

BOARD OF WATER COMMISSIONERS

MEETING MINUTES

Date: January 16th, 2020 Time: 4:30 PM Location: Norwell Water Department
345 Main Street, Norwell

In Attendance: Fred St. Ours, Peter Dillon, and Water Superintendent Jack McInnis
Guests: Jason Federico

Minutes Prepared By: Jack McInnis

1. The Board members signed abatements, commitments and vouchers.
2. Fred St. Ours motioned to approve Meeting Minutes from 12/5/19; Peter Dillon seconded, all in favor at 4:50 pm. Meeting Minutes from 1/2/2020 require further editing and were tabled.
3. Jack McInnis informed the Board of the Philips Drive status. All work has been completed, apart from grouting of the ring wall and the removal of some sand blasting material at the base of the tank. Those items will be address in the spring with 5k-6k retainage held until completion. Aside from the contractors work the tank was outfitted with a new scaled level transducer and the surge control valve on the inlet pipe was rebuilt.
4. Jason Federico joined the meeting to continue discussion of Special Article projects for FY21, which are due February 5th. Jason presented the Board with a water distribution map of the south east section of the Town. Stetson Shrine Lane and Stetson road are both dead ended with a single supply main as is the Barque Hill area and all side roads. An additional directionally drilled water main crossing of Rte. 3 with a sleeved 10 inch water main connecting Stetson Shrine Lane and Stetson Road would provide redundancy for the single water main crossing at River Street, loop both Stetson shrine Lane and Stetson Road and provide another water main supply to the Barque Hill area and all side roads, reducing water age and improving overall water quality for that area. Jason suggested a set of soil borings

be conducted at the EOL at both Stetson Shrine Lane and Stetson Road to determine if soil conditions were conducive for directional drilling. Jason further suggested a budgetary figure of \$440 including contingency for the project. The WD presently has approximately \$114 remaining from a water main bond. The Board agreed that a Special Article request of \$300K be submitted at the FY21 TM for consideration to advance this project.

The second Special Article the board wished to consider was the piloting of treatment techniques at the South Street Well Field (STWF) and Grove Street Well Field (GSWF). STWF is comprised of well #1 and #6. The water is currently treated through a conventional green sand filtration plant (TP). Due to high level of organic color (TOC) at well # 6, The effluent of the TP contains quantities of THMs and HAAs. There may also be PFAs in the water due to its proximity to Third Herring brook, though the water has yet to be tested for those constituents. The piloting of Granular Activated Carbon (GAC) as a finishing stage to green sand filtration for the removal of TTHMs, HAAs, and PFAs from the finished water was discussed. The Board considered the presence of high levels of sodium at STWF, which would not be removed by GAC and discussed piloting alternative treatment processes. Jason suggested piloting Micro Filtration (MF) as well as GAC as a finishing stage to the current treatment process. Proper MF pore size would remove sodium, TTHMs, HAAs, and PFAs from the finished water. Well # 6 would have to be cleaned and redeveloped annually to maintain yield and justify implementation of additional treatment at SSWF.

Piloting treatment techniques at GSWF were then discussed. GSWF consists of well #2, #3, #5 and #10. Well #3 is currently offline due to marginal available water above the well screen. Peter Dillon wishes to oversee a test well program to determine if relocation of the well might make more water available for pumping or perhaps locate a bedrock well to replace well #3 prior to piloting treatment systems. Once this is accomplished a GSWF yield can be determined and piloting will be considered. Well #10 has high levels of TOC and

presents similar issues to those at the STWF. Well #10 when is pumped at its maximum capacity or less results in the GSWF producing colored water with levels TTHMs, HAAs, and possibly PFAs in the well field effluent. There is no greensand filtration at GSWF. Jason Federico suggested piloting both GAC and MF at GSWF once the well #3 issue is resolved. Jason suggested a budgetary figure of \$360K to conduct the piloting at the two well fields. The WD presently has an open Article for this purpose with a \$275K balance. The Board agreed that a Special Article request of \$100K be submitted at the FY21 TM for consideration for the piloting of treatment techniques at both well fields. Both GAC and MF will be considered for wellfield piloting as well as a Veridox system for well #10.

5. Moving on, Fred St. Ours motioned and Peter Dillon seconded to approve of \$142 to come from Water Surplus as a funding source for an unpaid bill in Article #1 for the upcoming STM on February 10th, 2020.
6. Jack McInnis brought to the Board's attention that the WD towable air compressor may need replacement. If so, Jack McInnis suggested that a replacement compressor and a towable light stand with generator be presented to the Capital Budget Committee. The existing compressor is currently being serviced to determine if can provide additional years of reliable service which, if successful, would negate the necessity for the request.
7. Barbara Childs has advised Jack McInnis that she has reached out to the alumni sites of area Engineering Colleges and posted the availability of the Treatment facilities Manager's position. She has also posted the availability on Water Works Association web sites, as well as posting the position on Indeed
8. Fred St. Ours motioned to adjourn; Peter Dillon seconded; all in favor at 6:30 pm

Accepted: J. H. Ours Date: 2/20/2020

