

MONTOURSVILLE BOROUGH WATER WORKS

2007 WATER REPORT

During the past year, the Water Works pumped a total of 198,704,000 gallons of water from all sources. This figure represents a 1% decrease from that pumped during 2006, and a 5% decrease over 2005 figures. Percentages of production for individual sources were as follows: Sylvan Dell Spring - 37%, Well #4 – 56% and Well #5 – 7%. Wells #2 and #3 were only run for testing, sampling, or to exercise the pumps. No water from either Well #2 or Well #3 were introduced into the system.

Direct pumping costs for 2007 were \$25,899.90. This includes the cost of electricity, chemicals, natural gas, propane, phone service, and laboratory expenses. This figure does not include expenditures for maintenance or repairs, or the replacement of equipment. Using only the pumping cost figure listed above, water production per 1,000 gallons was \$0.13, an increase of \$0.01/ 1000 gallons over 2006 expenses.

Of the total gallons pumped during the past year, 121,454,000 gallons were billed through normal residential and commercial procedures for a total of \$479,313.97 in water rents. An additional 5,456,200gallons of water were sold as bulk sales for added revenues of \$29,811.55. During 2007 the Borough once again took advantage of the PADOT Agility Program. In return for 158,560 gallons of water the Borough received a variety of PADOT provided services. These services more than compensated the Water Works for the water withdrawn from the system by PADOT.

The difference between the actual pumping figure (198,704,000gallons) and the total gallons of water billed, sold, or exchanged (126,910,200 gallons) amounts to 71,793,800 gallons of unbilled water. The following combination of actual and estimated usages partially accounts for the amount of the unbilled figure:

Main & service breaks	14,041,460 gallons (partially estimated)
Fill municipal pool	389,000 gallons (metered)
Top-off pool during the season	536,100 gallons (metered)
Pool bath house	40,000 gallons (metered)
Indian Park	69,000 gallons (metered)
Un-metered park usage (Indian Park & Boat Dock)	40,000 gallons (estimated)
Borough Maintenance Bldg. -----	38,000 gallons (metered)

Borough Office	31,000 (metered)
System & maintenance flushing	511,700 gallons (partially metered)
Back-pumping overflow @ Sylvan Dell Reservoir	10,000,000 gallons (estimated)
Topping-off reservoirs	1,820,000 gallons (partially metered)
PADOT, airport, (fire planes), fire company, and Sunoco	204,000 gallons
TOTAL:	27,720,260 gallons of unbilled, accountable water.

The remaining 44,073,540 gallons represents lost or unaccountable water which is 22 % of the total gallons pumped during 2007. There are several factors within the system which account for additional water loss: Un-metered grass sprinkler and concession building water use at the Little League field, un-metered use at the Willing Hand Hose Fire Company, and fire and practice usages by the fire company.

2007 usage figures for our four largest water consumers are as follows:

Wal-Mart	1,740,000 (1,850,000 in 2006)
Montoursville School District (all three schools, plus Giles Field & Memorial Stadium)	4,522,000 (3,267,000 in 2006)
(This figure includes 1,767,000 gallons used for watering the football and soccer fields)	
Soapy Joe's Car Wash	1,690,000 (1,730,000 in 2006)
Lowe's	930,000 (890,000 in 2006)

The total of yearly usage for these four customers is 8,882,000 gallons. This figure represents 7 1/3 % of the total billed water figure, and is 4 1/2 % of the gross pumping figure.

2007 WATER REPORT FIGURES

PUMPED AND METERED FROM SOURCE: 198,704,000 gallons
 TOTAL GALLONS BILLED: 126,910,200 gallons
 UNBILLED: 71,793,800 gallons
 AVERAGE USAGE PER MONTH: 16,558,666 gallons
 AVERAGE USAGE PER DAY: 544,394 gallons
 PEAK MONTH: June 19,173,000 gallons
 LOW MONTH: February 13,950,000 gallons
 PEAK DAY: October 16 939,000 gallons
 LOW DAY: January 13 434,000 gallons
 POLY-PHOSPHATE USAGE: 411.88 gallons
 CHLORINE USAGE: 689.5lbs(4.6containers)
 TOTAL COST OF PUMPING: \$ 25,899.90
 TOTAL WATER REVENUE: \$509,125.52

BREAKDOWN OF WELLS

	TOTAL GALLONS PUMPED	OPERATING DAYS	AVERAGE GPD FOR DAYS OPERATING	% OF PRODUCTION
WELL #2	0	0	0	0
WELL #3	0	0	0	0
WELL #4	110,391,000	227	486,304	56%
WELL #5	15,398,000	48	320,792	7%
SYLVAN DELL	72,915,000	365	199,767	37%

	CHLORINE (LBS)	PEAK DAY (GALLONS)	LOW DAY (GALLONS)	MONTHLY TOTAL
JANUARY	60	29 491,000	13 434,000	14,438,000
FEBRUARY	63	13 578,000	2 463,000	13,950,000
MARCH	57.5	13 540,000	24 439,000	15,371,000
APRIL	44	24 563,000	5 452,000	14,627,000
MAY	62.5	30 686,000	2 496,000	18,361,000
JUNE	56	19 729,000	5 591,000	19,173,000
JULY	52	10 714,000	24 521,000	18,997,000
AUGUST	56.5	3 685,000	25 492,000	17,540,000
SEPTEMBER	58	18 603,000	29 517,000	16,543,000
OCTOBER	71.5	16 939,000	27 495,000	18,073,000
NOVEMBER	57	5 517,000	20 435,000	14,795,000
DECEMBER	51.5	27 635,000	1 462,000	16,836,000

WATER OPERATORS REPORT

During 2007, Water Operators tapped and installed two new service lines.

We repaired 3 main breaks. We repaired or rebuilt several hydrants throughout the year. We used our valve exerciser and worked on our valve exercise program again as time permitted.

Every weekend, either Doc or myself, came in to do the necessary well checks, and during the summer months we also had to do the pool tests.

We were responsible for getting the park ready for summer by getting the water turned on and repairing any leaks. This involved doing a lot of plumbing repairs to the bathrooms. In the V.I.P. bathrooms, some of the plumbing is beyond repair, and is in need of replacement parts.

We also were in charge of the municipal pool: draining and cleaning in spring, filling it and maintaining proper chemical balance for the summer, and doing plumbing repairs that were needed. (The bathhouse needs to be completely redone. A lot of the plumbing is held together with goop.)

Operators responded to 243 PA One Calls, many service calls and some customer complaints, took 103 final meter readings, and delivered 200 shut-off notices for non payment of water, and 18 shut-offs for the Lycoming Water and Sewer Authority.

All USEPA and PADEP required sampling were completed prior to deadlines. All tests came back within acceptable ranges for DEP monitoring guidelines. Water quality tests were done on a regular basis.

The Water Department is also responsible for sign maintenance and installation, and they pick up the dead animals lying on the streets.

Lisa Johnson
Ron Shearer
Water Operator
Montoursville Borough Water Works