

# 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, the Sewer Facility Restricted Reserve, Water Utility Fund, and the Drinking Water Supply Program presented under Special Projects in the Other Services and Programs section of the document) and Water Programs (Surface Water Management Fund and REET River Fund). The budget for the Chambers Bay 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 2007**

The Sewer Utility Division provides wastewater collections and treatment services to over 168,000 customers in Pierce County with an overall treatment capacity of 28.7 million gallons per day. The Utility is currently reviewing future expansion needs to increase its capacity to accommodate anticipated regional growth and to meet increasingly stringent water quality regulations. A Facility Plan and Engineering Report will guide the improvements and include recommendations such as reclaimed water, odor control, biogas use and other state of the art treatment processes. In 2007, the Sewer Utility received the Governor's Award for Pollution Prevention and Sustainable Practices in recognition of improvements in operations at the Chambers Creek Regional Wastewater Treatment Plant. Some of the improvements include the elimination of 90 tons of chlorine and sulfur dioxide gasses from discharge into the Puget Sound, the elimination of truck transport of biosolids saving 8,700 gallons of fossil fuels annually, the utilization of ultraviolet disinfection in wastewater treatment, the use of biogases for heating and fertilizer manufacture and the initiation and production of SoundGRO (a naturally organic fertilizer manufactured from biosolids). The Utility has also received approval from the State of Washington to sell and distribute SoundGRO, a Class A Exceptional Quality fertilizer product. Also noteworthy, the Utility recently completed an inter-local agreement with the city of Orting to provide sewer service to Cascadia, a planned community located on the plateau between Orting and Bonney Lake. In addition, the American Public Works Association recognized Pierce County Sewer Utility's Business Case Evaluation plan as a model practice during this year's accreditation audit.

The Chambers Creek Properties is comprised of over 930 acres including two miles of Puget Sound shoreline and more than two-and-a-half miles of forested canyon. Three major events occurred in the beginning of 2007 including the County Council's adoption of the first 10-year update of the Chambers Creek Properties Master Site Plan after an extensive public process in 2006. In May, 5000 people celebrated the opening of the Soundview Trail for public use and the Chambers Creek Foundation hosted the first Family Fun Day/Grand Opening with 5K & 10K runs, walks and Hound to Sound dog walk.

In June, the Chambers Bay Golf Course opened to public play following a week of pre-opening events and a Black Tie Gala sponsored by the Chambers Creek Foundation. During the first six months of operation, the golf course was recognized by several prominent golf publications including: Golf, Inc., Development of the Year 2007 – Daily Fee Winner; Golfweek, Ranked #2 on Golf Week's Best New Courses 2005-2007 and #1 for those courses completed in 2007; Travel & Leisure Golf, Best New Courses 2007 – Course of the Year; and Golf Magazine, Best New Course for 2007. In October, the golf course hosted its first official tournament when the Big Ten and Pacific Ten Conferences hosted the Big 10/ Pac 10 Challenge. That same month, the course played host to the BMW Northwest Charity Skins Game hosted by local PGA golf professional Ryan Moore.

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## *Environmental Services*

The event raised over \$50,000 for local charities. At the end of 2007, the construction of the 22 acre North Meadow and 6 acre Central Meadow on the Chamber Creek Properties are near completion with public opening scheduled for August 2008.

Water Programs provides resources to plan, manage, and maintain the storm drainage and surface water runoff systems within unincorporated Pierce County drainage basin areas. The Division also helps to maintain water quality by preventing siltation and erosion of the County's waterways, protect water quality of lakes and aquifers, protect quality for wildlife and fish habitat, and help minimize property loss from water damage. In 2007, the Division completed seven construction projects including the Spanaway Creek Fish passage channel which allows fish to pass around a small dam that has been in place since 1957. Work was also started on improvements to the South Hill pump station to increase pumping capacity so that service can be provided to a larger area. In 2007, major resources were directed to the restoration of the Puyallup, White, Carbon and Nisqually river levee systems which had been damaged in the floods of November 2006.

Pierce County's Residential Recycling Program, managed by the Solid Waste Division, continued to post impressive gains during its second full year of operation. Total tonnage recovered was 41,000 tons, up 13%. Pounds recovered per household per month were 48 pounds, up 6.6%. Percentage of households recycling was 95.6%, a net increase of 2,700 recycling households. Also noteworthy, The American Public Works Association recognized Pierce County Responds as a model practice during this year's accreditation audit.

### **DEPARTMENT BUDGETS**

Department Name	2007 Budget	2008 Budget	Absolute Change	Percent Change
Chambers Bay Golf Course Fund	\$ 7,456,640	\$ 5,176,160	\$ (2,280,480)	(30.6) %
REET - River Fund	4,108,470	9,631,140	5,522,670	134.4
Sewer Facil Restrict Reserve Fund	13,561,000	14,499,240	938,240	6.9
Sewer Revenue Bond Funds	5,615,240	5,485,060	(130,180)	(2.3)
Sewer Utility Fund	48,611,360	43,467,470	(5,143,890)	(10.6)
Sewer Utility Const Funds	23,636,500	29,938,630	6,302,130	26.7
Solid Waste Mgmt Fund	5,483,470	6,136,910	653,440	11.9
Surface Water Management Fund	26,265,850	27,751,940	1,486,090	5.7
Water Utility Fund	312,900	188,940	(123,960)	(39.6)
<b>Total Environmental Services</b>	<b>\$135,051,430</b>	<b>\$142,275,490</b>	<b>\$ 7,224,060</b>	<b>5.3 %</b>

# Chambers Bay Golf Course Fund

## Enterprise Fund

**Departmental Summary:**

The Chambers Bay Properties Golf Course is a project within the Chambers Creek Master Site Plan that 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 Bay Golf Course fund is to develop an 18-hole championship flight golf course that maximizes the site potential, enhances the County’s economic development effort, provides an environmental showcase, and generates revenue for both the course operations and other recreational features.

Limited Tax General Obligation Bonds, 2005 – The \$20,770,000 Chambers Bay Golf Course general obligation bonds are serial bonds through 2030 due in annual installments ranging from \$370,000 to \$995,000, plus interest of 3% to 4.375%. The 2035 bonds are term bonds in the amount of \$5,685,000 with an interest rate of 4.5% having mandatory calls beginning in 2031 ranging from \$1,040,000 to \$1,240,000. The final maturity date is 2035. Financing is provided from the net revenues of the golf course, net revenues of the sewer utility, and/or the general fund. Bonds maturing on or after December 1, 2016 are callable beginning December 1, 2015 or any scheduled interest payment date thereafter. The outstanding bond balance on December 31, 2007 is \$20,770,000.

Limited Tax General Obligation Bond, 2007 – The \$685,000 general obligation bond is a term bond due in equal quarterly payments of \$36,432 in principal and interest, with final payment due in July 2007. The interest rate is 4.30%. The bonds were issued to equipment for servicing the Chambers Bay Golf Course. Financing is provided from the net revenues of the golf course, revenues of sewer utility, and/or general fund. The outstanding balance of the bond on December 31, 2007 is \$622,995.72.

**Budget Highlights:**

The 2008 Chambers Bay Golf Course budget reflects the following activities and expenses, which are supported by projected Golf Course Revenues:

Bond Debt Service .....	\$1,375,300
Course Operations Contract .....	3,365,410
Other Operating Expenses .....	375,450
Interfund Interest Expense .....	<u>60,000</u>
	<b>\$5,176,160</b>

<b>FUNDING SOURCES</b>						
	2005 Actual	2006 Actual	2007 Budget	2008 Budget	Absolute Change	Percent Change
Est Use of Begin Fund Balance	\$ —	\$ —	\$ 2,914,750	\$ —	\$ (2,914,750)	(100.0) %
Charges for Services	—	—	2,431,890	5,176,160	2,744,270	112.8
Other Financing Sources	—	493,359	2,110,000	—	(2,110,000)	(100.0)
<b>Total</b>	<b>\$ —</b>	<b>\$ 493,359</b>	<b>\$ 7,456,640</b>	<b>\$ 5,176,160</b>	<b>\$ (2,280,480)</b>	<b>(30.6) %</b>

*Chambers Bay Golf Course Fund*

<b>EXPENDITURES</b>						
	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>Absolute</b>	<b>Percent</b>
	<b>Actual</b>	<b>Actual</b>	<b>Budget</b>	<b>Budget</b>	<b>Change</b>	<b>Change</b>
Salaries & Wages	\$ 76,657	\$ 64,217	\$ 51,100	\$ 15,280	\$ (35,820)	(70.1) %
Personnel Benefits	34,534	16,948	13,070	4,890	(8,180)	(62.6)
Supplies	1,044	22,256	1,000	200	(800)	(80.0)
Other Services & Charges	1,627,862	706,780	3,492,140	3,720,490	228,350	6.5
Intergovernmental Services	—	—	88,310	—	(88,310)	(100.0)
Capital Outlays	2,720,048	12,813,535	2,905,060	—	(2,905,060)	(100.0)
Debt Service-Principal	—	—	—	490,870	490,870	∞
Interest	70,721	864,884	905,960	944,430	38,470	4.2
Debt Regist Costs	254	—	—	—	—	—
<b>Total</b>	<b>\$ 4,531,120</b>	<b>\$ 14,488,620</b>	<b>\$ 7,456,640</b>	<b>\$ 5,176,160</b>	<b>\$ (2,280,480)</b>	<b>(30.6) %</b>

<b>STAFFING SUMMARY</b>						
	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
	<b>FTE</b>	<b>FTE</b>	<b>FTE</b>	<b>FTE</b>	<b>FTE</b>	<b>FTE</b>
Administrative Svcs Mgr	—	—	0.50	0.55	0.40	0.20
Planner	—	—	0.15	0.10	0.10	—
Special Asst to Dir PW&U	—	—	0.15	0.10	—	—
<b>Total</b>	<b>—</b>	<b>—</b>	<b>0.80</b>	<b>0.75</b>	<b>0.50</b>	<b>0.20</b>

## REET River 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 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 2008 REET River budget is 134% above the 2007 amount, due mostly to:

- a) Major flood plain land purchases (\$7,392,000) – largely funded with grant monies (\$5,664,000), and
- b) The Lower Puyallup River Alternatives study (\$950,000).

### FUNDING SOURCES

	2005 Actual	2006 Actual	2007 Budget	2008 Budget	Absolute Change	Percent Change
Est Use of Begin Fund Balance	\$ —	\$ —	\$ 1,505,470	\$ 2,162,140	\$ 656,670	43.6 %
Taxes	2,381,068	2,442,918	1,800,000	1,805,000	5,000	0.3
Intergovernmental Revenue	68,101	1,332,459	649,000	5,664,000	5,015,000	772.7
Miscellaneous Revenue	10,400	2,425,698	4,000	—	(4,000)	(100.0)
Other Financing Sources	—	—	150,000	—	(150,000)	(100.0)
<b>Total</b>	<b>\$ 2,459,569</b>	<b>\$ 6,201,075</b>	<b>\$ 4,108,470</b>	<b>\$ 9,631,140</b>	<b>\$ 5,522,670</b>	<b>134.4 %</b>

### PROGRAM EXPENDITURES

	2007 FTE	2008 FTE	2007 Budget	2008 Budget	Absolute Change	Percent Change
Administration & Tech Support	1.51	1.51	\$ 1,749,470	\$ 2,228,740	\$ 479,270	27.4 %
Basin Plan & Land Acquisition	—	—	2,359,000	7,402,400	5,043,400	213.8
<b>Total</b>	<b>1.51</b>	<b>1.51</b>	<b>\$ 4,108,470</b>	<b>\$ 9,631,140</b>	<b>\$ 5,522,670</b>	<b>134.4 %</b>

*REET River Fund*

**STAFFING SUMMARY**

	<b>2003 FTE</b>	<b>2004 FTE</b>	<b>2005 FTE</b>	<b>2006 FTE</b>	<b>2007 FTE</b>	<b>2008 FTE</b>
Water Programs Manager	0.10	0.10	0.05	0.05	0.05	0.05
Civil Engineer	1.05	0.94	0.90	0.75	0.90	0.90
Right of Way Agent	0.15	0.15	0.15	0.15	0.15	0.15
GIS Specialist	0.10	0.06	0.06	0.06	0.06	0.06
Accounting Assistant	0.30	0.30	0.30	0.25	0.25	0.25
Environmental Biologist	—	—	—	0.10	0.10	0.10
Planner	—	—	—	0.03	—	—
Administrative Svcs Mgr	0.05	0.05	0.03	—	—	—
Fiscal Services Manager	—	—	0.05	—	—	—
Supervisory Admin Asst	0.05	0.05	0.03	—	—	—
Admin Program Mgr	0.05	0.05	—	—	—	—
Deputy PW & Utilities Dir	—	0.01	—	—	—	—
Engineering Tech	0.10	—	—	—	—	—
<b>Total</b>	<b>1.95</b>	<b>1.71</b>	<b>1.57</b>	<b>1.39</b>	<b>1.51</b>	<b>1.51</b>

# Sewer Revenue Bonds Fund

## *Enterprise Fund*

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**Departmental  
Summary:**

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

**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, 2007 is \$11,175,000.

**Limited Tax General Obligation Refunding Bonds, 2005** -- The \$38,380,000 general obligation refunding bonds, which advance refunded \$760,000 of the Limited Tax General Obligation Bonds, 1997B, \$3,245,000 of the Limited Tax General Obligation Bonds, 1999, \$28,930,000 of the Limited Tax General Obligation Bonds, 2000, \$5,340,000 of the Sewer Revenue and Refunding Bonds, 1993, and \$900,000 of the Sewer Revenue and Refunding Bonds, 1997, are serial bonds due in annual installments ranging from \$515,000 to \$2,570,000 plus interest of 3.00% to 5.125%. Financing is provided from the General Fund regular tax levy for the limited tax general obligation bonds and from sewer assessments and rates for the sewer revenue bonds. The bonds maturing on or after August 1, 2016 are callable beginning August 1, 2015. The outstanding balance on December 31, 2007 is \$36,325,000; \$32,875,000 payable by the General Fund and \$3,450,000 payable by the Sewer Utility.

*Sewer Revenue Bonds Fund*

**FINANCIAL SUMMARY**

Bond Issue	2008 Revenue	2008 Expense
<b>Sewer Revenue Bonds Accounts</b>		
Operating Transfer from Sewer Assessment Account	\$ 1,437,230	\$ —
Operating Transfer from Sewer Revenue Bond Reserve Account	90,000	—
Principal	—	915,000
Interest & Amortization Expense	—	624,490
Use of Fund Balance	12,260	—
<b>Subtotal</b>	<b>1,539,490</b>	<b>1,539,490</b>
<b>Limited Tax GO/Sewer Revenue Bond Accounts</b>		
Operating Transfer from Sewer Assessment Account	1,209,170	—
Use of Fund Balance	—	—
Principal	—	1,065,000
Interest & Amortization Expense	—	144,170
<b>Subtotal</b>	<b>1,209,170</b>	<b>1,209,170</b>
<b>Assessment Collection Account</b>		
Assessments Principal Receivable	—	—
Interest & Penalties on Assessments	500,000	—
Investment Interest	180,000	—
Use of Fund Balance	1,966,400	—
Operating Transfer to Sewer Revenue Bond Account	—	1,437,230
Operating Transfer to LTGO Bond Account	—	1,209,170
<b>Subtotal</b>	<b>2,646,400</b>	<b>2,646,400</b>
<b>Sewer Revenue Bond Reserve Account</b>		
Investment Interest	49,000	—
Use of Fund Balance	41,000	—
Operating Transfer to Sewer Bond Account	—	90,000
<b>Subtotal</b>	<b>90,000</b>	<b>90,000</b>
<b>Grand Total</b>	<b>\$ 5,485,060</b>	<b>\$ 5,485,060</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 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, Lakehaven Utility District, 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 2008 Sewer Utility Fund budget is 10.6% below the 2007 level due to the deletion of the depreciation line item. The proposed budget reflects the following items of note.

- a) An allocation of \$13.8 million for capital improvements (transferred to the Sewer Utility Construction Fund);
- b) Ten new positions, including an out-sourced ITS position in Information Technology, to effectively meet workload responsibilities in collection system maintenance, engineering and construction, development engineering and permit processing, and at the Chambers Creek properties;
- c) The use of \$10.5 million in fund balance (to support this proposed budget); and
- d) A proposed sewer rate increase of 3.5% to cover annual inflation cost increases.

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### **Performance Measures**

- 1) The five year (2004-2008) average cost per million gallons treated will increase by 3% or less over the previous (2003-2007) five year average (excluding depreciation). (Goals B, D, E, F, G, H, I)

*Sewer Utility Fund*

<b>FUNDING SOURCES</b>						
	2005	2006	2007	2008	Absolute	Percent
	Actual	Actual	Budget	Budget	Change	Change
Est Use of Begin Fund Balance	\$ —	\$ —	\$ 18,666,480	\$ 10,497,090	\$ (8,169,390)	(43.8) %
Intergovernmental Revenue	—	15,684	—	—	—	—
Charges for Services	26,851,380	27,281,471	29,377,880	32,270,230	2,892,350	9.8
Miscellaneous Revenue	516,373	590,117	477,000	600,150	123,150	25.8
Contributed Capital	105,735	99,290	90,000	100,000	10,000	11.1
Other Financing Sources	(10,103)	(152,052)	—	—	—	—
<b>Total</b>	<b>\$ 27,463,385</b>	<b>\$ 27,834,510</b>	<b>\$ 48,611,360</b>	<b>\$ 43,467,470</b>	<b>\$ (5,143,890)</b>	<b>(10.6) %</b>

<b>PROGRAM EXPENDITURES</b>						
	2007	2008	2007	2008	Absolute	Percent
	FTE	FTE	Budget	Budget	Change	Change
Collection System Maintenance	43.00	45.00	\$ 6,228,600	\$ 6,388,260	\$ 159,660	2.6 %
Wastewater Treatment O & M	39.65	41.15	9,414,450	9,837,670	423,220	4.5
Admin, Engineering, & Planning	52.44	58.24	10,863,550	12,842,780	1,979,230	18.2
Depreciation/Depletion	—	—	11,470,880	—	(11,470,880)	(100.0)
Capital Improvement & Equip	—	—	10,633,880	14,398,760	3,764,880	35.4
<b>Total</b>	<b>135.09</b>	<b>144.39</b>	<b>\$ 48,611,360</b>	<b>\$ 43,467,470</b>	<b>\$ (5,143,890)</b>	<b>(10.6) %</b>

*Sewer Utility Fund*

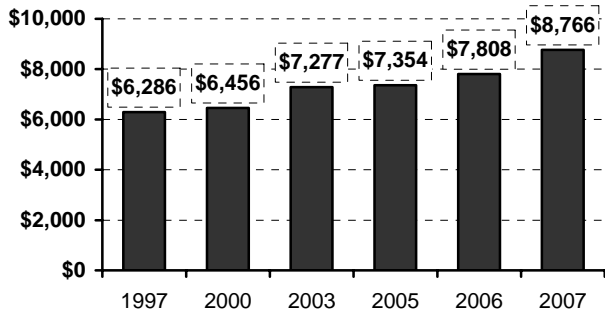
<b>STAFFING SUMMARY</b>						
	<b>2003 FTE</b>	<b>2004 FTE</b>	<b>2005 FTE</b>	<b>2006 FTE</b>	<b>2007 FTE</b>	<b>2008 FTE</b>
Dir – Public Works & Util	0.23	0.23	0.20	0.24	0.24	0.24
WW Utility Manager	1.00	1.00	1.00	1.00	0.90	0.90
Administrative Svcs Manager	0.50	0.50	0.28	0.23	0.36	0.56
Special Asst to Dir of PW & U	0.90	0.90	0.44	0.65	0.30	0.30
WWTP Superintendent	1.00	1.00	1.00	1.00	1.00	1.00
Engineering Manager	—	—	1.00	1.00	1.00	1.00
WW Construction Proj Manager	1.00	1.00	1.00	1.00	1.00	1.00
WWTP Engineer	1.00	1.00	1.00	1.00	1.00	1.00
Deputy PW & Utilities Dir	—	—	0.20	0.24	0.24	0.24
Strategic Plng/Asset Manager	—	—	1.00	1.00	1.00	1.00
WW Collection System Manager	1.00	1.00	1.00	1.00	1.00	1.00
Civil Engineer	9.00	10.00	11.00	12.00	12.00	17.00
Fiscal Services Manager	—	—	0.40	0.40	0.40	0.40
Planner	1.00	1.00	1.85	2.90	2.90	3.00
WW Asst Coll System Manager	1.00	1.00	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	2.00	2.00
Right of Way Agent	0.50	0.50	0.24	0.24	0.24	0.24
WW Coll Maint Supv	2.00	2.00	2.00	2.00	2.00	2.00
WW Maint Spec Mech	5.00	5.00	5.00	5.00	5.00	5.00
Civil Engineer - In - Training	—	—	—	1.00	1.00	1.00
Public Works Supervisor	—	—	—	—	1.00	1.00
WWTP Lab Analyst	1.00	1.00	1.00	1.00	1.00	1.00
Engineering Tech	11.00	11.00	12.00	14.00	16.00	17.00
Accounting Assistant	4.80	5.75	5.80	5.80	7.10	7.10
WWTP Operator	10.00	10.00	12.00	12.00	11.00	11.00
WW Coll Maint Tech Lead	3.00	3.00	3.00	3.00	4.00	4.00
Community Coordinator	—	—	—	—	—	1.00
Supervisory Admin Asst	0.55	0.55	0.62	0.62	0.62	0.62
WW Maint Tech	24.00	24.00	25.00	28.00	31.00	33.00
WW Maint Spec Elec	2.00	2.00	2.00	3.00	3.00	3.00
WW Maint Spec Inst	4.00	4.00	4.00	4.00	4.00	4.00
Administrative Asst	0.55	0.55	0.55	0.55	1.55	1.55
Records Specialist	—	—	0.34	0.34	0.34	0.34
Office Assistant	8.00	8.00	8.00	9.00	8.90	8.90
WW Inventory Expeditor	1.00	1.00	1.00	1.00	1.00	1.00
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	3.00	3.00
WWTP Utility Worker	2.00	4.00	4.00	4.00	4.00	4.00
Dept Info Tech Spec	—	0.17	0.47	0.17	—	—
WW Maint Worker	—	3.00	2.00	—	—	—
Deputy PW & Utilities Dir	0.23	0.21	—	—	—	—
Admin Program Manager	0.40	0.40	—	—	—	—
<b>Total</b>	<b>104.66</b>	<b>111.76</b>	<b>118.39</b>	<b>126.38</b>	<b>135.09</b>	<b>144.39</b>

*Sewer Utility Fund*

<b>WORKLOAD SERVICE DATA</b>							
	Unit of Measure	2003 Actual	2004 Actual	2005 Actual	2006 Actual	2007 Estimate	2008 Estimate
Laboratory Analysis	Tests	27,142	29,822	28,313	32,711	28,000	28,000
Pretreatment Program	Reviews	2,255	1,588	1,544	1,660	1,500	1,500
Accidental Spill Prevention Program	Reviews	696	375	373	398	350	350
Residual Hauling/Acceptance	Wet tons	12,196	15,816	13,316	8,095	—	—
Fertilizer (Replaced Hauling/Accept)	Tons				704	2,000	2,150
Residual Dryness	Percentage	15.4	14.8	14.8	17.4	20.0	20.0
Avg Daily Wastewater Flow Rec	ADF/MGD	16.65	17.10	16.65	18.90	19.45	20.00
Preventative Maintenance	Orders	7,924	10,703	12,733	11,803	12,000	12,000
Pump Station Maintenance Visits	Visits	5,551	5,424	4,471	4,826	5,100	5,150
Auxiliary Power System Maint	Visits	1,600	1,593	1,263	1,052	1,000	1,050
Residential Grinder Pump	Visits	910	1,160	1,233	1,240	1,050	1,200
Sewer Line Cleaning	Linear Ft	667,690	1,015,197	1,042,525	1,029,600	1,000,000	1,000,000
Sewer Utilities Locates	Visits	15,530	12,797	15,688	13,815	14,000	14,000
Smoke Testing	Linear Ft	365,595	369,359	313,986	355,492	320,000	320,000
Sewer Manhole	Repairs	749	1,428	875	701	800	800
Inflow & Infiltration	Repairs	266	261	316	330	300	300
Television Inspection	Linear Ft	264,074	292,180	478,223	347,299	350,000	350,000
Emergency Pump Station Calls	Incidents	5	43	76	73	75	80
Sewer Line Blockages	Incidents	4	4	—	7	10	10
Active Billing Accounts	Accounts	46,115	48,577	51,341	53,618	55,894	58,170
Permits, Reviews & Inspections	Cases	5,281	6,840	6,337	5,771	5,600	5,600
Collector Pipe	Miles	583	593	623	628	640	650

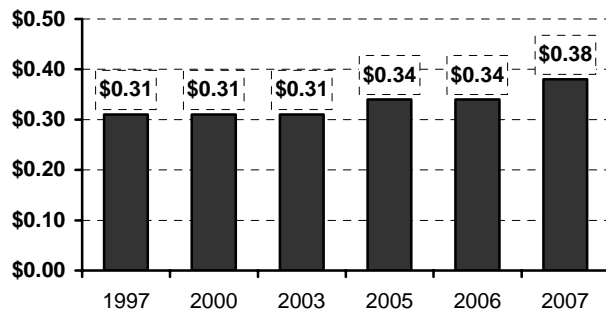
**BUDGET RATIOS**

**Maintenance Cost per Mile of Pipe**



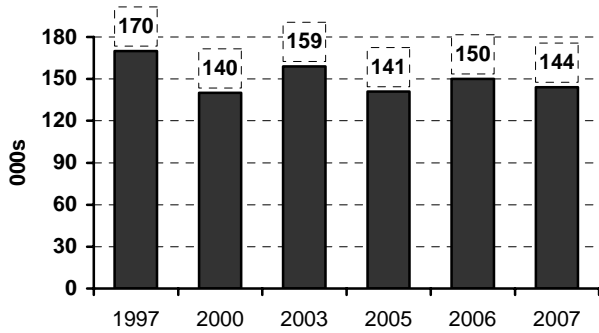
❖ From 1997 to 2007 the maintenance cost per mile of collection pipe increased 39% after adjusting for inflation. The ten year average is \$7,222.

**Treatment Cost per Daily Gallon**



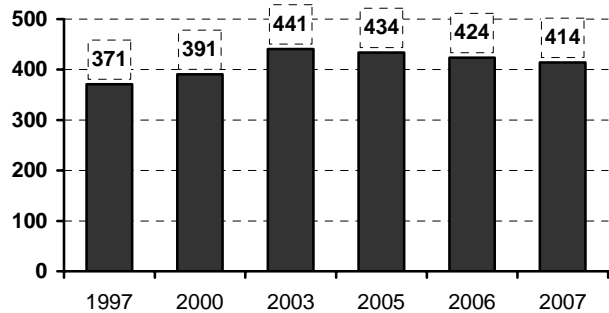
❖ From 1997 to 2007 the treatment cost per daily gallon of wastewater increased 21% after adjusting for inflation. The ten year average is \$0.33.

**Wastewater Treated per Employee**  
Gallons in Thousands



❖ From 1997 to 2007 the number of gallons of wastewater treated daily per Sewer Utility employee decreased 15%. The ten year average is 150.

**Customer Accounts per Employee**



❖ From 1997 to 2007 the number of active customer accounts per Sewer Utility employee increased 11%. The ten year average is 412.

*Sewer Utility Fund*

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# Sewer Utility Construction Fund

## *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:

**B St Interceptor Phase 2 (176<sup>th</sup> St to 192<sup>nd</sup> St)** — This is a collection system improvement project to install approximately 5,000 feet of 30" diameter gravity sewer line in "B" Street East from 176<sup>th</sup> Street East to 192<sup>nd</sup> Street East.

**Canyon Road Sanitary Sewer Improvements** — Installation of approximately 4,060 LF of 8 inch collector pipeline. This project provides sanitary sewers in conjunction with the Transportation Division's CRP 5433 project. The project provides service to the properties along Canyon not directly served under the Canyon Road Interceptor project between 116<sup>th</sup> St and 144<sup>th</sup> St.

**Chambers Creek Properties Central Meadow** — Construction of a 22 acre site for passive recreation and a staging area for large events such as golf tournaments and community festivals. Will contain restroom facilities, parking for 84 cars and half mile loop trails on the south and west sides to link to the Soundview trail.

**Chambers Creek Properties North Meadow** — Construction of a six acres site for passive recreation and viewing of Puget Sound and the Chambers Bay golf course. Will contain restroom facilities and parking for 38 cars.

**Chambers Creek Properties Well Replacement** — The project consists of the decommissioning of an existing well and the installation of two replacement water wells within the Chambers Creek Properties site. The new wells are being installed to comply with State requirements for the preservation and protection of the Chambers Creek Properties water rights.

**Chambers Creek WWTP Headwork Modification** — Includes the installation of new screening and grit removal capacity, addition of a new grit chamber, 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.

**Construction Design Projects** – Engineering design for several projects:

- Fertilizer Storage Facility
- Fertilizer Facility Vacuum System
- Security Gate Upgrade
- Power Monitoring System
- Primary Tank Skimmers
- Bioselector Dissolved Oxygen Control

**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 & Order Control** — This is a preservation project to rehabilitate deteriorating unlined concrete surfaces of this structure at the WWTP. Odor control will also be implemented to address existing odors at this facility.

**Environmental Services Building Expansion** — The project initially consists of the planning and pre-design of an expansion to the Environmental Services Building.

**Fife Siphon Project** — The project will install a rock sump on the inlet channel, electrical service, a grinder shredder and high influent float system to be monitored by telemetry.

**Lakewood Generator Replacement Project** — The project will procure and install replacement emergency generator sets at 28 pump station sites within the ULID 73-1 area. The generators were originally installed in 1983 through 1986 and reached their expected useful life due to obsolescence.

**Meridian Phase 1 Crossings (144<sup>th</sup> St to 156<sup>th</sup> St)** — This is a collection system improvement project and includes the installation of approximately 7 bore/jack crossings of SR161 between 144<sup>th</sup> St E and 156<sup>th</sup> St E. The project includes approximately 1,000 feet of steel casing and sanitary sewer carrier pipes.

**Miscellaneous Septic Extensions** — 60 isolated septic system failures have been documented by the Tacoma-Pierce County Health Department over a five year period from 2002-2006. These failures are located within the Pierce County Sewer Service Area and County Urban Growth Area. Connection to the sewer system would bring relief to those properties that cannot support a new on-site septic system.

**Miscellaneous Sewer Line Extensions** — Collection system improvement projects to construct gravity collector sewer line extensions. This includes sewer improvements in conjunction with other jurisdictions' improvement projects.

**North Dock Reconstruction and Pedestrian Bridge** — This project consists of the design, permitting and reconstruction of the North Dock at the Chambers Creek Properties site. The existing North Dock will be renovated into a public access pier in accordance with the Master Site Plan. This project also includes the design, permitting and reconstruction of a new railroad overpass at the Chambers Creek Properties site. The existing North Dock will include a pedestrian underpass of BNSF railroad and related safety improvements.

**Oakbrook side Sewer Repairs** — Relining of the concrete sewer line and laterals to provide the same level of service these Oakbrook neighborhood customers would have realized prior to the connection of the 65 unit low pressure system.

**Open Process Programming** — Replacement of the current system with a more reliable and easier to maintain ladder logic program capability will save on consultant costs and costly downtime in the event of a system crash. Re-programming of the SCADA system will range between 6-10 months and, when complete, provide a greatly improved software package for management of the system.

**Reclaimed Water System** — This project will provide Class 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 one million gallons a day for distribution on the Chambers Creek Properties.

**Reclaimed Water System Denitrification** — This project will provide Class 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 for distribution on the Chambers Creek Properties.

**Replacement Pump on Chambers Creek** — Project consists of replacing existing pump at the impoundment on Chambers Creek.

**Revised Burlington Northern Santa Fe Access** — Project consists of revising the Burlington Northern Santa Fe Railroad access, including design and permitting, fencing, landscaping and construction.

**Trail Linkages to WDFW Fish Counting Station** — This project provides for the design and construction of pedestrian trail linkages through the Washington Department of Fish and Wildlife fish counting Station on Chambers Creek.

**Tunnel Rehabilitation** — This is maintenance, operation and preservation project to protect the existing unlined Chambers Creek Tunnel which has experienced hydrogen sulfide corrosion. The initial project includes the lining of approximately 4200 feet of the tunnel and bypass pumping of the existing flows. Additional projects include lining of the remaining 1,100+ feet of the tunnel

**Waste Activate Sludge Pump Replacement** — Three pumps can no longer efficiently handle the demands of the overall wastewater system delivery of by-products of the biologic process tanks to the digesters for further reduction and disposal prior to discharge to the fertilizer manufacturing facility. Project will also include minor piping reconfiguration.

**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 with Installation of approximately 4,060 LF of eight inch collector pipeline. This project provides sanitary sewers in conjunction with the Transportation Division's CRP 5433 project. The project provides service to the properties along Canyon not directly served under the Canyon Road Interceptor project between 116<sup>th</sup> St and 144<sup>th</sup> St. The project also includes installation of sanitary sewers along side streets to the extent identified in the CRP project, which is currently identified as approximately 3,000 square feet.

**WWTP Plant Expansion** — This Project will expand and improve 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.

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## **Performance Measures**

- 1) Design and advertise at least 90% of the number of projects planned to be advertised in the 2008 capital facilities plan. (Goals B, D, E, G, H, I) submittal and at least 95% of subsequent reviews will be accomplished within ten calendar days. (Goals B, d, E, F, G, H, I)
- 2) At least 95% of first reviews will be completed within 15 calendar days after application

*Sewer Utility Construction Fund*

**PROJECT SUMMARY**

<b>Capital Reserve Fund # 403</b>	<b>2008</b>
<b>Project Name</b>	<b>Budget</b>
B St Interceptor Phase 2 (176th S to 192nd St)	\$ 500,000
Canyon Road Improvements (116th to 144th St)	306,300
Chambers Creek WWTP Headworks Modifications	2,613,910
Environmental Services Building Expansion	250,000
Meridian Phase 1 Crossings (144th St to 156th St)	1,461,600
Miscellaneous Sewer Line Extensions	365,000
Oakbrook Side Sewer Repairs	235,000
Reclaimed Water System	6,040,000
Well Replacement	500,000
WWTP Heating Hot Water System Upgrade	394,500
WWTP Plant Expansion	1,738,000
<b>SubTotal — Contributions to Construction Fund #425</b>	<b>14,404,310</b>
Advance to Water Utility	200,000
Geographical Information System Support	94,930
<b>Total</b>	<b>\$ 14,699,240</b>

*Sewer Utility Construction Fund*

**PROJECT SUMMARY**

**Sewer Utility Construction Fund #425**

**Funding Sources**

Project Name	Total Project Cost	2008 Expenditure	Federal & State Grants	Funding Sources	
				Fund 402 Sewer Utility Fund	Fund 403 Facilities Capital Reserve
B St Interceptor Phase 2 (176th S to 192nd St)	\$ 6,855,000	\$ 500,000	\$ —	\$ —	\$ 500,000
Canyon Road Improvements (116th to 144th St)	1,105,759	306,300	—	—	306,300
Chambers Creek Properties - Central Meadow	3,495,399	296,000	—	296,000	—
Chambers Creek Properties - North Meadow	552,145	19,300	—	19,300	—
Chambers Creek WWTP Headworks Modifications	12,351,929	3,630,430	—	1,016,520	2,613,910
Construction Design Projects	233,000	233,000	—	233,000	—
Cypress Green Drainfield Rehab	300,000	300,000	—	300,000	—
Energy Dissipator Rehab & Odor Control	525,257	475,000	—	475,000	—
Environmental Services Building Expansion	250,000	250,000	—	—	250,000
Fife Siphon Project	90,500	5,000	—	5,000	—
Lakewood Generator Replacement Project	2,061,100	369,000	—	369,000	—
Meridian Phase 1 Crossings (144th St to 156th St)	1,561,600	1,461,600	—	—	1,461,600
Miscellaneous Sewer Line Extensions	3,190,000	365,000	—	—	365,000
North Dock Reconstruction and Pedestrian Bridge	8,350,000	3,250,000	2,000,000	1,250,000	—
Oakbrook Side Sewer Repairs	235,000	235,000	—	—	235,000
Open Process Programming	1,100,000	450,000	—	450,000	—
Reclaimed Water System	10,361,000	6,040,000	—	—	6,040,000
Replacement Pump on Chambers Creek	350,000	300,000	—	300,000	—
Revised Burlington Northern Santa Fe Access	2,280,000	2,180,000	—	2,180,000	—
Trail Linkages to WDFW Fish Counting Station	250,000	210,000	—	210,000	—
Tunnel Rehabilitation Project	14,386,487	4,400,000	—	4,400,000	—
Waste Activate Sludge Pump Replacement	340,000	340,000	—	340,000	—
Well Replacement	950,000	700,000	—	200,000	500,000
WWTP Heating Hot Water System Upgrade	1,580,744	1,315,000	—	920,500	394,500
WWTP Lab Expansion	1,595,000	570,000	—	570,000	—
WWTP Plant Expansion	46,492,362	1,738,000	—	—	1,738,000
<b>Total</b>	<b>120,842,282</b>	<b>29,938,630</b>	<b>2,000,000</b>	<b>13,534,320</b>	<b>14,404,310</b>

*Sewer Utility Construction Fund*

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## 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 for 2008 includes the following:

- a) Consulting and legal services for Hidden Valley and Purdy on-going post-closure activities;
- b) On-going funding for the Pierce County Responds program;
- c) Continued emphasis on public information programs for recycling, yard-waste/composting activities;
- d) Continued funding for the Health Department Solid Waste Program;
- e) A study examining existing waste stream and recycling programs, and proposing ways to improve our recycling programs;
- f) Key Center fencing and Purdy site improvements;
- g) Three additional positions to deal with new waste reduction, diversion, and recycling efforts; and
- h) An allocation of \$105,000 for park debris cleanup activities.

#### Performance Measures

- 1) The average waste recycling pounds per household will increase from the 2006 goal of 39lbs to 45lbs in 2008. (Goals B, D, E, G, H, I)

<b>FUNDING SOURCES</b>							
	2005	2006	2007	2008	Absolute	Percent	
	Actual	Actual	Budget	Budget	Change	Change	
Est Use of Begin Fund Balance	\$ —	\$ —	\$ 998,400	\$ 1,208,110	\$ 209,710		21.0 %
Intergovernmental Revenue	258,534	723,557	597,000	462,000	(135,000)		(22.6)
Charges for Services	2,969,064	3,430,031	3,300,000	3,700,000	400,000		12.1
Miscellaneous Revenue	401,648	713,169	417,250	586,200	168,950		40.5
Other Financing Sources	175,000	167,520	170,820	180,600	9,780		5.7
<b>Total</b>	<b>\$ 3,804,246</b>	<b>\$ 5,034,277</b>	<b>\$ 5,483,470</b>	<b>\$ 6,136,910</b>	<b>\$ 653,440</b>		<b>11.9 %</b>

*Solid Waste Management Fund*

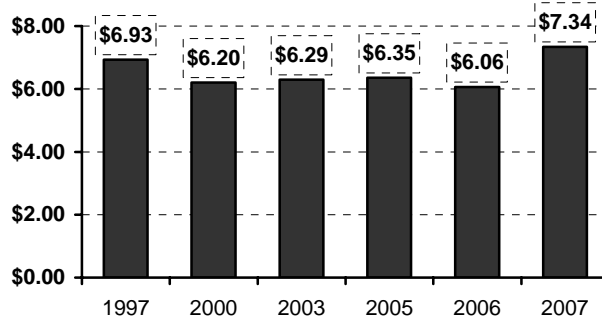
<b>PROGRAM EXPENDITURES</b>						
	<b>2007</b>	<b>2008</b>	<b>2007</b>	<b>2008</b>	<b>Absolute</b>	<b>Percent</b>
	<b>FTE</b>	<b>FTE</b>	<b>Budget</b>	<b>Budget</b>	<b>Change</b>	<b>Change</b>
Administration and Planning	6.52	8.84	1,939,660	2,937,510	997,850	51.4 %
Recycling and Debris Cleanup	4.71	5.10	1,327,780	1,378,970	51,190	3.9
Public Information & Education	4.45	4.74	841,790	875,880	34,090	4.0
Capital Improvements	—	—	712,000	420,550	(291,450)	(40.9)
Depreciation	—	—	157,640	—	(157,640)	(100.0)
Self Insurance	—	—	55,000	50,000	(5,000)	(9.1)
Landfill Post Closure	—	—	449,600	474,000	24,400	5.4
<b>Total</b>	<b>15.68</b>	<b>18.68</b>	<b>\$ 5,483,470</b>	<b>\$ 6,136,910</b>	<b>\$ 653,440</b>	<b>11.9 %</b>

<b>STAFFING SUMMARY</b>						
	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
	<b>FTE</b>	<b>FTE</b>	<b>FTE</b>	<b>FTE</b>	<b>FTE</b>	<b>FTE</b>
Dir – Public Works & Util	0.03	0.03	0.10	0.08	0.08	0.08
Administrative Svcs Mgr	0.15	0.15	0.05	0.05	0.04	0.04
Solid Waste Administrator	1.00	1.00	1.00	1.00	1.00	1.00
Deputy PW & Utilities Dir	0.03	0.05	0.10	0.08	0.08	0.08
Code Enforcement Supv	—	—	1.00	1.00	1.00	1.00
Fiscal Services Mgr	—	—	0.15	0.15	0.15	0.15
Planner	1.00	1.00	1.00	1.00	1.00	1.00
Code Enforcement Officer	2.00	2.00	2.00	2.00	2.00	2.00
Solid Waste Project Coord	—	—	—	—	3.00	5.00
Environmental Educator	4.00	4.00	4.00	4.00	4.00	5.00
Accounting Assistant	0.50	0.55	0.46	0.46	0.20	0.20
Supervisory Admin Asst	0.25	0.25	0.20	0.20	0.20	0.20
Administrative Assistant	0.10	0.10	0.10	0.10	0.10	0.10
Records Specialist	—	—	0.33	0.33	0.33	0.33
Office Assistant	1.50	2.00	2.00	2.50	2.50	2.50
Solid Waste Recyc Analyst	3.00	3.00	3.00	3.00	—	—
Dept Info Tech Spec	—	0.16	0.45	0.16	—	—
Special Asst to Dir PW&U	—	—	0.08	—	—	—
Admin Program Mgr	0.15	0.15	—	—	—	—
<b>Total</b>	<b>13.71</b>	<b>14.44</b>	<b>16.02</b>	<b>16.11</b>	<b>15.68</b>	<b>18.68</b>

<b>WORKLOAD SERVICE DATA</b>							
	<b>Unit of</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
	<b>Measure</b>	<b>Actual</b>	<b>Actual</b>	<b>Actual</b>	<b>Actual</b>	<b>Estimate</b>	<b>Estimate</b>
<b>Solid Waste Operations</b>							
Monitor Solid Waste Operations	Sites	7	7	7	7	7	7
Household Hazard Waste Cleanup	Participants	4,269	4,261	4,426	5,048	5,200	5,300
<b>Education &amp; Outreach</b>							
Presentations & Workshops	Students	23,240	27,000	25,961	23,684	25,000	28,000
Fairs/Comm Events/Newsltr Recip	Attendees	400,000	407,900	410,000	600,000	612,000	624,240
<b>Pierce County Responds</b>							
Abating Small Illegal Dumpsites	Vouchers	50	425	521	428	500	500
Abating Nuisance Vehicles	Vehicles	N/A	1,830	1,959	1,419	1,500	1,500
Abating "Dirty Dozen" Sites	Sites	8	1	2	—	—	—

**BUDGET RATIOS**

**Expenditures per Resident Served**



- ❖ From 1997 to 2007 expenditures per resident served, excluding closure expenses increased 6% after adjusting for inflation. The ten year average is \$6.44.

*Solid Waste Management Fund*

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# 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 2008 Surface Water Management Fund budget total is 5.7% above 2007. The 2008 budget reflects:

- a) A sizeable capital improvement program;
- b) Allocations for 2 new enforcement staff in PALS (\$150,000), and NPDES permit related legal service's (\$100,000).

In order to balance this budget we will be using approximately \$9.2 million in prior fund balance.

**Performance Measures**

- 1) Reconstruct or repair at least 90% of the levee system to pre-November 2006 capacity. (Goals B, D, E, G, H, I)
- 2) Design and advertise at least 90% of the number of projects planned to be advertised in the 2008 capital facilities plan. (Goals B, D, E, G, H, I)

<b>FUNDING SOURCES</b>						
	2005	2006	2007	2008	Absolute	Percent
	Actual	Actual	Budget	Budget	Change	Change
Est Use of Begin Fund Balance	\$ —	\$ —	\$ 11,810,650	\$ 7,286,620	\$ (4,524,030)	(38.3) %
Intergovernmental Revenue	188,562	3,417,026	82,810	3,026,830	2,944,020	3,555.2
Charges for Services	13,323,776	13,559,103	13,762,390	16,838,490	3,076,100	22.4
Miscellaneous Revenue	529,976	1,229,777	610,000	600,000	(10,000)	(1.6)
<b>Total</b>	<b>\$ 14,042,314</b>	<b>\$ 18,205,906</b>	<b>\$ 26,265,850</b>	<b>\$ 27,751,940</b>	<b>\$ 1,486,090</b>	<b>5.7 %</b>

*Surface Water Management Fund*

<b>PROGRAM EXPENDITURES</b>						
	<b>2007</b>	<b>2008</b>	<b>2007</b>	<b>2008</b>	<b>Absolute</b>	<b>Percent</b>
	<b>FTE</b>	<b>FTE</b>	<b>Budget</b>	<b>Budget</b>	<b>Change</b>	<b>Change</b>
Drainage Ops & Maint/Admin	42.06	43.17	\$ 9,826,810	\$ 10,769,190	\$ 942,380	9.6 %
Water Quality/NPDES	10.36	10.36	2,401,980	2,194,850	(207,130)	(8.6)
Capital Improvement Program	—	—	12,151,600	11,246,120	(905,480)	(7.5)
Quarry Operations	1.55	1.85	507,070	712,900	205,830	40.6
River Imp-Operations & Maint	3.98	5.15	935,510	1,602,830	667,320	71.3
River Improvement	4.05	4.97	442,880	1,226,050	783,170	176.8
<b>Total</b>	<b>62.00</b>	<b>65.50</b>	<b>\$ 26,265,850</b>	<b>\$ 27,751,940</b>	<b>\$ 1,486,090</b>	<b>5.7 %</b>

<b>PROJECT SUMMARY</b>					
<b>Drainage Basin</b>	<b>Project Name</b>	<b>Project #</b>	<b>Total Est Project Cost</b>	<b>2008 Budget</b>	
Clear/Clarks Creek	Springfield Pothole	D136	\$ 1,497,000	\$ 400,000	
Clear/Clarks Creek	Canyon Creek Bypass	D138	3,479,000	100,000	
Clear/Clarks Creek	Rody Creek Stream Restoration	D191	1,452,000	270,000	
Clear/Clarks Creek	Woodland Creek 2nd Detention Pond	D310	2,455,000	80,000	
Clear/Clarks Creek	128th Street East & Meridian Infiltration Facility	D338	2,162,000	1,580,000	
Clear/Clarks Creek	Hemlock Pumpstation Alternative Outfall	D339	4,770,000	150,000	
Gig Harbor	Goodnough Creek Culvert Restoration	D192	605,000	25,000	
Gig Harbor	Warren Creek Culvert Replacement	D193	412,000	50,000	
Key Peninsula	Key Peninsula Islands Floodplain Acquisition	D170	1,466,000	333,000	
Lower Carbon	Lower Carbon River Floodplain Acquisition	D615	900,000	300,000	
Lower White River	Lower White Floodplain Acquisition	D203	2,000,000	500,000	
Mashel River	Mashel River Floodplain Acquisition	D617	1,400,000	200,000	
Mid-Puyallup River	Fir Ridge Infiltration Pond	D614	365,000	15,000	
Mid-Puyallup River	Horsehaven Creek	D204	245,000	50,000	
Mid-Puyallup River	Lower Puyallup River Silt Bench Stabilization	1360	1,650,000	150,000	
Mid-Puyallup River	Fennel Creek Wetland Enhancement & D	D172	1,348,000	25,000	
Muck Creek	Muck Creek Basin Floodplain Acquisition	D161	1,273,000	232,000	
Muck Creek	Christian Muck Road	D166	1,222,000	850,000	
Muck Creek	Lacamas Creek Culvert Replacement	D202	425,000	15,000	
Muck Creek	Lower Lacamas Riparian Restoration	D341	1,925,000	30,000	
Muck Creek	288 & Muck Creek	D826	1,202,000	1,105,000	
Steilacoom/Clover Creek	South Midland Wetland Reserve	D143	2,732,000	200,000	
Steilacoom/Clover Creek	Clover Creek Habitat Floodplain	D183	5,322,000	1,325,000	
Steilacoom/Clover Creek	176th St & 14th Ave Retention Pond	D194	2,550,000	1,325,000	
Steilacoom/Clover Creek	Spanaway Creek Restoration - Reach S3	D195	1,265,000	65,000	
Steilacoom/Clover Creek	Larchmont Wetland Reserve	D200	870,000	70,000	
Steilacoom/Clover Creek	Natches Trail Preserve	D206	350,000	75,000	
Steilacoom/Clover Creek	Outfall Retrofits	D823	573,400	30,000	
Upper Nisqually	Upper Nisqually Floodplain Acquisition	D616	1,000,000	300,000	
	<b>Subtotal</b>		<b>46,915,400</b>	<b>9,850,000</b>	
All	General Capital Improvement Project Support	D100	—	1,396,120	
	<b>Total CIP</b>		<b>\$ 46,915,400</b>	<b>\$ 11,246,120</b>	

*Surface Water Management Fund*

**STAFFING SUMMARY**

	<b>2003 FTE</b>	<b>2004 FTE</b>	<b>2005 FTE</b>	<b>2006 FTE</b>	<b>2007 FTE</b>	<b>2008 FTE</b>
Dir – Public Works & Util	0.18	0.18	0.20	0.14	0.14	0.14
Water Programs Manager	0.70	0.70	0.95	0.95	0.95	0.95
Administrative Svcs Mgr	0.30	0.30	0.14	0.17	0.20	0.20
Deputy PW & Utilities Dir	0.18	0.17	0.20	0.14	0.14	0.14
Planner	4.90	6.00	7.00	6.97	7.00	7.00
Water Program Maint Mgr	1.00	1.00	1.00	1.00	1.00	1.00
Water Quality Supervisor	—	—	—	—	1.00	1.00
Civil Engineer	9.80	10.71	10.85	13.25	13.10	13.10
Fiscal Services Mgr	—	—	0.40	0.45	0.45	0.45
Public Works Proj Coord	—	—	1.00	1.00	1.00	1.00
Right of Way Agent	0.35	0.35	0.61	0.61	0.61	0.61
Heavy Equipment Operator	4.00	4.00	4.00	4.00	4.00	5.00
Maintenance Technician	6.00	6.00	6.00	6.00	6.00	7.00
Civil Engineer - in - Trng	—	—	—	1.00	1.00	1.00
GIS Specialist	0.80	0.92	0.93	0.93	0.94	0.94
Public Works Supervisor	1.00	1.00	1.00	1.00	1.00	1.00
Engineering Technician	7.90	9.00	10.00	11.00	13.00	13.00
Accounting Assistant	2.40	2.40	2.44	2.49	2.45	2.45
Supervisory Admin Asst	0.15	0.15	0.15	0.18	0.18	0.18
Environmental Biologist	0.50	2.00	2.00	2.90	2.90	2.90
Administrative Assistant	0.35	0.35	0.35	0.35	0.35	0.35
Records Specialist	—	—	0.33	0.33	0.33	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	3.76
Administrative Aide	0.98	1.00	1.00	1.00	1.00	1.00
Water Quality Specialist	1.00	1.00	1.00	1.00	—	—
Dept Info Tech Spec	—	0.17	0.46	0.17	—	—
Admin Program Mgr	0.40	0.40	—	—	—	—
Environmental Educator	—	1.00	—	—	—	—
<b>Total</b>	<b>46.15</b>	<b>52.06</b>	<b>55.27</b>	<b>60.29</b>	<b>62.00</b>	<b>65.50</b>

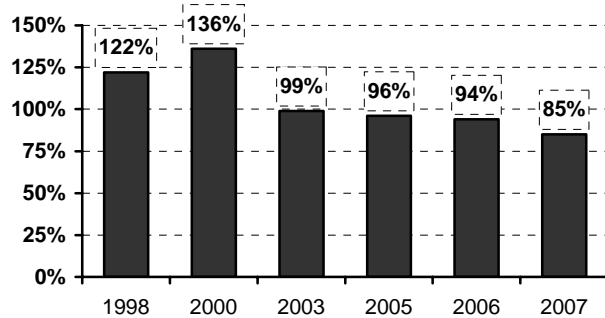
**WORKLOAD SERVICE DATA**

	<b>Unit of Measure</b>	<b>2003 Actual</b>	<b>2004 Actual</b>	<b>2005 Actual</b>	<b>2006 Actual</b>	<b>2007 Estimate</b>	<b>2008 Estimate</b>
Inquiries/Responses	Contacts	229	250	250	296	320	300
Drainage Plan Reviews	Plans	65	70	80	80	80	80
Constructed CIP Projects	Each	2	4	4	5	6	6
NPDES Compliance	Hours	8,445	9,746	11,472	9,955	13,885	19,085
Access Roads Maintained	Miles	38	16	16	23	15	15
Vegetation Control	Hours	1,466	1,000	1,000	1,000	1,000	1,000
Dike Repair Materials	Tons	6,183	4,800	5,000	60,000	40,000	5,000
Retention/Detention Pond Maint.	# of sites	127	110	110	212	100	100
CIP Expenditures	Dollars	5,015,829	7,273,700	7,790,700	7,600,285	12,001,000	10,160,000
Small Works Projects	Each	10	6	5	14	5	5
Proj w/on-Time Environ Approvals	Projects	2	5	5	6	6	5
Non-Point Watershed Plans	Actions	61	55	50	52	50	45
Projects Funded by Salmon RFBrd	Percent	19	33	100	33	100	40
Basin Plans/Characterization Reports	Issued	3	4	4	2	2	2
County Owned Stormwater Ponds	Ponds	73	252	281	335	364	394

**BUDGET RATIOS**

**SWM Extent of Self Support**

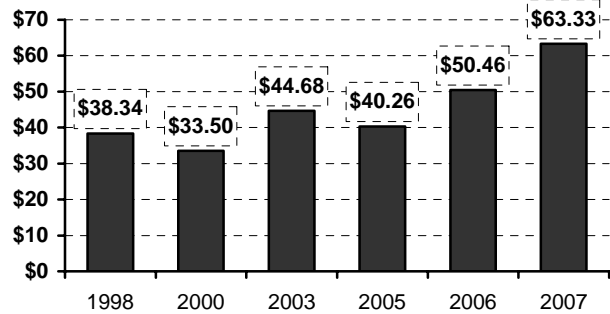
Operating Revenues / Operating Expenditures



- ❖ From 1998 to 2007 SWM extent of self support decreased 30%. There were large capital improvement projects in 2006 and 2007. The ten year average is 109%.

**SWM Operating Expenditures**

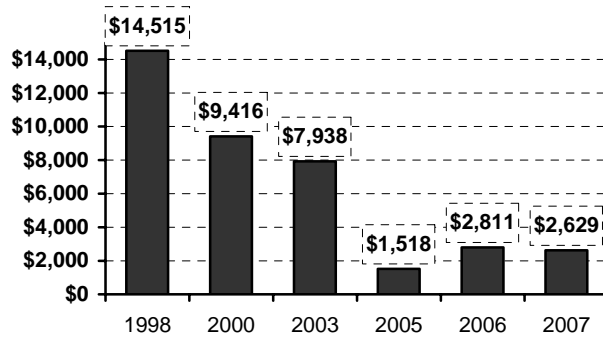
Per County Resident Served



- ❖ From 1998 to 2007 SWM operating expenditures per resident served (excluding River Improvement costs) increased 65% after adjusting for inflation. The ten year average is \$42.00.

**SWM Maintenance and Operations Expenditures**

Per County Owned Stormwater Pond



- ❖ From 1998 to 2007 the maintenance and operations expenditure per County owned stormwater pond decreased 82% after adjusting for inflation. The ten year average is \$8,043.

## 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 2008 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 2008 budget are:

- a) The on-going expenses associated with these various studies;
- b) The costs for staff assigned to these activities; and
- c) Interest expense.

The funding for the development of the Water Utility is provided by a loan from the Sewer Utility Capital Reserve Fund.

### FUNDING SOURCES

	2005 Actual	2006 Actual	2007 Budget	2008 Budget	Absolute Change	Percent Change
Other Financing Sources	\$ —	\$ —	\$ 312,900	\$ 188,940	\$ (123,960)	(39.6) %
<b>Total</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ 312,900</b>	<b>\$ 188,940</b>	<b>\$ (123,960)</b>	<b>(39.6) %</b>

### EXPENDITURES

	2005 Actual	2006 Actual	2007 Budget	2008 Budget	Absolute Change	Percent Change
Salaries & Wages	\$ 9,212	\$ 7,322	\$ 10,570	\$ 11,550	\$ 980	9.3 %
Personnel Benefits	(659)	(520)	2,690	2,950	260	9.7
Other Services & Charges	83,157	8,286	259,220	126,720	(132,500)	(51.1)
Capital Outlays	—	245,719	—	—	—	—
Interest	23,655	33,430	40,420	47,720	7,300	18.1
<b>Total</b>	<b>\$ 115,365</b>	<b>\$ 294,237</b>	<b>\$ 312,900</b>	<b>\$ 188,940</b>	<b>\$ (123,960)</b>	<b>(39.6) %</b>

### STAFFING SUMMARY

	2003 FTE	2004 FTE	2005 FTE	2006 FTE	2007 FTE	2008 FTE
WW Utility Manager	—	—	—	—	0.10	0.10
GIS Specialist	—	0.01	0.01	0.01	—	—
Special Asst to Dir PW&U	0.10	0.10	0.08	—	—	—
Water Programs Manager	0.20	0.20	—	—	—	—
<b>Total</b>	<b>0.30</b>	<b>0.31</b>	<b>0.09</b>	<b>0.01</b>	<b>0.10</b>	<b>0.10</b>

*Water Utility Fund*

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