

PART 3 – GENERAL PLAN CONTENT

I. Previous Wastewater Planning

This chapter identifies previous wastewater planning conducted in the Township and evaluates the successes and failures of those efforts.

A. Identify and analyze all existing wastewater planning that:

1. Has been previously undertaken under the Sewage Facilities Act (Act 537).

South Middleton Township adopted an OFFICIAL WASTEWATER FACILITIES PLAN (ACT 537), prepared by Glace and Glace, Inc. in 1980. This document analyzed various areas within the Township as to the need, function and capability of public sewer systems compared to individual on-lot disposal systems.

The 1980 Plan was updated and a new plan was approved in 1992. The 1992 Plan designated potential service areas for future growth and provided service area and total population projections. It concluded that the Township had an extensive municipal sanitary sewerage system that had the potential to provide sufficient conveyance and treatment capacities for the anticipated growth areas of the Township.

Another challenge identified in the 1992 Plan was providing affordable municipal collection and conveyance facilities to serve areas experiencing inadequate performance of on-lot disposal systems. The Plan identified two (2) specific problem areas that were experiencing significant numbers of malfunctioning on-lot systems: The J. C. Maurice and Sandbank Road Area and the Walnut Terrace and Westmoreland Heights Area.

The 1992 Plan also identified those areas outside of sewer service areas as being served by on-lot disposal systems. As part of the plan, Township-wide well testing was performed that documented nitrate/nitrite problems. In addition, karst geology was identified in a significant portion of the Township. Accordingly, these areas have been required to perform hydrogeologic studies under the approval of the plan (See Appendix J for approval letter). Also contained within that letter was a condition that a certain area of the Township was ineligible for development relying on on-lot systems.

The 1992 Plan also recommended that a Sewage Management Program be established by the Township, to monitor the operation and maintenance of on-lot disposal systems. This has been established.

The 1992 Plan also recommended a well construction or well monitoring ordinance be implemented. This has been established and the ordinance is included in Appendix K for reference.

Finally, as a result of sewage flow projections and new permit requirements, the Plan identified a necessary treatment plant upgrade at the South Middleton Township Municipal Authority Treatment Facility.

The Implementation Schedule, as approved for the 1992 Plan, was as follows:

Activity	Need	Proposed Date	Actual Date
Construction of Bethel/Graham Buick Pumping Station	Sewage Malfunction	Complete	1992
Construct Allen Road Pumping Station #5	Future Growth	Immediate	1995
Construct STP Upgrade	Future Growth/New Requirements	Under Construction	1993
Implement Sewage Management Program	Sewage Malfunction & Growth	June 1993	1998
Construct New Sewers in J. C. Maurice and Sandbank Road Area	Sewage Malfunctions	One Year Following Connection of Sewer in Westgate Development (6/98)	2000
Construct New Sewers in Walnut Terrace and Westmoreland Heights Area	Sewage Malfunctions	One Year Following Connection of Sewer in Carlisle Square Development	2005

The South Middleton Township Municipal Authority (SMTMA) also constructed several new pumping stations since 1992.

Pump Station No. 6

Pump Station No. 6 was constructed by a developer along Trindle Road and discharges to the South Middleton Township Municipal Authority collection / conveyance system. The pump station was completed in 1991.

Pump Station No. 8

Pump Station No. 8 was constructed by a developer to serve 50 dwelling units in the Cobblestone Land Development and discharges to the South Middleton Township Municipal Authority collection / conveyance system. The pump station was completed in 1995.

Pump Station No. 9

Pump Station No. 9 in the Carlisle Borough Service Area. This new pumping station reroutes flows from south and west of the Borough to the South Pitt Street interceptor, and alleviated a potential overload of the Walnut Bottom Road line entering the Borough's system.

Pump Station No. 10

Pump Station No. 10 was construction by a developer and replace the existing pump station known as the Wood Lane Pump Station. The new station serves the Carlisle Crossing Land Development (shopping plaza) in addition to the Wood Lane residences. The pump station was completed in 2005.

Pump Station No. 11

Pump Station No. 11 was constructed to serve the sanitary sewer needs in the area along the Holly Pike (Route 34), north of Marsh Drive, including the two mobile home parks on Bonnybrook Road. The pump station and sanitary sewers were completed in 2005 in conjunction with the Walnut Terrace and Westmoreland Heights areas.

Pump Station No. 12

Pump Station No. 12 was constructed to serve the sanitary sewer needs in the Walnut Terrace and Westmoreland Heights areas. The pump station and sanitary sewers were completed in 2005 in conjunction with Pump Station No. 11 and the Holly Pike (Route 34) and Bonnybrook Road areas.

Another major project involved rerouting a majority of the flows treated by the Mt. Holly Springs Borough Authority back to the South Middleton Township Municipal Authority Service Area. Completed in 2003, this project was a result of a request for increased capacity from PPG Industries, and the need to upgrade the Mt. Holly Springs Borough Authority Treatment Facilities.

As part of that project, a force main was constructed from the Mt. Holly Springs Area to a terminal manhole in Area I. This force main runs through an area designated as Agricultural & Conservation. As such, the Board of Supervisors revised the Act 537 Plan to account for the re-routing of the flow, as well as addressing the development pressure that would be created by access to public sewer in a conservation area. Resolution #01-11 was adopted (attached in Appendix L) that recognizes the revision to the Act 537 Plan and limits connections to the system unless there are documented on-lot system malfunctions. To date, there has only been one private connection to

the system and is also documented in Appendix L via Resolution #02-18 for the connection.

In addition, the Township implemented a Sewage Management Program in October of 1998, and revised it in February of 2000. The program was established by Ordinance, the latest one (2000) is included in Appendix H. The program establishes regulations in regards to concerning the following:

- The location of initial and replacement individual on-lot sewage systems with the Township.
- Established Chapter 71, 72, and 73 of Title 25 of the Pennsylvania Code as the Township's regulations for the installation and issuance of permits.
- Requiring that permits be obtained prior to the installation of an individual on-lot sewage system regardless of the size of the lot.
- Requiring maintenance of all individual on-lot and community sewage disposal systems, requiring that reports be made to the Township.
- Providing for penalties and remedies for the violation of the ordinance.
- Providing procedures for the administration of the ordinance.
- Requiring septage haulers to make reports and provide information to the Township.

Once implemented, the Township began a three year cycle for the notification of residents regarding their obligations, notifying approximately one third of the residents in each of the first three years and continuing every third year. A more extensive discussion regarding the results of the program is included later with the Sewage Disposal Needs Identification.

2. Has not been carried out according to an approved implementation schedule contained in the above plans.

For the most part, the recommendations proposed in the 1980 ACT 537 OFFICIAL WASTEWATER FACILITIES PLAN have been carried out or investigated. The recommendations of the 1992 Plan have all been carried out.

All activities as shown in the Implementation schedule above have been completed.

3. Is anticipated or planned by applicable sewer authorities.

The South Middleton Township Municipal Authority is presently planning the upgrade/expansion of the existing wastewater treatment facility in accordance with the Compliance Schedule issued with the current NPDES Permit.

In addition, in the near future, a developer will be relocating Pump Station No. 8 to accommodate growth downslope from the existing station, as well as upgrade Pump Station No. 4 to accommodate additional flow. This will be done as part the Morgan's Crossing and Jefferson Court II subdivisions west of Petersburg Road. The project is fully funded by the developer.

There is one area that is not presently sewered and is being considered for a future sewer expansion. This extension may done in conjunction with an adjacent future development or it may occur independently. The area in question contains twelve homes on the west side of Fairview Street south of Manhole CC-10 (see map in Appendix E). This would include an extension of approximately 1,150 feet of main and three manholes.

4. Has been done through planning modules, exemptions and addenda.

This document is an update and revision of the 1980 and 1991 ACT 537 OFFICIAL WASTEWATER FACILITIES PLANS, prepared by Glace and Glace, Inc. Appendix M contains a listing of those planning modules and exemptions approved since the 1991 plan was approved.

Approval of the 1991 Plan was contingent upon two conditions, the effectively created a moratorium in the Walnut Terrace and Westmoreland Heights Area. These conditions were as follows:

1. The designated Areas A and B on the September 15, 1992 Revision Map are not available for development relying on on-lot sewage disposal. Any interim method of treatment proposed for these areas shall include adequate financial security to insure completion of the sewer project within three (3) years.
2. Mini-modules may not be used north of the line, designating limestone geology, on Figure 15-A nor in the shaded areas shown on Exhibit II-19 from the 1991 Plan as within ¼ mile of nitrate samples above 5 mg/liter of N-NO₃. Preliminary hydrogeologic studies are required in these areas.

In 1997, South Middleton Township determined that Condition #1 created an undue burden on individual lot owners within the Walnut Terrace and Westmoreland Heights area. The 1992 Plan was predicated upon projected development in this area that would have resulted in the construction of sewer service and collection and conveyance lines large enough to support the entire Area A. Further developments were anticipated to extend into Area A, enabling sewer extensions sufficient to serve the remaining western portion of the township. The anticipated developments failed to evolve, thereby preventing the construction of the sewer service extension proposed by the 1992 Plan. As a result, individual lot owners in the area were unable to build

upon existing lots within previously approved subdivisions. Due to the unpredictability of future development, the burden upon individual lot owners could have extended into an unforeseeable future. Such a severe consequence was not deemed necessary for the protection of the public, particularly when the 1991 Plan contemplated a lifting of the ban in portions of Area A once the Western Village Park had been sewerred.

As a result, the Township Board of Supervisors adopted, by resolution, a Written Policy Revision to the 1992 Plan. The Township revised its plan to permit the interim use of on-lot disposal systems pursuant to septic designs approved by the Township Sewage Enforcement Officer, within existing subdivisions which have been approved and filed in the Recorder of Deeds Office of Cumberland County. This permission was conditioned upon the agreement of each lot owner granted permission for interim use of an on-lot disposal system to:

- (1) Deposit the sum of the current cost, the permit fee and tapping fee for each such lot upon which a residential dwelling is constructed; and
- (2) Upon agreement of said existing lot owners to establish their principal building within 150 feet of the sewer system line to be construction by South Middleton Township Municipal Authority; and
- (3) Be responsible for any future per lot costs; prior to commence of the construction thereof, as a security assessment, to be applied toward the construction cost of servicing such lot by public sewer system, upon the future construction of a public sewer system adjacent to and servicing such lot.

Acceptance of such conditions will be established in an agreement that must be signed by the applicant and Township before approval is given, as well as a condition on the septic permit that said septic permit is null and void when public sewer becomes available.

Since the sewer project called for in the implementation schedule has occurred, this revision is irrelevant, but is included in Appendix N for reference.