

**REGIONAL ACT 537 PLAN
EASTERN PIKE COUNTY
PENNSYLVANIA**

TABLE OF CONTENTS

SUBJECT		PAGE
	ACT 537 PLAN CONTENT AND ENVIRONMENTAL ASSESSMENT CHECKLIST	FRONT OF PLAN
1.0	PREVIOUS PLANNING AND LAND USE REGULATION	
1.1	INTRODUCTION	1-1
1.2	PREVIOUS WASTEWATER PLANNING	1-1
2.0	PHYSICAL DESCRIPTION OF PLANNING AREA	
2.1	DESCRIPTION OF THE PLANNING AREA	2-1
2.2	PHYSICAL CHARACTERISTICS	2-1
2.3	SOILS.....	2-2
2.4	GEOLOGIC FEATURES.....	2-6
2.5	TOPOGRAPHY	2-8
2.6	POTABLE WATER SUPPLIES	2-8
2.7	WETLANDS	2-9
3.0	EVALUATION OF EXISTING WASTEWATER FACILITIES	
3.1	EXISTING MUNICIPAL WASTEWATER TREATMENT SYSTEMS	3-1
3.2	EXISTING PACKAGE WASTEWATER TREATMENT FACILITIES.....	3-6
3.3	EXISTING INDIVIDUAL ON-LOT SYSTEMS.....	3-6
3.4	WASTEWATER SLUDGE AND SEPTAGE GENERATION	3-11
4.0	FUTURE GROWTH AND DEVELOPMENT	
4.1	LAND USE REGULATIONS AND PLANNING.....	4-1
4.2	GROWTH AREAS IDENTIFIED BY PREVIOUS PLANNING	4-22
4.3	EXISTING AND FUTURE GROWTH AREAS	4-22
4.4	GROWTH PROJECTIONS.....	4-22
4.5	WASTEWATER FLOW PROJECTIONS	4-23
4.6	SUMMARY OF WASTEWATER PLANNING NEEDS	4-25
5.0	WASTEWATER MANAGEMENT ALTERNATIVES	
5.1	POTENTIAL WASTEWATER TREATMENT ALTERNATIVES	5-1
5.2	NEW COLLECTION AND CONVEYANCE FACILITIES.....	5-6
5.3	UPGRADE OF EXISTING WASTEWATER TREATMENT	5-7
5.4	CONTINUED USE OF ON-LOT DISPOSAL SYSTEMS.....	5-8
5.5	COMMUNITY ON-LOT, SMALL FLOW OR PACKAGE TREATMENT.....	5-9
5.6	SPRAY IRRIGATION SYSTEM	5-9
5.7	HOLDING TANKS	5-10
5.8	SEWAGE MANAGEMENT PROGRAMS	5-10
5.9	NON-STRUCTURAL/PLANNING ACTIVITIES	5-11
5.10	NO ACTION ALTERNATIVE	5-11
5.11	STRUCTURAL ALTERNATIVES FOR UN-SEWERED AREAS	5-12
5.12	CONCLUSIONS	5-41

**REGIONAL ACT 537 PLAN
EASTERN PIKE COUNTY
PIKE COUNTY, PENNSYLVANIA**

TABLE OF CONTENTS (CONTINUED)

<u>SUBJECT</u>	<u>PAGE</u>
6.0 EVALUATION OF ALTERNATIVES	
6.1 CONSISTENCY EVALUATION	6-1
6.2 PENNVEST CONSISTENCY	6-2
6.3 WATER QUALITY STANDARDS	6-3
6.4 COST ANALYSIS	6-3
6.5 FUNDING ALTERNATIVES FOR THE RECOMMENDED ALTERNATIVE.....	6-4
6.6 PHASED IMPLEMENTATION	6-9
6.7 ADMINISTRATIVE ORGANIZATION AND LEGAL AUTHORITY FOR IMPLEMENTATION	6-9
7.0 INSTITUTIONAL EVALUATION	
7.1 ANALYSIS OF EXISTING AUTHORITIES	7-1
7.2 ANALYSIS OF INSTITUTIONAL ALTERNATIVES.....	7-2
7.3 IMPLEMENTATION OF INSTITUTIONAL ALTERNATIVE	7-2
7.4 SELECTED INSTITUTIONAL ALTERNATIVE	7-2
8.0 INSTITUTIONAL SELECTED ALTERNATIVES	
8.1 SELECTED ALTERNATIVE(S)	8-1
8.2 CAPITAL FINANCING PLAN FOR SELECTED STRUCTURAL ALTERNATIVE(S)	8-2
8.3 PROJECT IMPLEMENTATION SCHEDULE	8-3

LIST OF TABLES

1-1 SUBDIVISION, SEWAGE PLANNING, AND PLANNING EXEMPTIONS LISTING.....	1-5
2-1 SUITABILITY CRITERIA FOR ON-LOT SEWAGE DISPOSAL SYSTEMS	2-4
2-2 MEDIAN WELL YIELDS	2-8
2-3 ON-LOT DISPOSAL SYSTEMS SOIL SUITABILITY ASSESSMENT.....	2-10
3-1 NPDES EFFLUENT LIMITS AND DISCHARGE CHARACTERISTICS	3-1
3-2 MUNICIPAL AUTHORITY OF WESTFALL TOWNSHIP PUMP STATION AVERAGE DAILY FLOWS AND CAPACITY	3-5
3-3 MINIMUM OLDS REQUIREMENTS FOR DOOR-TO-DOOR SANITARY SURVEY- TIER 2.....	3-9
3-4 SUMMARY OF TIER 2 SURVEY MALFUNCTION CATEGORIES	3-10
3-5 SUMMARY OF TIER 2 WELL WATER SURVEY SAMPLING RESULTS	3-11
4.1-4.3 MATAMORAS BOROUGH AND WESTFALL TOWNSHIP BUILDOUT ANALYSIS.....	4-4
4.4-4.7 WESTFALL TOWNSHIP ZONING CLASSIFICATIONS.....	4-18-4-19
4.8-4.9 MILFORD TOWNSHIP ZONING CLASSIFICATIONS	4-20-4-21
4-10 MILFORD BOROUGH STANDARD LOT SIZES.....	4-21
4-11 POPULATION HISTORY AND PROJECTIONS.....	4-23
4-12 WASTEWATER FLOW PROJECTIONS	4-24
5-1-5-24 COST OPINIONS FOR ALTERNATIVES	5-15-5-38
5-25 SUMMARY OF COSTS	5-39
5-26 SUMMARY OF FINANCING OPTIONS FOR CHOSEN ALTERNATIVES.....	5-40

**REGIONAL ACT 537 PLAN
EASTERN PIKE COUNTY
PIKE COUNTY, PENNSYLVANIA**

TABLE OF CONTENTS (CONTINUED)

LIST OF TABLES (CONTINUED)

8-1	IMPLEMENTATION SCHEDULE (OLDS SEWAGE MANAGEMENT ORDINANCE)	8-3
8-2	IMPLEMENTATION SCHEDULE (SEWER SYSTEM SCHEDULE)	8-3
8-3	SUMMARY OF FINANCING OPTIONS FOR SELECTED ALTERNATIVES	8-4

LIST OF FIGURES

3.1	SCHEMATIC OF MATW WWTP	3-4
4.1	PIKE COUNTY EXISTING ZONING MAP	4-9
4.2	PIKE COUNTY BUILDABLE/NON-BUILDABLE ZONING MAP	4-10
4.3	PIKE COUNTY BUILDABLE/NON-BUILDABLE ALREADY BUILT MAP	4-11
4.4	WESTFALL TOWNSHIP ZONING MAP	4-14
4.5	MATAMORAS BOROUGH ZONING MAP	4-15
4.6	MILFORD TOWNSHIP ZONING MAP	4-16
4.7	MILFORD BOROUGH ZONING MAP	4-17
5.1	PROJECTED HYDRAULIC LOADING	5-5
5.2	PROJECTED ORGANIC LOADING.....	5-5

APPENDICES

- APPENDIX A – UNIFORM ENVIRONMENTAL REVIEW
- APPENDIX B – ORDINANCES AND COMPREHENSIVE PLANS
- APPENDIX C –PLANNING AREA MAPS
- APPENDIX D – MATW INFO
- APPENDIX E – FLOW DATA
- APPENDIX F – SURVEY RESULTS
- APPENDIX G – SURVEY RESULT MAP
- APPENDIX H – OLDS ORDINANCE TEMPLATE
- APPENDIX I – ALTERNATIVE EXHIBITS
- APPENDIX J- CORRESPONDENCE
- APPENDIX K- PLANNING AGENCY REVIEW AND COMMENTS
- APPENDIX L- PUBLIC REVIEW PERIOD
- APPENDIX M- APPROVED TASK ACTIVITY REPORT
- APPENDIX N- DRAFT INTER-MUNICIPAL AGREEMENT