

Town of Milton

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A BETTER ACCOUNTING OF WATER USE

July 2, 2012

Meter Upgrades completed

Address	Meter Changed	Notes
416 Atlantic Street	6/2/2012	not working
525 Atlantic Street	Jun-12	not working
215 Atlantic Street	5/29/2012	not working
404 Chestnut Street	Jun-12	not working/inside
106 Atlantic Avenue	Jun-12	not working
331 Union Street	6/2/2012	not working/inside
405 Union Street	6/2/2012	not working/inside
107 Union Street	Jun-12	not working/inside
408 Holland Street	5/30/2012	not working
409 Yew Street	6/2/2012	not working/inside
113 Broad Street	5/29/2012	not working/inside
202 Federal Street	Jun-12	manual read
501 Atlantic Avenue	5/30/2012	manual read
321 Union Street	5/30/2012	manual read
403 Cedar Street	5/30/2012	manual read
407 Cedar Street	5/30/2012	manual read
603 Union	5/22/2012	inside meter
116 Betts	Jun-12	under house
114 Milton- Ellendale	6/2/2012	
104 Bay Avenue		cant fit under house
413 Pine Street	5/30/2012	inside meter
606 Atlantic Avenue		
330 Behringer Ave.		inside meter
435 Rudder Lane		inside meter
105 Front Street	6/2/2012	
608 Mulberry Street	5/21/2012	
609 Mulberry	5/22/2012	
411 Union Street		on order
512 Union Street		on order
113 Milton- Ellendale		Returned to sender
115 Milton- Ellendale		Returned to sender
103 Mulberry		on order
307 Federal Street		on order
302 Union Street		inside meter
524 Union Street		under constr
530 Union Street	5/21/2012	inside meter

607 Union Street	5/25/2012	inside meter	
333 Union Street	Jun-12	inside meter	
113 Union Street	5/30/2012	inside meter	
105 Union Street	6/5/2012	inside	
109 Broad Street	Jun-12	inside meter	
109 Betts Street		under house	
112 Betts Street		under house	
117 Milton- Ellendale		under house	
107 Broadkill	5/24/2012	inside meter	
509 Bennett Street	Jun-12	inside meter	
403 Boxwood Street	5/29/2012	inside meter	
411 Hazzard Street	Jun-12	inside meter	
407 Hazzard Street	Jun-12	inside meter	
418 Pine Street		ordered	
414 Boxwood Street	5/30/2012	inside meter	
410 Boxwood Street		inside meter	
410 Conwell Street	5/29/2012	inside meter	
415 Conwell Street	5/29/2012	inside meter	
707 Atlantic Avenue	Jun-12	inside meter	
405 Atlantic Avenue	5/30/2012	inside meter	
404 Atlantic Avenue	Jun-12	inside meter	
411 Behringer Avenue	6/2/2012	inside meter	
312 Behringer Avenue		inside meter	
311 Behringer Avenue	6/6/2012	inside meter	
103 Genoa Lane	Jun-12	inside meter	
102 Federal/Bookstore			inside meter
120 Federal Street	Jun-12	inside meter	
424 Federal Street	Jun-12	inside meter	
610 Federal Street	5/21/2012	inside meter	
601 Federal Street		inside meter	
105 Federal Street		inside meter	
315 Chestnut Street	5/29/2012	inside meter	
419 Chestnut Street	Jun-12	inside meter	
106 Prettyman Street		inside meter	
130 Broadkill		meter pit	
122 Milton- Ellendale		meter pit	
204 Broadkill		meter pit	
140 Broadkill		meter pit	
110 Broadkill		meter pit	
117 Morris Avenue	Jun-12	need new pit	
415 Hazzard Street	5/30/2012	meter pit	
206 Mulberry Street	5/21/2012		
107 Lavinia Street	5/22/2012		

A side-by-side bench test of old versus new meters reveals that new meters are approximately 11% more accurate. Water use varies with the number of persons and lifestyle of the household occupants. Depending upon the use at each residence or business, the upgrades will account for between 85,800 and 143,000 gallons of water per quarter – that was not previously metered.

Other Meter Upgrades

As previously reported, there were meter upgrades at certain institutional or “public” locations this Spring. They were at the Milton Elementary School, by the clock tower on Union Street and several “blocks” of apartments in Luther Towers and Milton Landing. The value of each is an annualized estimate that is represented as quarterly use.

Location	Estimated Increase in Accuracy
All residents and small commercial	85,800 – 143,000 gallons per quarter
Milton Elementary	78,000 per quarter
Union St. clock tower (public flower gardens)	25,000 gal. per quarter (annualized estimate)
Milton Landing	220,000 gal. per quarter
Luther Gardens	360,000 gal. per quarter
Total	969,000 gal. per quarter

Meters for the Milton Fire Department and four of the six churches without meters have been ordered. These meters are either large or have a unique configuration. So there will be a delay in delivery.

Incident Accounting

Water system operations have both routine and unplanned water loss incidents. These include hydrant flushing (routine) and leaks (unplanned). The following is an accounting of water that was pumped, but not metered.

Date	Incident	Gallons	Notes
March 24, 2012	Shipbuilders Tower drain & refill for maintenance	65,000	
March 25 & 30	Flushing hydrants	15,000	
March 26 – 30	Hydrant at boat basin	15,000	Pressure relief for system – “unbalanced” with one empty tower
March 28	Rt. 88 service line leak	270,000	Est. over 2 month period
April 11	Rt. 88 service line leak	6,000	Different location on Rt. 88
April 17	115 Broadkill Rd. service line leak	175,000	
April 18	205 Union service line	4,500	
April 25	Wagamon W. Shore Dr	7,500	
Various dates in April	Hydrant flushing	383,000	
May 11	Union St service line	24,000	
June 5	Cedar & Atlantic Sts.	200,000	4” main, leak twice in same day, hydrant flushing required
June 6	Union St & Rt. 16	60,000	More hydrant flushing re: June 5 th leak
Quarter	Estimated unmetered use at fire department	50,000	Meter on order
Total		1,355,000	

Estimates based upon flow rate and duration of event