

A meeting of the Town of Barnstable's Hyannis Water Board was held on July 20, 2010 at 3:15 PM in the Growth Management Conference Room, 367 Main Street, Hyannis, MA.

In attendance were Deb Krau, Skip Simpson, Tom Holmes and Peter Cross

Staff present: Hans Keijser, Supervisor, Water Supply Division, and Dale Saad, Ph.D., Senior Project Manager

Also present: Ken Maltese and Mark Lavoie from United Water, Alec Harrison, T.O.B.-DPW Intern, Omer Dumais, Tighe & Bond, Ed Maroney, Barnstable Patriot and Dawn Busias, Resident, 32 Paine Avenue-Hyannis.

A quorum being present, Chairman Krau called the meeting to order at 3:15 PM

The Agenda was approved

The Minutes for the May 20, 2010 meeting were approved with amendments. The Minutes for the June 8, 2010 meeting were approved with amendments.

Dawn Busias of 32 Paine Avenue-Hyannis addressed the board. Busias expresses concern over her water and the dirty filter (present) which was just replaced last Wednesday. She is aware that a new water main is projected for the fall and inquires about being put on a "priority". Dale Saad explains that Paine Avenue is on the priority for when the project is started. Although Busias is thankful for the Water Dept. supplying her bottled water, suspending her water charges, completing scheduled pipe blow-outs and filter changes, she is still persistent on this ongoing issue. Busias requests that a second plumber come to the residence for an evaluation. Keijser agrees to look into this for her. Busias also requests another filter change, Keijser agrees. Keijser will generate a filter change schedule for the resident. Busias is also searching for her reimbursement which the water company has submitted to the insurance company. Keijser has not heard back from the insurance company regarding this matter, but will check on it for her.

Operations Report -Lavoie states Maher Treatment Plant and Mary Dunn large tank are back in service. Flushing was resumed and completed in June.

Activities from the ongoing 5 projects (ex. South Street, H-1 East, etc.), normal scheduled work has been interrupted due to unforeseen breaks, leaks and shut offs that needed immediate attention, Lavoie explains. Krau requests that Keijser generate a summary of the breaks that have occurred.

United Water has continued to replace sampling taps both as previously defined and as continual evaluations indicate necessary upgrades.

Work is ongoing for the chlorine injection point at the Mary Dunn storage tank location (Lavoie states that this site location is susceptible to coliform detects during warmer months. Lavoie also states that the sampling taps are being replaced as well.

The Computerized Maintenance Management System is in routine use with staff receiving continuous training to increase the utilization of this program for the deliverables while the vendor continues to update the system based on user comments.

All required monthly and quarterly state reports have been submitted on time.

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Bacteria monitoring in June resulted in no total coliform detections in 120 source, special and distribution samples. An incorrect report incident occurred in the first week samples where a sample from the Mary Dunn storage tank was incorrectly marked as TC+. It was determined that the sub-contract lab made an error while re-labeling the sample ID number. Upon investigation, conversations, and acceptance of the lab's corrective action plan, United Water has been convinced to go forward with confidence that this incident will not be repeated. United Water will continue to evaluate the lab's QA/QC protocols on an ongoing basis as a second tier of confidence.

The over 120 day past-due accounts receivables has declined for the third month in a row. The Finance Dept. should have financials for the E.O.Y. for next months meeting.

Cost of System Service –Quarterly accounts cross referencing will be done at the end of July. Krau requests a proof of a bill and what it will look like. An in-service will be conducted with the F.A.Q. then later posted on the website.

Tank Siting Study – Omer Dumais from Tighe & Bond presented the board with a revised information package. Dumais explained that the information in this package includes the board's requested fee changes to include additional fees related to Compliance with the Groundwater Rule, pipe loops, and assessed values of property.

A Motion was made and seconded to select the “2 tanks-Maher and HP/SP/SW sites 5 and 6 ground level tank” as the “First Preference” with back up options “Option #2” of the “HP/SP/SW/WTP site 5 ground level tank”, and “Option #3” of the “Maher WTP site 6 ground level tank”.

VOTE: Unanimous. The First Preference and (2) back up options are accepted.

Krau will compose and submit a “Storage Tank Site and Style Selection Summary” (attached).

Krau requests that Tighe & Bond generate a “Pro’s & Con’s List” on the “Preferred and (2) Options” for the 3 above mentioned tanks.

With no further business, the meeting was adjourned at 5:37.

Respectfully submitted,

*Marcia Sellitto
DPW, Water Supply Division -Administrative Assistant*

Materials presented at meeting:

- Meeting Agenda July 20, 2010 (*presented by: T.O.B.-DPW, Water Supply Div.*)
- Meeting Minutes for approval 5/20/10 (*presented by: T.O.B.-DPW, Water Supply Div.*)
- Meeting Minutes for approval 6/8/10 (*presented by: T.O.B.-DPW, Water Supply Div.*)
- H.W.B. Monthly Report, June 2010 (*presented by: United Water*)
- Newspaper Clippings
- Hyannis Access Implementation Scope of Work 4/27/10
- Annual Water Quality Report
- Approved Operating Budget FY '11-T.O.B., Water Supply Division
- H.W.B. Meeting Info Package 7/9/10 (*presented by: Tighe & Bond*)

STORAGE TANK SITE and STYLE SELECTION SUMMARY

Recommendation of Hyannis Water Board with the assistance of Tighe and Bond Consultants – July 20, 2010

Recommendation:

Two new minimum 625,000 gallon ground level storage tanks with associated pumping systems (total new storage volume 1,250,000 gallons) – one at the **Maher** wellfield and treatment plant site and the other at the **Hyannisport, Simmons Pond and Straightway** wellfield and treatment plant sites (Straightway and Hyannisport treatment plants to be connected via a new pipe to the centralized storage and pumping system).

Significant benefits of this recommendation

- **Location** of the new tanks and pumping stations will be
 - on Hyannis Water Division parcels
 - set back off of the roadways, low profile design and will not be visible from adjacent roads and residential parcels thus the visual impact is minimal
- Elimination of the need for any large diameter pipe loops for Groundwater Rule Contact Time disinfectant compliance thus not requiring approximately \$1M of capital currently reserved for compliance
- The new tanks at the well fields, in conjunction with the existing tank, will provide
 - dispersed storage throughout our service area
 - increased system reliability through redundancy
 - improved water quality
 - through managed mixing of water from several sources
 - by precise management of water age within each new tank
 - greater ease of maintenance
 - ability to integrate cost effectively with potential future water treatment processes and to more easily operate each supply source to water management act withdrawal allowances
 - best storm protection

Probable Cost

- Capital: \$4,160,000
- Annual O&M: \$161,000 minus the maintenance cost of the existing 100 year old tank

Evaluation Process

The site and tank style selection process involved the following evaluation steps and methods:

- Identifying
 - 18 potential site parcels including Town-owned, State-owned, Fire District owned and privately owned land parcels
 - two tank styles: elevated (gravity flow) and ground level (pumped flow)
 - available tank materials of construction
- Estimating the probable construction cost, annual operations and maintenance cost and the net present value (50-year life cycle cost) for each site, style and materials of construction
- Identifying and selecting relative importance (weighting factors) for a listing of 11 non-cost evaluation criteria (Multi-Attribute Evaluation Process)
- Estimating the Benefits-to-Cost ratio for each site, style and materials of construction
- Detailed scrutiny of the pros and cons of a short list of alternatives that provide a high percentage of Benefits-to-Cost, or in other words, meet the important project objectives at the least cost

The three project performance objectives, including both capital and annual O&M costs, which all alternatives must satisfy, are as follows.

1. Provide the necessary distribution system storage volume
2. Provide the contact disinfectant reaction time necessary for compliance with the recently promulgated Groundwater Rule
3. Increase reliability over the existing Mary Dunn storage tanks, which have a section of single pipe connection to the distribution system