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TOWN OF ORLEANS  
CLERKS OFFICE

**MEETING OF THE ORLEANS  
BOARD OF WATER AND SEWER COMMISSIONERS**

November 4, 2009

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A meeting of the Board of Water and Sewer Commissioners was held Wednesday, November 4, 2009 in the Nauset Room, Town Hall:

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

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

**WIND ENERGY**

- Grant Program – John Jannell provided the Board with a draft letter of support for submission with the grant application.

**A motion was made by Robert Rich seconded by Judith Bruce to approve the letter of support for the municipal wind project to be submitted with the grant application. The vote by the Board was 5-0-0.**

- List of Questions – John Jannell provided the Board with preliminary answers to the questions list prepared by Lou Briganti. The work to answer these questions is ongoing and future updates will be provided to the Board.

**MINUTES**

**Judith Bruce made a motion seconded by Robert Rich to approve the minutes of the meeting of September 30, 2009 as written. The vote by the Board was 5-0-0.**

**Judith Bruce made a motion seconded by Robert Rich to approve the minutes of the meeting of October 7, 2009 as written. The vote by the Board was 5-0-0.**

**Robert Rich made a motion seconded by Jimmy Dishner to approve the minutes of the meeting of October 21, 2009 as written. The vote by the Board was 5-0-0.**

**SUPERINTENDENT'S REPORT**

**SEE ATTACHED**

**OLD BUSINESS**

**TOTAL COLIFORM/GROUNDWATER RULES**

Lou Briganti provided the Board with a summary of the two rules and is scheduled to

give a presentation to the Board of Selectmen November 12, 2009.

### RESIDENTIAL PER CAPITA WATER USE

The Board was presented with history of the town's residential gallons per capita day. The Water management Act restricts RGCPD water to 65 gallons. In 2008 the RGCPD for Orleans was 64.79 which initiated discussions about population calculations and meetings with local politicians to discuss the impact on Cape Cod tourism.

### NEW BUSINESS

#### COMMITMENTS/ABATEMENTS/REFUNDS

A motion was made by Jimmy Dishner seconded by Judith Bruce to commit for the month of October 2009 to rate \$0.00, to services \$960.00, to usage \$0.00, to installations \$480.00 and to added billing \$176.49. The vote by the Board was 5-0-0.

### OTHER BUSINESS

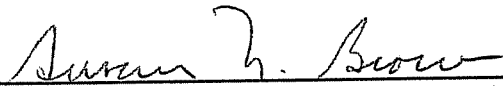
#### WASTEWATER

The Board considered taking on the drafting of wastewater rules and regulations using existing regulations from Falmouth and Chatham as well as the regulations from the Orleans Water Department (Chapters 158 and 196). Susan Brown was asked to send copies by e-mail of Chapters 158 and 196 to the Board for the next meeting.

### ADJOURNMENT

At 3:35 p.m., a motion was made by Judith Bruce and seconded by Ann Hodgkinson to adjourn the meeting. The vote by the Board was 5-0-0.

The next regular meeting is scheduled for November 18, 2009 at 1:30 p.m.



Secretary, Board of Water/Sewer Commissioners

**Board of Water & Sewer Commissioners**

**04Nov2009**

**Budget FY11**

The FY11 budget preparation package has been distributed and was discussed at a Managers Meeting on October 23<sup>rd</sup>. The budget message emphasizes sustainable cuts. Completed budgets are due back to the Town Administrator by November 20<sup>th</sup>.

**New Emergency Response Regulations**

MA DEP is requiring that all purveyors sign and submit an *Emergency Response Plan Compliance Checklist* by December 31<sup>st</sup>. This is a 4-page document with 27 specific questions about the contents of the emergency response plan that all are required to prepare and maintain. The checklist fully references all of DEP's requirements and guidelines for a plan.

A *not-insignificant* amount of time will need to be dedicated to *beefing up* our Emergency Response Plan before the 12/31 deadline.

**Eastham**

No news.

*Scope of work for the Orleans feasibility study portion of the agreement between Environmental Partners Group and Eastham;*

*Task 2. Orleans Water Source Feasibility Study*

*Under this Task, 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) Quantity of water Orleans can commit to selling, initially and long-term, with appropriate approvals from DEP under the Massachusetts Water Management Act,*
- (2) Pricing structure for Eastham under an IMA,*
- (3) O&M responsibilities,*
- (4) Assessment of likely transmission main routes, and*
- (5) Cost-effectiveness compared to in-town sources.*

*Notes:*

*Eastham is probably looking to get a better feel for the capacity of their 3-potential sources before beginning any feasibility study.*

*Mention has been made that a meeting between the two Boards of Selectman will be sought before a feasibility study is initiated. Eastham may want to discuss pricing and availability at this meeting.*

## Board of Water & Sewer Commissioners

### Flushing

Flushing was completed on Oct. 13<sup>th</sup>. The project took a little longer than usual due to repair interruptions, but all was quiet relative to customers.

*Fall flushing began September 21<sup>st</sup> and should be completed next week. Flushing was interrupted due to a main break on Rte. 28 near the Harwich border (salt water corrosion of an old repair clamp).*

### GWR

MA DEP mailed additional requirements for the Ground Water Rule (GWR) that were received on October 23<sup>rd</sup>. This is named *Form D* and is labeled as a *Certification* while the previous submission of *Forms A, B & C* in August is now considered and *Estimate*.

The decision to consider this new rule as a process that will take a year or more to unfold is accurate.

New to this communiqué;

- This is now officially a *Treatment Technique Rule* (you can't test for viruses therefore monitor treatment).
- Systems that apply for and receive 4-log approval will be required to submit daily calculations of actual-CT (concentration X time) vs. required CT.
- Continuous monitoring of disinfectant will be required.
- Disinfectant monitoring must be at the first customer or after the point in treatment where CT is calculated.
- Daily CT will be calculated using the lowest chlorine residual and the highest flow rate.
- Falling below the required CT for 2-days in a month will be considered a violation that must be reported to the public within 30 days.

This will mean no change for the WTP and wells 1, 4, 5 & 6 that supply it. Well nos. 2, 3 & 8 at Facility no. 1 and Well no. 7 will not meet the CT requirement and will be part of triggered monitoring until modifications are made.

Round 2 of the application process is due December 1<sup>st</sup>. All purveyors will be required to comply with triggered monitoring until MA DEP is able to wade through its own approval process.

*In preparation for the effective date of 12/01/2009 for the Groundwater Rule (GWR), MA DEP has issued a flow chart to assist everyone with compliance. This is included in the Board's packet as an FYI.*

*As part of the submission requirements of the GWR, the Dept. has updated its Emergency Response Plan (ERP) for a Coliform incident. This response to a Coliform incident applies to both the GWR and the Total Coliform Rule (TCR) which are now tightly integrated.*

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

*Included in the Board's packet is the ERP table of contents, the Dept.'s Compliance Flowchart for the TCR & GWR and 4-Public Notification Templates.*

*This information is provided for the purposes of discussion and agreement or disagreement with the flavor of the text. It is anticipated that this Coliform topic will result in future discussions that may include other departments.*

### **Meter Pits**

Included in the Board's packet is a draft letter to be sent as a reminder to those customers that have meter pits.

### **Tanks 1 & 2**

Both of our storage reservoirs were inspected on October 15<sup>th</sup>.

The inspections were done by Leo R. Yuskus, Sr VP Haley and Ward, Inc. – professional and an expert.

Two minor repairs were made the day of the inspection. We will be supplying historical information to be included in the final report.

### **WTP (& Membrane Status)**

The decant chamber was cleaned during the week of October 25. The chamber was emptied and all sludge removed by pumping the material as a slurry to the drying beds. After a wash with clean water the basin was returned to service.

Drying bed 2 was isolated, drained and cleaned. All sediment was removed and the bed returned to service.

These wastewater facilities are addressed each spring and fall; pre and post summer production.

*In the Boards' packet is the document that will be used to request a ruling from the Attorney Generals' Office on sole sourcing replacement membranes from Pall Corp. This is in final review by Town Counsel who will issue the request through the Town Administrator's office.*

#### **Information to date:**

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.

### Board of Water & Sewer Commissioners

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.
7. Pall would like to talk to us. Bob Cundell & Dave Glovinsky would help with a pilot study and sell us membranes directly -cut out F.R. Mahoney (2009.06.05, Lance Benjamin).
8. A letter is in progress that will request a ruling by the MA Inspector General on sole sourcing membrane replacement to Pall.
9. Pall has assigned Chris Scalza, P.E. to the Orleans account for the design flow test that has been proposed. The operating parameters for the test are unchanged, but Pall considers the TMP limit for the test to be 45 psi -the physical limit of the modules.

### Well no. 6

Maher Services is to begin the redevelopment of well no. 6 the week of November 2nd.

*The bid to redevelop well no. 6 has been awarded to Maher Services. Work should begin once the paperwork formalities have been completed.*

#### Bid results:

- |                      |             |
|----------------------|-------------|
| 1. Layne Christensen | \$13,727.40 |
| 2. Maher Services    | \$12,600.00 |
| 3. Dennis L. Maher   | \$13,521.00 |

*Production capacity for well no. 6 has decreased. On August 18 the flow range for the well was reduced to 330 GPM. As an extra precaution and with reduced demand well no. 6 was taken out of service Sept. 9<sup>th</sup>.*

### Well no. 8

On 10/07 Steve Olson, P.E. of Environmental Partners inspected well no. 8. The well was put through its paces and received Steve's Good Housekeeping Seal of Approval.

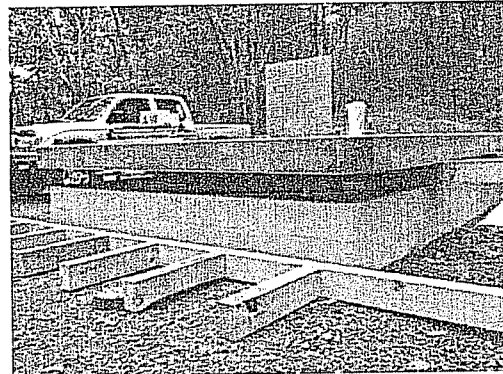
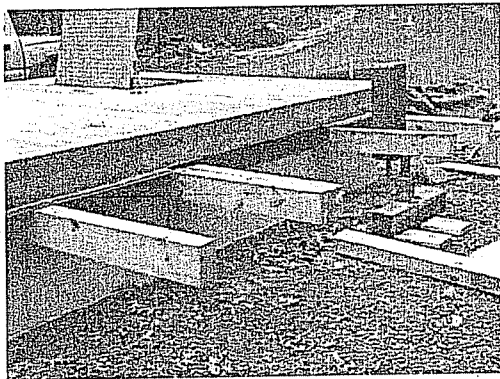
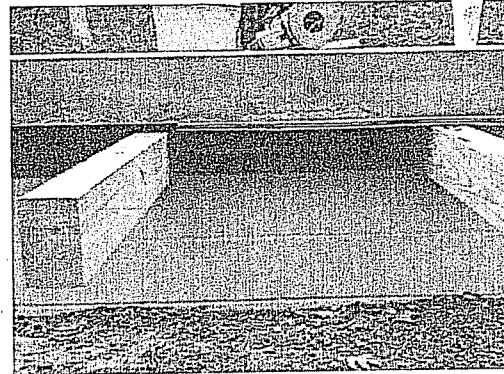
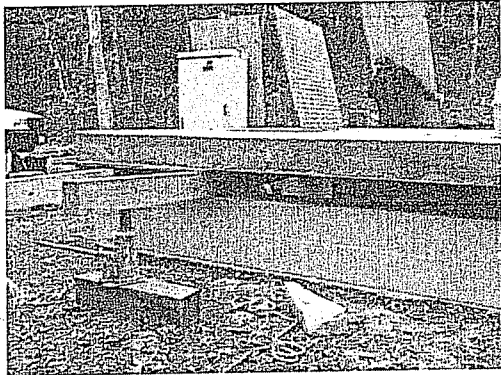
Well 8 was chlorinated for 24 hours and a sample was collected for Coliform bacteria on 10/21.

We will be able to request approval of MA DEP pending the Laboratory report of the clean sample and an official letter from the Engineer. The engineer may require us to install fencing prior to contacting MA DEP.

**Board of Water & Sewer Commissioners**

Through the month the form was built and the concrete poured for the vault-lid. The concrete form was removed on 10/29 and the concrete slab was lowered onto the 4-walls of the vault.

A very safe, well planned and well executed job by Todd Bunzick!



**Wildfire Management Plan**

The Water Department applied for funds from the Cape Cod Cooperative Extension to continue the work that was done as part of the *Wildfire Management Plan*. We have been awarded \$10,000. The money will be used to purchase equipment. This award brings the total awarded by the Cooperative to \$35,000.

**Miscellaneous**

• **Coliform Testing**

We completed setting up an autoclave that will be used to sterilize any positive samples or qc-samples. The operating procedure was completed after 3-runs.

**Board of Water & Sewer Commissioners**

The Lab participated in a round-robin Performance Evaluation Test for total Coliforms and *E. coli*. Ten blind samples were tested and we received a perfect score of 100% correct.

*The Water Dept. is aggressively pursuing Laboratory certification to perform its own bacteriology testing.*

• **Water Management Act Permit (*did we discuss?*)**

After a series of emails, the timing and process to renew our WMA Permit was verified with MA DEP. The following list is a *cut and paste* form those emails;

1. Our WMA permit expires 11/30/2010.
2. Permit renewal applications for the Cape Cod Basin will be accepted by DEP from August 1, 2010 through August 31, 2010. Each basin will have an outreach meeting a few months before the application period.
3. If you do your own ASR, I'm guessing you can handle the application. You will need the DCR's projections.
4. You do not need to request a forecast from DCR. They'll either calculate one automatically, or they'll just agree with the volumes in your original permit.
5. Another clarification from the head of the program, \_\_\_\_\_, in Boston: "I wouldn't tell them they won't have to do anything. Please don't give them that idea. DCR will contact them for information at some point. Tell them to sit-tight, just don't want them to think the process is effortless."