of removing nuisance vehicles from private properties. The Division also continued its work on the prosecution of the "Dirty Dozen" (the twelve worst illegal dumpsites in Pierce County) with cleanup activities in progress or complete on eleven sites.

Also during 2003, Environmental Educators provided classroom presentations, adult education services, and resource loans that reached over 19,000 youth. Participation in a wide variety of community fairs and celebrations exposed more than 400,000 attendees to Solid Waste Division messages. Educational newsletters, postcards, and newspaper advertisements were placed with a potential for 1.3 million views by target audiences.

In 2003, **Water Programs** Capital Improvement Project (CIP) staff completed several significant projects including the construction of Phase 1 of the Woodland Avenue Pond and the acquisition of additional land for future expansion of the facility and wetland mitigation planting for the Western North Fork Clover Creek Pond project. Working in conjunction with the Army Corps of Engineers, staff also made significant progress toward the land acquisition, design and permitting for the 2004 construction of the Soldiers Home Setback levee. CIP engineers also participated with the Road Operations Division on the construction and enlargement of the Brookdale Pit, which established it as a regional stormwater facility. CIP Engineers also produced final contract plans and specifications for the Spanaway Airport Pipeline; completed the Channel Migration Zone Study for the Puyallup, White and Carbon Rivers; assisted with the review of the first FEMA flood plain re-mapping study in Pierce County since the original maps were produced in 1987; and, acquired land and/or conducted preliminary engineering and permit acquisition for 14 future storm drainage and/or flood hazard reduction projects.

The Division's Water Quality inspectors completed a total of 232 commercial/industrial and credit application inspections in 2003. Of those, 74% of sites met or exceeded minimal maintenance requirements as established in the Best Management Practices manual. The inspectors also processed 75 new maintenance agreements this year, and performed 51 inspections. Water Quality staff also responded to the potential of West Nile Virus arrival in the area by obtaining a state National Pollution Discharge Elimination System (NPDES) permit and coordinating with Road Operations, Parks and the Tacoma/Pierce County Health Department (TPCHD) to develop a County response plan for County facilities. Ponds and other facilities were monitored, and mosquito larvae hatched and submitted to the TPCHD for testing. Water Quality staff obtained Public Health certifications to apply larvicides, and only applied them on a very limited basis. Monitoring inspectors took over and rebuilt flow gauging stations as basin plans were completed. Currently, we have 13 gauging stations throughout the County that are now on line. Staff also coordinated county-wide macro invertebrate sampling on 25 creeks, cooperating with 2 Tribes, and numerous cities.

In 2003, the Division's Program Services staff obtained and ensured compliance with environmental permits for the Division's capital and small works projects and completed environmental permitting for the Spanaway Airport and the Woodland CIP and the Sylvia Lake small works project. Staff also organized and directed the landscape planting of W-1 Pond, which involved over 150 volunteers, and are in the final stages of obtaining permits for Sylvia Lake water quality project, the Artondale flooding and fish passage project, and the BeachDrive flooding project.

Program Services staff also participated in and supported floodplain acquisitions, acquisitions for Clover Creek, Gig Harbor, and Muck Creek basins, and negotiated and completed the Division's first conservation easement with the Cascade Land Conservancy. Program Services staff also conducted basin planning for

**Environmental Services & Water Programs**

flooding, water quality, and floodplain habitat. The final basin plan for Muck Creek Basin was completed and referred to Council along with the Gig Harbor and Clover Creek Basin Plans. Basin planning for Key Peninsula/Islands and Hylebos/Browns Point Basins was also commenced in 2003. In addition, Program Services staff, acting as the 2496 Lead Entity organization, secured \$600,000 in federal and state money to Pierce County.

2003 was also a busy year for Water Programs Maintenance Division. Significant projects completed include the following: maintenance, construction and/or improvement of 136 Storm Drainage Pond Facilities, 8 major ditch systems, 4 major creeks, 5 small works projects; 17 fencing repairs and 9 new fencing projects (ponds); 21 miles of vegetation management along the Puyallup River; repair of 4 sections of levee (Puyallup River), 2 sections on the Carbon River and 3 sections on the Nisqually River; 3.5 miles of mowing, clearing and/or grading of river access roads; demolition and disposal of 13 repetitive flood-loss homes; removal of Tansy, Hemlock and other weed control activities along 8.2 miles of the County's river system; and addressing 229 citizen drainage inquiries in the field.

<b>DEPARTMENT BUDGETS</b>				
<b>Department Name</b>	<b>2003 Budget</b>	<b>2004 Budget</b>	<b>Absolute Change</b>	<b>Percent Change</b>
Chambers Creek Golf Course	\$ —	\$ 1,326,600	\$ 1,326,600	∞ %
Real Estate Excise Tax - River	2,058,600	1,779,800	(278,800)	(13.5)
Sewer Facil Restricted Reserve	16,036,530	6,245,830	(9,790,700)	(61.1)
Sewer Revenue Bonds	6,541,670	4,981,180	(1,560,490)	(23.9)
Sewer Utility Fund	39,164,420	44,658,080	5,493,660	14.0
Sewer Utility Construction	23,479,000	18,145,000	(5,334,000)	(22.7)
Solid Waste Management Fund	5,664,540	4,902,140	(762,400)	(13.5)
Surface Water Management Fund	17,967,340	18,642,220	674,880	3.8
Water Utility Fund	426,490	162,830	(263,660)	(61.8)
<b>Total Environmental Services</b>	<b>\$ 111,338,590</b>	<b>\$ 100,843,680</b>	<b>\$(10,494,910)</b>	<b>(9.4) %</b>

***Environmental Services & Water Programs***

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# 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. 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 2004 budget for the Chambers Creek Golf Course fund totals \$1,326,600. That amount will fund golf course and clubhouse design, the public process, permitting, surveying and other technical services. Initial funding will consist of a loan from the Sewer Utility Facility Reserve fund.

**Performance Measures**

- 1) Complete final design and select a funding strategy for the Chambers Creek Properties Golf Course by December 31, 2004 which will enhance the recreational opportunities for the citizens of Pierce County and create a revenue generator for the Chambers Creek Properties. (Goal B, D, E, G)

### FUNDING SOURCES

	2001 Actual	2002 Actual	2003 Budget	2004 Budget	Absolute Change	Percent Change
Other Financing Sources	\$ —	\$ —	\$ —	\$ 1,326,600	\$ 1,326,600	∞ %
<b>Total</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ 1,326,600</b>	<b>\$ 1,326,600</b>	<b>∞ %</b>

### EXPENDITURES

	2001 Actual	2002 Actual	2003 Budget	2004 Budget	Absolute Change	Percent Change
Other Professional Services	\$ —	\$ —	\$ —	\$ 1,326,600	\$ 1,326,600	∞ %
<b>Total</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ 1,326,600</b>	<b>\$ 1,326,600</b>	<b>∞ %</b>

**Chambers Creek Golf Course**

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## Real Estate Excise Tax - River

*Special Revenue Fund*

**The mission of Water Programs is to provide comprehensive storm drainage systems which minimize economic loss and enhance water quality; to maintain the flood control capacity in the Puyallup, White and Carbon Rivers; to coordinate and facilitate planning and construction of the community's drinking water supply consistent with Pierce County's Coordinated Water System and Comprehensive Plans.**

**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 2004 R.E.E.T. - River budget is 13.5% below the 2003 level due to a reduction in land purchases planned for 2004. This budget also includes the continuation of design work for a Setback Levee near the Soldiers Home in Orting (\$600,000 State Salmon grant), which began in 2003.

### FUNDING SOURCES

	2001 Actual	2002 Actual	2003 Budget	2004 Budget	Absolute Change	Percent Change
Est Use of Begin Fund Balance	\$ —	\$ —	\$ 593,600	\$ 154,520	\$ (439,080)	(74.0) %
Taxes	1,147,502	1,112,308	1,050,000	1,200,000	150,000	14.3
Intergovernmental Revenue	4,948	101,045	415,000	425,280	10,280	2.5
<b>Total</b>	<b>\$ 1,152,450</b>	<b>\$ 1,213,353</b>	<b>\$ 2,058,600</b>	<b>\$ 1,779,800</b>	<b>\$ (278,800)</b>	<b>(13.5) %</b>

### PROGRAM EXPENDITURES

	2003 FTE	2004 FTE	2003 Budget	2004 Budget	Absolute Change	Percent Change
Administration & Tech Support	1.95	1.71	\$ 1,214,700	\$ 1,086,800	\$ (127,900)	(10.5) %
Basin Plan & Land Acquisition	—	—	843,900	693,000	(150,900)	(17.9)
<b>Total</b>	<b>1.95</b>	<b>1.71</b>	<b>\$ 2,058,600</b>	<b>\$ 1,779,800</b>	<b>\$ (278,800)</b>	<b>(13.5) %</b>

**Real Estate Excise Tax -River**

<b>STAFFING SUMMARY</b>						
	<b>1999 FTE</b>	<b>2000 FTE</b>	<b>2001 FTE</b>	<b>2002 FTE</b>	<b>2003 FTE</b>	<b>2004 FTE</b>
Deputy PW & Utilities Dir	0.01	0.01	0.01	0.01	—	0.01
Water Programs Manager	0.10	0.10	0.10	0.10	0.10	0.10
Administrative Svcs Mgr	0.05	0.05	0.05	0.05	0.05	0.05
Civil Engineer	1.90	0.95	0.60	0.92	1.05	0.94
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
Accounting Assistant	0.38	0.30	0.30	0.30	0.30	0.30
Supervisory Admin Asst	0.05	0.05	0.05	0.05	0.05	0.05
Engineering Tech	—	0.30	0.15	0.15	0.10	—
Dir – Public Works & Util	0.01	0.01	0.01	0.01	—	—
Environmental Biologist	—	—	0.20	—	—	—
Water Prog Maint Mgr	0.30	0.05	0.05	—	—	—
Office Assistant	0.09	—	—	—	—	—
<b>Total</b>	<b>3.09</b>	<b>2.02</b>	<b>1.72</b>	<b>1.79</b>	<b>1.95</b>	<b>1.71</b>

# **Sewer Revenue Bonds**

## *Enterprise Fund*

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### **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, 2003 is \$13,300,000.

#### **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, 2003 is \$1,050,000.

#### **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, 2003 is \$16,665,000.

**Sewer Revenue Bonds**

**FINANCIAL SUMMARY**

Bond Issue	2004 Revenue	2004 Expense
<b>Sewer Revenue Bonds Accounts</b>		
Operating Transfer from Sewer Assessment Account	\$ 2,230,590	\$ —
Operating Transfer from Sewer Revenue Bond Reserve Account	260,000	—
Principal	—	990,000
Interest and Amortization Expense	—	1,500,590
<b>Subtotal</b>	<b>2,490,590</b>	<b>2,490,590</b>
<b>Assessment Collection Account</b>		
Assessments Receivable	919,110	—
Interest and Penalties on Assessments	1,200,000	—
Investment Interest	80,000	—
Use of Fund Balance	31,480	—
Operating Transfer to Sewer Revenue Bond Account	—	2,230,590
<b>Subtotal</b>	<b>2,230,590</b>	<b>2,230,590</b>
<b>Sewer Revenue Bond Reserve Account</b>		
Investment Interest	110,000	—
Use of Fund Balance	150,000	—
Operating Transfer to Sewer Bond Account	—	260,000
<b>Subtotal</b>	<b>260,000</b>	<b>260,000</b>
<b>Grand Total</b>	<b>\$ 4,981,180</b>	<b>\$ 4,981,180</b>

# **Sewer Utility Fund**

## *Enterprise Fund*

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**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.**

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### **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 an 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 2004 Sewer Utility Fund budget is 14% above the current year, and reflects the following items of note.

- a) an allocation of \$13.4 million for capital improvements (transferred to the Sewer Utility Construction Fund);
- b) 7 new positions (3 sewer line maintenance, 2 treatment plant maintenance, 1 sewer billing, and 1 Civil Engineer dedicated to sewer application review);
- c) a January 1, 2004 rate increase of 8-9% (approximately \$1.6 million); and
- d) the use of \$8,343,000 in fund balance (net of depreciation expense).

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### **Performance Measures**

- 1) Protect the water quality of Pierce County by providing treatment and disinfection to 100% of the wastewater received at the Chambers Creek Regional Wastewater Treatment Plant to the level required by the Plant's National Discharge Pollution Elimination System permit. (Goal B, D, E, G)

**Sewer Utility Fund**

**FUNDING SOURCES**

	2001 Actual	2002 Actual	2003 Budget	2004 Budget	Absolute Change	Percent Change
Est Use of Begin Fund Balance	\$ —	\$ —	\$ 15,883,070	\$ 20,092,930	\$ 4,209,860	26.5 %
Intergovernmental Revenue	491,707	380,284	—	—	—	—
Charges for Services	21,117,055	21,909,781	22,660,300	24,395,150	1,734,850	7.7
Miscellaneous Revenue	1,118,371	789,590	470,000	90,000	(380,000)	(80.9)
Contributed Capital	94,353	74,254	134,000	80,000	(54,000)	(40.3)
Other Financing Sources	(598,573)	(1,237,646)	17,050	—	(17,050)	(100.0)
<b>Total</b>	<b>\$ 22,222,913</b>	<b>\$ 21,916,263</b>	<b>\$ 39,164,420</b>	<b>\$ 44,658,080</b>	<b>\$ 5,493,660</b>	<b>14.0 %</b>

**PROGRAM EXPENDITURES**

	2003 FTE	2004 FTE	2003 Budget	2004 Budget	Absolute Change	Percent Change
Collection System Maintenance	34.00	37.00	\$ 4,225,310	\$ 4,380,530	\$ 155,220	3.7 %
Wastewater Treatment O & M	37.20	38.40	7,286,330	7,660,510	374,180	5.1
Admin, Engineering, & Planning	33.46	36.19	7,053,870	6,939,760	(114,110)	(1.6)
Depreciation/Depletion	—	—	11,023,220	11,748,280	725,060	6.6
Debt Service	—	—	1,337,490	—	(1,337,490)	(100.0)
Capital Improvement Program	—	—	8,238,200	13,929,000	5,690,800	69.1
<b>Total</b>	<b>104.66</b>	<b>111.59</b>	<b>\$ 39,164,420</b>	<b>\$ 44,658,080</b>	<b>\$ 5,493,660</b>	<b>14.0 %</b>

**WORKING CAPITAL SUMMARY**

	2003 Estimate	2004 Budget
<b>Operating Revenues</b>		
Charges for Services	\$ 22,316,180	\$ 24,395,150
Grant Reimbursements	59,710	—
<b>Subtotal</b>	<b>22,375,890</b>	<b>24,395,150</b>
<b>Operating Expenses</b>		
Administration and Planning	7,003,210	6,938,560
Collection Systems Maintenance	4,140,020	4,380,530
Wastewater Treatment O & M	6,753,520	7,660,510
Depreciation/Depletion	11,023,220	11,748,280
<b>Subtotal</b>	<b>28,919,970</b>	<b>30,727,880</b>
<b>Net Operating Income (Loss)</b>	<b>(6,544,080)</b>	<b>(6,332,730)</b>
<b>Non-Operating Revenue (Expense)</b>		
Interest Income	373,360	80,000
Miscellaneous	370,000	10,000
Operating Transfers - Debt Service	(1,337,490)	—
<b>Subtotal</b>	<b>(594,130)</b>	<b>90,000</b>
<b>Net Operating Income (Loss)</b>	<b>(7,138,210)</b>	<b>(6,242,730)</b>
<b>Other Sources (Uses) of Working Capital</b>		
Depreciation/Depletion - add back	11,023,220	11,748,280
Equipment Purchases	(333,250)	(499,000)
Construction/Asset Acquisition	(4,771,560)	(13,430,000)
Contributed Capital	2,411,000	80,000
<b>Subtotal</b>	<b>8,329,410</b>	<b>(2,100,720)</b>
<b>Net Increase (Decrease) in Working Capital</b>	<b>\$ 1,191,200</b>	<b>\$ (8,343,450)</b>

**Sewer Utility Fund**

<b>STAFFING SUMMARY</b>						
	<b>1999 FTE</b>	<b>2000 FTE</b>	<b>2001 FTE</b>	<b>2002 FTE</b>	<b>2003 FTE</b>	<b>2004 FTE</b>
Dir – Public Works & Util	0.33	0.33	0.33	0.23	0.23	0.23
Deputy PW & Utilities Dir	0.33	0.33	0.33	0.23	0.23	0.21
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	0.50
Special Asst to Dir of PW & U	—	—	0.70	0.90	0.90	0.90
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
Civil Engineer	9.00	9.00	9.00	9.00	9.00	10.00
WW Maint Spec Mech	2.00	3.00	3.00	5.00	5.00	5.00
WW Asst Coll System Mgr	—	—	—	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
Engineering Tech	7.60	9.00	10.70	11.00	11.00	11.00
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	0.50
Admin Program Mgr	0.40	0.40	0.40	0.40	0.40	0.40
Planner	2.00	1.50	1.50	1.00	1.00	1.00
WWTP Lab Analyst	1.00	1.00	1.00	1.00	1.00	1.00
Accounting Assistant	3.85	3.85	3.85	3.80	4.80	5.75
WWTP Operator	11.00	10.00	10.00	10.00	10.00	10.00
WW Coll Maint Tech Lead	—	3.00	3.00	3.00	3.00	3.00
WW Maint Spec Elec	3.00	3.00	2.00	2.00	2.00	2.00
WW Maint Spec Inst	3.00	3.00	4.00	4.00	4.00	4.00
Supervisory Admin Asst	0.55	0.55	0.55	0.55	0.55	0.55
WWTP Laboratory Tech	1.00	1.00	1.00	1.00	1.00	1.00
WWTP Pretreatment Tech	—	—	—	3.00	3.00	3.00
WW Maint Tech	20.00	21.00	25.00	24.00	24.00	24.00
Administrative Asst	—	1.00	0.75	0.55	0.55	0.55
Office Assistant	9.00	9.00	9.00	9.00	8.00	8.00
WW Inventory Expeditor	1.00	1.00	1.00	1.00	1.00	1.00
WW Maint Worker	5.00	4.00	—	—	—	3.00
WWTP Utility Worker	1.00	1.00	1.00	2.00	2.00	4.00
WW Asst Const Proj Mgr	1.00	1.00	1.00	—	—	—
WWTP Lab/Pretmt Tech	3.00	3.00	3.00	—	—	—
Exec Dir - Operations	0.50	0.50	—	—	—	—
Executive Secretary	0.50	0.50	—	—	—	—
Asst to Exec Dir of Oper	1.00	0.70	—	—	—	—
WW Maint Tech Lead	4.00	1.00	—	—	—	—
GIS Technician	—	0.60	—	—	—	—
<b>Total</b>	<b>101.06</b>	<b>103.26</b>	<b>102.11</b>	<b>104.66</b>	<b>104.66</b>	<b>111.59</b>

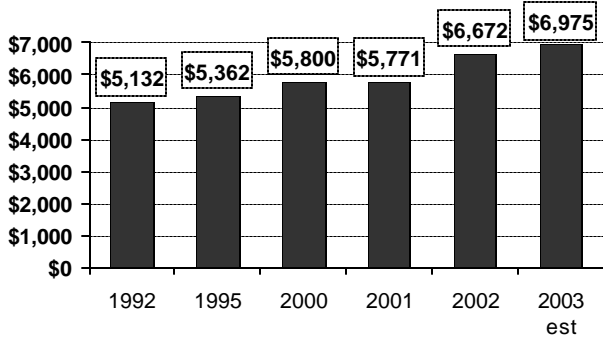
**Sewer Utility Fund**

**WORKLOAD SERVICE DATA**

	Unit of Measure	1999 Actual	2000 Actual	2001 Actual	2002 Actual	2003 Estimate	2004 Estimate
Laboratory analysis	Tests	25,115	26,145	28,806	27,219	25,000	25,000
Pretreatment program	Reviews	1,553	2,301	1,425	1,676	1,500	1,500
Accidental spill prev program	Reviews	572	731	492	336	500	500
Residual hauling/acceptance	Wet tons	10,588	12,648	14,359	12,893	13,500	13,500
Residual dryness	Percentage	16.4	15.7	15.2	15.8	15.6	15.5
Avg daily wastewater flow rec.	ADF/MGD	16.3	14.4	15.2	16.4	16.3	16.5
Preventative maintenance	Orders	5,268	4,860	4,787	6,089	6,186	7,500
Pump station maintenance visits	Visits	3,837	3,610	4,340	4,574	4,000	4,200
Auxiliary power system maint.	Visits	1,087	1,055	1,267	1,173	1,100	1,100
Residential grinder pump	Visits	1,138	1,364	1,330	1,180	1,200	1,100
Sewer line cleaning	Linear Ft	653,052	668,322	662,595	680,754	650,000	675,000
Sewer utilities locates	Visits	16,776	16,002	12,559	11,563	14,000	12,000
Smoke testing	Linear Ft	337,600	346,480	357,083	371,430	320,000	340,000
Sewer manhole	Repairs	1,135	1,025	581	517	600	600
Inflow and Infiltration	Repairs	338	405	427	333	350	340
Television inspection	Linear Ft	276,914	236,346	241,606	246,249	225,000	230,000
Emergency pump station calls	Incidents	100	81	114	90	135	131
Sewer line blockages	Incidents	15	25	10	17	29	30
Active billing accounts	Accounts	38,108	40,378	42,334	43,934	45,950	47,502
Permits, reviews and inspections	Cases	4,849	4,211	4,997	5,448	5,228	5,300
Collector pipe	Miles	531	537	576	574	590	600

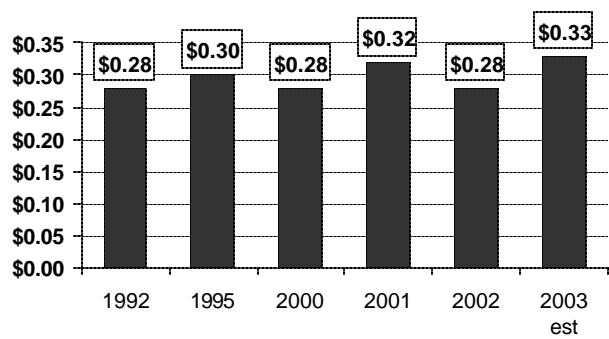
**BUDGET RATIOS**

**Maintenance Cost per Mile of Pipe**



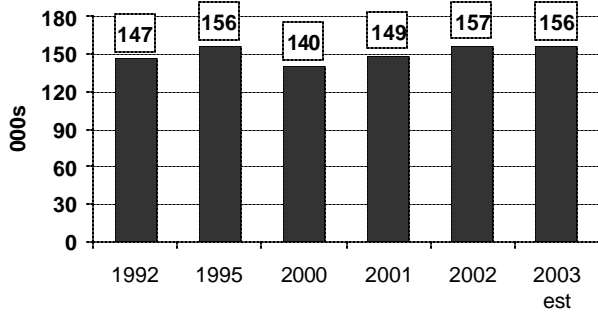
❖ From 1992 to 2003 the maintenance cost per mile of collection pipe increased 34% after adjusting for inflation.

**Treatment Cost per Daily Gallon**



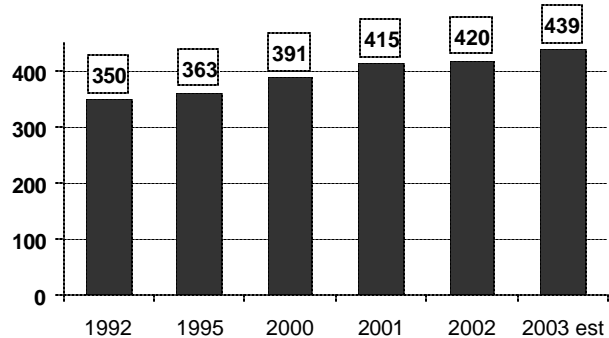
❖ From 1992 to 2003 the treatment cost per daily gallon of wastewater increased 18% after adjusting for inflation.

**Wastewater Treated per Employee**  
Gallons in Thousands



❖ From 1992 to 2003 the number of gallons of wastewater treated daily per Sewer Utility employee increased 6%.

**Customer Accounts per Employee**



❖ From 1992 to 2003 the number of active customer accounts per Sewer Utility employee increased 25%.

***Sewer Utility Fund***

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# Sewer Utility Construction

## Enterprise Fund

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### 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:

**22<sup>nd</sup> Avenue Trunk Sewer (183<sup>rd</sup> St to 196<sup>th</sup> St)** - Installation of approximately 6,250 LF of 12" and 8" sewer main in 22<sup>nd</sup> Avenue from south of 183<sup>rd</sup> Street to 204<sup>th</sup> Street.

**Chambers Creek Waste Water Treatment Plant (WWTP) Sludge Drying & Dewatering Facility** - Design and construction of a system to process the current Class B Biosolids to Class A Biosolids. The Class A Biosolids are a less restrictive product that allow for direct land application to the Chambers Creek Properties and eventual reclamation of the site. This product may be utilized offsite as well if there is a market demand for it.

**Chambers Creek WWTP Headwork Modifications** - Includes air quality improvements, new grit tank and headwork's building modifications. A redesign of existing plans must be performed to include criteria for the inclusion of the new step screens. Includes 3 additional step screens and rock traps for capacity additions.

**Chambers Creek WWTP Bioselector Modifications** - The project will modify the inlet piping and metering to the basins, modify the zones in the Bioselectors by moving and/or removing walls, modify the recycle pumping systems in each tank, replace the fine area diffusers in the anoxic zones with mechanical mixers, and improve air distribution piping in the oxic zones.

**Chambers Creek WWTP North End SCADA** - Project includes design, construction and implementation of a Supervisory Control and Data Acquisition system for the plant's north end, to improve operations and plant efficiency.

**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** - Engineer and design septic system repair/rehab. Existing system is showing early sign of failure.

**Energy Dissipator Rehab and Odor Control** - Rehab deteriorating unlined concrete surfaces of this structure and provide an adequate odor control system for this facility.

**Fredrickson Trunk Sewer** - Installation of approximately 7,000 Line feet of 18", 15" and 8" sewer main in 176<sup>th</sup> Street from 72<sup>nd</sup> Avenue East to 86<sup>th</sup> Avenue East.

**Meridian Interceptor Phase 1** - Installation of approximately 2,650 feet of 15" and 12" diameter gravity sewer and 1,320 feet of 8" gravity sewer along Meridian Street East (SR 161) from 144<sup>th</sup> Street East to 156<sup>th</sup> Street East.

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

**Phillips Siphon Vault** - Excavation of existing valve vault area. Includes pouring a new flooring and foundation and construction of a new building enclosure

## ***Sewer Utility Construction***

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**Rainier Meadows Community System TIE-In** – Installation of approximately 1,800 feet of 18” diameter gravity sewer line in 89<sup>th</sup> Avenue East (private road) from 152<sup>nd</sup> Street East to the existing pump station in the Rainier Meadows subdivision and 1,000 feet of 12” diameter gravity sewer line from the pump station to 160<sup>th</sup> Street E.

**Tahoma Vista Community System Tie-In** – Connection of existing community septic system to permanent sewer lines.

**Tunnel Rehabilitation Project** – Coat portions of the Chambers Creek Tunnel and complete construction of access portals.

**WWTP Clarifier Sweeps** – Supply and install cleaning brush assembly mounted to rotating rake arm to remove algae growth. Saves labor and reduces cleaning.

**WWTP Covers for Unit Subs** – Supply and install covers for unit subs to prolong service life. Allow service and maintenance during inclement weather.

**WWTP UV Gates** – Supply and installation. Allows isolation of obsolete CL2 disinfection tank. Saves labor, reduces cleaning and provides temporary hydraulic storage.

**WWTP UV Structure Walls** – Design and build walls to 3 sides of UV, protect cabinets from weather and dust.

**WWTP Paving for Back Gate and Employee Parking** – Areas for paving include an area out the back gate to tie into existing paved road in gravel pit area and an area south of maintenance shop for employee parking

**Sewer Utility Construction**

**PROJECT SUMMARY**

**Sewer Utility Construction Fund #425**

— **Funding Sources** —

Project Name	Total Project Cost	2004 Expenditures	Funding Sources	
			Fund 402 Sewer Utility Fund	Fund 403 Facilities Capital Reserve
22nd Ave Trunk Sewer	\$ 1,900,000	\$ 50,000	\$ —	\$ 50,000
Chambers Crk WWTP Sludge Drying & Dewatering Facility	11,421,562	10,900,000	8,750,000	2,150,000
Chambers Creek WWTP Headworks Modifications	5,390,000	480,000	480,000	—
Chambers Creek WWTP Bioselector Modifications	2,784,592	500,000	500,000	—
Chambers Creek WWTP - Northend SCADA	1,322,905	560,000	560,000	—
Collection System SCADA Project	1,924,706	150,000	150,000	—
Cypress Green Drainfield Rehab	335,000	75,000	75,000	—
Energy Dissipator Rehab & Odor Control	375,000	75,000	75,000	—
Frederickson Trunk Sewer	2,328,743	2,300,000	—	2,300,000
Meridian Interceptor Phase 1	1,320,991	65,000	—	65,000
Miscellaneous Sewer Line Extensions	740,991	150,000	—	150,000
Phillips Siphon Vault	603,957	485,000	485,000	—
Rainier Meadows Community System Tie-In	1,155,000	555,000	555,000	—
Tahoma Vista Community System Tie-In	618,563	50,000	50,000	—
Tunnel Rehabilitation Project	5,144,308	1,220,000	1,220,000	—
WWTP Clarifier Sweeps	80,000	80,000	80,000	—
WWTP Covers for Unit Subs	125,000	125,000	125,000	—
WWTP UV Gates	80,000	80,000	80,000	—
WWTP UV Structure Walls	80,000	80,000	80,000	—
WWTP Paving for Back Gate & Employee Parking	165,000	165,000	165,000	—
<b>Total</b>	<b>\$ 37,896,318</b>	<b>\$ 18,145,000</b>	<b>\$ 13,430,000</b>	<b>\$ 4,715,000</b>

**PROJECT SUMMARY**

**Capital Reserve Fund # 403**

**2004**

Project Name	Budget
22nd Ave Trunk Sewer	\$ 50,000
Chambers Creek Sludge Drying & Dewatering Facility	2,150,000
Frederickson Trunk Sewer	2,300,000
Meridian Interceptor Phase 1	65,000
Miscellaneous Sewer Line Extensions	150,000
<b>SubTotal -- Contributions to Construction Fund #425</b>	<b>4,715,000</b>
Advance to Water Utility	162,830
Advance to Chambers Creek Golf Course	1,326,000
Geographical Information System Support	42,000
<b>Total</b>	<b>\$ 6,245,830</b>

***Sewer Utility Construction***

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# **Solid Waste Management Fund**

## *Enterprise Fund*

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**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.**

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### **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 13.5% below the current year's budget, due to smaller allocations for landfill post-closure work, public information consulting, self-insurance expenses and household hazardous waste collection (start-up costs). The budget does include:

- 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 50% Office Assistant; and
- c) Continued emphasis on public information programs for recycling, yard-waste/composting activities.

The budget uses \$1,554,000 in fund balance to support the proposed activities in fiscal 2004.

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### **Performance Measures**

- 1) Remove and recycle 1,500 nuisance vehicles and assist 500 private property owners with the removal of small quantities of illegal dump waste by December 31, 2004 in an effort to help property owners improve the livability of Pierce County. (Goal D, E, F, G, I)
- 2) During 2004, provide environmental education staff and/ or resources for 800 classroom, youth programs, or community/civic groups in order to educate adults and students as to how they can positively impact the environment by recycling and protecting water resources. (Goal D, G, I)

**Solid Waste Management Fund**

**FUNDING SOURCES**

	2001 Actual	2002 Actual	2003 Budget	2004 Budget	Absolute Change	Percent Change
Est Use of Begin Fund Balance	\$ —	\$ —	\$ 2,126,140	\$ 1,554,240	\$ (571,900)	(26.9) %
Intergovernmental Revenue	282,840	673,036	368,000	371,000	3,000	0.8
Charges for Services	2,307,545	2,227,401	2,823,000	2,650,000	(173,000)	(6.1)
Miscellaneous Revenue	655,176	347,163	347,400	151,500	(195,900)	(56.4)
Contributed Capital	48,393	—	—	—	—	—
Other Financing Sources	—	(3,508)	—	175,400	175,400	∞
<b>Total</b>	<b>\$ 3,293,954</b>	<b>\$ 3,244,092</b>	<b>\$ 5,664,540</b>	<b>\$ 4,902,140</b>	<b>\$ (762,400)</b>	<b>(13.5) %</b>

**PROGRAM EXPENDITURES**

	2003 FTE	2004 FTE	2003 Budget	2004 Budget	Absolute Change	Percent Change
Administration and Planning	4.01	4.18	\$ 1,330,430	\$ 1,290,190	\$ (40,240)	(3.0) %
Recycling and Debris Cleanup	4.20	5.20	1,836,310	1,894,480	58,170	3.2
Public Information & Education	5.50	4.90	940,710	829,270	(111,440)	(11.8)
Capital Improvements	—	—	162,000	—	(162,000)	(100.0)
Depreciation	—	—	195,090	203,200	8,110	4.2
Self Insurance	—	—	500,000	210,000	(290,000)	(58.0)
Landfill Post Closure	—	—	700,000	475,000	(225,000)	(32.1)
<b>Total</b>	<b>13.71</b>	<b>14.28</b>	<b>\$ 5,664,540</b>	<b>\$ 4,902,140</b>	<b>\$ (762,400)</b>	<b>(13.5) %</b>

**STAFFING SUMMARY**

	1999 FTE	2000 FTE	2001 FTE	2002 FTE	2003 FTE	2004 FTE
Dir – Public Works & Util	0.03	0.03	0.03	0.03	0.03	0.03
Deputy PW & Utilities Dir	0.03	0.03	0.03	0.03	0.03	0.05
Administrative Svcs Mgr	0.15	0.15	0.15	0.15	0.15	0.15
Solid Waste Administrator	1.00	1.00	1.00	1.00	1.00	1.00
Planner	1.50	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
Environmental Educator	3.00	3.00	5.00	4.00	4.00	4.00
Solid Waste Recyc Analyst	3.00	3.00	2.00	3.00	3.00	3.00
Accounting Assistant	0.50	0.50	0.50	0.50	0.50	0.55
Supervisory Admin Asst	0.25	0.25	0.25	0.25	0.25	0.25
Administrative Assistant	—	—	0.10	0.10	0.10	0.10
Office Assistant	1.00	1.00	1.00	1.50	1.50	2.00
Solid Waste Educator	1.00	1.00	—	—	—	—
Solid Waste Manager	1.00	—	—	—	—	—
<b>Total</b>	<b>12.61</b>	<b>11.11</b>	<b>11.21</b>	<b>13.71</b>	<b>13.71</b>	<b>14.28</b>

**Solid Waste Management Fund**

**WORKING CAPITAL SUMMARY**

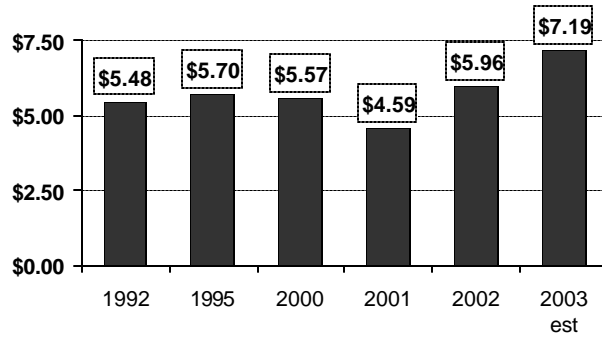
	2003 Estimate	2004 Budget
<b>Operating Revenues</b>		
Charges for Services	\$ 2,830,380	\$ 2,651,500
Grant Reimbursements	368,000	371,000
<b>Subtotal</b>	<b>3,198,380</b>	<b>3,022,500</b>
<b>Operating Expenses</b>		
Administration and Planning	1,316,850	1,270,190
Recycling and Debris Cleanup	1,462,640	1,894,480
Public Information and Education	738,850	829,270
Self Insurance	160,000	210,000
Depreciation	195,090	203,200
Post Closure Care	475,000	475,000
<b>Subtotal</b>	<b>4,348,430</b>	<b>4,882,140</b>
<b>Net Operating Income (Loss)</b>	<b>(1,150,050)</b>	<b>(1,859,640)</b>
<b>Non-Operating Revenue (Expense)</b>		
Interest Income	182,970	150,000
Operating Transfers	—	175,400
<b>Subtotal</b>	<b>182,970</b>	<b>325,400</b>
<b>Net Operating Income (Loss)</b>	<b>(967,080)</b>	<b>(1,534,240)</b>
<b>Other Sources (Uses) of Working Capital</b>		
Depreciation/Amortization - add back	195,090	203,200
Equipment Purchases	—	(20,000)
Other Improvements	(162,000)	—
<b>Subtotal</b>	<b>33,090</b>	<b>183,200</b>
<b>Net Increase (Decrease) in Working Capital</b>	<b>\$ (933,990)</b>	<b>\$ (1,351,040)</b>

**WORKLOAD SERVICE DATA**

	Unit of Measure	1999 Actual	2000 Actual	2001 Actual	2002 Actual	2003 Estimate	2004 Estimate
<b>Solid Waste Operations</b>							
Monitor solid waste operations	Sites	6	7	7	7	7	7
Household haz. waste cleanup	Participants	3,007	3,583	4,570	4,869	4,800	5,000
<b>Education and Outreach</b>							
Presentations and Workshops	Students	14,100	14,950	15,257	18,500	18,250	16,000
Fairs and Community Events	Attendees	401,300	418,000	425,000	438,000	440,000	400,000
<b>Pierce County Responds</b>							
Abating Small Illegal Dumpsites	Vouchers	n/a	n/a	n/a	n/a	150	500
Abating Nuisance Vehicles	Vehicles	n/a	n/a	n/a	n/a	375	1,500
Abating "Dirty Dozen" Sites	Sites	n/a	n/a	n/a	2	8	12

**BUDGET RATIOS**

**Expenditures per Resident Served**



- ❖ From 1992 to 2003 expenditures per resident served, excluding closure expenses and post-closure care, increased 31% after adjusting for inflation.

# Surface Water Management Fund

## Special Revenue Fund

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**The mission of Water Programs is to provide comprehensive storm drainage systems which minimize economic loss and enhance water quality; to maintain the flood control capacity in the Puyallup, White and Carbon Rivers; to coordinate and facilitate planning and construction of the community's drinking water supply consistent with Pierce County's Coordinated Water System and Comprehensive Plans.**

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### 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 2004 Surface Water Management Fund budget total is 3.8% above 2003. The 2004 budget reflects a sizeable program of capital improvements (i.e. land purchases and construction projects) and 5 new positions devoted to: wetlands mitigation, water quality, watershed coordination/public information, new basin plan implementation, and L.I.D. flood zone issues.

Surface Water Management Fees have been reduced by \$5.00 per parcel. In order to balance this budget we will be using approximately \$5.3 million in prior fund surplus.

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### Performance Measures

- 1) Complete two and initiate one watershed basin plan by December 31, 2004 to provide guidance for the construction of stormwater infrastructure needs within the basins. (Goal F, H, I)
- 2) Acquire or construct \$7.5 million in high priority storm drainage capital facilities, flood prone property, and wetland banking areas by December 31, 2004 in an effort to improve stormwater infrastructure, enhance habitat and reduce stormwater or flood related property damages claims. (Goal H, I)

**Surface Water Management Fund**

**FUNDING SOURCES**

	2001 Actual	2002 Actual	2003 Budget	2004 Budget	Absolute Change	Percent Change
Est Use of Begin Fund Balance	\$ —	\$ —	\$ 3,948,940	\$ 5,316,740	\$ 1,367,800	34.6 %
Taxes	(8,754)	(354)	—	—	—	—
Intergovernmental Revenue	1,363,307	409,080	149,400	76,100	(73,300)	(49.1)
Charges for Services	12,572,696	12,819,186	13,369,000	13,061,380	(307,620)	(2.3)
Miscellaneous Revenue	772,858	491,531	500,000	188,000	(312,000)	(62.4)
Other Financing Sources	13,210	14,616	—	—	—	—
<b>Total</b>	<b>\$ 14,713,317</b>	<b>\$ 13,734,059</b>	<b>\$ 17,967,340</b>	<b>\$ 18,642,220</b>	<b>\$ 674,880</b>	<b>3.8 %</b>

**PROGRAM EXPENDITURES**

	2003 FTE	2004 FTE	2003 Budget	2004 Budget	Absolute Change	Percent Change
Drainage Ops & Maint/Admin	27.59	31.92	\$ 9,871,290	\$ 8,814,210	\$ (1,057,080)	(10.7) %
Water Quality/NPDES	3.83	5.08	842,990	946,890	103,900	12.3
Capital Improvement Program	6.19	7.13	5,515,010	7,351,260	1,836,250	33.3
Habitat Protection/Restoration	0.10	—	158,970	150,000	(8,970)	(5.6)
Quarry Operations	2.75	2.53	668,690	545,360	(123,330)	(18.4)
River Improvement	5.69	5.23	910,390	834,500	(75,890)	(8.3)
<b>Total</b>	<b>46.15</b>	<b>51.89</b>	<b>\$ 17,967,340</b>	<b>\$ 18,642,220</b>	<b>\$ 674,880</b>	<b>3.8 %</b>

**Surface Water Management Fund**

**PROJECT SUMMARY**

<b>Drainage Basin</b>	<b>Project Name</b>	<b>Project #</b>	<b>Total Est Project Cost</b>	<b>2004 Budget</b>
Browns & Dash Point	Beach Drive Outfall	D176	\$ 194,000	\$ 150,000
Clear/Clarks Creek	Springfield Pothole	D136	588,200	7,200
Clear/Clarks Creek	Canyon Creek Bypass	D138	1,452,900	38,500
Clear/Clarks Creek	144th St & 94th Ave E	D174	2,166,000	46,000
Fox Island	Fox Island - 7th Ave	D169	125,000	4,000
Gig Harbor	Crescent Creek Habitat Acquisition	D158	1,266,500	274,500
Gig Harbor	Wollochet Creek Habitat Acquisition	D164	325,000	274,500
Gig Harbor	Artondale/Ray Nash Creek Acquisition	D171	325,000	2,700
Gig Harbor	Artondale Creek Culvert Replacements	D175	236,700	180,000
Gig Harbor	McCormick Creek Culvert Replacements	D180	115,000	5,500
Gig Harbor	Madrona Pond Reconstruction	D181	135,600	125,500
Gig Harbor	Sylvia Lake Sediment Pond	D611	421,500	283,500
Key Peninsula	Rocky Creek Acquisition	D170	925,000	2,000
Mid-Nisqually	Mid-Nisqually Flood Prone Property Acquisition	D185	1,185,000	175,000
Mid-Puyallup River	Fennel Creek Wetland Enhancement	D172	1,240,000	23,000
Mid-Puyallup River	Mid-Puyallup Floodprone Property Acquisition	D177	1,142,100	528,800
Muck Creek	Muck Creek Habitat Acquisition	D161	1,355,000	435,000
Muck Creek	Christian-Muck Rd	D166	393,500	15,000
South Prairie	South Prairie Flood Prone Property Acquisition	D184	712,000	202,000
Steilacoom/Clover Creek	North Fork Clover Creek	D143	6,280,000	490,800
Steilacoom/Clover Creek	Spanaway/Maury Creek Habitat	D156	6,250,000	485,000
Steilacoom/Clover Creek	Clover Creek Habitat	D157	2,000,000	684,000
Steilacoom/Clover Creek	224th St & 46th Ave Infiltration Pond	D167	835,000	400,000
Steilacoom/Clover Creek	136th St Pipeline	D178	185,000	25,000
Steilacoom/Clover Creek	Clover Creek Habitat Restoration	D182	1,734,500	280,000
Steilacoom/Clover Creek	Clover Creek Channel Modification	D183	478,000	5,000
Steilacoom/Clover Creek	224th & Meridian Infiltration Pond	D186	1,915,000	1,200,000
Steilacoom/Clover Creek	Graham Area Groundwater Study	D187	245,000	122,000
Steilacoom/Clover Creek	128th Street East and 14th Avenue East	D327	4,689,100	130,000
Steilacoom/Clover Creek	FCAAP Repetitive Loss Acquisition	D501	1,604,600	118,000
<b>Subtotal</b>			<b>40,520,200</b>	<b>6,712,500</b>
All	General Capital Improvement Project Support	D100	—	638,760
<b>Total CIP</b>			<b>\$ 40,520,200</b>	<b>\$ 7,351,260</b>

**Surface Water Management Fund**

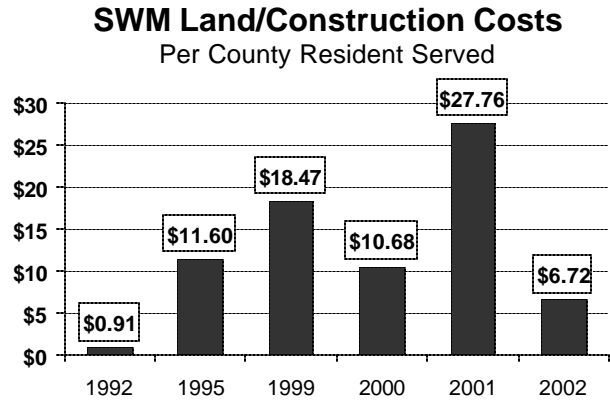
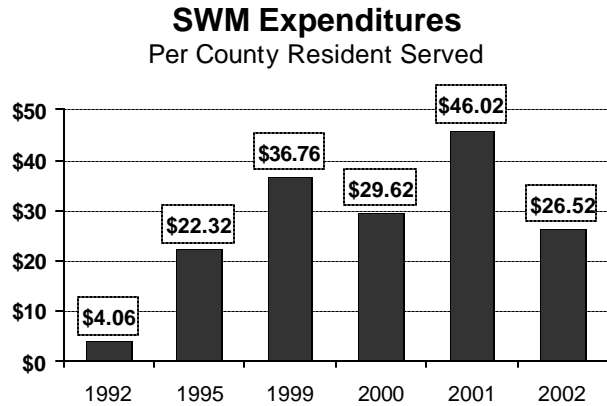
**STAFFING SUMMARY**

	1999 FTE	2000 FTE	2001 FTE	2002 FTE	2003 FTE	2004 FTE
Dir – Public Works & Util	0.07	0.07	0.07	0.17	0.18	0.18
Deputy PW & Utilities Dir	0.07	0.07	0.07	0.17	0.18	0.17
Water Programs Manager	0.30	0.60	0.60	0.60	0.70	0.70
Administrative Svcs Mgr	0.30	0.30	0.30	0.30	0.30	0.30
Planner	3.50	4.00	3.00	5.00	4.90	6.00
Water Prog Maint Mgr	0.70	0.95	0.95	1.00	1.00	1.00
Civil Engineer	6.10	8.55	8.90	9.93	9.80	10.71
Engineering Tech	6.40	7.70	9.15	8.65	7.90	9.00
Right of Way Agent	0.35	0.35	0.35	0.35	0.35	0.35
Heavy Equipment Operator	—	—	—	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
Public Works Supv	1.00	1.00	1.00	1.00	1.00	1.00
Accounting Assistant	2.27	2.35	2.35	2.40	2.40	2.40
Environmental Educator	—	—	—	—	—	1.00
Water Quality Specialist	1.00	1.00	1.00	1.00	1.00	1.00
Environmental Biologist	—	1.00	0.80	0.40	0.50	2.00
Maintenance Technician	—	—	—	—	6.00	6.00
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
Maintenance Office Mgr	1.00	1.00	1.00	1.00	1.00	1.00
Office Assistant	2.17	2.26	2.26	2.26	2.26	2.26
Administrative Aide	1.00	1.00	1.00	0.98	0.98	1.00
River Improvement Spec	4.00	4.00	4.00	—	—	—
GIS Technician	—	0.40	—	—	—	—
River Technician	5.00	6.00	6.00	6.00	—	—
<b>Total</b>	<b>35.78</b>	<b>43.15</b>	<b>43.50</b>	<b>46.11</b>	<b>46.15</b>	<b>51.89</b>

**WORKLOAD SERVICE DATA**

	Unit of Measure	1999 Actual	2000 Actual	2001 Actual	2002 Actual	2003 Estimate	2004 Estimate
Inquiries/responses	Contacts	500	156	331	151	180	220
Drainage plan reviews	Plans	60	65	70	80	60	60
Constructed CIP projects	Each	3	3	3	4	2	4
Drainage studies	Each	4	4	3	4	5	5
NPDES compliance	Hours	5,576	7,973	10,400	10,155	10,600	12,000
Access roads maintained	Miles	0	18	5	5	5	5
Vegetation control	Hours	172	835	1,304	1,853	2,000	2,300
Dike repair materials	Tons	2,796	0	4,653	145	500	1,000
Retention/Detention pond maint.	# of sites	81	49	95	146	95	100
CIP expenditures	Dollars	6,190,666	4,840,000	8,860,000	2,350,000	4,850,300	7,335,200
Small works projects	Each	4	3	9	16	5	5
Proj w/ on-time environ approvals	Projects	4	11	10	0	7	10
Non-point watershed plans	Actions	50	24	16	15	21	15
Projects funded by Salmon RBrd	Percent	50	33	50	100	20	33
Basin plans/characterization reports	Issued	0	0	0	7	3	4

**BUDGET RATIOS**



❖ From 1992 to 2002 total SWM expenditures per resident served (excluding River Improvement costs) increased 553% after adjusting for inflation. The dramatic increase is due to the department's mission changing from initial development of a storm drainage plan to implementation of a plan for water quality enhancement and the reduction of economic losses from water damage.

❖ From 1992 to 2002 land and construction expenditures per resident served increased 638% after adjusting for inflation. The dramatic increase is due to the implementation (beginning 1993) of the department's capital improvement program to enhance water quality and reduce economic losses from water damage.

**Surface Water Management Fund**

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## 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 2004 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 2004 budget are the on-going expenses associated with these various studies, and the costs for staff assigned to these activities. The initial funding for the development of the Water Utility is a loan from the Sewer Facilities Capital Reserve Fund.

### FUNDING SOURCES

	2001 Actual	2002 Actual	2003 Budget	2004 Budget	Absolute Change	Percent Change
Other Financing Sources	\$ —	\$ —	\$ 426,490	\$ 162,830	\$ (263,660)	(61.8) %
<b>Total</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ 426,490</b>	<b>\$ 162,830</b>	<b>\$ (263,660)</b>	<b>(61.8) %</b>

### EXPENDITURES

	2001 Actual	2002 Actual	2003 Budget	2004 Budget	Absolute Change	Percent Change
Salaries & Wages	\$ 23,374	\$ 21,686	\$ 27,820	\$ 29,260	\$ 1,440	5.2 %
Personnel Benefits	5,620	(749)	4,880	5,450	570	11.7
Other Services & Charges	57,102	55,888	366,790	101,120	(265,670)	(72.4)
Interest	14,625	18,656	27,000	27,000	—	—
<b>Total</b>	<b>\$ 100,721</b>	<b>\$ 95,481</b>	<b>\$ 426,490</b>	<b>\$ 162,830</b>	<b>\$ (263,660)</b>	<b>(61.8) %</b>

### STAFFING SUMMARY

	1999 FTE	2000 FTE	2001 FTE	2002 FTE	2003 FTE	2004 FTE
Water Programs Manager	—	0.10	0.20	0.20	0.20	0.20
Special Asst to Dir PW&U	—	—	—	0.10	0.10	0.10
GIS Specialist	—	—	—	—	—	0.01
Asst to Exec Dir of Oper	—	0.30	0.30	—	—	—
Planner	—	0.50	0.50	—	—	—
<b>Total</b>	<b>—</b>	<b>0.90</b>	<b>1.00</b>	<b>0.30</b>	<b>0.30</b>	<b>0.31</b>

**Water Utility Fund**

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