

Water system losses report 5/23/11

Work on curb stop adjustments has begun in earnest in May as staff has become available for that work and the weather has improved. Implementation of the valve exercising program will begin in June. Commercial meter testing will begin after water service work is completed. Residential and commercial cross connection inspections will begin shortly. Staff will obtain an outside consultant for peer review of leakage audit efforts. This review will include recommendations for additional audit actions and recommendations that will supplement this report. Current leakage data and performance information is provided below:

<u>Water service data</u>	<u>Current period</u>	<u>To date</u>
Curb boxes located	0	4956
Curb boxes adjustment (completed/needed)	220/0	585/1281
Curb boxes GPS located	780	4925
Curb boxes leak tested	354	4868
Leaks found (Village / Private)	0/0	23/7
Leaks repaired (Village / Private)	0/0	23/7

<u>Water meter data</u>	<u>Current period</u>	<u>To date</u>
Residential Meters change notices sent out	0	197
Residential Meters changed / tested	32	176
Commercial Meters change notices sent out	0	0
Commercial Meters changed / tested	0	0

<u>Water usage data</u>	<u>Measurement</u>
Average daily water usage	1.708 MGD 2008, 1.762 MGD 2009, 1.689 MGD 2010
Total 6 mo. average system losses 22%, August 2010	330,000 - 385,000 GPD or \$1,500 per day
15% leakage threshold	225,000 – 263,000 GPD
Number of water services	approx 5,800
Current rate of leaking services	0.6%
Projected number of leaking services	35

<u>Year</u>	<u>Pumped</u>	<u>Sold</u>	<u>% Sold/Unsold</u>	<u>Not Sold (NS)</u>	<u>NS Acct*</u>	<u>NSUnacct**</u>	<u>% Unaccounted</u>
2000	598,898	414,683	69%/31%	184,215	95,500	88,715	18%
2001	640,188	492,275	77%/23%	147,913	101,000	46,913	7%
2002	631,980	474,974	75%/25%	157,006	112,000	45,006	7%
2003	662,678	599,115	90%/10%	63,563	30,500	33,063	5%
2004	701,227	616,448	88%/12%	84,779	28,000	56,779	8%
2005	766,323	628,311	82%/18%	138,012	29,800	108,212	14%
2006	732,793	692,154	94%/6%	40,639	23,300	17,339	2%
2007	731,696	725,217@#	99%/1%	6,479	5,700	779	0%
2008	623,490	557,077	89%/11%	66,413	7,050	59,363	10%
2009	643,244^	513,143	80%/20%	130,101	7,080	123,021	19%
2010	616,348	490,936	80%/20%	125,412	18,050	107,362	17%

CBCWA water supply began in Sept 2007

@ Monthly billing implemented in Jan 2007 and skewed sales

^ Bold data in 2009 corrected to actual pumpage. 2010 estimated data.

* 2010 – 0.05 M treatment process, 2 M Tank Overflows, 10 M system filling/flushing, 6 M fire fighting & training, 0 M meter errors, 5M detected watermain and service leakage.

** 2010 – 107,362 M unreported/undetected watermain and service leakage, vandalism & theft.

Automatic meter reading was implemented between Jan 2004 and June 2006

6 month average unsold water rate trend***

2010	<u>Jan</u>	<u>Feb</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug</u>	<u>Sept</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>
						21%	20%	22%	21%	22%	20%	23%
2011	<u>Jan</u>	<u>Feb</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug</u>	<u>Sept</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>
	23%	23%	23%	24%								

*** note this rate can fluctuate up and down, but should slowly trend downward. The first water service repairs were made during the first week of November.