

ACT 537 PLAN

**FRANKLIN TOWNSHIP
OFFICIAL SEWAGE
FACILITIES PLAN**

Prepared for:
Franklin Township
P.O. Box 118
Kemblesville, Pennsylvania 19347

January 2002

Prepared by:
URS Corporation
1200 Philadelphia Pike
Wilmington, Delaware 19809
302-791-0700

85 0018659914 99537

TABLE OF CONTENTS

	<u>PAGE</u>
Environmental Assessment Checklist	i-1 to i-13
Plan Summary	ii-1
Resolution of Adoption Plan	iii-1
Associated Correspondence	iv-1 to iv-26
Proof of Publication of Notice	v-1

CHAPTERS

I	PREVIOUS SEWAGE FACILITIES PLANNING	I-1 to I-6
II	PHYSICAL AND DEMOGRAPHIC ANALYSIS	II-1 to II-18
III	EXISTING SEWAGE TREATMENT FACILITIES IN THE PLANNING AREA	III-1 to III-2
IV	IDENTIFICATION OF FUTURE DEVELOPMENT AND GROWTH AREAS	IV-1 to IV-8
V	WASTEWATER ALTERNATIVES	V-1 to V-25
VI	ALTERNATIVES EVALUATION	VI-1 to VI-6
VII	INSTITUTIONAL EVALUATION	VII-1 to VII-2
VIII	SELECTED ALTERNATIVES	VIII-1 to VIII-8

MAPS

I-1	Future Land Use	I-3
I-2	Zoning Map	I-8
II-1	Study Areas	II-2
II-2	Drainage Basins, Streams, Lakes, And Floodplains	II-6
II-3	Soil Suitability for Subsurface Disposal	II-9
II-4	Surface Geology	II-12
II-5	Topography	II-14
II-6	Potable Water Supplies	II-18
IV-1	Existing Subdivisions	IV-2
V-1	Gravity/Force Main Option	V-17
V-2	Grinder Pump Option	V-18
VIII-1	Kemblesville Study Area	VIII-2

TABLES

II-1	Major Soil Types in Franklin Township	II-10
II-2	Geologic Formations of Franklin Township	II-11
II-3	Township Slope Characteristics	II-15
IV-1	Existing Subdivisions	IV-1
IV-2	Franklin Township Water Quality Designations	IV-5

TABLE OF CONTENTS (CONT'D.)

		<u>PAGE</u>
V-1	Technology Options by Wastewater System Component	V-1
V-2	General Applicability of Wastewater Alternatives for Franklin Township	V-12
V-3	Individual On-Lot Disposal System Selection	V-14
V-4	Individual OLDS Management Program Options	V-22
VI-1	Privatization Options	VI-5
VIII-1	Existing and Future Wastewater Flows Kemblesville Study Area	VIII-3
VIII-2	Existing and Future Wastewater Flows	VIII-7

APPENDICES

A	Grafton Association 1999 Draft Act 537 Master Sewage Facility Plan
B	Soil Classification from DEP Technical Manual
C	List of Septage Haulers
D	Sample OLDS Management Ordinance
E	Costs Summary

Commonwealth of Pennsylvania
Department of Environmental Protection
Bureau of Water Quality Protection

**ACT 537 PLAN CONTENT
AND ENVIRONMENTAL ASSESSMENT CHECKLIST**

For specific details covering Act 537 planning requirements, refer to Chapters 71 and 73 of DEP's Regulations.

Municipality: Franklin County: Chester

Local Municipal Contact Official: Robert Meyer, Township Manager

Telephone Number of Official: 610.255.5212

Consultant: URS Corporation

Consultant's Telephone Number: 302.791.0700

Consultant's Contact Person: Christopher Rogers, AICP

Title of Submission: Franklin Township Official Sewage Facilities Plan

Date Submitted: January 31, 2002

About this checklist

- * DEP publication 3640-BK-DER1480 11/92, "A Guide For Preparing Act 537 Update Revisions -- November 1992", is obsolete. Do not use checklist pages from that publication.
- * You must complete and attach this checklist when you submit the plan to the department for review and approval.
- * This checklist is composed of two parts, one for Administrative Completeness and one for General Plan Content. A plan must be "administratively complete" in order to be formally reviewed and approved by the department. The General Plan Content checklist identifies each of the issues which must be addressed in your Act 537 Plan Update based on a pre-planning meeting between you and/or your consultant and the Department. The Administrative Completeness checklist is found on page 3. The General Content checklist is found on pages 4 through 14. PENNVEST funded or applicant plans must address planning requirements on page 15.
- * You must use the right-hand column blanks in the checklist to identify the page in the plan on which each planning issue is found or reference a previously approved update or special study (title and page number).
- * If you determine a planning issue is not applicable even though it was previously thought to be needed, please explain your decision within the text of the plan (or as a footnote) and indicate the page number where this documentation is found.
- * After Municipal Adoption by Resolution, submit three copies of the plan, any attachments or addenda, and this checklist to the department.

ADMINISTRATIVE COMPLETENESS CHECKLIST

EP Use Only	Indicate Page #(s) in Plan	In addition to the main body of the plan, the plan must include items one through eight listed below to be accepted for formal review by the department. Incomplete Plans will be returned unless the municipality is clearly requesting an advisory review.
_____	<u>Not Numbered</u>	1. Table of Contents
_____	<u>ii-1</u>	2. Plan Summary
_____	<u>ii-1</u>	A. Identify the proposed service areas and major problems evaluated in the plan. (Reference - Title 25, §71.21.a.7.i).
_____	<u>ii-1</u>	B. Identify the alternative(s) chosen to solve the problems and serve the areas of need identified in the plan. Also, include any institutional arrangements necessary to implement the chosen alternative(s). (Reference Title 25 §71.21.a.7.ii).
_____	<u>ii-1</u>	C. Present the estimated cost of implementing the proposed alternative (including the user fees) and the proposed funding method to be used. (Reference Title 25, §71.21.a.7.ii).
_____	<u>ii-1</u>	D. Identify the municipal commitments necessary to implement the Plan. (Reference Title 25, §71.21.a.7.iii).
_____	<u>ii-1</u>	E. Provide a schedule of implementation for the project which identifies the MAJOR milestones with dates necessary to accomplish the project to the point of operational status. (Reference Title 25, §71.21.a.7.iv).
_____	<u>iii-1</u>	3. Original, signed and sealed Resolution of Adoption by the municipality which contains, at a minimum, alternatives chosen and a commitment to implement the Plan in accordance with the implementation schedule. (Reference Title 25, §71.31.f) Section V.F. of the Planning Guide.
_____	<u>iv-1</u>	4. Evidence that the municipality has requested, reviewed and considered comments by appropriate official planning agencies of the municipality, planning agencies of the county, planning agencies with areawide jurisdiction (where applicable), and any existing county or joint county departments of health. (Reference-Title 25, §71.31.b) Section V.E.1 of the Planning Guide.
_____	<u>v-1</u>	5. Proof of Public Notice which documents the proposed plan adoption, plan summary, and the establishment and conduct of a 30 day comment period. (Reference-Title 25, §71.31.c) Section V.E.2 of the Planning Guide.
_____	<u>N/A</u>	6. Copies of ALL written comments received and municipal response to EACH comment in relation to the proposed plan. (Reference-Title 25, §71.31.c) Section V.E.2 of the Planning Guide.
_____	<u>VIII-8</u>	7. A complete project implementation schedule with milestone dates specific for each existing and future area of need. Other activities in the project implementation schedule should be indicated as occurring a finite number of days from a major milestone. (Reference-Title 25, §71.31.d) Section F of the Planning Guide. Include dates for the future initiation of feasibility evaluations in the project's implementation schedule for areas proposing completion of sewage facilities for planning periods in excess of five years. (Reference Title 25, §71.21.b).
_____	<u>iv-1</u>	8. Documentation indicating that the appropriate agencies have received, reviewed and concurred with the method proposed to resolve identified inconsistencies within the proposed alternative and consistency requirements in 71.21.(a)(5)(i-iii). (Reference-Title 25, §71.31.e). Appendix B of the Planning Guide.

GENERAL PLAN CONTENT CHECKLIST

DEP Use Only	Indicate Page #(s) in Plan	Item Required
--------------	----------------------------	---------------

I. Previous Wastewater Planning

A. Identify and briefly analyze all existing wastewater planning that:

- | | | |
|-------|------------|---|
| _____ | <u>I-1</u> | 1. Has been previously undertaken under the Sewage Facilities Act (Act 537). (Reference-Act 537, Section 5 §d.1). |
| _____ | <u>I-1</u> | 2. Has not been carried out according to an approved implementation schedule contained in the plans. (Reference-Title 25, §71.21.a.5.i.A-D). Section V.F of the Planning Guide. |
| _____ | <u>I-1</u> | 3. Is anticipated or planned by applicable sewer authorities. (Reference-Title 25, §71.21.a.5.i.A). Section V.D. of the Planning Guide. |
| _____ | <u>I-1</u> | 4. Has been done through planning modules for new land development, planning “exemptions” and addenda. (Reference-Title 25, §71.21.a.5.i.A). |

B. Identify and briefly summarize all municipal and county planning documents adopted pursuant to the Pennsylvania Municipalities Planning Code (Act 247) including:

- | | | |
|-------|------------|--|
| _____ | <u>I-1</u> | 1. All land use plans and zoning maps which identify residential, commercial, industrial, agricultural, recreational and open space areas. (Reference-Title 25, §71.21.a.3.iv). |
| _____ | <u>I-3</u> | 2. Zoning or subdivision regulations that establish lot sizes predicated on sewage disposal methods. (Reference-Title 25 §71.21.a.3.iv). |
| _____ | <u>I-5</u> | 3. All limitations and plans related to floodplain and stormwater management and special protection (Ch. 93) areas. (Reference-Title 25 §71.21.a.3.iv) Appendix B, Section II.F of the Planning Guide. |

II. Physical and Demographic Analysis utilizing written description and mapping (All items listed below require maps, and all maps should show all current lots and structures and be of appropriate scale to clearly show significant information).

- | | | |
|-------|-------------|--|
| _____ | <u>II-1</u> | A. Identification of planning area(s), municipal boundaries, Sewer Authority/Management Agency service area boundaries. (Reference-Title 25, §71.21.a.1.i). |
| _____ | <u>II-5</u> | B. Identification of physical characteristics (streams, lakes, impoundments, natural conveyance, channels, drainage basins in the planning area). (Reference-Title 25, §71.21.a.1.ii). |
| _____ | <u>II-7</u> | C. Soils - Analysis with description by soil type and soils mapping. Show areas suitable for in-ground on-lot systems, elevated sand mounds, individual residential spray irrigation systems, and areas unsuitable for soil dependent systems. (Reference-Title 25, §71.21.a.1.iii). Show Prime Agricultural Soils and any locally protected agricultural soils. (Reference-Title 25, §71.21.a.1.iii). |

- II-11 D. Geologic Features - (1) Identification through analysis, (2) mapping and (3) their relation to existing or potential nitrate-nitrogen pollution and drinking water sources. Include areas where existing nitrate-nitrogen levels are in excess of five mg/l. (Reference-Title 25, §71.21.a.1.iii).
- II-13 E. Topography - Depict slopes that are suitable for conventional systems; slopes that are suitable for elevated sand mounds; slopes that are unsuitable for on-lot systems. (Reference-Title 25, §71.21.a.1.ii).
- II-17 F. Potable Water Supplies - Identification through mapping, description and analysis to include available public water supply capacity and aquifer yield for groundwater supplies. (Reference-Title 25 §71.21.a.1.vi). Section V.C. of the Planning Guide.
- II-5 G. Wetlands-Identify wetlands as defined in Title 25, Chapter 105 by description, analysis and mapping. Include National Wetland Inventory mapping and potential wetland areas per USDA, SCS mapped hydric soils. Proposed collection, conveyance and treatment facilities and lines must be located and labeled, along with the identified wetlands, on the map. (Reference-Title 25, §71.21.a.1.v). Appendix B, Section II.I of the Planning Guide.

III. Existing Sewage Facilities in the Planning Area - Identifying the Existing Needs

- A. Identify, map and describe municipal and non-municipal, individual and community sewerage systems in the planning area including:
 - III-1 1. Location, size and ownership of treatment facilities, main intercepting lines, pumping stations and force mains including their size, capacity, point of discharge. Also include the name of the receiving stream, drainage basin, and the facility's effluent discharge requirements. (Reference-Title 25, §71.21a.2.i.A).
 - III-1 2. A narrative and schematic diagram of the facility's basic treatment processes including the facility's NPDES permitted capacity, and the Clean Streams Law permit number. (Reference-Title 25, §71.21.a.2.i).
 - III-1 3. A description of problems with existing facilities (collection, conveyance and/or treatment), including existing or projected overload under Title 25, Chapter 94 (relating to municipal wasteload management) or violations of the NPDES permit, Clean Streams Law permit, or other permit, rule or regulation of the department. (Reference-Title 25, §71.21.a.2.i.B).
 - III-1 4. Details of scheduled or in-progress upgrading or expansion of treatment facilities and the anticipated completion date of the improvements. Discuss any remaining reserve capacity and the policy concerning the allocation of reserve capacity. Also discuss the compatibility of the rate of growth to existing and proposed wastewater treatment facilities. (Reference-Title 25, §71.21.a.4.i & ii).
 - III-1 5. A detailed description of operation and maintenance requirements of the municipality for on-lot systems and the status of past and present compliance with these requirements and any other requirements relating to sewage management programs. (Reference-Title 25, §71.21.a.2.i.C).
 - III-2 6. Disposal areas, if other than stream discharge, and any applicable groundwater limitations. (Reference-Title 25, §71.21.a.4.i & ii).
- B. Using DEP's manual titled "Sewage Disposal Needs Identification Guidance," identify, map and describe areas that utilize individual and community on-lot sewage disposal and, unpermitted collection and disposal systems ("wildcat" sewers, borehole disposal, etc.) and

retaining tank systems in the planning area including:

- | | |
|---|---|
| _____ <u>III-1</u> | 1. The types of systems in use. (Reference-Title 25, §71.21.a.2.ii.A). |
| _____ <u>III-1</u> | 2. A sanitary survey complete with a description of documented and potential public health pollution, and operational problems (including malfunctioning systems) with the systems, including violations of local ordinances, the Sewage Facilities Act, the Clean Stream Law or regulations promulgated thereunder. (Reference-Title 25, §71.21.a.2.ii.B). |
| _____ <u>III-2</u> | 3. A comparison of the types of on-lot sewage systems installed in an area with the types of systems which are appropriate for the area according to soil, geologic conditions, topographic limitations sewage flows, and Title 25 Chapter 73 (relating to standards for sewage disposal facilities). (Reference-Title 25, §71.21.a.2.ii.C). |
| _____ <u>III-2</u> | 4. An individual water supply survey to identify possible contamination by malfunctioning on-lot sewage disposal systems consistent with the DEP Sewage Disposal Needs Identification Guidance manual. (Reference-Title 25 §71.21.a.2.ii.B). |
| C. Identify wastewater sludge and septage generation, transport and disposal methods. Include this information in the sewage facilities alternative analysis including: | |
| _____ <u>III-2</u> | 1. Location of sources of wastewater sludge or septage (Septic tanks, holding tanks, wastewater treatment facilities). (Reference-Title 25 §71.71). |
| _____ <u>III-2</u> | 2. Quantities of the types of sludges or septage generated. (Reference-Title 25 §71.71). |
| _____ <u>III-2</u> | 3. Present disposal methods, locations, capacities and transportation methods. (Reference-Title 25 §71.71). |

IV. Future Growth and Land Development

A. Delineate and describe the following through map, text and analysis:

- | | |
|-------------------|---|
| _____ <u>IV-1</u> | 1. Areas with existing development or plotted subdivisions. Include the name, location, description, total number of EDU's in development, total number of EDU's currently developed and total number of EDUs remaining to be developed (include time schedule for EDU's remaining to be developed). (Reference-Title 25, §71.21.a.3.i). |
| _____ <u>IV-3</u> | 2. Land use designations established under the Pennsylvania Municipalities Planning Code (35 P.S. 10101-11202), including residential, commercial and industrial areas. (Reference-Title 25, §71.21.a.3.ii). Include a comparison of proposed land use as allowed by zoning and existing sewage facility planning. (Reference-Title 25, §71.21.a.3.iv). |
| _____ <u>IV-3</u> | 3. Future growth areas with population and EDU projections for these areas using historical, current and future population figures and projections of the municipality. Discuss and evaluate discrepancies between local, county, state and federal projections as they relate to sewage facilities. (Reference-Title 25, §71.21.a.1.iv). (Reference-Title 25, §71.21.a.3.iii). |
| _____ <u>IV-4</u> | 4. Zoning, and/or subdivision regulations; local, county or regional comprehensive plans; and existing plans of a Commonwealth agency relating to the development, use and protection of land and water resources with special attention to: (Reference-Title 25, §71.21.a.3.iv). |

--public ground/surface water supplies

- recreational water use areas
- groundwater recharge areas
- industrial water use
- wetlands

IV-6

5. Sewage planning to provide adequate wastewater treatment for the municipality. This planning must be related to both the five and ten year future planning periods and be based on growth impacts on existing and proposed wastewater collection and treatment facilities. (Reference-Title 25, §71.21.a.3.v).

V. Identify Alternatives to Provide New or Improved Wastewater Disposal Facilities

A. Conventional collection, conveyance, treatment and discharge alternatives including:

Discussed
Throughout
Chapter

1. The potential for regional wastewater treatment. (Reference-Title 25, §71.21.a.4).
2. The potential for extension of existing municipal or non-municipal sewage facilities to areas in need of new or improved sewage facilities. (Reference-Title 25, §71.21.a.4.i).
3. The potential for the continued use of existing municipal or non-municipal sewage facilities through one or more of the following: (Reference-Title 25, §71.21.a.4.ii).
 - a. Repair. (Reference-Title 25, §71.21.a.4.ii.A).
 - b. Upgrading. (Reference-Title 25, §71.21.a.4.ii.B).
 - c. Reduction of hydraulic or organic loading to existing facilities. (Reference-Title 25, §71.71).
 - d. Improved operation and maintenance. (Reference-Title 25, §71.21.a.4.ii.C).
 - e. Other applicable actions that will resolve or abate the identified problems. (Reference-Title 25, §71.21.a.4.ii.D).
4. The need for construction of new community sewage systems including sewer systems and/or treatment facilities. (Reference-Title 25, §71.21.a.4.iii).
5. Repair or replacement of collection and conveyance system components. (Reference-Title 25, §71.21.a.4.ii.A).
6. Use of innovative/alternative methods of collection/conveyance to serve needs areas using existing wastewater treatment facilities. (Reference-Title 25, §71.21.a.4.ii.B).

**Discussed
Throughout
Chapter**

B. The use of individual sewage disposal systems including individual residential spray irrigation systems based on:

1. Soil and slope suitability. (Reference-Title 25, 71.21.a.2.ii.C).
2. Preliminary hydrogeologic evaluation. (Reference-Title 25, §71.21.a.2.ii.C).
3. The establishment of a sewage management program. (Reference-Title 25, §71.21.a.4.iv). See also Part "F" below.
4. The repair, replacement or upgrading of existing malfunctioning systems in areas suitable for on-lot disposal considering: (Reference-Title 25, §71.21.a.4).
 - a. Existing technology and sizing requirements of Title 25 Chapter 73. (Reference-Title 25, §73.31-73.72).
 - b. Use of expanded absorption areas or alternating absorption areas. (Reference-Title 25, §73.16).
 - c. Use of water conservation devices. (Reference-Title 25, §71.73.b.2.iii).

**Discussed
Throughout
Chapter**

C. The use of small flow sewage treatment facilities or package treatment facilities to serve individual homes or clusters of homes based on: (Reference-Title 25, §71.64.d).

1. Treatment and discharge requirements. (Reference-Title 25, §71.64.d).
2. Soil suitability. (Reference-Title 25, §71.64.c.1).
3. Preliminary hydrogeologic evaluation. (Reference-Title 25, §71.64.c.2).
4. Agency or other controls over operation and maintenance requirements. (Reference-Title 25, §71.64.d). See Part "F" below.

**Discussed
Throughout
Chapter**

D. The use of community land disposal alternatives including:

1. Soil and site suitability. (Reference-Title 25, 71.21.a.2.ii.C).
2. Preliminary hydrogeologic evaluation. (Reference-Title 25, 71.21.a.2.ii.C).
3. Controls over operation and maintenance requirements through a Sewage Management Program (Reference-Title 25, 71.21.a.2.ii.C). See Part "F" below.
4. The rehabilitation or replacement of existing malfunctioning community land disposal systems. (See Part V, B, 4, a, b, c above). See also Part "F" below.

**Discussed
Throughout
Chapter**

- E. The use of retaining tank alternatives on a temporary or permanent basis including: (Reference- Title 25, §71.21.a.4).
1. Commercial, residential and industrial use. (Reference-Title 25, §71.63.e).
 2. Designated conveyance facilities (pumper trucks). (Reference-Title 25, §71.63.b.2).
 3. Designated treatment facilities or disposal site. (Reference-Title 25, 71.63.b.2).
 4. Implementation of a retaining tank ordinance by the municipality. (Reference-Title 25, §71.63.b.2). See Part "F" below.
 5. Financial guarantees when retaining tanks are used as an interim sewage disposal measure. (Reference-Title 25, §71.63.c.2).

**Discussed
Throughout
Chapter**

- F. Sewage management programs to assure the future operation and maintenance of existing and proposed sewage facilities through:
1. Municipal ownership or control over the operation and maintenance of individual on-lot sewage disposal systems, small flow treatment facilities, or other traditionally non-municipal treatment facilities. (Reference-Title 25, §71.21.a.4.iv).
 2. Required inspection of sewage disposal systems on a schedule established by the municipality. (Reference-Title 25, §71.73.b.1).
 3. Required maintenance of sewage disposal systems including septic and aerobic treatment tanks and other system components on a schedule established by the municipality. (Reference-Title 25, §71.73.b.2).
 4. Repair, replacement or upgrading of malfunctioning on-lot sewage systems. (Reference-Title 25, §71.21.a.4.iv) through:
 - a. Aggressive pro-active enforcement of ordinances which require operation and maintenance and prohibit malfunctioning systems. (Reference-Title 25, §71.73.b.5).
 - b. Public education programs to encourage proper operation and maintenance and repair of sewage disposal systems.
 5. Establishment of joint municipal sewage management programs. (Reference-Title 25, §71.73.b.8).
 6. Requirements for bonding, escrow accounts, management agencies or associations to assure operation and maintenance for non-municipal facilities. (Reference-Title 25, §71.71).

**Discussed
Throughout
Chapter**

- G. Non-structural comprehensive planning alternatives that can be undertaken to assist in meeting existing and future sewage disposal needs including: (Reference-Title 25, §71.21.a.4).
 - 1. Modification of existing comprehensive plans involving:
 - a. Land use designations. (Reference-Title 25, §71.21.a.4).
 - b. Densities. (Reference-Title 25, §71.21.a.4).
 - c. Municipal ordinances and regulations. (Reference-Title 25, §71.21.a.4).
 - d. Improved enforcement. (Reference-Title 25, §71.21.a.4).
 - e. Protection of drinking water sources. (Reference-Title 25, §71.21.a.4).
 - 2. Consideration of a local comprehensive plan to assist in producing sound economic and consistent land development. (Reference-Title 25, §71.21.a.4).
 - 3. Alternatives for creating or changing municipal subdivision regulations to assure long-term use of on-site sewage disposal which consider lot sizes and protection of replacement areas. (Reference-Title 25, §71.21.a.4).
 - 4. Evaluation of existing local agency programs and the need for technical or administrative training. (Reference-Title 25, §71.21.a.4).

**Discussed
Throughout
Chapter**

- H. A no-action alternative which includes discussion of both short-term and long-term impacts on: (Reference-Title 25, §71.21.a.4).
 - 1. Water Quality/Public Health. (Reference-Title 25, §71.21.a.4).
 - 2. Growth potential (residential, commercial, industrial). (Reference-Title 25, 71.21.a.4).
 - 3. Community economic conditions. (Reference-Title 25, 71.21.a.4).
 - 4. Recreational opportunities. (Reference-Title 25, §71.21.a.4).
 - 5. Drinking water sources. (Reference-Title 25, §71.21.a.4).
 - 6. Other environmental concerns. (Reference-Title 25, 71.21.a.4).

VI. Evaluation of Alternatives

- A. Technically feasible alternatives identified in Section V of this check-list must be evaluated for consistency with respect to the following: (Reference-Title 25, §71.21.a.5.i.A).

VI-1

- 1. Applicable plans developed and approved under Sections 4 and 5 of the Clean Streams Law or Section 208 of the Clean Water Act (33 U.S.C.A. 1288). (Reference-Title 25, §71.21.a.5.i.A). Appendix B, Section II.A of the Planning Guide.

- VI-1
2. Municipal wasteload management plans developed under PA Code, Title 25, Chapter 94. (Reference-Title 25, §71.21.a.5.i.B). The municipality's recent Wasteload Management (Chapter 94) Reports should be examined to determine if the proposed alternative is consistent with the recommendations and findings of the report. Appendix B, Section II.B of the Planning Guide.
- VI-1
3. Plans developed under Title II of the Clean Water Act (33 U.S.C.A. 1281-1299) or Titles II and VI of the Water Quality Act of 1987 (33 U.S.C.A 1251-1376). (Reference-Title 25, §71.21.a.5.i.C). Appendix B, Section II.E of the Planning Guide.
- VI-2
4. Comprehensive plans developed under the Pennsylvania Municipalities Planning Code. (Reference-Title 25, §71.21.a.5.i.D). The municipality's comprehensive plan must be examined to assure that the proposed wastewater disposal alternative is consistent with land use and all other requirements stated in the comprehensive plan. Appendix B, Section II.D of the Planning Guide.
- VI-2
5. Antidegradation requirements as contained in PA Code, Title 25, Chapters 93, 95 and 102 (relating to water quality standards, wastewater treatment requirements and erosion control) and the Clean Water Act. (Reference-Title 25, §71.21.a.5.i.E). Appendix B, Section II.F of the Planning Guide.
- VI-2
6. State Water Plans developed under the Water Resources Planning Act (42 U.S.C.A. 1962-1962 d-18). (Reference-Title 25, §71.21.a.5.i.F). Appendix B, Section II.C of the Planning Guide.
- VI-2
7. Pennsylvania Prime Agricultural Land Policy contained in Title 4 of the Pennsylvania Code, Chapter 7, Subchapter W. Provide narrative on local municipal policy and an overlay map on prime agricultural soils. (Reference-Title 25, §71.21.a.5.i.G). Appendix B, Section II.G of the Planning Guide.
- VI-2
8. County Stormwater Management Plans approved by DEP under the Storm Water Management Act (32 P.S. 680.1-680.17). (Reference-Title 25, §71.21.a.5.i.H). Conflicts created by the implementation of the proposed wastewater alternative and the existing recommendations for the management of stormwater in the county Stormwater Management Plan must be evaluated and mitigated. If no plan exists, no conflict exists. Appendix B, Section II.H of the Planning Guide.
- VI-2
9. Using wetland mapping developed under Section II.A.7, identify and discuss mitigative measures including the need to obtain permits for any encroachments on wetlands from the construction or operation of any proposed wastewater facilities. Appendix B, Section II.I of the Planning Guide.
- VI-3
10. Protection of rare, endangered or threatened plant and animal species as identified by the Pennsylvania Natural Diversity Inventory (PNDI). (Reference-Title 25, §71.21.a.5.i.J). Provide the department with a copy of the completed Request For PNDI Search document. Also provide a copy of the response letter from the Department of Conservation and Natural Resources' Bureau of Forestry regarding the findings of the PNDI search. Appendix B, II.J.

VI-3

11. Historical and archaeological resource protection under P.C.S. Title 37, Section 507 relating to cooperation by public officials with the Pennsylvania Historical and Museum Commission. (Reference-Title 25, §71.21.a.5.i.K). Provide the department with a completed copy of a Cultural Resource Notice request to the Bureau of Historic Preservation (BHP) to provide a listing of known historical sites and potential impacts on known archaeological and historical sites. Also provide a copy of the response letter from the BHP. Appendix B, Section II.K of the Planning Guide.

VI-3

B. Provide for the resolution of any inconsistencies in any of the points identified in Section VI.A. of this checklist by submitting a letter from the appropriate agency stating that the agency has received, reviewed and concurred with the resolution of identified inconsistencies. (Reference-Title 25, §71.21.a.5.ii). Appendix B of the Planning Guide.

VI-3

C. Evaluate alternatives identified in Section V of this checklist with respect to applicable water quality standards, effluent limitations or other technical, legislative or legal requirements. (Reference-Title 25, §71.21.a.5.iii).

VI-3

D. Provide cost estimates using present worth analysis for construction, financing, on going administration, operation and maintenance and user fees for alternatives identified in Section V of this checklist. Estimates shall be limited to areas identified in the plan as needing improved sewage facilities within five years from the date of plan submission. (Reference-Title 25, §71.21.a.5.iv).

VI-4

E. Provide an analysis of the funding methods available to finance the proposed alternatives evaluated in Section V of this checklist. Also provide documentation to demonstrate which alternative and financing scheme combination is the most cost-effective; and a contingency financial plan to be used if the preferred method of financing cannot be implemented. The funding analysis shall be limited to areas identified in the plan as needing improved sewage facilities within five years from the date of the plan submission. (Reference-Title 25, §71.21.a.5.v).

F. Analyze the need for immediate or phased implementation of each alternative proposed in Section V of this checklist including: (Reference-Title 25, §71.21.a.5.vi).

VI-6

1. A description of any activities necessary to abate critical public health hazards pending completion of sewage facilities or implementation of sewage management programs. (Reference-Title 25, §71.21.a.5.vi.A).

VI-6

2. A description of the advantages, if any, in phasing construction of the facilities or implementation of a sewage management program justifying time schedules for each phase. (Reference-Title 25, §71.21.a.5.vi.B).

VII-1

G. Evaluate administrative organizations and legal authority necessary for plan implementation. (Reference - Title 25, §71.21.a.5.vi.D).

VII. Institutional Evaluation

A. Provide an analysis of all existing wastewater treatment authorities, their past actions and present performance including:

VII-1

1. Financial and debt status. (Reference-Title 25, §71.61.d.2).
2. Available staff and administrative resources. (Reference-Title 25, §71.61.d.2).
3. Existing legal authority to:
 - a. Implement wastewater planning recommendations. (Reference-Title 25, §71.61.d.2).
 - b. Implement system-wide operation and maintenance activities. (Reference-Title 25, §71.61.d.2).
 - c. Set user fees and take purchasing actions. (Reference-Title 25, §71.61.d.2).
 - d. Take enforcement actions against ordinance violators. (Reference-Title 25, §71.61.d.2).
 - e. Negotiate agreements with other parties. (Reference-Title 25, §71.61.d.2).
 - f. Raise capital for construction and operation and maintenance of facilities. (Reference-Title 25, §71.61.d.2).

VII-1

B. Provide an analysis and description of the various institutional alternatives necessary to implement the proposed technical alternatives including:

1. Need for new municipal departments or municipal authorities. (Reference-Title 25, §71.61.d.2).
2. Functions of existing and proposed organizations (sewer authorities, on-lot maintenance agencies, etc.). (Reference-Title 25, §71.61.d.2).
3. Cost of administration, implementability, and the capability of the authority/agency to react to future needs. (Reference-Title 25, §71.61.d.2).

C. Describe all necessary administrative and legal activities to be completed and adopted to ensure the implementation of the recommended alternative including:

VII-1

1. Incorporation of authorities or agencies. (Reference-Title 25, §71.61.d.2).
2. Development of all required ordinances, regulations, standards and inter-municipal agreements. (Reference-Title 25, §71.61.d.2).
3. Description of activities to provide rights-of-way, easements and land transfers. (Reference-Title 25, §71.61.d.2).
4. Adoption of other municipal sewage facilities plans. (Reference-Title 25, §71.61.d.2).
5. Any other legal documents. (Reference-Title 25, §71.61.d.2).
6. Dates or timeframes for items 1-5 above on the project's implementation schedule.

_____ VII-1 _____

- D. Identify the proposed institutional alternative for implementing the chosen technical wastewater disposal alternative. Provide justification for choosing the specific institutional alternative considering administrative issues, organizational needs and enabling legal authority. (Reference-Title 25, §71.61.d.2).

VIII. Justification for Selected Technical & Institutional Alternatives

- A. Identify the technical wastewater disposal alternative which best meets the wastewater treatment needs of each study area of the municipality. Justify the choice by providing documentation which shows that it is the best alternative based on:

_____ Discussed
_____ Throughout
_____ Chapter
_____ _____
_____ _____
_____ _____
_____ _____
_____ _____
_____ _____

1. Existing wastewater disposal needs. (Reference-Title 25, §71.21.a.6).
2. Future wastewater disposal needs. (5 and 10 years growth areas). (Reference-Title 25, §71.21.a.6).
3. Operation and maintenance considerations. (Reference-Title 25, §71.21.a.6).
4. Cost-effectiveness. (Reference-Title 25, §71.21.a.6).
5. Available management and administrative systems. (Reference-Title 25, §71.21.a.6).
6. Available financing methods. (Reference-Title 25, §71.21.a.6).
7. Environmental soundness and compliance with natural resource planning and preservation programs. (Reference-Title 25, §71.21.a.6).

- B. Designate and describe the capital financing plan chosen to implement the selected alternative(s). Designate and describe the chosen back-up financing plan.

PLAN SUMMARY

This plan represents an Official Sewage Facilities Plan for Franklin Township in Chester County, Pennsylvania. The purpose of this Plan is to evaluate the wastewater needs of the Kemblesville Study Area, and to evaluate wastewater treatment and disposal methods in the other Study Areas.

The basic features of the Plan are as follows:

- The selected alternative for the Kemblesville Study Area is use of a grinder pump/force main collection and conveyance system with treatment and disposal occurring at the proposed Echo Hill Farms development. The type of treatment and disposal at Echo Hill Farms will be decided by the Township during Sewage Planning Module review and approval process.
- The selected alternative for the remaining Study Areas is use of either the Individual On-Lot Disposal (OLDS) or Community On-Lot Disposal (COLDS) Selection Strategies depending on the development type (i.e., cluster or conventional) chosen by the developer and approved by the Township.
- Where COLDS are used, the Township will choose the type of treatment and disposal technology on a case-by-case basis depending on site specific considerations.
- The Township intends to own and operate any privately constructed community systems either by requiring a continuing offer of dedication or by stipulating the transfer of ownership to occur at some prescribed level of build-out.
- The Township will adopt an OLDS Management Ordinance that requires proof of pump out once every three (3) years.

IMPLEMENTATION SCHEDULE

The implementation of the selected alternative for the Kemblesville Study Area is completely contingent upon the proposed development of Echo Hill providing additional capacity in the COLDS for the Study Area. Although there has been considerable land development submittal activity in the area, no Sewage Planning Module has been officially submitted that would accommodate the wastewater needs of the Study Area. For this reason, no implementation schedule is provided herein. The Township fully intends and commits to actively pursuing additional capacity in the COLDS being proposed in the area. Once a development plan and sewage planning module have been approved, the Township will pursue design and permitting of the collection and conveyance system serving the Kemblesville Study Area.

RESOLUTION NO. 2001 - 24
Township of Franklin
Chester County, Pennsylvania

**A resolution of the Township of Franklin, Chester County, Pennsylvania for
adoption of an Act 537 Sewage Facilities Plan.**


WHEREAS Section 5 of the Act of January 24, 1966, P.L. 1535, No. 537, known as the "Pennsylvania Sewage Facilities Act", as amended, and the Rules and Regulations of the Pennsylvania Department of Environmental Protection, the Department adopted thereunder, Chapter 71 of Title 25 of the Pennsylvania Code, requires municipalities to adopt an Official Sewage Facilities Plan for the provision of adequate sewage systems and to revise said plan from time to time as may be necessary, and

WHEREAS Franklin Township has prepared the said Sewage Facilities Plan and has found it to be adequate for the wastewater disposal and management needs of the planning area.

NOW, THEREFORE, BE IT RESOLVED by the Board of Supervisors of Franklin Township that Franklin Township hereby adopts the plan known as the Franklin Township Act 537 Sewage Facilities Plan, this 13th day of December 2001. The Franklin Township Board of Supervisors hereby assures the Department of the proper and timely implementation of the said Plan as set forth therein.

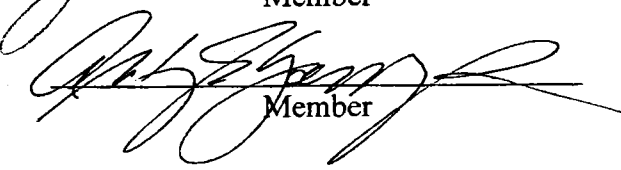
The Plan provides for the Kemblesville Study Area to be served by a proposed treatment and disposal facility for the Echo Hill Farms development. Sewage will be conveyed from Kemblesville via individual inder pumps and a low pressure force main. Other areas of the Township will be served by either individual or community on-lot systems depending on the development type approved by the Township. The Plan also provides for an on-lot management program that requires a property owner to provide proof to the Township that the system has been pumped out at least once every three years.

FRANKLIN TOWNSHIP
BOARD OF SUPERVISORS


Chairman

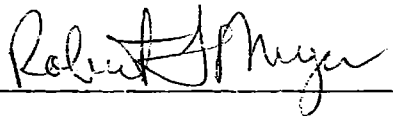

Member


Member


Member

Member

attest:



Supervisor Yarmolyk made a motion to approve a drawdown in the amount of \$111,544.00 from the escrow created by Land Associates, Inc. for the White Briar Subdivision. Chairman Walls seconded the motion and the vote was unanimous.

Zoning Officer's Report: Township Manager Meyer reported that five (5) Building Permits were issued and eleven (11) construction inspections were completed in September.

Snow Removal: Chairman Walls tabled the opening of the Snow Removal Bid received until the Board of Supervisors meeting in November or after a five (5) day advertised notice for a special meeting.

Walker Road Improvements: The township received one bid on the proposed project to widen Walker Road. Chairman Walls opened the bid from S. A. Macanga and reported that the total bid amount was \$19,678.00 and a 10% Bid Bond was attached. Chairman Walls presented the bid package to Lloyd Noll for review of completeness and accuracy.

Zoning Ordinance Review: Township Manager Meyer stated that the next meeting to review ordinances will be held on November 5, 2001. The proposed ordinance for the servicing of on-lot sewer systems will be presented at the next Planning Commission meeting. The key issue in preparing the draft of this ordinance is to define the starting point.

Other:

Act 537: Township Manager Meyer requested the Board to advertise the availability of the proposed Act 537 Plan for public inspection for 30 days and that the Board consider the plan for adoption at the Board of Supervisors meeting in December. Supervisor Yarmolyk stated that the Board would address comments received and incorporate any appropriate changes to the draft of the plan to be adopted and submitted to the outside agencies for approval.

Chairman Walls made a motion to advertise the 30 day public comment period of the proposed draft of the Act 537 Plan. Supervisor Yarmolyk seconded the motion and the vote was unanimous.

Impact Fee Study Committee: Mr. Kevin Barrows reported that the committee has requested information from the county to help determine what roads will be impacted in the future. The committee may not be able to meet the end of the year deadline and the approval by Chester County may take 30 days.

Equipment Purchase: The equipment that the township would like to purchase for the loading of salt into the trucks for snow removal during the winter season has not been located. Chairman Walls had the township's request for equipment added to a list at Federal Surplus and will continue the search for the equipment.

Public Comment: Ms. Berdsie Ott requested clarification of the bid process on snow removal and other major projects.

January 4, 2002

Mr. William H. Fulton, AICP
Planning Commission
601 Westtown Road
Government Services Center, Suite 270
P.O. Box 2747
West Chester, PA 19380

FILE COPY

Re: Franklin Township Act 537 Plan Update

Dear Mr. Fulton:

Thank you for your letter dated November xx, 2001 to Chairman Walls concerning the Franklin Act 537 Plan. In response to your specific comments, we offer the following:

A. Consistency with the County Plan – *Landscapes*

1. No comment necessary.
2. No comment necessary.

B. Selection of Alternative:

1. No comment necessary.

C. General Comments

1. Page I-3. Zoning Ordinance – The Zoning Map from the Township Zoning Ordinance has been added to the Plan.
2. Page II-1. Delineation of Study Area – The Future Land Use Map from the Township Comprehensive Plan has been added to this Plan.
3. Page IV-5 & 6. Wild and Scenic Program – The text has been updated to reflect the recent designation of the White Clay Creek as a Wild and Scenic River.
4. Page V-13. Individual On-Lot Disposal Systems (OLDS) – No comment necessary.
5. Page V-13. Community On-Lot Disposal Systems (COLDS) – The Township prefers to consider the types of COLDS proposed for a particular development on a case by case basis. This will allow the maximum flexibility to react to the specific needs of the Township and developer based on the characteristics of the site.
6. Page V-15. Kemblesville Study Area – A reference in the text has been added to direct the reader to Table VIII-1 to show the existing and future wastewater flows of the Village of Kemblesville.

