

Water system losses report for 3/28/11

Meter changes and meter testing have begun. Staff will be contacting approximately 200 residential customers to change and test meters to determine if customer meters are reasonably accurate. All large non-residential meters will also be tested this summer. Initial residential meter testing results indicate that residential metering is not a problem. One large watermain break occurred when a fire hydrant blew off. One water service was also repaired. Service leakage testing and curb stop adjustments will resume in early April. 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)	0/0	365/1281
Curb boxes GPS located	0	4145
Curb boxes leak tested	0	4514
Leaks found (Village / Private)	1/0	22/7
Leaks repaired (Village / Private)	1/0	22/7

<u>Water meter data</u>	<u>Current period</u>	<u>To date</u>
Residential Meters change notices sent out	34	194
Residential Meters changed / tested	36	98
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
Potential water service leakage rates	a wide range of flows can occur, 720 to over 14,000 GPD
Projected service repair savings	2gpm @\$4.20/1000 gallons or 100,000 GPD or \$420 per day
Projected leakage after repairs	230,000 – 285,000 GPD, or approx 16%

Water supply statistics

<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.

AR 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%										

*** 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, such that mid-December readings should be the first to show some reductions.