



HARVARD WATER - SEWER COMMISSION

MINUTES

Wednesday, August 14, 2019
Harvard Town Hall

Cindy Russo, Chair *Kyle Hedrick* *Richard Maiore*

Present

Cindy Russo, Chair; Kyle Hedrick, Commissioner; Tim Bragan, Town Administrator; Tim Kilhart, DPW Director, Ron , Joan Eliyesil

1. The meeting was called to order by Ms. Russo at 8:15 a.m.
2. There was no Public Comment.
3. The Minutes of May 15, 2019 were approved without correction.
4. The DPW Director reported on the positive tests for coliform at Well #5. In July, samples showed 3 positive results at Well #5, the Bolton Road tank and Town Hall. Following instructions from DEP, Well #5 was taken off line, the well and system were chlorinated. Upon retesting, the well and system were clean. A Level 1 response filed.

Natural occurring bacteria in water. Chlorination will clear it up. It was in distribution system but can be fixed with simple chlorination.

Testing on August August 5 was again positive for coliform at Well #5 and Bolton Road tank. DEP again directed that the well be taken off line. This second hit triggered Level 2 assessment. Paula Caron of DEP said that we should either determine the cause of the hits or install chlorination system.

To determine a cause, a camera test was conducted. It found no problems at 20 feet, where casing begins. At approximately 56-57 feet they saw water coming in through the bedrock indicating that there is a fracture in the bedrock at that level. Our static water level is lower than 56-57 feet, so whatever comes through this fracture this flows into well. This is probably the source of our problem.

Tim will propose a Jazzwell seal to close that fracture. We have a six inch opening; 4 inch pipe goes inside 6 inch pipe. It has flanges and seals that opening. Wilmington pump supply will perform the jazzwell seal for \$4290. Once that is done the well will be chlorinated.

We have an emergency chlorination system that was installed 10 years ago and never used. FW Webb looked at it. Looks good except needs new tubing, rubber seals and valves. Sodium hyper chloride is used and only has a six months shelf life. Need someone licensed for treatment to do this. Tim K has this license but Ron

does not. Ron could do it in an emergency. FW Webb is ordering the parts and Tim will find a source for chemical, so we may be able to stay raw water if we don't have repeat hits.

Most raw water systems are in the western part of the state. None of our neighbors are still raw water. To go to a chlorination system we would need analyzers and daily testing, and we might need a building. Tim Bragan believes that we will end up there at some point but don't know how long it will take. We've been lucky to have such an inexpensive system for this long but won't last forever.

Our system uses approximately 17,000 gallons per day. Only licensed for 23,000 so expanding the system is not an option. The wells can pump 12 and 23 gallons per minute.

Emergency chlorination system comes on with the pumps and chlorinates the water coming out of the well. It does not chlorinate the well and the tanks. Water for our system comes in and goes out of the bottom of the tank so we don't get the water on the top. That's why we need a mixing valve. It would also mix the water evenly.

We voted to approve jazzwell seal and the design of an emergency chlorination system.

The meeting was adjourned at 9:45.