

**MEETING OF THE ORLEANS
BOARD OF WATER/SEWER COMMISSIONERS
August 18, 2010**

Deling Post
TOWN OF ORLEANS
TOWN CLERKS OFFICE
10 DEC -1 PM 3:07

A meeting of the Board of Water and Sewer Commissioners was held Wednesday, August 18, 2010 in the Nauset Room, Town Hall:

Those present were Jimmy Dishner, Robert Rich, Judith Bruce and Ann Hodgkinson of the Board, associate members, Ken Rowell and Leonard Short, Lou Briganti, Water Superintendent, Ed Barr, Finance Committee liaison. Absent was Kenneth McKusick of the Board.

Ann Hodgkinson called the Board of Water and Sewer Commissioners meeting to order at 1:30 p.m.

JOHN SARGENT, 35 CRYSTAL LAKE DR

Mr. Sargent came before the Board to discuss the method which his "average usual rate" was calculated by the Orleans Water Department. It was not calculated the way he anticipated and submitted a calculation indicating what he believed to be his "average rate".

The Board agreed that the formula used by Mr. Sargent to calculate his "average rate" was what they intended when they made their motion June 2, 2010. The Business Manager reminded the Board that they had made that same motion for other abatements on June 2, 2010 and May 19, 2010 and suggested that those abatements be recalculated as well.

A motion was made by Jimmy Dishner seconded by Judith Bruce to recalculate the "average usual rate" using Mr. Sargent's formula and abate the difference. The formula should also be used to recalculate the other abatements as suggested by the Business Manager. The vote by the Board was 5-0-0.

MINUTES

A motion was made by Judith Bruce seconded by Jimmy Dishner to approve the minutes of the meeting of June 2, 2010 as written. The vote by the Board was 5-0-0.

SUPERINTENDENT'S REPORT

SEE ATTACHED REPORT

EASTHAM

The Board was provided with a draft copy of Wright Pierce's wholesale pricing evaluation for the potential sale of water to Eastham dated August 5, 2010 for discussion. Both the Water Superintendent and the Board noted several mistakes in the draft report such as the largest source for the Water Department should be the treatment plant rather than well #7. Both also would like to see a value added figure in the price for existing infrastructure.

OLD BUSINESS

WASTEWATER SUB-COMMITTEE

Each member of the sub-committee was given a task for the summer. The sub-committee will have a report for the full Board in the fall.

NEW BUSINESS

COMMITMENTS/ABATEMENTS/REFUNDS

A motion was made by Judith Bruce seconded by Jimmy Dishner to commit for the month of July 2010 to rate \$0.00, to services \$1,080.00, to usage \$0.00, to installations \$2,015.10 and to added billing \$378.00. The vote by the Board was 5-0-0.

APPROVED INSTALLERS LIST

David Stocchetti of Stocchetti Road Construction sent a letter requesting to be added to the Town of Orleans Water Departments list of approved contractors.

A motion was made by Jimmy Dishner seconded by Judith Bruce to add Stocchetti Road Construction to the approved installers list. The vote by the Board was 5-0-0.

ANNOUNCEMENTS

Leonard Short wished to thank the Foreman, Todd Bunzick for giving him a tour of the Water Department operations.

ADJOURNMENT

At 2:30 p.m., a motion was made by Jimmy Dishner and seconded by Judith Bruce to adjourn the meeting. The vote by the Board was 5-0-0.

LIST OF DOCUMENTS USED

1. August 5, 2010 Draft report from Wright Pierce regarding wholesale pricing evaluation for potential sale of water to Eastham.
2. July 12, 2010 memo from Lou Briganti to John Kelly regarding 6-yr budget comparison for BOS discussion at their meeting on July 14, 2010.
3. Commitments July 2010
4. August 18, 2010 Water Superintendents Report.
5. August 4, 2010 letter from Stocchetti Road Construction

The next regular meeting is scheduled for September 1, 2010 at 1:30 p.m.


Secretary, Board of Water/Sewer Commissioners

Board of Water & Sewer Commissioners

18AUG10

BOS

The last six (6) Water Department Budgets (FY06 to FY11) were reviewed to display the trend of increasing expenses.

The document submitted to the Town Administrator and BOS is included in the Board's packet. The topic was discussed at the 07/14 BOS meeting.

Eastham

To develop a preliminary wholesale price for selling water to Eastham we are working with Wright-Pierce and have gathered such information as;

1. Annual Statistical Reports (ASRs) from 2006-2010 to establish demands and water needs for the Town itself and to compare this to our WMA Permit.
2. Water Management Act (WMA) Permits and the limitations.
3. Electricity and Chemical Usage and Costs to capture current treatment costs.
4. Major Maintenance Costs for major pumps and systems.
5. Membrane Replacement.

Included in the Board's packet is a draft letter/report from Wright-Pierce which is meant to stimulate discussion.

EPG ran our hydraulic model and have stated that fire flows would not be affected by a 500,000 GPD draw by Eastham.

Eastham is interested in "doing something" with Wellfleet. An interconnection to Orleans would be part of phase 5 (the last phase) of the water system.

Environmental Partners feasibility study

1. IMA analysis:
 - a. quantity of water, initially and long-term, with DEP WMA approvals.
 - b. pricing structure under an IMA.
 - c. likely connection points and Orleans-improvements.
 - d. infrastructure requirements for adequate pressure and flow to the Eastham business district (needs for storage and pressure boosting stations).
 - e. potential for Orleans providing operations and maintenance services.
2. Cost-effectiveness analysis:
 - a. Eastham in-town sources vs. purchase from Orleans.
 - b. O&M options, including municipal staff, privatization, or Orleans.
3. Draft report.
4. Final report.

Board of Water & Sewer Commissioners

Lead & Copper

It's that time again; It has been 3-years and we must perform the *Lead and Copper Rule* testing.

These are first draw samples taken after 6 hours of contact time. The 90th percentile sample cannot exceed 0.015 mg Pb/L or 1.3 mg Cu/L. Exceeding either level is an Action Level violation that would require treatment.

Of 33 samples sent out, 23+ have been returned.

This is a nightmare to try to accommodate with all the work that needs to get done during the summer (when sampling is required).

Lab Certification

Just waiting.

The three required Proficiency Tests (PT) have been completed.

We have received a letter from DEP's Laboratory Certification Office. They have asked that we complete 2-rounds of Proficiency Testing (PT) before they consider our application for administrative completeness.

Meter Reading

July-Meter Reading was performed the 12th through the 23rd. Re-reads, investigations & repairs were completed the week of the 26th.

Staff commented that the process of reading was smooth and completed ahead of schedule;

- Less than 1% of badger meters needed to be re-read.
- There were 20 "very large" users.
- Only 3-accounts needed to be estimated.

The early figure on the commitment for the billing period is **\$ 926,776**.

Excellent job by Sue Brown & Laura Marshall.

WTP Membranes

1. CIP

At this point in the summer we are averaging a CIP every 2-weeks. This is a function of our higher production rates being 1+ MGD from just the WTP.

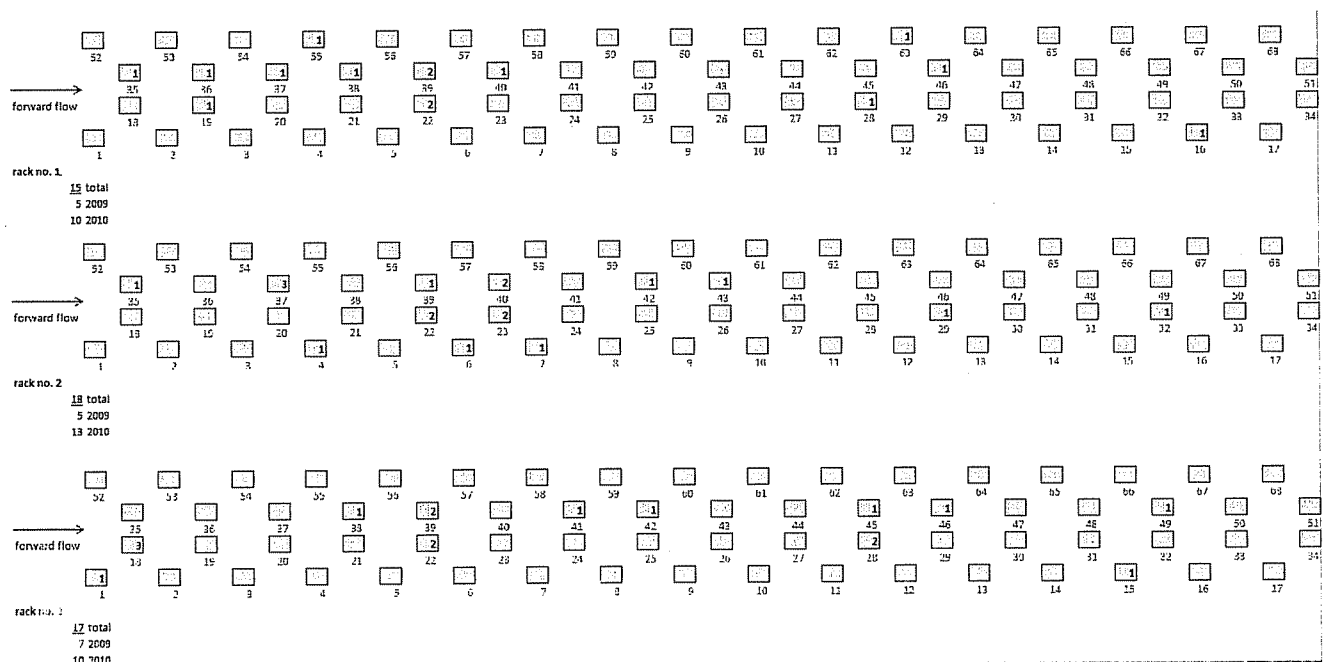
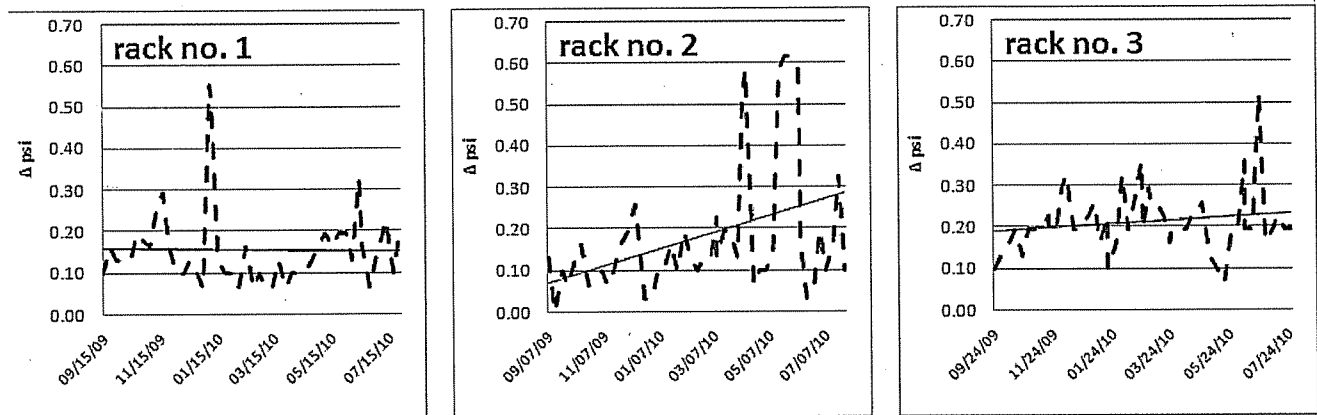
Board of Water & Sewer Commissioners

2. Membrane Fiber Breaks

There were 7 fiber breaks during July. Rack no.1 suffered 4-fiber breaks and rack no. 2, 3-fiber breaks.

To date we have a grand total of 50-fiber breaks; 88% (44) have occurred since November 2009.

Integrity Test Data



Board of Water & Sewer Commissioners

3. Membrane Replacement

We received the shop drawings from Pall Corp. Wright-Pierce reviewed the drawings with minor comments.

Additionally an issue with a confidentiality agreement was resolved and a payment schedule was agreed to;

\$14,237.50	5% upon acceptance of Purchase Order.
\$42,712.50	15% upon Acceptance of Shop Drawing Submittals.
\$199,325	70% of the Total Amount or the value of the modules.
\$14,237.50	Half of the remainder of the Total Amount upon installation of SCADA programming and modules.
\$14,237.50	Remainder of the Total Amount one week after system start-up.

Our tentative timeline will be to accept delivery of the membranes beginning the week of August 16 and perhaps begin installation the 1st or 2nd week of September (dependent upon PALL's availability).

*Pall Corp. was awarded the contract to supply replacement membranes.
We will be purchasing and replacing 50 modules rather than the 68 that are currently installed.
Being micro- UNA620A modules, plant production capacity will not change.*

Remaining Project Schedule:

- Notice of Award	May 20, 2010
- Submission of General Arrangement Drawings/Shop Drawings	June 15, 2010
- Approval of Final Submittals by Engineer/Owner	July 15, 2010
- Membrane Equipment to Be Delivered to Project Site	September 1, 2010
- Installation and Construction Support for Installation (Rack No. 1)	Sept-Nov 2010
- Completion of Start-up Testing and Training for Rack No. 1	November 2010

WMA Renewal

1. Our WMA Permit renewal is due August 31st and the application has been completed and sent to DEP. Credit goes to Susan Brown.

About 1 lb of material was submitted;

- Permit application, 8 pages.
- Conservation questionnaire, 14 pages.
- Watershed map.
- Our drought triggered demand management plan, 3 pages.
- Orleans' water supply emergency bylaw.
- Our Emergency Response Plan table of contents.

Town of Orleans
Water Department

Lou Briganti
8/16/2010

Board of Water & Sewer Commissioners

- The most recent leak detection survey.
- The Department's metering rules.

2. BCWUA was able to run a political AD in the July 11 Cape Cod Times;

From: Mark White

Subject: DEP Water Management Act Re-permitting -Public Advertisement

Date: Friday, July 09, 2010 4:11:00 PM

Attachments: BCWUA Newspaper Ad on DEP WMA Re-permitting Strategy.pdf BCWUA Members –

In response to the concerns raised by our member water utilities over DEP's strategy for the Water Management Permit renewals and the conservation restrictions they are proposing with them, the attached advertisement is to be run in this Sunday's edition of the Cape Cod Times. The concept of running a newspaper ad on this issue was discussed at our May and June meetings and endorsed by the membership, and the Executive Committee met at the Drinking Water Fair to move this forward. The advertisement was developed by the Executive Committee with input from Mass Water Works and others over the last two weeks.

Our web page provides background information DEP's WMA repermitting strategy, as well as the link to a summary of the USGS study that concludes that water withdrawn for water supply purposes represents only 6% of the recharge to the Cape Cod aquifers. This information has been forwarded to the local and state representatives that have been referenced in the advertisement. We encourage you to also let your representatives know how you feel about these conservation measures being proposed by DEP for the Cape's water systems.

Mark N. White
Environmental Partners Group, Inc.

Board of Water & Sewer Commissioners

POLITICAL ADVERTISEMENT • POLITICAL ADVERTISEMENT



Would you want to pay *more* for less?

Water withdrawals in Massachusetts are regulated by the Massachusetts Department of Environmental Protection (DEP). On Cape Cod, DEP is proposing to incorporate strict conservation conditions during the renewal process for Water Management Permits. These conditions will regulate the amount of water that you can use on a daily basis and will lead to higher increases in your water bill. DEP is mandating water use restrictions which will be required from May-September each year regardless of pond levels or rainfall. If these conditions are incorporated into the Water Management Permits, **you will only be allowed to water outdoors two days a week**--this includes watering your landscaping, watering your lawn, washing your cars, washing windows, hosing down your porch and the list goes on and on.

There is no scientific data justifying the implementation of this program. The DEP hired the United States Geological Survey (USGS) to develop a groundwater model which showed that public water purveyors cape-wide withdraw approximately 5% of the water stored underground. The USGS science proves there is no need for such strict measures on Cape Cod. Public water suppliers have fixed costs that are met through water revenues. If water usage decreases, which is the goal of this proposed plan, water rates will have to increase to meet those fixed costs. If you don't want to pay more for less, act now and say **NO** to DEP's one-size-fits-all approach for water permitting. Don't allow them to arbitrarily restrict your water use, but rather to manage our aquifers based on sound science. For more information on this subject please go to the web page of the Barnstable County Water Utilities Association at www.bcwua.org or call Mark White, President of Barnstable County Water Utilities Association at (617) 657-0251.

Contact your local legislators and tell them to say **NO** to DEP's approach on telling you how much water you may use in any one day.

Paid for by the Barnstable County Water Utilities Association • PO Box 283, Harwich, MA 02645 • (617) 657-0251

GOVERNOR:

GOVERNOR DEVAL PATRICK
Massachusetts State House
Office of the Governor
Room 280
Boston, MA 02133
Phone: (617) 725-4005
Fax: (617) 727-9725
Email: constituent.services@state.ma.us

SECRETARY:

SECRETARY IAN BOWLES
Executive Office of Energy &
Environmental Affairs
100 Cambridge St
Suite 900
Boston, MA 02114
Phone: (617) 626-1000
Fax: (617) 626-1161
Email: env.internet@state.ma.us

STATE REPS:

SARAH PEAKE
State House
Room 473F
State House
Boston, MA 02133
Phone: 617-722-2210
Fax: 617-722-2239
Email: Rep.SarahPeake@Hou.State.ma.us
District Office 508-487-5594

MATTHEW PATRICK
State House
Room 540
State House
Boston, MA 02133
Phone: 617-722-2090
Fax: 617-722-2948
Email: Rep.MatthewPatrick@hou.state.ma.us
District Office
24 Collins Road
PO Box 3252
Falmouth, MA 02536
508-540-6308

JEFFREY PERRY
State House
Room 136
State House
Boston, MA 02133
Phone: 617-722-2396
Fax: 617-722-2819
Email: Rep.JeffreyPerry@hou.state.ma.us
District Office
449 Route 6A
Post Office Box 1435
Sandwich, MA 02563
Phone: (508)-888-2158
Fax: (508) 888-1179

STATE SENATORS:

THERESE MURRAY
State House
Room 330
Boston, MA 02133
Phone: (617) 722-1500
Fax: (617) 248-3840
Email: Theresa.Murray@state.ma.us

ROBERT O'LEARY
State House
Room 511B
Boston, MA 02133
Phone: (617) 722-1570
Fax: (617) 722-1271
Email: Robert.O'Leary@state.ma.us
District Office
10 Cordage Park Circle, Room 229
Plymouth, MA 02360
Phone: (508) 745-9332 | (508) 745-4910

Board of Water & Sewer Commissioners

Reference

From MWWA, 05/24/2010;

Update on Regulations to condition Water Management Act Registrations:

At the WMA Advisory Committee meeting last week, DEP unveiled their draft outline for how they envision proceeding with regulations to condition WMA Registrations.

DRAFT

**WMA Regulations on Performance Standards for Registered Withdrawals
OUTLINE**

1. Regulations will identify the performance standards applicable to registrants as of the effective date of the regulations.
2. Registrants will be grouped into categories (PWS, Cape PWS, non-PWS).
3. Standards will be applied in the same way as they were in the renewal registration statement (i.e., not all standards will apply to all categories of users).
4. Performance standards will be the same as the conditions imposed in the renewal registration statements (65 RGPCD with the exception of the Cape and Islands, 10% UAW, and restrictions on nonessential outdoor water use).
5. Performance standards will include an option allowing registrants to finance, implement and enforce Mass DEP's model conservation plans for RGPCD and UAW as the functional equivalent of meeting the applicable standard.
6. Regulations may include incentives for early compliance.
7. Definition of "nonessential water use" will be added (as defined in the renewal registration statements) to 310 CMR 36.03.
8. Final compliance date (December 31, 2017) will remain the same in order to be consistent with the expiration date of the current (renewal) registration statements.
9. Regulations will authorize Mass DEP to include a condition in renewal registration statements effective January 1, 2018 setting a compliance schedule for registrants not meeting performance standards to adopt Mass DEP's model conservation plans.
10. Regulations will establish an administrative appeal process for registrants.
11. Mass DEP will notify all registrants that new regulations applicable to all registrants have been promulgated that incorporate the performance standards set forth above.

Mass DEP also passed out the definition of "Nonessential Water Use" and is looking for feedback from the advisory committee if there are items that should be included or excluded from the definition. The current definition being used is:

"Nonessential Water Use": As used herein, "nonessential outdoor water use" means uses that are not required: (a) for health or safety reasons; (b) by regulation; (c) for the production of food and fiber; (d) for the maintenance of livestock; or (e) to meet the core functions of a business.

Examples of nonessential outdoor water uses include: the irrigation of lawns or landscaping, except by means of a hand-held hose outside the hours of 9:00 a.m. to 5:00 p.m.; washing vehicles other than by means of a commercial car wash or except as necessary for operator safety; and washing of exterior building surfaces, parking lots, driveways and/or sidewalks, except as necessary to apply paint, preservatives, stucco, pavement, cement, or the like.

Examples of acceptable outdoor water uses outside the hours of 9:00 a.m. to 5:00 p.m. include: irrigation to establish a new lawn during the months of May and September; irrigation for the

Board of Water & Sewer Commissioners

production of food and fiber or the maintenance of livestock; irrigation by plant nurseries as necessary to maintain stock; irrigation by golf courses as necessary to maintain greens and tees, and limited fairway watering; and irrigation of public parks and recreational fields."

Miscellaneous

1. Haley & Ward had prepared simple contract documents to replace the tank-finials. After Town Counsel review it was decided that the job would be formally bid.
2. The Reverse 911 that the Town uses is a computer based system versus Falmouth's phone based system. According to Chief Roy the systems are light years apart. The Health Dept. conducted a test of the system and the entire notification of the Town was completed in 10 minutes.
3. We are applying for an SRF Grant for a 0% loan for the Membrane Replacement Project (probably not much more than a snowball's ...).
4. peak day : 07/05/2010
2,721,252 gallons

