

**Water Quality Committee
Village of Millbrook
October 25, 2010**

In attendance: Frank Genova, Trustee Stanley Morse, Steve Lynch, Howard Schuman, Scott Osborne, Greg Bolner, Dr. William Augerson, Ken Scherrible via speaker cell phone and Kayel C. Conklin.

Instructional-On October 26th a Watershed Roundtable will be held at the Farm and Home Center from 6:00 to 9:00 p.m. Trustee Morse added that the Dutchess Watershed Coalition is modeled after the CAC and they will promote communication on watershed in Dutchess County. They will also function to protect water and land resources. Frank Genova stated the roundtable is well worth while and he will be attending to represent the committee. Trustee Morse requested Frank give a briefing of the roundtable to the committee at the next meeting.

Maps of water resources of Dutchess County showing the aquifers in Dutchess County and the Town of Washington were displayed and referred to frequently throughout the meeting.

Subcommittee Report-Howard Schuman gave a report on the subcommittee. See handout. Howard referred to a map for the Town of Washington showing aquifers available in the area. The purposes of a secondary aquifer may affect the cost. He stated the productivity of an aquifer equals how much water is located in each aquifer. How much can you remove? Dr. Augerson asked how does someone determine how much water is available. Howard responded that it is determined by the amount of rock, the slope and how much percolation and runoff there is. He added that soil type is also a factor as well as stream gauges.

Frank stated the aquifer must be a potable water supply and it depends upon watershed. He added that 27,500 gallons are produced per acre per every inch of rain. Frank stated we can't know how much rain is falling in the surrounding area. We can only determine how much water we have. He added we can't factor in rainfall. Frank stated the Village needs a backup water supply. Frank commented on Al White's on Valley Farm Road and that the northern edge of this farm is a water supply that should be considered. The Village should also consider the Delasandros former property on Stanford Road as a first recommended water source sight. These both are an entirely different watershed than the others pointed out on the submitted map. Frank stated that for obvious reasons Mabbettsville has developed and it is not conducive to a good water supply. He added that pesticides are a major concern. Howard stated the subcommittee has not approached the cost factor in their research.

Frank stated there are 10 points to consider. Frank added that he hopes the Village keeps the committee a committee before the public is invited into discussions. Mabbettsville is commercially different. The Town of Washington pool and park are for all of the public

to use. Incident with watering trees with water from a fire hydrant could be an over use of the Village's water source and watershed.

Steve stated they are all consenting on the water source expansion. Emma stated the upstream aquifer is the best secondary water source in case the current water source is contaminated.

Greg stated they first need to decide the major concerns for the water source for the Village. They must be clear to the subcommittee what question or problem needing answering. Greg added that they can collect data after that question has been answered. Chazen should be able to provide information on the existing water source. Greg estimated that 2 miles of water line would cost approximately \$1.2 million dollars. Greg brought up the issue of water supply repairing rights. If NYS says we can access that water is a concern. Frank commented on repairian law which states that the Village may have no right to divert or use the water if users are down water from another user.

Steve stated that based upon preliminary piping costs the committee has not ruled out any water source. Emma added that there is a possibility of accessing the same aquifer from 2 different areas or forks. Greg further stated that going upstream is cheap and easy but may not be sustainable. He added it is dependent on if the issue is immediate or long lasting. Steve questioned if the Village needs the alternate water source for growth.

Frank stated that tainted water is everybody's problem according to an article on BTBE contamination found in several locations in Dutchess County. Frank asked if the Village expands the system and the water supply, will this tax the water source currently in existence. Frank added that certain businesses cannot conserve water such as nursing homes or spas if water conservation was mandated. He informed the committee that the Village water source comes from a water gallery. Trustee Morse observed the committee is looking to locate a backup aquifer or are there other issues or concerns the committee should inquire about.

Overview of Committee-Dr. Augerson stated the committee has different reasons for engaging in this discussion. They may need to look at the time in reference to the catastrophe as well as the length of the cleanup and the effects on the water source. He added that climate change may require a different approach to this task.

Steve stated that if they look at the expansion category they must be consistent. They are looking at 4 areas for expansion which include Nine Partners Lane, expansion to the Town of Washington, the potential needs at the former Bennett College when it is fully developed and finally the Dutchess County infirmary sight. Steve added the committee needs to look at the "what ifs". Steve also stated the committee is mostly looking into additional water needs. Steve added that either an expansion or a redundancy of a water source is looked at in the same way. Greg informed the committee they need to look at it simplistically. They also need to look at capacity versus contamination versus location. Kayel offered to look at additional maps and combining the information to look at recharge areas and where the water is running to and the topography. Greg stated he can

produce a map with streets and topography on it. He added that a Town of Washington wide map should be produced to summarize this information to determine if these locations are best. It will help to narrow the scope.

Dr. Augerson stated the Village does not have a great deal of control on the external issues such as growth. They may want to look at the competitors for the water sources located outside of the Village. They should look at development, industrial growth and also exterior competition for the water sources. Greg feels the Town of Stanford could be developed. He added the recharge zone is filled by the watershed. Steve asked Greg to chart and label the aquifers under consideration. Greg responded that it may take conservatively 4 hours to prepare. Frank elaborated on Mabbettsville development as a major concern.

Administration-all meetings are open to the public stated Trustee Morse.

General Discussion-See attached data analysis on water/ sewer usage submitted by Trustee Morse. Steve asked for the SBA levied on the Town of Washington residents to be added to the written data submitted. Emma asked if they can look into how much water they are losing from the point of source to the point of delivery. She added they can look at articles to determine how to figure out this information. She offered to take the data from the users. Steve stated they can measure the water as it comes out of the gallery. Ken Scherrible confirmed that annually data is given from VRI minus what was billed. Emma clarified that the water produced from the plant equals what the gallery records daily. This information will help determine if there are any leaks in the system. Trustee Morse stated the Village would want to do something about major leaks. Ken informed the committee that a 10% water loss system is pretty normal system even if the system is new.

CRREO-Center for Research, Regional Education and Outreach published a handout submitted by Trustee Morse. Trustee Morse summarized the information as per the attached. He pointed out the Hudson Valley is rich in water with lots of precipitation. Emma added that it is predicted this area may have more rainfall thus may causing an influx of population. Emma added that this will give a larger discrepancy of areas of the haves and have nots for water resources. Howard added that climate change may not be an issue or a factor in water resources. He also stated that growth may be a factor and contamination an issue for this committee. Trustee Morse stated that most Hudson Valley communities receive 40 inches of rain per year where other areas receive much less. He cautioned that overuse of land can occur without planning.

Frank suggested modeling a local ordinance for water management.

Committee Roundtable-Steve brought the committee up to date on the Shared Services Grant. He stated that tomorrow night at the Village Board meeting he will inform the Board they are still waiting for approval to do more remediation of the sewer mains.

Dr. Augerson stated the committee is figuring out methodology. They must also figure out the risk for the Town of Washington and the Village of Millbrook. He added that they need to see what is problematic and are of particular significance. The committee will discuss these particulars with VRI. He feels this information is directly tied to the Town of Washington and Village of Millbrook emergency preparedness plan. Frank stated he is pleased to see the direction the committee is taking and be part of this committee.

Future Meeting Scheduled-Monday, November 22, 2010 which is Thanksgiving week.

The meeting concluded at 6:05 p.m.

Respectfully Submitted,

Linda T. Wiltse
Village of Millbrook
Clerk/Treasurer