

**EAST BRANDYWINE TOWNSHIP MUNICIPAL AUTHORITY
WORK SESSION
MAY 31, 2019**

Those in Attendance:

Michael Corbin, Chairman
Sandra Moser, Vice Chairman
David Summers, Treasurer
Thomas McClung, Member

Absent:

David Whelihan, Member

Also in Attendance:

Scott Piersol, Township Manager
Matthew Van Lew, Township Road Master
Thomas Oeste, Esq., Municipal Authority Solicitor
Joseph Boldaz, Municipal Authority Engineer
Jan C. Bednarchik, Recording Secretary

The Municipal Authority work session of Friday, May 31, 2019, was called to order at 8:02 AM in the East Brandywine Township Municipal Building by the Chairman. Visitors included Fred Ebert of Ebert Engineering, Vic Kelly of Commonwealth Engineers and John Mostoller of ELU-Planebrook.

Applecross

Coyne Chemical plans to begin the carbon replacement project in two weeks. Mr. Boldaz consulted with Dave Friedman concerning storage of the new carbon until the existing carbon is removed. The carbon will be stored in the parking area so as to not interfere with the daily operations. The spent carbon will be stored in twenty super sacks for approximately two weeks while the carbon is analyzed and accepted by a landfill.

As reported at the last meeting, the hand crank for the winch used to remove the diffusers from the tank is impeded by the stairs and unsafe to operate from the stairs to the new Disk Filter Walkway. EEMA removes the diffusers once a month for cleaning. Aqua Aerobics suggested the purchase of a motorized winch at an approximate cost of \$6,000. This would be a change order through the Effluent Pumping and SBR No. 3 Modification project. Mr. Boldaz will provide additional information on the change order at the next meeting.

Eastern Environmental Contractors plans to start the Effluent Pumping and SBR #3 Modification project on Tuesday, June 4, beginning with a pre-installation meeting. Hydraterra issued a letter on 5/28/19 recommending approval of Pay Application No. 4 in the amount of \$119,965.50 for equipment stored on-site. The payment request was approved by the Board at the last meeting.

An update on the investigation of inflow and infiltration issues is pending a review of official rainfall records for last week from the National Weather Service for comparison with flow data from the pump stations. The two significant rainstorms should provide information on whether the installation of manhole inserts in low lying areas had an impact on inflow and infiltration.

MGK Industries submitted a proposal to install safety hatches in the screening room and provide lighting over the disk filter at a cost of almost \$9,000. They had previously indicated this work could be done as part of the disk filter platform, but determined there was substantially more work involved than they originally anticipated. Mr. Boldaz will consult with MGK Industries before making a recommendation on the proposal.

Plank Farm and Middle School Projects

Vic Kelly of Commonwealth Engineers, Fred Ebert of Ebert Engineering, and John Mostoller of ELU-Planebrook, attended the meeting to discuss the proposed development of the Plank farm, consisting of a 20-acre parcel on the south side of Route 322 adjacent to Applecross Phase V-B, and a 20-acre parcel on the north side of Route 322 adjacent to the Heatherwynd development.

Mr. Kelly gave a brief overview of the proposed layout for the two separate parcels. The proposed plan for the southside tract is to build 90 to 100 townhouse units and includes provisions for an extension of Reeceville Road in accordance with the Guthriesville Master Plan. The extension would traverse the Winters property, the open space in Applecross Phase V-B, the Plank farm, and the Fisherowski property. The proposed plan for the northside tract is to develop a 5th/6th grade center for the Downingtown Area School District (DASD).

Mr. Ebert discussed the wastewater aspects of the plan and requested meetings with Mr. Boldaz and Mr. Piersol to better understand a conceptual design. The intention for the southside of the Plank farm is to direct 15,750 gallons per day (gpd) of raw sewage flows to Applecross Pump Station B and to convey 23,625 gpd of treated effluent back to on-site disposal fields. Provisions for storage capacity have not been determined. Mr. Ebert discussed obtaining an easement for the treated effluent force main across the Weaver tract and possibly utilizing their disposal fields to concentrate the drip fields in that corridor. The drip fields on the Plank farm would still be designed, permitted, and the force main installed for future uses. Mr. Boldaz mentioned that a capped 6" line across Applecross V-B was installed as part of the Pulte development to return treated effluent to the Plank farm. Mr. Ebert will explore the possibility of an easement on the Weaver tract.

Sewage flows for the proposed 5th/6th grade center were estimated at 3,000 gpd for the student population of approximately 1,200. Mr. Ebert noted that the proposed school site is not included in any Act 537 Planning and asked about the long-term plans for the Keats Glen plant. Mr. Boldaz cited treatment problems at the plant as a result of high ammonia from the college and said another school would increase the already high concentration of ammonia in the wastewater. He asked if any consideration was given to conveying the raw sewage to Applecross by gravity via manhole #16 located in the vicinity of Village Hardware. Mr. Kelly said the concern is not sending the raw sewage to Applecross, but rather the cost to return the treated effluent back to the site for disposal.

Mr. Ebert said an option may be that the developer would be willing to pay a capital contribution or put infrastructure in the ground to phase out the entire package plant once the Plank farm is developed. The drip field on the proposed school site could still be designed and permitted since each project needs to stand alone from an approval standpoint. Mr. Mostoller advised that the sketch of the proposed school facility was done in conjunction with the School District's architect and indicated there is a sense of urgency so they can get a commitment from the School District. Mr. Kelly noted that the ordinance amendment to allow for a school in the MU Zoning District has been proposed and will be discussed at the Planning Commission meeting next week. The alternate plan for the northside of the Plank farm proposes 80 single family dwellings with sewage flows of 18,000 gpd. Mr. Mostoller said NVR is aware of and is interested in the residential component of the Plank farm, so they are working with them on possibly combining disposal fields, if extra capacity exists. Mr. Oeste advised that the Conditional Use Approval on the Weaver tract project will be made soon and the land development process will begin soon afterward, so timing is critical.

Mrs. Moser expressed some concern about the perception of having drip fields on school district property, especially if the fields are dormant for a number of years and then need to be activated.

Mr. Corbin voiced support for the Weaver Tract easement concept and to pursue the various options presented at this meeting. He further stated the Authority's preference for routing all raw effluent to Applecross with the possibility of utilizing Keats Glen as an option for the school facility. Mr. Boldaz will provide a set of as-built plans to Mr. Kelly and work with him on the potential gravity connection.

Hide-A-Way Farms

The final version of the Bulk Sewer Agreement with Aqua will be considered at the next meeting. Mr. Oeste advised that the Agreement becomes effective upon acceptance of dedication of the sanitary sewer facilities. There has been no contact from Tim Townes of Southdown Homes concerning the status of dedication. Mr. Boldaz mentioned that there are still some manholes on Emma Court that need to be adjusted prior dedication.

Mr. Boldaz suggested consideration be given to utilizing the existing disposal beds at Hide-A-Way for the treated effluent from the proposed school on the Plank farm. The disposal beds require little maintenance and have no storage requirement as opposed to a 3-day storage requirement for drip disposal and a 30-day storage requirement for spray irrigation. There are currently two unused force mains on Little Washington Road—one previously carried raw sewage from the Hopewell development to the Little Washington Wastewater Treatment Plant, and the other was intended to carry treated effluent from Little Washington to the Hide-A-Way disposal beds. A connection between the two force mains would gain approximately 39,680 gpd of additional disposal. A capital contribution from the developer of the Plank farm could be used to recommission the abandoned Bondsville Road Pump Station to carry the treated effluent back to the Hide-A-Way disposal areas.

The Estates at Dowlin Forge (a.k.a. Hillendale)

Mr. Boldaz reported that Field Order #1 was generated for the core boring through the tank wall for a penetration that was missed during casting of the wall. Hydraterra issued a letter on 5/15/19 approving Field Order #1. Additional work on the treatment plant included tensioning the walls and pumping grout into the keyways for all the walls and on the bottom of the tank to make it watertight. Construction of the tank is complete and Dutchland is off-site. The leakage test is scheduled for next week.

The wet well for Pump Station #2 was set last month. This month, the top of the wet well was installed. The generator is on-site and some of the piping was installed. The pumps have not been installed yet.

Construction of the collection system in Phase II is ongoing with the installation of 14 manholes, 1,550 feet of 8" pipe, 26 laterals, and the pressure testing of 11 manhole runs.

Hydraterra issued a letter to Ebert Engineering on 5/28/19 regarding some deficiencies noted in the Pump and Haul Report for the month of April. The report failed to account for an additional 26,000 gallons of raw sewage that was pumped off site, several manifests were missing, and photographs of the original inspection logs were not included. These deficiencies are to be addressed in a revised report and submitted to DEP.

Mr. Corbin left the meeting at 9:10 AM, and Mrs. Moser chaired the remainder of the meeting.

Act 537 Planning Grant

Mr. Boldaz reported that Hydraterra has received all the survey data for preparation of the Needs Analysis and information is currently being plotted on a map. The Task Force will meet again on 6/13/19 to identify the problem areas and discuss potential alternatives to address those areas. DEP is requiring 15% of the total responses to be field verified, which equates to 129 door-to-door surveys. Hydraterra has proposed to conduct 30 to 40 total field verifications out of the 863 respondents in combination with repair and replacement data obtained from the Chester County Health Department to fully understand the sewage needs in accordance with the survey responses. The field verifications will be scheduled within the next month.

Old Business

Hydraterra continues to work on preparation of a draft lateral policy to address the inflow and infiltration problem.

New Business

None.

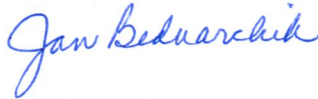
Public Comment

None.

Adjournment

Mr. Summers moved to adjourn the meeting at 9:20 AM. Mr. McClung seconded the motion, which carried unanimously. The next meeting is Tuesday, June 11, 2019.

Respectfully submitted,



Jan C. Bednarchik
Secretary