

KENT COUNTY WATER AUTHORITY  
SPECIAL BOARD MEETING MINUTES

October 18, 2011

The Board of Directors of the Kent County Water Authority held a special meeting at Mishnock Wellfield Next to 2400 Nooseneck Hill Road (Route3) on October 18, 2011.

A quorum was declared by the Chairman, Robert B. Boyer and he opened the meeting at 3:00 p.m. Board Members, Mr. Masterson and Mr. Inman were present together with the General Manager, Timothy J. Brown and Legal Counsel, Joseph J. McGair.

Groundbreaking Ceremony Mishnock Treatment Facility

The Chairman stated that he built the building in the past and is excited.

The General Manager stated that this is first treatment plant of the Authority and it was very hard work to reach this ground breaking for the Treatment Plant. It is a no nonsense operation moving ahead with great planning in order to increase supply to different service areas and it is a 2.6 m/g increase and he thanked the Board for their vision.

The General Manager stated that it was an \$11.5 million dollar project and it took 18-20 months to complete which will greatly reduce manganese coloration issues. The salient facts are attached as "A".

The Chairman dug the first shovel of dirt and then Board Member Inman, Board Member Masterson, Hart Engineering representatives and the General Manager took the next shovel full of dirt.

It was moved by Board Member Inman to adjourn, seconded by Board Member Masterson and it was unanimously voted by the Board Members present,

VOTED: To adjourn the meeting at 3:20 p.m.

\_\_\_\_\_  
Secretary Pro Tempore

**Kent County Water Authority**  
**Mishnock Well Field Treatment Plant**  
**Groundbreaking Ceremony**  
**October 18, 2011**

For close to 5 decades the Mishnock well field has been a renewable and reliable quality source for drinking water to the Kent County Water Authority customers. In 1996 the Kent County Water Authority Board of Directors voted in favor of a strategic plan to expand the well field capacity through the use of Rhode Island Water Resources Board water protection program funding. Over the years we have now acquired close to 500 acres of land for our Mishnock well field. Scientific analysis of this aquifer revealed that in excess of four million gallons a day could be realized with insignificant impact to the surrounding environment. This well supply continues to be an intrinsic component to our long term strategic plan for our customer's wellbeing and growth.

Over time aesthetic concerns regarding customer complaints of staining and new Environmental Protection Agency regulations resulted in the Kent County Water Authority taking the wells off line for future corrective action. The Kent County Water Authority hired the engineering firm Wright Pierce to design a treatment plant to remove aesthetic contaminants, iron and manganese, and contend with future EPA requirements concerning radon in the water supply. In July 2011 the project was bid and awarded to Hart Engineering Corporation for \$11,570,000. The full scale treatment plant will employ state of the art equipment:

- Lowry DB-86 Stainless steel deep bubble aeration units to remove radon and increase Ph.
- Rapid mix treatment tanks in conjunction with oxidation/flocculation tanks to oxidize solids for more effective filtration of iron and manganese constituents from the raw water.
- ZeeWeed 500 ultra-filtration membrane filter modules to remove unwanted constituents from the well water.
- Clear well for temporary storage and facilitate disinfection requirements prior to distribution to the customer.
- Emergency power generator to continue water production and distribution to our customers during widespread power outages from storms or other emergencies.

The plant employs state of the art control and monitoring systems technology and will allow Kent County Water Authority to supplement its public water supply by 2.4 million gallons per day. The modular component design will allow for cost effective increased capacity through the installation of additional filtration modules. Once online the wells and treatment plant will be in operation 24 hours a day to provide the most cost effective benefit to our customers. This project will significantly improve Kent County Water Authority's ability to meet the growing demand in the system associated with both residential and economic development and secure this valuable supply for decades to come.