

CHAPTER I

PLAN ADDENDUM SUMMARY

A. PREVIOUS PLANNING

The information contained herein represents an addendum (Plan Addendum) to the previously approved Act 537 Plan (Base Plan) that was adopted by the Westtown Township Board of Supervisors on June 3, 2002 and sent to DEP on June 26, 2002. The Base Plan, which has not been approved by DEP, evaluated soils, Health Department records and the age of the various developments to determine the need for public sewer in the currently unsewered areas of the Township. The Base Plan concluded that actual implementation of the public sewer extensions would be deferred until such time as additional information regarding the on-lot systems was obtained. In addition, the Base Plan stated that the selected alternative for the collection and conveyance system would be deferred until such time as a special study was conducted to compare the capital and operational and maintenance costs of a standard (gravity) collection system versus a low pressure (grinder pump) system.

B. CURRENT ADDENDUM

This Plan Addendum provides the results of an on-lot system survey conducted by West Chester University as well as the selected alternative for the collection and conveyance system.

1. On-Lot System Survey

Chapter II of this Plan Addendum presents the background and results of the on-lot system survey conducted by West Chester University. The on-lot system survey, which was conducted as a mailer survey with follow-up personal interviews, requested that the homeowner provide certain information regarding their on-lot system that would be indicative of system problems or failure. The results of the survey indicate that many homeowners are experiencing problems with their on-lot systems. Mapping of the survey results also indicate that the problems are evenly disbursed throughout the unsewered areas of the Township. Aggravating circumstances such as on-lot wells or small lots are, however, concentrated in the older developments.

In consideration of the results of the survey, the Township has concluded that all of the unsewered areas of the Township are in eventual need of public sewer. Due to the predominance of aggravating circumstances in the eastern portion of the Township (indicated as the Westtown-Chester Creek Study Area in the Base Plan), this Plan Addendum will focus on implementation of public sewers in this area.

2. Collection And Conveyance

As mentioned above, the Base Plan indicated that a special study would be conducted to further evaluate and compare the grinder pump and gravity collection system alternatives. Due to long term operational and maintenance concerns, the Township has designated gravity sewers as the collection and conveyance system. As such, a special study will not be conducted. This Plan Addendum presents a modified gravity sewer collection alternative to serve the Westtown-Chester Creek Study Area. Treatment and disposal is to occur at the Westtown-Chester Creek WWTP.

3. Phasing

A phasing plan is provided in this Plan Addendum that seeks to first provide service (0-5 years) to the older developments in the Westtown-Chester Creek Study Area, while maximizing the existing permitted capacity of 495,000 gpd at the WWTP. The balance of the Study Area will be served in 6-10 years.

C. SELECTED ALTERNATIVE

Westtown-Chester Creek Study Area

The selected alternative for the Westtown-Chester Creek Study Area is the extension of public sewer into the unsewered portions of the Study Area in accordance with a phasing plan as provided in Chapter III. The Westtown-Chester Creek WWTP will be re-rated in year 2-3 of the Implementation Schedule to assure that capacity is available to provide for the wastewater needs of the 5-10 year service areas.

Route 202 Study Area

Based on the results of the on-lot system survey conducted by West Chester University, the Township has determined that the unsewered portions of the Study Area should be served with public sewers. Treatment and disposal would occur at the West Chester or West Goshen WWTP. Additional planning will be done to designate the collection and conveyance system as a gravity sewer system. Until such time as this planning is conducted and public sewers are extended, this area will continue to rely on on-lot systems.

A portion of the Route 202 Study Area, known as the Crebilly Farm, will rely on a new Community System to serve new development when the development is proposed. The community system for this area would be considered by the Township in accordance with the Community System Selection Strategy found in Chapter VI of the Base Plan.

West Goshen Study Area

Based on the results of the on-lot system survey conducted by West Chester University, the Township has determined that the unsewered portions of the Study Area should be served with public sewers. Treatment and disposal would occur at the West Chester or West Goshen WWTP. Additional planning will be done to designate the collection and conveyance system as a gravity sewer system. Until such time as this planning is conducted and public sewers are extended, this area will continue to rely on on-lot systems.