

*CDen ASS*  
TOWN OF ORLEANS  
TOWN CLERKS OFFICE

**MEETING OF THE ORLEANS  
BOARD OF WATER/SEWER COMMISSIONERS  
May 5, 2010**

**10 MAY 28 PM 4:01**

A meeting of the Board of Water and Sewer Commissioners was held Wednesday, May 5, 2010 in the Nauset Room, Town Hall:

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

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

**SUPERINTENDENT'S REPORT**

- See attached report

**OLD BUSINESS**

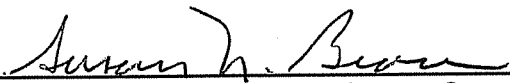
**WASTEWATER SUB-COMMITTEE**

The Boards Wastewater sub-committee provided draft minutes from their meeting on April 28, 2010 for discussion. Approved minutes will be attached to the minutes of the Board of Water and Sewer Commission.

**ADJOURNMENT**

**At 2:26 p.m., a motion was made by Ann Hodgkinson and seconded by Leonard Short to adjourn the meeting. The vote by the Board was 5-0-0.**

The next regular meeting is scheduled for May 19, 2010 at 1:30 p.m.

  
Secretary, Board of Water/Sewer Commissioners

**Board of Water & Sewer Commissioners**

**05May10**

**Brewster**

Email summary of comments to the Brewster Land Purchase with Water Dept. funds - through 04/14/2010;

Brewster Land Purchase, 375K

1. General obligation bond.

\$375,000 principal, 3.0% interest, 20 year term.

*[David A. Withrow] Total interest costs would be \$118,125.*

2. Grant.

[LAB] I don't know any programs that might be interested in providing the funds especially since its already been rejected.

3. Surcharge on base rate.

[LAB] Based on 5000 customers the surcharge would be \$40 for each of two billing periods (\$80 total).

4. General Rate Increase.

[LAB] To generate the 375K in FY11 would mean a 16% rate increase, or stick with approved 5% and add an 11% rate increase in FY12.

I have advised against a rate increase (will never happen) and against the surcharge. After last year's revenue losses and this year's pumping averaging only 400,000 to 500,000 gallons the Water Dept. simply is no position to absorb this added cost. We still don't know what the economy will do to even an average summer.

5. Sell off some other piece of land that we own.

6. Purchase outright thru tax rate by a capital expenditure exclusion.

*[David A. Withrow] This would eliminate any interest expense and would increase the tax levy for the full \$375,000 for only the year the land was purchased.*

**CONSTANT PRINCIPAL**

<u>Per Annum</u>	<u>High</u>	<u>Low</u>	<u>Average</u>
Amortization	30,000	19,313	24,656
Tax Rate Impact	0.0076	0.0049	0.0062
Per \$300K Assessment	\$ 2.27	\$ 1.46	\$ 1.87
Per \$500K Assessment	\$ 3.79	\$ 2.44	\$ 3.11

**Eastham**

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**Board of Water & Sewer Commissioners**

A meeting was held at the Eastham Town Hall on 04/28 to discuss the interconnection study. In attendance were the Town Administrators of Orleans and Eastham, the Eastham DPW Director Neil Roberts, Paul Gabriel & Mark White of EPG and myself.

The purpose was to receive a general overview of the interconnection feasibility study. EPG was asked to provide a timeline and milestones as a next step. Updates of their work will be provided through me. They will be expected to report progress to the Eastham BOS every 6 weeks, or so.

Below is the scope of work for the interconnection study provided prior to the meeting by EPG;

Received; 2010.04.20

**Eastham Water Supply Investigations**  
**Orleans Water Source Feasibility Study**  
***Project Approach and Scope of Work***

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Environmental Partners will conduct a feasibility study to assist the Town of Eastham in determining whether to purchase domestic water supplies from the Town of Orleans via an inter-municipal agreement (IMA). The feasibility study will include the following analyses:

- (1) Through meetings and discussions with the Town of Orleans, conduct the following analysis with respect to an IMA:
    - a. determine the quantity of water Orleans is able to commit to selling to Eastham, initially and long-term, with appropriate approvals from DEP under the Massachusetts Water Management Act;
    - b. obtain pricing structure for Eastham to purchase water from Orleans under an IMA;
    - c. assess the likely connection points between Orleans' existing system and new transmission/distribution mains into Eastham. Determine the improvements to the existing water system in Orleans necessary for accommodating this Eastham connection;
-

**Board of Water & Sewer Commissioners**

- d. assess the infrastructure requirements required to deliver adequate pressure and flow to the Eastham business district, and the needs for storage and pressure boosting stations for transmission purposes;
- e. evaluate the potential for and the likely costs associated with Orleans providing operations and maintenance services for the new water system components in Eastham.

(2) Conduct a cost-effectiveness analysis to compare:

- a. cost of Eastham supplying its own water from in-town sources vs. purchase from Orleans;
- b. cost of operations and maintenance options, including Eastham municipal staff, privatization, or services supplied by Orleans

(3) Prepare draft report summarizing the findings, conclusions and recommendations of the feasibility study, and meet with both towns to review and edit as appropriate.

(4) Prepare final report.

**Flushing**

System flushing for the spring began on April 21<sup>st</sup> and is proceeding on schedule. There have been very few complaints.

**Lab Certification**

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.

We hope to complete these tests by the end of May (Susan was most expeditious in ordering the tests).

Our hope is that the letter means our *Lab Manual* and *QC Plan* have been accepted and that following the PT's we will be inspected and certified.

**Tanks 1 & 2**

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## **Board of Water & Sewer Commissioners**

On 04/13 Leo Yuskus climbed both tanks one more time to take detailed measurements and more pictures of the tank finials that will be repaired.

We discussed the possibility of a prefab appliance made of aluminum - that could be installed to take the place of the finials at a greatly reduced cost.

*A Letter of Interest for repair of the tank finials has been created with the help of Leo Yuskus. Our goal will be to try and find 3 to 4 vendors that might be interested in doing the work. We are awaiting one more climb of the tanks before proceeding with the Letter of Interest.*

## **Top 5%**

The Water Department again received the State's award for being one of the top 5% of water purveyors in Massachusetts – for 2009.

## **WTP Membranes**

### **• Membrane Fiber Breaks**

There have been 3- fiber breaks during March & April – minimal.

*The number of fiber breaks seems to have stabilized. The total is now 19 as of February 1<sup>st</sup> – only 2 breaks since 12/30/2009.*

*For what it is worth - Pall Corp. is being kept aware through email (below). Included was a spreadsheet with a map of the fiber breaks across the 3-racks. Since the wtp was placed in service there have been 17 fiber breaks – 9 breaks have occurred since Nov. 11<sup>th</sup>.*

### **• Membrane Replacement**

The RFP for Membrane Replacement was advertised on schedule and the bids are due in Town Hall on Friday, May 6<sup>th</sup>.

Draft RFP to Water Department	March 08, 2010.
Draft Copy of RFP to Town Counsel	March 11, 2010
Final Draft for Review	March 30, 2010
Advertise in the Central Register	April 14, 2010
Bids due	May 6, 2010

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### Information to date:

*After meeting with the Town Administrator and Town Counsel on 12/08 and 12/15 it has been concluded that replacement membranes will need to be publicly bid. Jeffrey P. Musich, P.E., Vice President of Wright-Pierce provided the best approach and price to assist the Town in this effort.*

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**Board of Water & Sewer Commissioners**

1. *Replacement membranes must be publicly bid -Town Counsel.*
2. *Pall UF membranes (LOV5210) would only require that MA DEP be notified. The membrane material is PAN –Polyacrilonitrile.*
3. *For Pall MF membranes (UNA-620A), MA DEP will require a demonstration test with the first rack in lieu of a pilot study. This is a verbal commitment (2009.06.09, DEP SERO). These MF membranes are made of PVDF - Polyvinylidene fluoride.*
4. *Any other membranes will need to be piloted and also be listed on MA DEP's Approved Technologies List.*
5. *Layne Christensen Company could supply Toray UF membranes and are willing to conduct a free pilot study (2009.06.30, WTP). The Toray PVDF membranes have a larger pore size than the Pall UF membranes. Layne could provide some level of ongoing support.*
6. *Technology Sales Associates with General Electric Co. can supply ZeeWeed 1500 UF membranes (PVDF) along with a free pilot study (2009.07.09, WTP). Ongoing support is not provided.*

**Watershed**

The police continue to pursue the individuals operating ATV's in the watershed. Included is a memo from Chief Roy.

**Board of Water & Sewer Commissioners**



**ORLEANS POLICE DEPARTMENT**

90 SOUTH ORLEANS RD  
ORLEANS MASSACHUSETTS 02653-3307

CHIEF JEFFREY J. ROY

TEL. 508-255-0117  
FAX. 508-240-1374

**DIRECTED PATROL**

**Beginning Date:** April 6, 2010

**Ending Date:** July 1, 2010

**Original CAD #:** 10-2965

**Location/Address:** Orleans Watershed

**Description/Nature of Complaint:** Dirt bike & ATV riders trespassing on town property, damaging property, and causing noise disturbances.

**Police Response to rectify complaint:**

**Weekdays:** Between the hours of 1400 – 1600 a dayshift patrol unit shall "shut down" in the area of the woodshed to determine if there are any ongoing violations. If violations are discovered, the patrol unit shall investigate further by entering the woodshed and attempt to locate violators. Between the hours of 1600 – 1900 an evening shift patrol shall do the same.

**Weekends:** During the dayshift, two separate directed patrols shall be conducted in the same manner as described above. An evening shift patrol unit shall do the same.

- NOTES:**
1. Violators should be identified and charged (266:121A).
  2. Chief Roy will be meeting with the Environmental Police in the near future to request their assistance with policing the area.
  3. Any suggestions that officers may have on how we can better police the watershed should be documented on the CAD.
  4. **IF VIOLATORS ARE LOCATED AND FLEE THE AREA, DO NOT PURSUE.**

**Board of Water & Sewer Commissioners**

M.G.L. - Chapter 266, Section 121a

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**The General Laws of Massachusetts**

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**PART IV. CRIMES, PUNISHMENTS AND PROCEEDINGS IN CRIMINAL  
CASES**

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**TITLE I. CRIMES AND PUNISHMENTS**

**CHAPTER 266. CRIMES AGAINST PROPERTY**

**Chapter 266: Section 121A. Trespasses involving motor vehicles and other powered devices**

Section 121A. Whoever, without right, enters upon the private land of another, whether or not such land be posted against trespass, and in so entering makes use of or has in his immediate possession or control any vehicle, machine, or device which includes an internal combustion engine or other source of mechanical power, shall be punished by a fine of not more than two hundred and fifty dollars.

The provisions of this section shall not apply to such an entry at the junction of a public way with a paved private roadway, unless said private roadway is distinguished from the public way by a sign, gatepost, or the display of a street number or the name of the occupant of the premises, or by the improvement of adjacent land, the type of construction of the roadway, or other distinguishing feature, or unless such entry has been forbidden by the person having lawful control of said private roadway.

Nothing herein shall in any way restrict the operation of power boats on waterways not otherwise restricted.

<http://www.mass.gov/legis/laws/mgl/266-121a.htm>

4/6/2010



**Board of Water & Sewer Commissioners**

**Miscellaneous**

- Water sales continue to be nothing to brag about. I did see the first sprinkler running on May 3<sup>rd</sup> - ☺
- Our annual meter calibrations for all of our wells and the wtp were completed on 04/02.
- We are currently working with ITS to complete upgrades to well no. 7 that will make it compliant with MA DEP's chemical safety regulations (*shoe string* budget).