

**PORT TOWNSEND CITY GOVERNMENT WORKSHEETS  
ENERGY USAGE FOR BUILDINGS FOR BASE YEAR 2005**

DEPARTMENT	BUILDING	PSE Meter	ELECTRICITY		PROPANE		FUEL OIL	
			\$	kWh	\$	gal	\$	gal
<b>ADMINISTRATION</b>								
City Hall Annex - 2006/07 (1)	250 Madison		\$7,701	98,480	\$3,835	1,917		
Historic City Hall - 2007 (2)	540 Water Street	J065629732	\$1,526	19,520	\$2,084	1,042		
Water Quality/Housing	5210 Kuhn	J061316203	\$1,211	15,600				
Administrative Office	1220 Lawrence	B037413504	\$1,373	17,780				
<b>LIBRARY</b>								
	1220 Lawrence		\$14,105	174,280				
<b>PUBLIC WORKS (3)</b>								
Shop	1818 Beech	U012429666	\$2,253	29,649				
Shop #2	1818 Beech	U012431532	\$2,072	25,770				
Modular #1	1818 Beech	U012429667	\$1,081	13,050				
Modular #2	1818 Beech	U012429668	\$1,138	13,792				
<b>BIOSOLIDS</b>								
Compost Facility	603 City Landfill Rd	Z004892683	\$9,182	124,350				
<b>PARKS</b>								
Chetzemoka Park Office		U010463258	\$1,324	17,221				
Chetzemoka Park Restroom		U012467608	\$274	2,764				
Union Wharf	627 Tyler	Z004240602	\$710	7,190				
Haller Fountain	Washington & Taylor	H079318823	\$412	4,330				
Pope Marine Park	Pope Marine	U010021722	\$943	11,930				
Bell Tower	Tyler & Jefferson	U014435988	\$98	265				
12th Street Park - Kah Tai	12th Street	R054625530	\$111	448				
<b>POOL (4)</b>	Mountain View School		\$8,040	102,825			\$43,845	21,380
<b>POLICE DEPARTMENT</b>								
	607 Water		\$4,589	62,318				
<b>TOTALS</b>								
			\$58,143	741,562	\$5,919	2,959	\$43,845	21,380

## PORT TOWNSEND CITY GOVERNMENT WORKSHEETS

### ENERGY USAGE FOR BUILDINGS FOR BASE YEAR 2005

Notes							
1. City Hall Annex	Under construction in 2005 (11,795 sq. ft.). Using 2006 data from PSE. Using 46% of 2007 data for propane, since tank is shared with Historic City Hall (25,488 sq. ft.). Costs pro-rated to 2005.						
2. Historic City Hall	Under construction in 2005/06. Using 2007 data provided by PSE, divided by 2, since 50% of space is Museum. Using 2007 propane data, divided by 4, since 50% goes to City Hall Annex and 25% to Museum. Costs pro-rated to 2005.						
3. Public Works	Shops shared by street maintenance and water/sewage facilities.						
4. Pool	Mountain View School. City pays for pool and locker rooms (6,485 sq.ft.) in a larger building that is heated by a single boiler. In 2005 City paid 70% of fuel oil and 26% of electricity used in building. Information provided by David Herrington, 379-4513, dherrington@ptsd50.org						
5. Buildings	Data compiled by Catherine McNabb, Public Works, 379-5089, cmcnabb@cityofpt.us PSE data provided by Linda E. Streissguth, (360) 394-6618, linda.streissguth@pse.com						
6. Document revised again by Joanna & Thomas Loehr, May 23, 2008.							
<b>7. File: City 2005 Emissions Worksheets, 7-6-08.xls</b>							

**PORT TOWNSEND CITY GOVERNMENT WORKSHEETS**  
**VEHICLE FUEL USAGE FOR BASE YEAR 2005**

Department	Eqpt. #	Description (1)	Type	Unleaded (2)		Diesel (2)	
				\$	Gallons	\$	Gallons
Biosolids	6	1988 Dodge 3/4 Ton	LT	\$488	229		
Biosolids	7	1994 Intl Dump Truck	HT			\$758	286
<b>Sub-Total</b>				<b>\$488</b>	<b>229</b>	<b>\$758</b>	<b>286</b>
DSD	39	2004 Chev Colorado	LT	\$737	339		
<b>Sub-Total</b>				<b>\$737</b>	<b>339</b>	<b>\$0</b>	<b>0</b>
Engineering	2	2004 Jeep	LT	\$607	284		
Engineering	9	1995 Ford CV	FSA	\$105	50		
Engineering	98	1994 GMC PU	LT	\$74	32		
<b>Sub-Total</b>				<b>\$786</b>	<b>365</b>		
Equipment	11	1986 Chev PU	LT	\$1,309	601		
Equipment	12	1993 Aremate Step Van	LT	\$238	111		
Equipment	13	Misc	Misc				
<b>Sub-Total</b>				<b>\$1,548</b>	<b>712</b>	<b>\$0</b>	<b>0</b>
Parks	15	1983 Chev PU	LT			\$168	79
Parks	16	1995 Ford Crown Vic	FSA	\$119	55		
Parks	17	1994 Chev 1 ton	HT	\$1,206	547		
Parks	70	1988 Toyota Flatbed	LT	\$275	118		
Parks	85	Misc	Misc	\$52	22	\$294	127
<b>Sub-Total</b>				<b>\$1,652</b>	<b>742</b>	<b>\$463</b>	<b>206</b>
Police	99	2004 Ford CV	FSA	\$1,870	829	\$2,032	800
Police	3	2003 Ford CV	FSA	\$1,316	594		
Police	10	1997 Chev Lumina	FSA	\$829	374		
Police	35	1998 Ford CV	FSA	\$1,496	743		
Police	38	2003 Ford CV	FSA	\$1,272	562		
Police	42	1997 Ford CV	FSA	\$196	91		
Police	43	2000 Ford CV	FSA	\$1,107	495		
Police	44	2003 Ford CV	FSA	\$2,039	913		
Police	45	2000 Chev Impala	FSA	\$864	391		
Police	47	2004 Ford CV	FSA	\$2,220	996		
Police	48	2004 Ford CV	FSA	\$2,384	1,103		
Police	49	1995 Chev Caprice	FSA	\$538	247		
Police	54	2004 Ford CV	FSA	\$2,161	975		
Police	55	2004 Ford CV	FSA	\$1,655	733		
Police	46	1983 Chev PU	LT			\$37	13
Police	59	2002 Chev Tahoe	LT	\$881	403		
<b>Sub-Total</b>				<b>\$20,827</b>	<b>9,447</b>	<b>\$2,070</b>	<b>813</b>

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**VEHICLE FUEL USAGE FOR BASE YEAR 2005**

Department	Eqpt. #	Description (1)	Type	Unleaded (2)		Diesel (2)	
				\$	Gallons	\$	Gallons
PW	18	1998 Chev Lumina	FSA	\$127	72		
PW	31	2003 Honda Hybrid	MSA	\$60	30		
PW	93	2003 Honda Hybrid	MSA	\$190	84		
PW	97	1993 Ford Taurus	MSA	\$886	411		
<b>Sub-Total</b>				<b>\$1,262</b>	<b>597</b>	<b>\$0</b>	<b>0</b>
Street	77	1997 Ingersoll Roller	HT			\$154	63
Street	75	1989 JD Grader	HT			\$302	134
Street	73	1987 John D Backhoe	HT			\$515	216
Street	72	1989 John Deere Loader	HT			\$567	251
Street	50	1990 GMC Dump Truck	HT			\$634	260
Street	74	1985 Ford Tiger Mower	HT			\$1,134	507
Street	52	1998 Int 5yd Dump	HT			\$1,404	594
Street	14	2002 Elgin Sweeper	HT			\$4,311	1,790
Street	81	1985 GMC 5yd Dump	HT	\$986	452		
Street	97	2004 Chev 1 ton	HT	\$1,261	565		
Street	67	1997 Chev S10 PU	LT	\$953	431		
Street	80	2004 Chev Silverado	LT	\$1,593	725		
Street	89	1992 Ford Ranger	LT	\$1,239	562		
Street	87	Misc	Misc	\$9	4	\$89	34
<b>Sub-Total</b>				<b>\$6,041</b>	<b>2,738</b>	<b>\$9,110</b>	<b>3,848</b>
Water Distrib.	65	1995 JD Backhoe	HT	\$37	16	\$278	119
Water Distrib.	62	1990 GMC Dump Truck	HT			\$549	228
Water Distrib.	63	1998 Chev 1 1/2 ton	HT	\$2,194	1,011		
Water Distrib.	64	1992 Ingersol Rand	HT				
Water Distrib.	78	2004 Chev 1 ton	HT	\$2,991	1,326		
Water Distrib.	37	1997 Chev S10 PU	LT	\$1,247	588		
Water Distrib.	69	1995 Chev S10	LT	\$2,024	918		
Water Distrib.	82	1997 Chev S10 PU	LT	\$1,387	609		
Water Distrib.	86	Misc	Misc				
<b>Sub-Total</b>				<b>\$9,879</b>	<b>4,468</b>	<b>\$828</b>	<b>346</b>
Water Quality	34	1998 Ford Ranger	LT	\$813	364		
Water Quality	36	1993 Chev S10 Blazer	LT	\$614	281		
<b>Sub-Total</b>				<b>\$1,426</b>	<b>645</b>	<b>\$0</b>	<b>0</b>
WWC	84	1984 Ford Vactor	HT	\$673	300		
WWC	95	1998 Vactor	HT			\$1,565	802

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**VEHICLE FUEL USAGE FOR BASE YEAR 2005**

Department	Eqpt. #	Description (1)	Type	Unleaded (2)		Diesel (2)	
				\$	Gallons	\$	Gallons
<b>Sub-Total</b>				<b>\$673</b>	<b>300</b>	<b>\$1,565</b>	<b>802</b>
WWT	19	1995 Ford CV	FSA	\$289	129		
WWT	83	2004 Chev 1/2 ton	LT	\$547	239		
WWT	88	1992 Chev 3/4 ton	LT	\$1,147	527		
<b>Sub-Total</b>				<b>\$1,983</b>	<b>895</b>	<b>\$0</b>	<b>0</b>
<b>August 2005 (2)</b>			FSA	\$2,266	988		
			LT	\$2,266	988		
			HT			\$2,028	908
<b>Sub-Total</b>				<b>\$4,532</b>	<b>1,976</b>	<b>\$2,028</b>	<b>908</b>
			<b>Total</b>	<b>\$51,825</b>	<b>23,453</b>	<b>\$17,489</b>	<b>7,209</b>
			<b>Total Cost</b>	<b>\$69,314</b>			
NOTES:							
1. Vehicle descriptions may have changed during the year as vehicles are purchased and surplussed.							
2. Fuel report was not done for August. Estimated using the July totals, assuming gasoline usage was 50% FSA, 50% LT.							
3. Data compiled by Catherine McNabb, Public Works, 379-5089, cmcnabb@cityofpt.us							
4. Document revised by Joanna & Thomas Loehr, May 13, 2008.							
5. File: City 2005 Emissions Worksheets, 7-6-08.xls							

**PORT TOWNSEND CITY GOVERNMENT WORKSHEETS  
EMPLOYEE COMMUTE FOR BASE YEAR 2005**

<b>Vehicle Type</b>	<b>No. of Employees</b>	<b>Miles per Year</b>	<b>Miles for ALL employees</b>
Passenger car	28	91,300	154,746
Compact or hybrid car	3	36,375	61,653
Light truck, van, SUV	26	70,685	119,805
Bicycle	2	1,250	2,119
Walk	3	1,500	2,542
<b>TOTALS</b>	<b>62</b>	<b>201,110</b>	<b>340,865</b>

**NOTES:**

Miles traveled per vehicle in survey averaged as follows:

for round-trip commute distance under 5 miles, used 2.5 miles;

5-10 miles = 7.5 miles;

10-15 miles = 12.5 miles;

15-20 miles = 17.5 miles

over 20 miles used actual mileage reported

Mileage for carpools (3 passenger cars, 2 light trucks/vans) divided by 2.

62/105 city employees responded to the survey, or 59%.

The calculated annual mileage was adjusted (division by 0.59) to give miles per year for all employees.

Passenger car was assumed to be mid-sized. Large trucks were assumed to be pick-ups.

Survey conducted by Judy Surber, City of Port Townsend Planning Department,

Survey results tabulated by Thomas and Joanna Loehr

This file: City 2005 Emissions Worksheets, **7-6-08**

**PORT TOWNSEND CITY GOVERNMENT WORKSHEETS  
ENERGY USAGE BY STREETLIGHTS FOR BASE YEAR 2005**

DEPARTMENT	LOCATION	PSE Meter	ELECTRICITY	
			\$	kWh
Pedestrian Xing Light	524 F St.	U014437305	\$77	1
Water Street Seawall Light	On wall near Ferry	H082149627	\$313	3,070
City Street Lights (5)	495 locations	IntoLight	\$22,000	275,000
<b>TOTALS</b>			<b>\$22,391</b>	<b>278,071</b>
NOTES:				
1. Street Lights	Electric Franchise Report dated June 15, 2000, lists 273,000 kWh for 491 street lights. Prorated for 495 street lights in 2005 at a cost of \$0.08/kWh in 2005. From John Merchant, Public Works, 379-4432, jmerchant@cityofpt.us			
<b>2. File: City 2005 Emissions Worksheets, 7-6-08</b>				

**PORT TOWNSEND CITY GOVERNMENT WORKSHEETS  
ENERGY USAGE FOR WATER/SEWAGE FOR BASE YEAR 2005**

DEPARTMENT	BUILDING	PSE Meter	ELECTRICITY	PROPANE	
			\$	kWh	gal
<b>PUBLIC WORKS SHOPS</b>					
Pumps - Equip. Rental Shop	1800 Redwood	U012431534	\$3,591	48,486	
<b>WATER QUALITY</b>					
Reservoir	2911 20th St	U012231851	\$673	8,236	
Water Treatment Plant (1)	530 Grouse	A091650115	\$1,905	25,140	\$427 274
Well Pump	Ash Loop Well #1	H083942853	\$73	902	
Well Pump	Ash Loop Well #2	H083942827	\$687	8,490	
Pump Station	FOUR CORNERS	H070722735	\$226	2,100	
Water Barn (Storage)	Garfield & Harrison	U012467685	\$16	201	
<b>WQ Total</b>			<b>\$3,581</b>	<b>45,069</b>	<b>\$427 274</b>
<b>WATER</b>					
Pump Station	Four Corners				
Pump Station	F Street	Z001242453	\$3,454	42,560	
Pump Station / MH Res.	807 Reed St	U018040304	\$525	5,796	
<b>Water total</b>			<b>\$3,979</b>	<b>48,356</b>	
<b>WASTEWATER</b>					
WWTF	5300 Kuhn	Z004282026	\$87,441	1,257,840	
Lift Station	1903 31st St	R062082383	\$127	644	
Sewer Pump	400 Clay	U096015569	\$100	283	
Sewer Pump	2500 Howard	Z002069959	\$583	5,480	
Pump Sation	Vista Blvd	U015039082	\$185	1,408	
Pump Sation	Boat Haven Pump	Z014706473	\$668	6,680	
Pump Sation	Gaines St	Z004214121	\$5,880	74,240	
Lift Station	Galleon	U012234416	\$98	263	
Pump Sation	Monroe St	Z004240439	\$1,444	17,370	
<b>Wastewater Total</b>			<b>\$96,525</b>	<b>1,364,208</b>	
<b>STORMWATER</b>					
Stormwater Facility	Kearney & Washington	Z001904331	\$410	3,130	
<b>NOTES:</b>		<b>TOTAL</b>	<b>\$114,691</b>	<b>1,460,763</b>	
1. Water Treatment Plant includes caretaker's house.					
2. Electricity data via Catherine McNabb, from Linda E. Streissguth, (360) 394-6618, linda.streissguth@pse.com					
3. Propane data Catherine McNabb, Public Works, 379-5089, cmcnabb@cityofpt.us					
4. Document revised again by Joanna & Thomas Loehr, May 19, 2008.					
5. File: City 2005 Emissions Worksheets, 7-6-08					