


**ACT 537 OFFICIAL PLAN UPDATE REVISION**

**FOR**

**JEFFERSON TOWNSHIP  
LACKAWANNA COUNTY, PENNSYLVANIA**

**May 2005**

**PREPARED BY**

  
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## **II. PLAN SUMMARY**

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### **A. Summary**

This official Act 537 Plan update revision has been prepared to update the Plan approved by the Pennsylvania Department of Environmental Protection (PADEP), in 2002, in order to expand the existing sanitary sewer service area.

#### **1. Service Area**

The specific areas covered by this Act 537 plan update revision are shown on mapping located in Appendix A. The existing central sewage system will be extended into the following areas:

##### **Area 1: S.R. 348/Pump House Road**

- State Route 348 (Hitchcock Road East to the Township border).
- Old Mill Road
- Pump House Road
- Log Cabin Road
- Evergreen Mobile Home Park

##### **Area 2: Cortez Road**

- State Route 2003 – Cortez Road (from existing sewer system approximately 8,500 LF to the North).
- Harkin's Lane
- Hitchcock Road
- Keating Road
- Harmony Drive

The Jefferson Township Sewer Authority will construct sanitary sewers in Areas 1 and 2, both of which will be connected to the existing central sewer system, utilizing the previously constructed facilities. The sewage will be transported to the Lackawanna River Basin Sewer Authority treatment system.

The proposed service area contains dense residential developments where there is a history of on-lot disposal system failures. These areas were not included in the previously approved plans because it was not economically feasible at that particular time, due to the limitations set on the maximum amount available for construction financing through a Penn Vest loan.

2. **Alternatives**

The only implementable option available, bearing in mind the recently constructed Jefferson Township central sanitary sewer system, is alternative 1. This alternative proposes to extend the central sewer system, utilizing the available capacity.

The capital cost of the project is estimated to be approximately \$4,553,676 requiring initial tapping fees for the 296 EDU's of \$3,500.00 and annual fees of \$600.00 each, based on Penn Vest funding. These are the same fees previously approved and for which property owners in the existing sanitary sewer areas are responsible.

3. **Institutional Arrangements**

The Jefferson Township Sewer Authority will own and maintain all sanitary sewers, force mains, and appurtenances proposed to be constructed in this plan.

An agreement has been executed between the Jefferson Township Sewer Authority and the Lackawanna River Basin Sewer Authority (LRBSA) dated September 20, 2002. The agreement establishes a procedure for additional sewer connections' treatment by LRBSA. As additional customers are proposed LRBSA reserves the right to approve the connection based on available capacity. A letter from the LRBSA approving the proposed 296 EDU's for treatment is included in Appendix B.

The Official Act 537 plan update revision, dated, May 2005 will be adopted by Jefferson Township. Upon adoption the Resolution will be attached in Appendix C.

B. **Implementation**

1. **Costs – Capital Costs**

The cost analysis shown on Table 6, includes estimates of capital costs, including construction, land acquisition, engineering, legal, financial and project administration. The cost estimates for the proposed project, and the estimate for the user and tap fees, have been made based on experience with the construction of the existing Jefferson Township Sanitary Sewer System as well as experience with similar projects.

### **Costs – Operations and Maintenance**

Expenses include those billed by the LRBSA for treatment and disposal, power costs from the pumping stations and the maintenance of pipelines, as shown in Table 7.

In accordance with the executed agreement with LRBSA, the annual fee for Jefferson Township residents would be \$180.00 per EDU, with an initial hook-up fee of \$250.00 per EDU. The executed agreement between the Jefferson Township Sewer Authority and the LRBSA is included in Appendix B. The letter from LRBSA approving the proposed EDU's for treatment is also included in Appendix B.

Operations and maintenance costs for the proposed collection system are based on actual costs incurred by the Sewer Authority for O&M on the existing sanitary system as well as estimations of costs from the previously approved Plan, dated 2002. The Jefferson Township Sewer Authority plans to maintain the sanitary sewer system. An additional allowance has also been included for administration and office costs associated with the billing process.

### **Costs – Annual Equivalent Dwelling Unit Cost**

The annual EDU charges, as summarized on Table 8, represents the required annual payment from each residential or commercial/institutional/industrial customer per EDU assessment to finance each of the alternatives. The EDU costs are based on the project financing scenario selected and available to the Township. The development of the annual EDU charges is outlined in Table 9, which indicates in detail the project costs, tapping fees and other loan costs. They illustrate the projected annual EDU costs by calculating debt services, operation and maintenance costs and future tapping fees. The legend included on the tables describes the assumptions made in determining the developed costs. The financial projections on the tables show calculations over a twelve year period. Calculations beyond that time frame are considered too speculative to be meaningful.

## **2. Implementation Schedule**

A project implementation schedule is shown below. This schedule is based upon obtaining approval of this document, PENNVEST financing, and all permits in a timely manner. Schedule dates are referenced from the start date which corresponds to the submission of the Act 537 Plan Revision.

Environmental consistency for the preferred and only alternative will be established and applications for permits will be submitted and implemented. The environmental consistency of the preferred alternative is presented in Appendix J "Environmental Assessment".

**Municipal approval of Act 537 Plan Revision****Start Date**

Submit Act 537 Plan Revision	1 Month
PADEP approval of Act 537 Plan Revision	1 Month
Start Detailed Engineering	1 Month
Submit Revised Part II Permit	2 Months
Adopt Ordinances	2 Months
Advertise Contracts	3 Months
PADEP approval of Part II Permit	3 Months
Obtain Construction Permits	3 Months
Receive Bids	3 Months
Award Contract	3 Months
PENNVEST Closing	3 Months
Begin Construction	4 Months
Complete Construction	19 Months
Initiate Use of System	20 Months

**4. Supporting Documents**

The official Act 537 Plan Revision, dated May 2005, will be adopted by Jefferson Township. Upon adoption the executed Resolution will be attached in Appendix C.

### **III. PREVIOUS WASTEWATER PLANNING**

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In October 1994 Jefferson Township formed a Sewer Authority with responsibility to implement the Act 537 Plan that had been adopted in March 1992. After receiving PENNVEST funding for the design of the selected plan, the Township contracted with Acker Associates, Inc. and BCM Engineers, Inc. to design the collection system, pumping stations and treatment plants which would serve Lake Spangenberg, Lake Loretta, and Happy Acres Developments, as well areas along 348 near Mount Cobb Corners (intersection of Route 247, Route 348 and Interstate Route 84). In 1994 project design, although partially completed, was delayed because of the realization that there were several items which could potentially impact the selected alternative in the adopted Act 537 Plan. Consequently in June 1995 a revised Act 537 Plan was submitted to PADEP for approval.

The revised Plan evaluated the alternatives of a regional system, conveying all the wastewater to the Lackawanna River Basin Sewer Authority (LRBSA) treatment facility in Archbald Borough, construction of a wastewater treatment plant within Jefferson Township and a combination system which collected all but one of the sewer areas for treatment at a Township plant with the one remaining area (Moosic Lakes) being pumped separately to LRBSA.

The latter alternative, identified in the Plan as Alternative IIIA, was selected for implementation. The Plan was adopted by Jefferson Township in October 1995, and approved by PADEP in February 1996. PENNVEST approved a construction loan, for \$11,000,000.00 at 1% for 20 years, at their meeting in July 1996.

A Revised Plan, dated April 1997, was adopted and approved by PADEP. This Plan made minor changes to the previously adopted plan, to address issues raised during detail design of the facilities, and to revise the method of serving Moosic Lakes. The potential for conveying Moosic Lakes wastewater to the LRBSA had been removed when the location of the prison changed, eliminating the need to bring a sewer line to the Jefferson Township boundary. Design of the WWTP and collection system was completed and construction bids were accepted.

However, considerable local opposition to the construction of a WWTP within Jefferson Township remained, delaying implementation of the Plan. The project was on hold, with pending litigation by PADEP, designed to force compliance with approved Plan.

A Revised Plan, dated November 1999, was adopted and approved by PADEP, this Plan added a low pressure collection system to Wimmers Road. The Plan also eliminated the construction of a wastewater treatment plant within Jefferson



Township with pump station upgrades and the addition of force main and gravity sewers along SR 247 and Marshwood Road to convey wastewater to the Scranton Sewer Authority. After approval of this plan, the City of Scranton was no longer agreeable to the connection of the Jefferson Township collection system.

A Revised Plan, dated September 2002, was adopted by Jefferson Township and Olyphant Borough and approved by PADEP; this Plan revised the location of the gravity sanitary sewer along Marshwood Road. The gravity sewer line would be constructed through Olyphant Borough to transport the collected wastewater from Jefferson Township to an existing collection system in Olyphant Borough to the Lackawanna River Basin Sewer Authority Treatment System.

Construction of the Jefferson Township Sanitary Sewer System, in accordance with the approved plan, began construction in November of 2002 and went into operation in September of 2004.

#### **IV. PHYSICAL AND DEMOGRAPHIC ANALYSIS**

#### **IV. PHYSICAL AND DEMOGRAPHIC ANALYSIS**

##### **A. Planning Area**

Jefferson Township is located in the east-central area of Lackawanna County, approximately five (5) miles east of Scranton. The total land area of the Township is 33.2 square miles. Six Lackawanna County municipalities border the Township on the North, West, and South: Madison, Roaring Brook, and Carbondale Townships and the Boroughs of Archbald, Jessup, and Olyphant. The eastern borders of the Township are formed by South Cannan, Lake, and Salem Townships in Wayne County. Jefferson Township is generally a rural area, approximately 905 of which can be classified as woodlands, agriculture, or vacant land.

The Jefferson Township Sewer Authority owns and maintains all gravity sewer main, low pressure main, force main, manholes, pump stations, laterals, grinder pumps, etc., constructed in accordance with the previously approved plan. A location map for the operating sanitary sewer system in Jefferson Township is located in Appendix D.

The areas proposed in this Act 537 Update Revision are shown in Appendix A. They include the following:

##### **Area 1**

- State Road 348 (Hitchcock Road East to the Township Border)
- Old Mill Road
- Pump House Road
- Log Cabin Road
- Evergreen Mobile Home Park

##### **Area 2**

- State Route 2003 – Cortez Road (From the existing sewer system approximately 8,500 LF to the North)
- Harkins's Lane
- Hitchcock Road
- Keating Road
- Harmony Drive

**B. Physical Characteristics**

The West Branch of the Wallenpaupak Creek traverses through the proposed project area. This creek is classified a High Quality Cold Water Fishes. There are also small ponds and drainage swales within the project area. A high water table exists within the Township. This is based on inspection of excavation during the construction of the existing sanitary sewer system. These conditions severely reduce the effectiveness of any on-lot system. Evergreen Mobile Home Park discharge either raw or partially treated sewage to the stream.

**C. Soils Analysis**

Based on information from the Soil Survey of Lackawanna and Wyoming Counties, and as presented in previous planning documents, many of the soils found in Jefferson Township are unsuitable for on-lot systems because of poor drainage characteristics. The soil series which are predominant in the Study Area are summarized as listed below, and soils mapping of the planning area can be found in Appendix E.

SOIL SERIES	AFFECTED STUDY AREA	RESTRICTIVE SOIL CHARACTERISTICS
Lackawanna	Area 2	Slow permeability; seasonal high water table.
Morris	Area 1 and Area 2	Slow permeability; seasonal high water table; poor drainage characteristics.
Volusia	Area 1	Slow to very slow permeability; extremely stony surface; seasonal high table; severe water wetness.
Wellsboro	Area 1 and Area 2	Slow permeability; subsoil frangipan @ 15" – 26"; Seasonal high water table @18" – 36"
Wurtsboro	Area 1	Slow to very slow permeability; extremely stony surface; seasonal high water table.

**D. Geologic Features**

The Catskills Formation is the main aquifer underlying most of Jefferson Township. However, the Pocono Formation overlays the Catskills Formation along the western slope of the Moosic Mountains.

Glacial till is deposited unevenly throughout the Township. In some areas, these deposits consist of unconsolidated sands and gravels which are particularly vulnerable to nitrate contamination from OLDS. Aquifers underlying shallow soils such as those which exist in the Township are also susceptible to nitrate pollution, especially where fractures are evident. These areas frequently coincide with significant recharge areas.

Wastewater planning must consider possible contamination of potential and existing groundwater supplies. High density residential development utilizing OLDS poses a threat to groundwater supplies within the Township.

**E. Topography**

A portion of the Pocono Mountain system, the Moosic Mountain Range, divides the Township from northeast to southwest. This range forms a ridge which creates a natural drainage basin along the eastern portion of the Township. The extreme slope of some areas of the Township, in some cases more than 15 percent, makes those areas unsuitable for OLDS.

The existence of several natural lakes, streams, and swampy areas indicate a high water table in certain areas. These areas are susceptible to possible flooding, which is another factor which severely reduces the effectiveness of OLDS.

The areas considered in this Plan lie within the Wallenpaupak Creek Watershed.

**F. Potable Water Supplies**

The service areas under consideration for approval in this plan are generally serviced by on-lot wells for residential potable water. Although the Evergreen Mobile Home Park is serviced by a community water system.

As previously discussed this wastewater planning must consider contamination of groundwater supplies, due to malfunctioning OLDS. The existing development in these areas already poses a serious threat to groundwater supplies.

**G. Wetlands**

Continued use of OLDS and their subsequent failure due to limiting soil, geologic, and topographic factors will impact environmentally sensitive areas such as wetlands and floodplains. The on-lot systems are a source of potential groundwater contamination. There has been no change to the wetlands and floodplains areas within the Township that were identified in previous planning documents.

National Wetland Inventory Mapping for the Areas 1 and 2 can be found in Appendix F.

## **V. EXISTING SEWAGE FACILITIES**

**V. EXISTING SEWAGE FACILITIES**

**A. Individual and Community Sewage Systems**

Community Sewerage systems do not exist within the planning area.

**B. On - Lot Disposal Systems**

The planning area is currently unsewered. All residences and commercial/industrial establishments utilize on - lot disposal systems (OLDS). The OLDS generally utilize a septic tank in combination with some type of absorption field. Septic tank absorption fields are considered subsurface systems of tile or perforated pipe that distribute that to natural soil. However, as discussed previously, the soils, topography, and geology of the area are generally unsuitable for subsurface disposal. The increase in population has exacerbated the problem. Property inspections previously by the SEO and consulting engineers have shown the extent of the problem with OLDS within portions of the planning area. Table 1 is a summary of the results of those inspections. Locations of the obvious and suspected failures reviewed are indicated in Appendix G.

The overall efficiency of the OLDS is poor, with numerous malfunctions. The Sewerage Enforcement Office is generally responsible for the operation, maintenance, replacement of the on lot system. This includes the removal of sludge from the tanks. Disposal is typically carried out by licensed commercial firms, although no records are kept of the amount of septage hauled away or the companies employed to do the work.

The areas currently proposed to be centrally sewerred were previously proposed for central sewer service in the approved 1989 Jefferson Township Act 537. They were consequently excluded due to a limitation on the maximum loan amount available from PennVest.

The SEO of Jefferson Township, Homer Butler, was qualified as an expert by the Environmental Hearing Board. Testimony of Homer Butler before the Honorable George J. Miller, Administrative Law Judge, Case Docket #2000-183-MG, pages 228-268, describes the need for expanding central sewers in Jefferson Township.



**Table 1**  
**Existing On-Lot System Malfunctions**

Section	Estimated Number of Homes	Obvious Malfunctions		Suspected Malfunctions		Total of Obvious & Suspected Malfunctions	
		No.	%	No.	%	No.	%
Log Road Village	19	2	11	3	16	5	26
Evergreen Mobil Home Park	29	29	100	---	---	29	100
Cortez Road	56	6	11	7	13	13	23
Average % On-Lot Disposal System Failure Previously Reviewed in th Proposed Project Area							45

## **VI. FUTURE GROWTH AND LAND DEVELOPMENT**

## **VI. FUTURE GROWTH AND LAND DEVELOPMENT**

### **A. Planning Documents**

Jefferson Township is classified as a second Class Township in the Commonwealth of Pennsylvania. The Township has adopted a Zoning Ordinance dated 1990 which identifies zoning districts and the land uses allowed within each district, as well as minimum lot sizes predicated on sewage disposal methods. The Township has also adopted a Subdivision and Land Development Ordinance dated 1990, and a Stormwater Management Ordinance in August 1993.

### **B. Existing and Future Development**

#### **1. Existing EDU's**

The numbers of residential units, each representing one EDU is shown on Table 2, broken down by Planning Area and road location. The number of commercial/industrial EDU's is also indicated. A breakdown of how many EDU's have been assigned to each commercial/industrial unit is shown on Table 3.

#### **2. Projected EDU's**

The potential number of additional EDU's are estimated, based upon review of Assessment Maps by Acker Associates. This number of units has been used to represent the 20 year projection for the proposed planning areas. These projections are provided in Table 4.

The Assessment Maps can be made available, on request, by the Township. A copy of the current zoning districts located within the proposed planning areas are included in Appendix H.

A number of real estate developers have expressed an interest in Jefferson Township. One Developer has committed to the Jefferson Township Sewer Authority for 100 EDU's in Area 1.

3. **Wastewater Flow and Loading Projections**

The average daily flow of 265 gallons per day per EDU as previously approved by DEP and the LRBSA, for the sanitary sewer system, with a growth rate of 5 EDU's per year. Table 5 indicates the projections of average day flows, based on the EDU projections discussed above.

The existing sanitary sewer system has been included on Table 5 also. The calculations are based on 897 EDU's with a 20 EDU per year growth rate; these figures are as previously approved.

Treatment will be done at the Lackawanna River Basin Sewer Authority, as per Jefferson Township Sewer Authority's Agreement for the Conveyance, Treatment and Disposal of Wastewater with the Lackawanna River Basin Sewer Authority, dated September 20, 2002.

**TABLE 2  
EXISTING EDU'S**

<b>Service Area</b>	<b>Residential EDU's</b>	<b>Commercial / Industrial EDU's</b>	<b>Existing Total EDU's</b>
<b>Area 1</b>			
State Route 348	20	8	28
Old Mill Road	6		6
Pump House Road	31	4	35
Log Cabin Road	19		19
Evergreen Trailer Park	29		29
<b>Area 2</b>			
Cortez Road (State Route 2003)	56	3	59
Hitchcock Road	3		3
Harmony Drive	6		6
Keating Road	6		6
Harkins's Lane	5		5
<b>TOTAL</b>	<b>181</b>	<b>15</b>	<b>196</b>

**Table 3  
COMMERCIAL INDUSTRIAL USERS**

<b>Service Area</b>	<b>User Name</b>	<b>EDU'S Per Unit</b>	<b>Area EDU's</b>
<b>Area 1</b>			<b>12</b>
State Route 348	Vonderhey Blacktopping	2	
	Cooper Tires	1	
	Aurel's	1	
	Rizzo Fence	1	
	Ernie's Transmissions	1	
	Ted's Bait	1	
	Garage	1	
Pump House Road	Compton's Farm	1	
	Active Auto Body	1	
	Butler Propane	2	
<b>Area 2</b>			<b>3</b>
Cortez Road (State Route 2003)		3	
<b>TOTAL COMMERCIAL / INDUSTRIAL EDU'S</b>			<b>15</b>

TABLE 4 PROJECTED EDU'S				
Service Area	Existing Total EDU's	Developer Committed EDU's	Projected EDU's	
			2010	2015
Area 1	117	100	230	243
Area 2	79	0	91	103
TOTAL	196	100	321	346
				256
				115
				371

**TABLE 5  
WASTEWATER FLOW PROJECTIONS**

<b>Service Area</b>	<b>Projected Average Daily Flows (GPD)</b>			
	<b>2005 - 2007</b>	<b>2010</b>	<b>2015</b>	<b>2020</b>
Area 1	57,505	60,950	64,395	67,840
Area 2	20,935	24,115	27,295	30,475
Average Daily Flow Proposed Sewer Extension	78,440	85,065	91,690	98,315
Existing Sanitary Sewer System	237,705	243,005	248,305	253,605
<b>Average Daily Flow for Entire Sanitary Sewer System</b>	316,145	328,070	339,995	351,920



## **VII. ALTERNATIVES**

## **VII. Alternatives**

The primary purpose of a wastewater facilities planning study is to determine the most cost effective and environmentally compatible solution to an area's wastewater management needs.

Previously approved Act 537 Plan Revisions recommended that some action be taken to eliminate the detrimental environmental impact caused by malfunctions of OLDS in the areas currently being studied.

There are only two practical alternatives for the study areas.

### **Alternative I.**

Extension of the Existing Central Sewer System.

The existing central sewer system would be extended into the study areas. Construction of low pressure and gravity sewers, two pumping stations and force main would be required. The existing sanitary sewer system would be utilized to transport sewage from the border of the study areas to the Lackawanna River Basin Sewer Authority for treatment.

### **Alternative II.**

The No Action or no project alternative represents a commitment to the Existing Wastewater Management System within the study area. Under this alternative conventional on-lot sewage disposal systems would continue to be the method of sewage disposal for both existing and future residential developments.

As previously discussed existing conditions including soil suitability, topography and geology, in the study area are unsuitable for the continued use of OLDS. The existing systems are incapable of providing adequate sewage treatment. The result is hydraulically overloaded soil absorption fields which discharge partially treated and untreated sewage effluent to the ground surface and nearby waterways.

The No Action alternative would do nothing to eliminate or alleviate the existing public health hazards and pollution of Commonwealth waters created by the sewage discharges from malfunctioning OLDS within the Study area. In view of the high incidence of malfunctions, the unsuitable soil and site characteristics throughout the Study area, and the limited effective service life of OLDS for sewage disposal will most certainly result in an acceleration of the existing pollution and public health problems.

Many alternatives were evaluated in the previously approved planning documents including various non-centralized alternatives and cluster treatment systems. None of these proposed alternatives was approved as a method to solve the hazardous existing

sewage conditions created by the existing malfunctioning systems. The approved alternative was central sanitary sewer with treatment at LRBSA.

VIII. EVALUATION OF ALTERNATIVES

## VIII. EVALUATION OF ALTERNATIVES

### A. Evaluation and Selected Alternative

The previously approved plan in 1989 recommended that some action be taken to eliminate the detrimental impact caused by malfunctioning and failed OLDS in the Study Areas.

With the recent completion and operation of a central sewer system in Jefferson Township there is only one feasible alternative, that is to extend the central sanitary sewer systems. Capacity was provided for in the existing sewer system facilities to accommodate minor expansion of the system.

Notices were sent requesting a search of the Pennsylvania Natural Diversity Inventory, and to the Pennsylvania Historical Commission, requesting information regarding any potential impact on known archaeological or historical resources, by the proposed project. Copies of Correspondence are included in Appendix I.

The sewer extension will require the construction of a combination of low pressure and gravity sanitary sewers, as well as the installation of two pumping stations and associated force mains.

Right-of-way for the proposed sanitary sewer will be acquired by the Jefferson Township Sewer Authority.

### B. Present Worth Calculation

A present worth calculation is based on a 20 year study period and a 6.0 percent discount rate. The calculation is presented for review in Table 10. The present worth for the proposed sewer extensions is \$5,187,732. The present worth of this proposed project per EDU is \$17,526.12. The present worth per EDU for the previously approved (2001) plan was \$19,736.77.

### C. Capacity Analysis

- Currently Operating Jefferson Township

Existing		897 EDU's	
Proposed Growth		20 EDU's/year	
897 EDU's	+	(20EDU/yr * 30yrs)	= 1,497 EDU's
1497 EDU's	*	265 GPD/EDU	= 396,705 GPD

- Proposed Extension

Existing		296 EDU's		
Proposed Growth		5 EDU's/year		
296 EDU's	+	(5 EDU's/yr * 30yrs)	=	446 EDU's
446 EDU's	*	265 GPD/EDU	=	118,190 GPD

- Total Jefferson Township

$$396,705 \text{ GPD} + 118,190 \text{ GPD} = 514,895 \text{ GPD}$$

- Verify Capacity of Connector Sewer

120,000 GPD proposed for Connector Sewer from approved 2002 Plan.

Total flow for 12" Sanitary Sewer

$$514,895 \text{ GPD} + 120,000 \text{ GPD} = 0.64 \text{ MGD}$$

$$\text{Peak Flow Rate} = 0.64 \text{ MGD} * 2.5 \text{ peaking factor} = 1.59 \text{ MGD}$$

Calculate capacity of 12" gravity sanitary sewer.

Minimum slope in the sewer line of 0.5% is located from manhole #2 located along Eddy Creek, Northwest of South Valley Avenue to manhole #9 located along an unnamed tributary of Eddy Creek near the Terminus of Edgar Street.

Calculate capacity for slope of 0.5%

$$Q = 1.49/nAR^{2/3} S$$

$$Q = 1.49/0.012(0.79\text{SF}) (0.25)^{2/3} (0.005^{\text{FT}/\text{FT}})^{1/2}$$

$$Q = 2.76 \text{ cfs} * 0.65^{\text{MGD}/\text{cfs}}$$

$$Q = 1.80 \text{ MGD}$$

Capacity of 12" sanitary sewer is adequate.

**TABLE 6  
CAPITAL COSTS SUMMARY**

	Estimated Planning Quantity	Unit	Estimated Unit Price Utilized for Planing Purposes	Estimated Cost for Planning Purposes
<b>CONSTRUCTION</b>				
State Route 348 Pump Station	1	LS	\$350,000	\$350,000
Cortez Road Pump Station	1	LS	\$325,000	\$325,000
Transmission System				
Gravity Sewers	14,000	LF	\$70	\$980,000
Low Pressure Sewers	8,750	LF	\$40	\$350,000
Force Mains	4,575	LF	\$60	\$274,500
Laterals	12,500	LF	\$40	\$500,000
Grinder Pumps	65	EA	\$3,000	\$195,000
Miscellaneous (5%)				\$148,725
<b>TOTAL CONSTRUCTION COST</b>				<b>\$3,123,225</b>
CONTINGENCY (10%)				\$312,323
DESIGN COST (10%)				\$312,323
ENGINEERING, LEGAL, AND PROJECT ADMIN (25%)				\$780,806
LAND ACQUISITION				\$25,000
<b>TOTAL PROJECT COST</b>				<b>\$4,553,676</b>

<p><b>O &amp; M</b></p> <p>Including Labor, Power, Vehicles, Supplies Estimated as a service contract previously along with expenses incurred by the Jefferson Township Sewer Authority to date have also been reviewed.</p>	<p>\$20,000</p>
<p><b>BILLING</b></p> <p>Customer Billing and Payment to LRBSA Annual Customer Fee - \$ 180.00 / EDU</p>	<p>\$35,280</p>
<p><b>TOTAL ANNUAL EXPENSES</b></p>	<p><b>\$55,280</b></p>



**TABLE 8**  
**SUMMARY OF EDU CHARGES**

<b>Project Scope</b>	
Initial EDU's Served	296
EDU Growth Rate	5 / year
<b>Total Project Cost</b>	<b>\$4,553,676</b>
<b>Billing</b>	
Initial LRBSA Hook-up Fee	\$250.00 / EDU
<b>Revenue Sources</b>	
Initial Connection Fee	\$3,500/EDU
Future Connection Fee	\$ 6,000/EDU
<b>Project Funding</b>	
Grants	\$0
Costs To Be Financed	\$3,517,676
<b>Annual EDU Charge</b>	<b>\$600</b>

**TABLE 9**  
**JEFFERSON TOWNSHIP**  
**ANNUAL EDU CHARGE**

	YEARS 1 & 2	YEARS 3	YEARS 4	YEARS 5	YEARS 6	YEARS 7	YEARS 8	YEARS 9	YEARS 10	YEARS 11	YEARS 12
GROWTH IN EDU'S	296	5	5	5	5	5	5	5	5	5	5
CUMULATIVE EDU'S	296	301	306	311	316	321	326	331	336	341	346
ANNUAL EDU CHARGE	\$0	\$600	\$600	\$600	\$600	\$600	\$600	\$600	\$600	\$600	\$600
PROJECT COSTS (1)	\$4,553,676	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
LESS: GRANTS (2)	0	0	0	0	0	0	0	0	0	0	0
LESS: CONNECTION FEES (3)	1,036,000	0	0	0	0	0	0	0	0	0	0
LONG TERM FINANCING (4)	\$3,517,676	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
DEBT SERVICE (5)	\$0	\$136,134	\$136,134	\$136,134	\$136,134	\$136,134	\$136,134	\$136,134	\$136,134	\$136,134	\$136,134
SEWAGE TREATMENT COST (6)	0	54,180	55,080	55,980	56,880	57,780	58,680	59,580	60,480	61,380	62,280
O & M COSTS (7)	0	20,000	20,600	21,218	21,855	22,510	23,185	23,881	24,597	25,335	26,095
REVENUE REQUIREMENTS	\$0	\$210,314	\$211,814	\$213,332	\$214,869	\$216,424	\$218,000	\$219,595	\$221,212	\$222,849	\$224,510
SEWER REVENUES (8)	\$0	\$180,600	\$183,600	\$186,600	\$189,600	\$192,600	\$195,600	\$198,600	\$201,600	\$204,600	\$207,600
CONNECTION FEES (3)	0	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
TOTAL REVENUES	\$0	\$210,600	\$213,600	\$216,600	\$219,600	\$222,600	\$225,600	\$228,600	\$231,600	\$234,600	\$237,600
RESERVE	\$0	\$286	\$1,786	\$3,268	\$4,731	\$6,176	\$7,600	\$9,005	\$10,388	\$11,751	\$13,090
CUMULATIVE RESERVE	\$0	\$286	\$2,072	\$5,340	\$10,071	\$16,247	\$23,847	\$32,852	\$43,241	\$54,991	\$68,082

(1) REPRESENTS TOTAL PROJECT COSTS. SEE TABLE 6 FOR BREAKDOWN

(2) GRANTS: NO GRANTS HAVE BEEN AWARDED TO DATE

(3) BASED ON A CONNECTION FEE OF \$ 3,500 PER EDU. IN YEAR OF CONSTRUCTION, CONNECTION FEES ARE USED TO OFFSET PROJECT COSTS AND REDUCE BORROWING. OTHERWISE, CONNECTION FEES ARE CONSIDERED ANNUAL OPERATING REVENUES. CONNECTION FEES SUBSEQUENT TO YEAR 1 & 2 ARE INCREASED TO \$ 6,000.

(4) DOES NOT INCLUDE ANY INTERIM FINANCING TO COVER: (1) UP-FRONT EXPENDITURES, SUCH AS DESIGN AND SURVEY; (2) CASH FLOW DEFICIT DUE TO REIMBURSABLE NATURE OF PENNVEST LOAN; AND (3) ADVANCEMENT OF CONNECTION FEES PRIOR TO COLLECTION.

(5) REFLECTS PENNVEST LOAN WITH AN AMORTIZATION PERIOD OF 30 YEARS AND AN ANNUAL INTEREST RATE OF 1 PERCENT.

(6) TREATMENT COST BASED ON LRBSA BULK USAGE FEE SCHEDULE

(7) REFLECTS O&M FROM COSTS INCURRED BY JEFFERSON PLUS INCREASED DUE TO GROWTH AS WELL AS INFLATION.

(8) BASED ON ANNUAL USER CHARGES SHOWN.

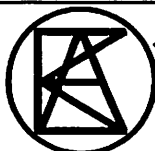
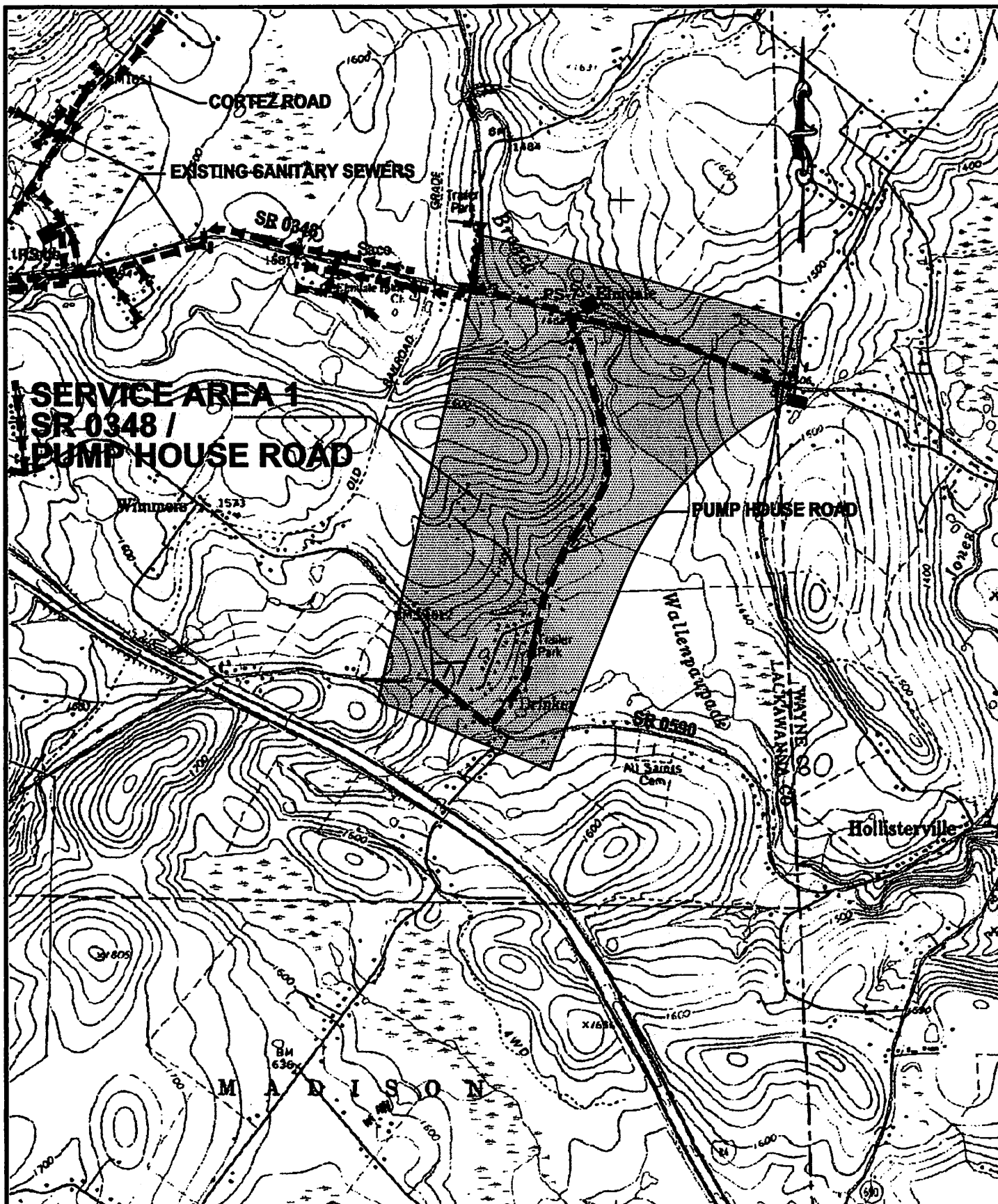
**TABLE 10**  
**PRESENT WORTH ANALYSIS**

<b><u>Project Inputs</u></b>	
Total Project Cost	\$4,553,676
Operating and Maintenance Annual Expenses	\$55,280
EDU's Served - Initial	296
- Year 12	351
<b><u>Revenue Sources to Offset Project Costs</u></b>	
Initial Connection Fees (\$3,500 per EDU)	\$1,036,000
Grant	<u>\$0</u>
Project Costs to be financed	\$3,517,676
<b>Sources of Project Funding</b>	
PENNVEST (30 Yr Amortization, 1% Interest Rate)	\$3,517,676
CONVENTIONAL FINANCING (20 Yr. Amortization, 6.0% Interest Rate)	\$634,056
Annual EDU Charge	\$600
Present Worth	\$5,187,732

**APPENDIX A**

**PLANNING AREA**

**LOCATION MAP**



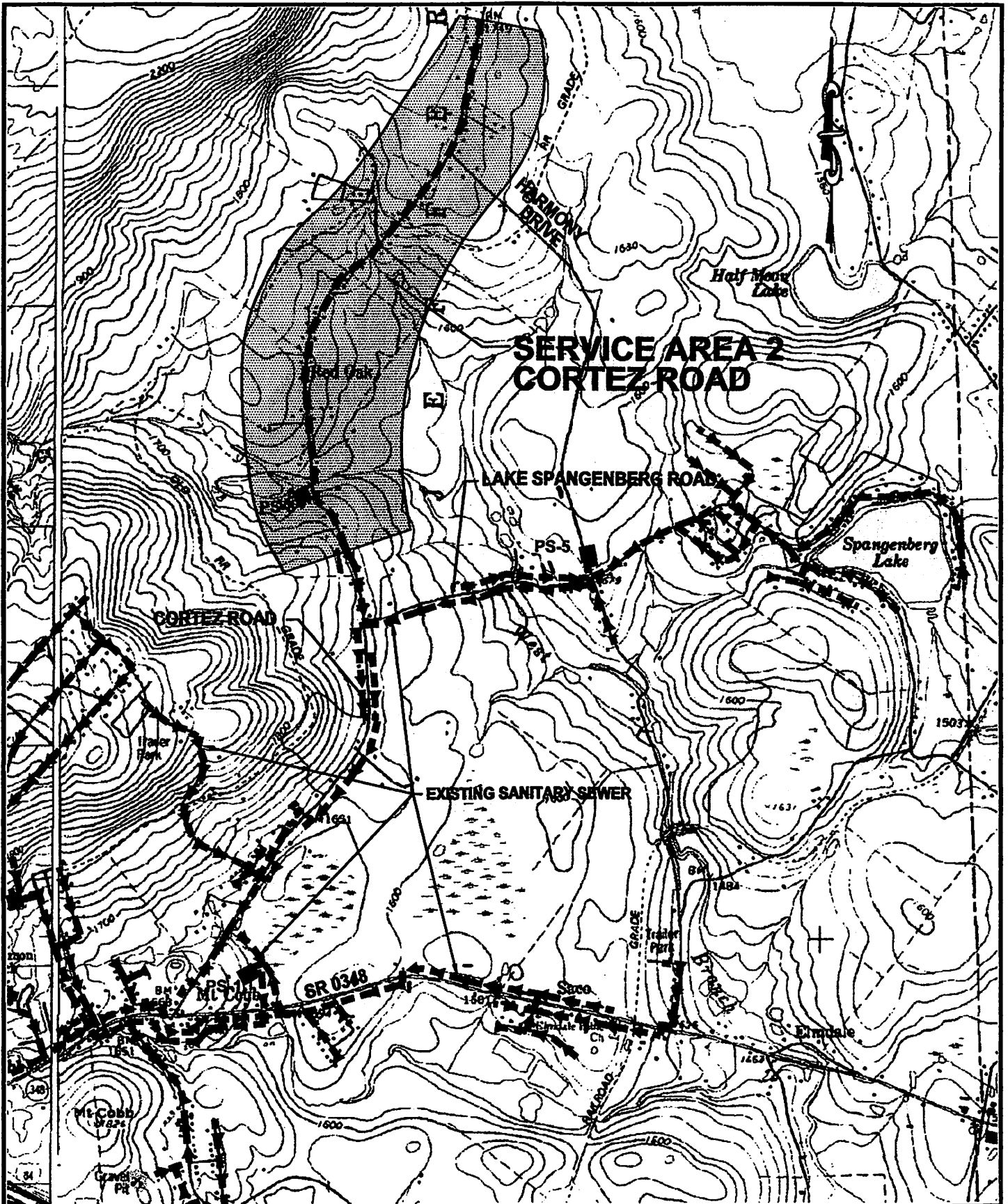
**Acker Associates Inc.**

*Consulting Engineers*

P.O. Box 899 - Moscow, PA - 18444

**JEFFERSON TOWNSHIP SANITARY SEWER EXTENSION PROJECT**  
**SERVICE AREA 1 (SR 0348 / PUMP HOUSE ROAD)**

DRAWN BY	KJS	CHECKED BY	MLB	SCALE	1"=2000'
DATE	12-02-04	JOB NO.	001015	DWG. NO.	C-SA1



**Acker Associates Inc.**

*Consulting Engineers*

P.O. Box 899 - Moscow, PA - 18444

**JEFFERSON TOWNSHIP SANITARY SEWER EXTENSION PROJECT  
SERVICE AREA 2 (CORTEZ ROAD)**

DRAWN BY	KJS	CHECKED BY	MLB	SCALE	1"=2000'
DATE	12-02-04	JOB NO.	001015	DWG. NO.	C-SA2

**APPENDIX B**

**LACKAWANNA RIVER BASIN**

**SEWER AUTHORITY AGREEMENT**

**AGREEMENT FOR THE ACCEPTANCE, CONVEYANCE,  
TREATMENT AND DISPOSAL OF WASTEWATER RECEIVED  
FROM THE JEFFERSON TOWNSHIP SEWER AUTHORITY  
WASTEWATER COLLECTION SYSTEM AT THE LACKAWANNA  
RIVER BASIN SEWER AUTHORITY WASTEWATER COLLECTION SYSTEM  
AND WASTEWATER TREATMENT PLANT**

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THIS AGREEMENT, made and entered into as of this 20<sup>th</sup> day of September 2002 by and between:

THE LACKAWANNA RIVER BASIN SEWER AUTHORITY, a Municipal Authority organized and existing under the laws of the Commonwealth of Pennsylvania, situated in the County of Lackawanna, and the Commonwealth of Pennsylvania, having its office at Rear 145 Boulevard Avenue, Throop, Pennsylvania 18512, hereinafter referred to as "LRBSA",

AND

JEFFERSON TOWNSHIP SEWER AUTHORITY, a Municipal Authority organized and existing under the laws of the Commonwealth of Pennsylvania, situated in the Township of Jefferson, County of Lackawanna, and Commonwealth of Pennsylvania, having its principal office at 487 Cortez Road, Lake Ariel, Lackawanna County, Pennsylvania 18436, hereinafter referred to as "JTSA",

AND

JEFFERSON TOWNSHIP, a political subdivision, organized and existing under the laws of the Commonwealth of Pennsylvania with its principal place of business located at 487 Cortez Road, Lake Ariel, Lackawanna County, Pennsylvania, 18436, hereinafter referred to as "Jefferson Township".

WITNESSETH

WHEREAS, the LRBSA is a Municipal Authority with its offices located in the Borough of Throop, and

WHEREAS, Jefferson Township is a duly authorized political subdivision, and

WHEREAS, Jefferson Township Sewer Authority is a Municipal Authority incorporated under the Municipalities Authorities Act of 1945, and



WHEREAS, LRBSA is the owner of certain wastewater conveyance sewers and wastewater treatment plant ("LRBSA") and operates such system under agreement with its member municipalities, and

WHEREAS, the LRBSA operates and maintains conveyance lines and a treatment plant and has certain inter-municipal agreements with Municipalities outside of the designated LRBSA service territory, and

WHEREAS, JTSA, in cooperation with Jefferson Township, is in the process of constructing and owning a Wastewater Collection System ("JTSA Sewer System") to serve a territory referred to as JTSA Sewer System upon the terms and conditions more fully set forth at length herein, and

WHEREAS, it is in the Jefferson Township residents' interest to provide for treatment of sanitary sewage from JTSA Sewer System at the LRBSA, and

WHEREAS, it is in the best interests of the residents and rate payers of the member Municipalities of the LRBSA to provide for treatment of sanitary sewerage emanating from the JTSA Sewer System at the LRBSA, and

WHEREAS, LRBSA is willing to accept sanitary sewage from JTSA's sewer system and provide wastewater conveyance and treatment upon the terms and conditions more fully set forth hereinafter below, and

WHEREAS, JTSA and Jefferson Township hereby agree that JTSA and Jefferson Township shall endeavor to construct and maintain a conveyance line from the JTSA Sewer System to a point of connection referenced herein, connecting said lines to the LRBSA's Sewer System, and

WHEREAS, this Agreement is subject to, and contingent upon, approval by the Board of the LRBSA, (hereinafter referred to as "The Board") and the appropriate board of Jefferson Township, and

NOW, THEREFORE, in consideration of the following promises, covenants, terms and agreements and the mutuality thereof and each party, intending to be legally bound hereby, the parties agree as follows:

## ARTICLE I – DEFINITIONS

SECTION 1.01. The following words, terms and phrases used in this Agreement shall have the meaning ascribed to them in this Section except where the context clearly indicates a different meaning.

Words, terms and phrases are as follows:

- (1) **ALLOWABLE INDUSTRIAL WASTE:** Any solid, liquid, or gaseous substance, water-born or form of energy ejected or escaping from any industrial manufacturing trade or business process or from the development, recovery or processing of natural resources, as distinct from sanitary sewage, which complies with all provisions of the LRBSA Discharge Resolution, dated March 13, 1984, or amendments or revisions thereto, and which is allowed to be discharged into the Sewer System by the LRBSA.
- (2) **BUILDING SEWER:** Shall mean that part of the main building or house drain or sewer line inside the walls of the building and extending through the walls to a point five (5) feet outside the wall and connecting to the service line or house connection
- (3) **DRAINAGE AREA:** The area planned to be served by the JTSA Sewer System as depicted on Exhibit "A" to this Agreement.
- (4) **EQUIVALENT DWELLING UNIT:** A measurement of flow for purposes of allocating or estimating capacity, and establishing billing costs. One EDU is equivalent to 265 gallons per day. The minimum EDU allocation is 1.0. EDU's shall be rounded to the next whole number.
- (5) **GROUNDWATER:** That water which is contained in or passing through the ground.
- (6) **JEFFERSON TOWNSHIP:** The Township of Jefferson, Lackawanna County, Pennsylvania, or its duly authorized representatives or agents. Such agents shall include the Jefferson Township Sewer Authority (JTSA) as appropriate under applicable Agreements with the Township of Jefferson.
- (7) **JEFFERSON TOWNSHIP SEWER DISTRICT:** A Municipal Sewer District currently under construction or about to be constructed, delineated and authorized by the Jefferson Township Sewer Authority and the Township of Jefferson, said District is currently comprised of the Township of Jefferson.

(8) **JEFFERSON TOWNSHIP SEWER SYSTEM:** All the facilities now or hereafter owned by the JTSA and now existing or hereafter to be constructed in the Township of Jefferson or by Contract or Agreement outside the Township of Jefferson, if authorized by the LRBSA, for the collection, transportation, treatment and disposal of sanitary sewerage and acceptable industrial wastes.

(9) **NON-RESIDENTIAL ESTABLISHMENT:** Any establishment now or hereafter served by the sewer system other than a residential establishment.

(10) **RESIDENTIAL ESTABLISHMENT:** Any establishment used wholly or in part for residential purposes. In the case of multiple housing units (twins, apartments, duplex, condominiums, etc.) each segment shall be considered a residential establishment for purposes of EDU determination and billing.

(11) **SANITARY SEWAGE:** The normal water-carried household and toilet waste from any improved property excluding, however, the effluent from septic tanks or cesspools, rain, storm water and ground water, as well as roof or surface water, drainage or percolating or seeping waters, or accumulation thereof, whether underground or in cellars or basements.

(12) **SANITARY SEWER:** A sewer, which carries sewage and/or authorized Industrial wastes into which storm, surface, and ground waters are not intentionally admitted.

(13) **LRBSA SEWER DISTRICT:** A municipal sewer district existing and authorized by the County of Lackawanna, the LRBSA and its member municipalities. Said District is comprised of all or a portion of the following municipalities provided sewage conveyance, and treatment services by the LRBSA: Archbald Borough, Blakely Borough, Carbondale City, Carbondale Township, Dickson City Borough, Fell Township, Forest City Borough, Jermyn Borough, Jessup Borough, Mayfield Borough, Moosic Borough (excluding Montage Sewer District), Olyphant Borough, Throop Borough and Vandling Borough.

(14) **LRBSA SEWER SYSTEM:** All the facilities now or hereafter owned by the LRBSA and now existing or hereafter to be constructed by or for the collection, transportation, treatment and disposal of sanitary sewage and acceptable industrial wastes.

(15) **SEWER:** A pipe or conduit carrying sanitary sewage, or authorized industrial waste, including, but not limited to, mains, trunk lines, culverts, and laterals.

(16) **SEWER RATES:** Residential and nonresidential rates set by the Board of the LRBSA for the entire LRBSA Sewer System. The LRBSA retains control over rate making for the LRBSA Sewer System. The residential rate, a fixed amount, shall be an annual amount per EDU. The LRBSA reserves the right to increase the rate by enacting a rate increase resolution.

(17) **STORM WATER:** Any flow occurring during or following any form of natural precipitation and resulting therefrom.

(18) **USER** Any person or entity who contributes, causes or permits the contribution of wastewater into the sewer system, including persons or entities whose premises are connected to a sewer extension constructed by either a municipality, a municipal authority or private developer.

(19) **WASTEWATER** The liquid and water-carried industrial or domestic wastes from dwellings, commercial buildings, industrial facilities, and institutions, whether treated or untreated, which is/are contributed into or permitted to enter the sewer system, and meeting the guidelines of sanitary sewage.

## **ARTICLE II – JTSA SEWER SYSTEM, SERVICE AND TERMS & POINT OF CONNECTION**

**SECTION 2.01.** The JTSA, in cooperation with Jefferson Township, agrees to construct and/or complete the construction of the JTSA Sewer System in accordance with Plans submitted to the LRBSA and to the Commonwealth of Pennsylvania and approved by the Pennsylvania Department of Environmental Protection.

**Section 2.02.** The JTSA agrees to continuously operate and maintain the JTSA Sewer System, and the JTSA agrees that the LRBSA shall have no obligation or responsibility with respect to said system and/or facilities.

**Section 2.03** The parties agree that JTSA shall discharge wastewater to the LRBSA Sewer System for treatment and disposal at the point of connection indicated on the approved plans or at such additional point or points of connection as agreed upon by the parties.

**Section 2.04.** The LRBSA agrees that it will receive wastewater from the JTSA Sewer District, pursuant to provisions hereof, for conveyance, treatment, and disposal with the LRBSA Sewer System.

**Section 2.05.** The JTSA covenants and agrees that the LRBSA during the term hereof, shall be the sole and exclusive agency to provide wastewater treatment and disposal services to wastewater emanating from the JTSA Sewer System or the drainage area contemplated to be served by the JTSA Sewer System, (which drainage area is shown on Exhibit "A" hereto), pursuant to provisions hereof.

The provisions of this section 2.05., however, shall not prejudice the JTSA with respect to its rights to use of existing wastewater treatment facilities not owned or operated by the LRBSA, which are presently being utilized by the JTSA, if any, nor shall such covenant of exclusivity or non-competition be construed now or during the term hereof to the prejudice of JTSA should any governmental agency of the Commonwealth of Pennsylvania or the United States, including DEP or EPA, order a change of treatment flows or require the sharing of new treatment facilities with the municipality which is not a party herein.

The JTSA agrees to not permit the disposal or discharge of wastes to the JTSA Sewer System, which wastes emanated from activities outside of the drainage area without prior written approval by the LRBSA.

**SECTION 2.06.** The JTSA agrees that all wastewater emanating from the JTSA Sewer System and discharged to the LRBSA Sewer System for conveyance, treatment and disposal will be subject to the terms and provisions hereof.

**SECTION 2.07.** The LRBSA will accept into the LRBSA Sewer System for conveyance, treatment, and disposal, sewage meeting the standard set forth in Exhibit "B" attached hereto from the JTSA Sewer System under the terms and conditions as provided in Section 4.02 and Section 4.05 below. The LRBSA will treat and dispose of all such wastewater in accordance with sound engineering and industry standards and in accordance with all relevant requirements of governmental agencies and judicial authorities having jurisdiction in the matter.

**Section 2.08.** Except as provided herein, this Agreement shall begin on the date of Page 1 and shall continue in affect until such time that any one of the Parties cease to exist or are no longer empowered by charter to perform wastewater services. This Agreement may be extended by incorporation of a

successor to one of the Parties only by mutual consent of all Parties. In the event of termination, the JTSA Sewer System must be completely withdrawn or disconnected from the LRBSA Sewer System, and reconnected to another Sewer System at no cost to the LRBSA within one (1) year of termination period.

Notwithstanding the preceding paragraph, any party to this Agreement may unilaterally terminate this Agreement by tendering written notice of its intention to do so to all parties herein, provided, however, that the terminating party must first obtain written permission from the Department of Environmental Protection and/or the EPA. Upon the tendering and receipt of written notice of intention to terminate, then this Agreement and its respective provisions shall be terminated and declared null and void one (1) year after said notice of intention to terminate has been received by the respective parties.

**SECTION 2.09.** The connection point for the LRBSA Sewer System and the JTSA Sewer System will be that physical location where the actual JTSA Sewer System pipe known as the Olyphant Connector line, in the public right-of-way, physically connects to the line and/or manhole owned and maintained by Olyphant Borough located at the intersection of East Lackawanna Avenue and Mid-Valley Drive and which subsequently drains to and connects to the LRBSA interceptor near the confluence of Eddy Creek with the Lackawanna River, as more clearly defined in the map attached hereto, and made a part hereof by reference and known as Exhibit "C."

**SECTION 2.10.** The parties hereto agree that no actual, physical connection between the JTSA Sewer System and the LRBSA Sewer System can be made prior to: (a) the approval of this Agreement by both the LRBSA, the JTSA and Jefferson Township, the Pennsylvania Department of Environmental Protection, and any and all affected municipalities; (b) the completion of the actual JTSA Sewer System; (c) inspection and approval of the completed JTSA Sewer System engineering and inspection reports by the duly appointed Engineer for the LRBSA.

**SECTION 2.11** The JTSA agrees to pay a lump sum permit fee to the LRBSA upon completion of the JTSA sewer system and at a time prior to connecting to the LRBSA sewer system and before any wastewater is released into the LRBSA sewer system. It is understood that the lump sum permit fee is to be calculated by multiplying the number of residential and non-residential EDUs by the fee of \$250.00 per EDU. The initial number of EDUs has been projected as 897, however, the number will be modified as per

the JTSA 537 Plan as modified and submitted to the Pennsylvania Department of Environmental Protection.

**SECTION 2.12** The JTSA agrees that upon the JTSA Sewer System completion and attending service to the original, identified users, all new and subsequent residential customers within the agreed to JTSA Sewer District, also known as the agreed to service area, will pay a permit fee of \$250.00 per residential EDU or an increased rate as established, from time to time, by the LRBSA for all residential users. All new and subsequent commercial or industrial customers within the agreed JTSA Sewer District will pay a permit fee in accordance with the LRBSA's Commercial and Industrial Permit Fee Schedule as found in Exhibit D or an increased rate as established from time to time by the LRBSA for all commercial or residential users. The JTSA agrees to adopt, memorialize and promulgate by rule or regulation said permit fee or increased permit fee. The JTSA agrees to provide the LRBSA with copies of each and every new connection permit application in addition to the original users and further agrees to withhold approval of each connection permit application until the LRBSA has approved and signed off on the connection permit application.

### **ARTICLE III – RATES, CHARGES, AND PAYMENTS**

**SECTION 3.01.** The parties agree that the LRBSA shall impose rates and charges upon the JTSA Sewer District for appropriate services rendered by the LRBSA, which rates and charges shall be established as provided in Section 3.02 herein.

**SECTION 3.02.** The rates for wastewater conveyance, treatment, and disposal services by the LRBSA relative to wastewater accepted and received from the JTSA Sewer System will be an initial residential rate of One Hundred Eighty and 00/100 (\$180.00) Dollars annually per EDU and will be subject to the same percentage rate increases that become due and applicable to other users of the LRBSA Sewer System, as enacted in the LRBSA Resolution(s) or other proper legal instruments, and as may be revised from time to time. Such rates will be applied to calculate charges for each individual user of the JTSA Sewer System. The calculated charges will be billed in the aggregate to the JTSA Sewer District quarterly by the LRBSA for all JTSA Sewer System users.

The LRBSA reserves the right to require the installation of water usage meters for non-residential establishments where the LRBSA determines such meters are required to accurately calculate user fees, surcharges and/or other industrial waste loadings. Meters will be installed when directed by the LRBSA at the non-residential user's expense. The LRBSA shall be provided access for periodic meter reading for the purpose of calculating quarterly billings and surcharges. Billing rates for metered non-residential establishments shall be identical to those rates currently in effect for commercial and industrial users throughout the LRBSA Sewer District.

**SECTION 3.03.** The LRBSA, the JTSA, agree that each user of the JTSA Sewer System will be billed for wastewater services by the JTSA created by the municipality of Jefferson Township in which such users' premises are located, at the same rates as are applicable to all other users within such municipality or sewer district within said municipality.

**SECTION 3.04.** The JTSA covenants to pay the LRBSA's respective wastewater service rates and charges imposed herein, quarterly, for services rendered for the preceding , on or before quarterly dates mutually agreed upon. Rates for any period which is less or more than one quarter shall be prorated.

JTSA and Jefferson Township covenant to supply promptly to the LRBSA all information in their possession deemed necessary by the LRBSA in order to compute such wastewater service rates and charges to the JTSA Sewer District, including, but not limited to, information concerning number and types of physical connections to, number of dwelling units connected to, and strength, character and volume of wastewater discharged into the JTSA Sewer System and to provide or take any legally available action to provide information concerning the volume of water used by each and all users connected to the JTSA Sewer System. The LRBSA and JTSA agree that the LRBSA has unfettered access to, and the JTSA will provide, JTSA customer billing information within thirty (30) days of the JTSA billing its users.

**SECTION 3.05.** Wastewater service rates and charges and other sums required to be paid by the JTSA under this Agreement shall be received by the LRBSA as net sums and the JTSA covenants and agrees to pay all charges against or which diminish such net sums. In no case shall the LRBSA be responsible to collect fees from any party other than the JTSA. All delinquent bills within the JTSA service area shall be the responsibility of the JTSA and JTSA only. LRBSA shall be paid in full regardless of the



JTSA's delinquencies, shortfalls, and/or deficiencies on behalf of, or by, the users of the JTSA Sewer System.

**SECTION 3.06.** All bills for sewer service charges shall be due and payable upon presentation. If any bill for sewer charges is not paid within thirty (30) days after the same shall become due and payable, an eight percent (8%) late charge will be assessed and added thereto. If the sewer charges continue to be delinquent and JTSA fails to tender timely payment on its current bill, an eight percent (8%) late charge will be assessed on the cumulative charges, both present and past, plus any previously assessed late charges.

Upon failure to pay in full any bill for sewer charges within thirty (30) days after the same shall be delinquent, the LRBSA shall have the right to pursue any or all legal remedies available at law or equity or otherwise.

#### **ARTICLE IV – CHARACTER AND VOLUME OF FLOWS**

**SECTION 4.01.** Upon connection of the line through the line or lines of the LRBSA, the LRBSA agrees to be responsible for the acceptance and treatment of all sewage emanating from the line described herein.

**SECTION 4.02.** The LRBSA agrees to accept into the LRBSA Sewer System an initial average daily wastewater flow of 237,705 gallons per day based on 265 gallons per day per EDU and an estimated 897 projected residential users to be initially connected to the JTSA Sewer System as set forth in the Jefferson Township Act 537 Plan as submitted to the Pennsylvania Department of Environmental Protection. Additional users within the Jefferson Township Sewer District may connect to the JTSA Sewer System upon submission and approval by the LRBSA of a valid connection permit, and payment to the LRBSA of the applicable permit fee, all in accordance with the procedure as set forth in Section 2.12. New connections will be approved by the LRBSA based on availability of capacity within the LRBSA Sewer System as is the current procedure for all new connections to the LRBSA Sewer System within the LRBSA Sewer District and its member municipalities.

The JTSA will not permit, (a) an average monthly wastewater flow rate into the LRBSA Sewer System that exceeds 265 gallons per day per EDU, or (b) an instantaneous peak wastewater flow rate that exceeds three (3) times the average daily flow rate of 265 gallons per day per EDU, or 795 gallons per day per EDU. All determinations of flow limits shall be based on the current number of EDU's connected to the JTSA Sewer System at any given time.

**SECTION 4.03.** The JTSA will install, start up, monitor and maintain a flow meter and recorder at the point where the JTSA Sewer System exits the Jefferson Township Sewer District. The type, arrangement and location of the meter shall be approved by the LRBSA prior to construction and/or installation. The JTSA will be responsible to have an independent party calibrate the flow meter on a semi-annual basis. The JTSA will provide the LRBSA with a certificate of calibration semi-annually. Certificate of calibration shall be forwarded to the LRBSA within fifteen (15) days of generation.

**SECTION 4.04.** LRBSA shall have free and unfettered access to read the meter, to inspect the meter and the LRBSA shall provide the JTSA with monthly readings within fifteen (15) days of generation.

**SECTION 4.05** In the event the average monthly flow of 265 gallons per day per EDU is exceeded for two (2) consecutive months, the JTSA will immediately provide a minimization plan. For the purposes of this Agreement, a minimization plan shall mean to provide evidence and explain the corrective measures to be taken by JTSA.

Within thirty (30) days of receiving notification from the LRBSA that it has exceeded its average monthly flow for two consecutive months, the JTSA will submit to the LRBSA the aforementioned minimization plan and said plan will set forth the corrective measures to be taken along with scope of the corrective measures and a time table for their implementation. Within sixty (60) days from receiving notification from the LRBSA that it has exceeded its average monthly flow for two consecutive months, the JTSA will submit to the LRBSA the results of any and all engineering reports regarding the average monthly flow exceedance and its correction and the JTSA's detailed remediation plan along with a time table for completion.

**SECTION 4.06** Should at any time the flow of wastewater from the JTSA Sewer System exceed the volume limits at the time applicable under this Agreement or should at any time the quality of such flow be in violation of the standards established by the LRBSA, for two (2) consecutive months, the JTSA shall

be liable for, in addition to the separate charge provided for in Section 3.02, any actual damage suffered by the LRBSA by reasons of such violations, and the LRBSA shall have the absolute right to have any such violations cease forthwith. If the LRBSA notifies the JTSA of any violation of such volume limits or quality standards and the JTSA do not take immediate steps to correct the violation, the LRBSA may bring suit at law or in equity to compel such corrective action. The parties agree that in the event of the JTSA Sewer System exceeding the volume limits set forth herein, the LRBSA has a right to recover for the cost of additional flow during the time period or the flow is in exceedance at a rate of \$15.00 per month per EDU, based on the actual metered flow exceedance.

**SECTION 4.07.** Should the JTSA make a specific capacity request for which capacity is not available within the LRBSA Sewer System, the LRBSA shall not be obligated to construct any additions or improvements to the LRBSA Sewer System for the specific accommodation of the JTSA unless such construction is determined to be feasible by the LRBSA and required to meet the overall capacity needs of the LRBSA Sewer District. However, the LRBSA shall not unreasonably refuse to construct or cause to be constructed such additions and improvements to its system requested by the other parties at the sole cost and expense of the JTSA or Jefferson Township.

**SECTION 4.08.** The LRBSA may establish from time to time uniform (within all areas services by the LRBSA) standards of acceptability of wastewater to be discharged into the LRBSA Sewer System. Such standards shall be reasonable and similar to the customary standards imposed with regard to similar facilities and service area conditions.

The JTSA and Jefferson Township agree to adopt, by ordinance(s) and/or resolution(s), and enforce, the same standards of acceptability of wastewater as currently in effect in the LRBSA Sewer District. Specifically, the JTSA and Jefferson Township agree to adopt and enforce the standards set forth in the LRBSA Discharge Resolution, dated March 13, 1984, (Exhibit "B"), attached hereto and made a part hereof by reference.

Furthermore, Jefferson Township and the JTSA agree to adopt a resolution and ordinance in a form supplied by the LRBSA entering into an Interjurisdictional Agreement authorizing the LRBSA to implement and enforce a pre-treatment program to control industrial waste under 40 CFR Part 403 and the Pennsylvania Clean Streams Law, as amended, 35 P.S., Section 691.1, et seq.

Failure of Jefferson Township or the JTSA to adopt the LRBSA Discharge Resolution and Interjurisdictional Agreement shall be considered a breach of this service agreement.

The LRBSA Sewer System is designated primarily for the treatment and disposal of sanitary sewage and allowable industrial wastes. The JTSA Sewer District shall not permit any connection for the disposal of any waste other than sanitary sewage to be made to the JTSA Sewer System except upon prior specific written permission of the LRBSA, provided that the acceptance for treatment and disposal by the LRBSA of wastes other than sanitary sewage shall be in accordance with the current uniform standards established by the LRBSA for all areas serviced by the LRBSA Sewer System. (The current uniform standards are attached hereto and made apart thereof as "Exhibit "B"). Reasonable notice of any changes therein shall be given by the LRBSA to the JTSA and shall become part of this Agreement.

#### **ARTICLE V – CONTINGENCY/APPROVALS**

**SECTION 5.01.** The JTSA will obtain any and all necessary approvals from the Department of Environmental Protection and the Environmental Protection Agency for the construction, installation, and operation of the JTSA Sewer System as contemplated and set forth in this Agreement.

**SECTION 5.02.** The JTSA will obtain any and all approvals and/or permits and/or resolutions and/or ordinances, that are now, or may become, necessary from the affected or traversed municipalities and any other municipality or municipal authority, as it may become necessary when planning, excavating, installing, and re-grading and conducting any other forms of work necessary to traverse and cross the municipal boundaries to facilitate the connection of the JTSA Sewer System to the LRBSA Sewer System. The JTSA further agrees to give written notification to the affected municipalities, regarding JTSA's traversing or crossing of each respective municipality municipal boundary line and will provide the same to the LRBSA prior to the commencement of construction of the JTSA Sewer System. Failure to obtain consent and approval, when, where, and if necessary, from the affected municipalities, or failure to give written notice to all involved municipalities resulting in an overall failure to implement the JTSA Sewer System shall relieve the LRBSA from any and all responsibilities or obligations to perform under this Agreement. The JTSA and Jefferson Township agree to have and hold harmless the LRBSA from any and

all liabilities arising under, pursuant to, or in connection with this Agreement or its performance or non-performance under this Agreement.

**SECTION 5.03.** The JTSA will obtain any and all necessary permits and/or approvals from the Township of Jefferson and any other township town or city as it may become necessary when constructing or facilitating the connection at the designated connection point.

**SECTION 5.04.** This Agreement is contingent upon confirmation from the LRBSA, that said acceptance of effluent emanating from the JTSA Sewer System will not overload the LRBSA's downstream facilities, including commitments of capacity to the LRBSA Sewer District.

**SECTION 5.05.** This Agreement is contingent upon verification from the LRBSA that the LRBSA Sewer System from the point of connection to the treatment plant has sufficient reserve hydraulic capacity to accept the additional flow from the JTSA Sewer System.

## **ARTICLE VI – MISCELLANEOUS PROVISIONS**

**SECTION 6.01.** The JTSA and/or Jefferson Township shall establish, maintain, levy, impose, and collect charges, rentals, and fees in respect to the use of the JTSA Sewer System, sufficient to enable it to pay therefrom (except to the extent that other forms are legally available for the purpose) the annual charges required under this Agreement to be paid to the LRBSA and to operate and maintain the JTSA Sewer System in good repair in working order as herein required.

All such rates and charges shall be in compliance with all governing requirements of the Commonwealth of Pennsylvania and the United States of America. The parties hereto agree to enter into appropriate amendments or supplements to this Agreement when and if necessary to equitably apportion any charges required by such governing requirements.

**SECTION 6.02.** Each of the JTSA and Jefferson Township covenant that it will adopt, enforce and keep in full force and effect continuously during the term hereof, an ordinance or ordinances or resolutions, as appropriate, prohibiting the discharge into the JTSA Sewer System of any wastes which are prohibited to be discharged into the LRBSA Sewer System under rules and regulations of the LRBSA in effect at the time and on file with the other parties. It is the intention of this Agreement that only sanitary sewage and allowable industrial waste may be discharged into the JTSA Sewer System. It is the intention

of this Agreement that only sanitary sewage and allowable industrial waste from the JTSA Sewer District and Sewer System be discharged into the LRBSA Sewer System. The JTSA will assume the responsibility of policing the entire JTSA Sewer System for illegal connections and infiltration up to the agreed upon point of connection. The LRBSA shall have the right to test the wastewater discharged by the JTSA to LRBSA's Sewer System. If results show violations of the terms set forth herein, said testing costs shall be paid by the JTSA.

The JTSA and Jefferson Township agree to adopt such ordinances and/or resolutions which are necessary to impose any rates, including percentage rate increases as imposed by LRBSA Resolutions upon LRBSA Sewer District users, charges, tariffs or requirements upon any of the users of the JTSA Sewer System which are required to be imposed on such users by provisions hereof, or which relate to obligation assumed hereunder. The intent of this section, and of this Agreement in general is to assure that the users and/or residents of the JTSA Sewer District and the users/residents of the LRBSA Sewer District are subject to the same specific percentage rate increases in user usage and rental fees.

**SECTION 6.03.** The JTSA shall give the LRBSA notice of the connection of any residential establishment or non-residential establishment to any sewer which discharges wastewater, directly or indirectly, to the JTSA Sewer System, within thirty (30) days of such connection and shall otherwise comply with rules and regulations of the LRBSA with respect to residential establishments and non-residential establishments and industrial users, and wastewater therefrom.

**SECTION 6.04.** Except as otherwise specifically provided to the contrary herein, each of the parties hereto shall pay or cause to be paid all costs, charges, and expenses occurred in or in connection with construction, operation, maintenance, and repair of their respective sewer systems and the making of all extensions and improvements thereto. Each of the parties hereto agree to keep and maintain its sewer system at all times in good repair and order and efficient operating conditions and to meet the standards prescribed by the Department of Environmental Protection of the Commonwealth of Pennsylvania or any other governmental agency or judicial authority having jurisdiction. No party hereto shall in any manner be liable for damage or demands arising out of the construction, maintenance, or repair of any collection system other than its own.

Except for negligent acts or omissions committed by the LRBSA, the JTSA shall indemnify and save harmless the LRBSA against any claims for damages arising from parties connected to the JTSA Sewer System, wastewater from which is ultimately discharged to the LRBSA under this Agreement, resulting or occasioned by failure of the LRBSA's sewer lines governed by this Agreement to properly function from any cause whatsoever.

Neither the LRBSA nor its consulting engineers shall have any liability for the design, construction, operation, and maintenance, or repair of the JTSA Sewer System, or extensions thereto.

The JTSA shall have no liability for the design, modification, and/or construction of the existing LRBSA Sewer System, or extensions thereto, unless constructed by the JTSA.

**SECTION 6.05.** The JTSA and Jefferson Township covenant that they will not assign their interests herein, except an assignment to a party hereto, without written consent of the LRBSA and, if such consent shall be given, then only subject to conditions which may be set forth in such consent.

The JTSA and Jefferson Township covenant that they will not convey their sewage collections system which discharges wastewater to the LRBSA Sewer System to a municipality, municipal authority or other public authority or public body, except a party hereto, without written consent of the LRBSA, and, if such consent shall be given, then only subject to conditions which may be set forth in such consent; provided, however, that any such conveyance shall not relieve such party of its obligations hereunder.

**SECTION 6.06.** The JTSA covenants that the LRBSA, by its duly authorized representatives, at reasonable times, may inspect any part of its sewage collection system, which discharges wastewater to the LRBSA Sewer System.

The LRBSA covenants and agrees that either of the JTSA and Jefferson Township, by their duly authorized representatives, at reasonable times, may inspect the point of connection and line of connection of the LRBSA Sewer System.

**SECTION 6.07.** Each of the parties hereto agrees to employ a Professional Engineer licensed in the Commonwealth of Pennsylvania at all times to perform the functions of such Engineer provided for by this Agreement.

**SECTION 6.08.** Upon completion of the construction of the JTSA Sewer System, and any future improvements or extensions thereto, the JTSA shall forthwith deliver to the LRBSA a certificate from the

JTSA's Consulting Engineer that the construction was inspected by said Consulting Engineer and has been completed in accordance with the approved plans and specifications and other applicable standards as agreed to herein.

**SECTION 6.09.** The JTSA covenants to comply with all valid acts, rules, regulations, orders and directives of any legislative, executive, administrative or judicial rulings applicable to construction, operation, repair, and maintenance related to its sewer system which discharges wastewater to the LRBSA Sewer System.

**SECTION 6.10.** Each party covenants that during the term of this Agreement it will not discontinue operation of its sewage collection system.

**SECTION 6.11.** The LRBSA without written consent of the other parties, may enter into Agreements, from time to time, in addition to this Agreement, with any person, party, corporation, entity, municipality, or municipal authority pursuant to which the LRBSA shall agree to convey, treat and/or dispose of wastewater of the other party to such Agreement, in connection with use and operation of the LRBSA Sewer System.

**SECTION 6.12.** The JTSA and Jefferson Township agree to comply (including furnishing necessary information to the LRBSA) with requirements of statutes, rules, regulations and conditions relating to the LRBSA's National Pollutant Discharge Elimination's System NPDES permit, water quality management permit, solid waste management permit, air quality permit, industrial pre-treatment program and any other federal or state permits or agreements, any obligations of the LRBSA thereunder, which relate to users of the JTSA and Jefferson Township.

**SECTION 6.13.** The JTSA agrees to implement and perform infiltration and inflow studies and corrective procedures necessary to limit excessive inflow and infiltration of storm water or groundwater into any part of any sewer system discharging wastewater to the LRBSA Sewer System in a manner satisfactory to the LRBSA in accordance with generally recognized standards of engineering practice, and in accordance with Section 4.05 of this Agreement, or, as appropriate, in a manner which complies with any grant, agreement, or any other law, rule or regulation which governs the JTSA Sewer Authority or the LRBSA Sewer System.



**SECTION 6.14.** The JTSA agrees that any construction of and/or extension to the JTSA Sewer System shall be made in accordance with the latest standards of the LRBSA. Applicable LRBSA policies and documents, revisions, and supplements thereto shall be adhered to such as but not limited to: "LRBSA Specifications for Sanitary Sewer Collection System Construction." Such construction and/or extensions shall also conform to applicable federal and state law, including but not limited to compliance with the standards set forth in the Pennsylvania Department of Environmental Protection "Domestic Wastewater Facilities Manual", and revisions or supplements thereto.

**SECTION 6.15.** The JTSA and Jefferson Township shall require all parties constructing extensions to the JTSA Sewer System to comply with all applicable provisions of this Agreement. The JTSA and/or Jefferson Township shall require any entity owning any sewer extension, if not a party to this Agreement, to comply with all applicable provisions of this Agreement.

The JTSA and Jefferson Township shall require all parties constructing such extensions to submit to the LRBSA copies of applicable DEP planning modules, DEP permit applications, DEP permit construction drawings, certificate of completion by the engineer appointed by the JTSA Sewer District, and record drawings, as such documents are developed.

**SECTION 6.16.** The JTSA and Jefferson Township agree that all sewers constructed as a part of or connected to the JTSA Sewer System will be Sanitary Sewers, will not connect and will not permit to be connected to said sewers any contributions of Storm Water and/or Groundwater, and will take any and all necessary action to remove or have removed sources of Storm Water or Groundwater when any such connections become known.

**SECTION 6.17.** The LRBSA, JTSA and Jefferson Township agree that any party shall have the right to review, at any time, the volume, pollutant load and character of wastewater being discharged to the LRBSA Sewer System from the JTSA Sewer System, and to determine whether excessive flows of wastewater, or wastewater of excessive pollutant load, strength or character are being discharged to the LRBSA Sewer System, which determination shall be made by application of generally accepted engineering standards of practices. The LRBSA shall have the right to regulate and limit any such excessive flows of wastewater or wastewater of excessive strength, pollutant load strength or character to the LRBSA Sewer System.

**SECTION 6.18.** In the event the LRBSA believes or perceives the JTSA to be in breach of this Agreement, or any provision hereof, the LRBSA will notify the JTSA of the perceived breach and will specifically describe the nature of the perceived breach. The LRBSA and the JTSA agree to meet within thirty (30) days of the notice of perceived breach to discuss an attempt to resolve the perceived breach issue.

**SECTION 6.19.** If the LRBSA believes that the JTSA will not, or cannot resolve the nature of the perceived breach and is convinced that the breach will continue, the LRBA will provide written notice to the JTSA of that breach and will provide a copy of that notice to Jefferson Township. Upon receipt of that notice, Jefferson Township hereby agrees to meet with the JTSA to attempt to resolve the breach. Jefferson Township will notify the LRBSA of the date and time of the meeting with the JTSA in order to allow the LRBSA representatives to attend, if attendance is deemed necessary by the LRBSA. If the JTSA then agrees to cure the breach, the LRBSA will allow them a reasonable time to cure the subject breach. For purposes of this paragraph, a reasonable time shall mean that which is commensurate with common industry practices and a time that is agreed upon by the JTSA and the LRBSA.

**SECTION 6.20.** If the LRBSA receives a Notice of Violation from either the Pennsylvania Department of Environmental Protection (DEP) or the Environmental Protection Agency (EPA) and the LRBSA believes that the JTSA is partially or entirely responsible for the violation(s), the LRBSA will immediately notify the JTSA of the violation(s) and provide a basis for its belief that the JTSA is, in fact, responsible for the violation(s). The LRBSA will, in a timely manner, provide the JTSA with a copy of the violation(s) and, in addition, will provide the JTSA with notice of any DEP and/or EPA meetings regarding the violation(s). If a fine is levied against the LRBSA as a result of a Notice of Violation, the JTSA agrees to pay the full amount of the attendant fine, or its pro rata share, depending on its level of responsibility as determined by the DEP or EPA. This paragraph addressing monetary fines is in addition to fines that may be imposed against the JTSA under this Agreement and under the LRBSA Discharge Resolution, dated March 13, 1984, as amended, and nothing in this paragraph shall prohibit the LRBSA from moving under or fining pursuant to the LRBSA Discharge Resolution.

**SECTION 6.21.** Any and all notification under this Agreement shall be made by and between the Chairman of the respective Authorities whose current names and addresses are as follows:

Allan Mykalo  
Chairman JTSA  
Jefferson Township Sewer Authority  
487 Cortez Road  
Lake Ariel, PA 18436

Dominic Surace  
Executive Director  
LRBSA  
PO Box 9068  
Dickson City, PA 18519

Notification to Jefferson Township should be addressed to, and sent to:

Raymond DePrimo  
Chairman of the Board of Supervisors  
487 Cortez Road  
Lake Ariel, PA 18436

**SECTION 6.22** A right of recourse is reserved unto the LRBSA to exercise or utilize any legal remedies available at law or equity or otherwise in the event that the LRBSA determines that JTSA is discharging wastewater of excessive flows, pollutant load, or strength, as determined in accordance with the provisions hereof.

**SECTION 6.23.** This agreement will be deemed to be made under the laws of the Commonwealth of Pennsylvania and for all purposes will be governed by, and interpreted and construed in accordance with, the laws of the Commonwealth of Pennsylvania, without regard to principles of conflict of laws thereof. By signing this agreement the parties hereto agree to and submit to the jurisdiction of the Court of Common Pleas for the County of Lackawanna and the United States District Court for the Middle District of Pennsylvania. Any action relating to this agreement shall be exclusively filed, prosecuted and defended before the United States District Court for the Middle District of Pennsylvania or, in lieu of federal jurisdiction, before the Court of Common Pleas, County of Lackawanna, Commonwealth of Pennsylvania.

**SECTION 6.24** Should any one or more of the provisions of this Agreement for any reasons be held illegal or invalid, such legality or invalidity shall not affect any other provisions of this Agreement and this Agreement shall in such circumstances be construed and enforced as if such illegal or invalid provision(s) had not been contained herein.

**SECTION 6.25.** The construction and effect of this Agreement or any amendment to this Agreement shall be governed by the laws of the Commonwealth of Pennsylvania.

SECTION 6.26. This Agreement is not assignable or transferable nor is any performance of any duty delegable by either party without the prior written consent of the parties.

SECTION 6.27. This Agreement may be executed in multiple counterparts, each of which shall be regarded for all purposes, as original; and such counterparts shall constitute but one in the same instrument.

SECTION 6.28. This Agreement shall become effective upon execution and delivery by the parties hereto. Subject to termination in accordance with the provisions hereof, the terms hereof shall be perpetual.


IN WITNESS WHEREOF, the LRBSA has caused the within Agreement to be executed in its municipal incorporated name over the signature of its Chairman, and its corporate seal to be affixed hereunto, duly accepted by its Secretary. The JTSA has likewise caused the within Agreement to be executed in its municipal incorporated name over the signature of its Chairman, and its corporate seal to be affixed hereunto, duly accepted by its Secretary; and the Township of Jefferson has caused the same to be executed by its duly authorized representative, Chairman of the Board of Supervisors, and its corporate seal to be affixed hereunto, duly accepted by its Secretary, all on the day and date first above written.

LACKAWANNA RIVER BASIN SEWER AUTHORITY

  
WITNESS EXEC. DIRECTOR

BY:   
MATTHEW SKROBISZEWSKI, Chairman

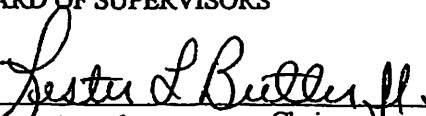
JEFFERSON TOWNSHIP SEWER AUTHORITY

  
WITNESS Secretary

BY:   
ALLAN MYKALO, Chairman

JEFFERSON TOWNSHIP  
BOARD OF SUPERVISORS

  
WITNESS Project Engineer

BY:   
LESTER Butler, Jr., Chairman

**APPENDIX C**

**JEFFERSON TOWNSHIP RESOLUTION**

**RESOLUTION 05-2**

JEFFERSON TOWNSHIP, LACKAWANNA COUNTY, PENNSYLVANIA RESOLUTION OF THE BOARD OF SUPERVISORS OF THE TOWNSHIP JEFFERSON, LACKAWANNA COUNTY, PENNSYLVANIA (hereinafter "the municipality")

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 (Department) adopted thereunder, Chapter 71 of Title 25 of the **Pennsylvania Code**, requires the municipality to adopt an Official Sewage Facility Plan providing for sewage service adequate to prevent contamination of waters and/or environmental health hazards with sewage wastes, and to revise said plan whenever it is necessary to meet the sewage disposal needs of the municipality; and

WHEREAS, Jefferson Township desired to revise its ACT 537, Official Sewage Facility Plan adopted August 12, 2002 which provides for sewage facilities in a portion of Jefferson Township; and

WHEREAS, Jefferson Township engaged the services of Acker Associates Corporation to develop an Update Plan to address certain updates to the proposed plan; and

WHEREAS, Jefferson Township finds that the revised Act 537, Official Sewage Facility Plan Update Revision described as advertised conforms to applicable zoning, subdivision, other municipal ordinances and plans and to a comprehensive program of pollution control and water quality management; and

WHEREAS, Jefferson Township advertised the Revised Act 537, Official Sewage Facility Plan Update Revision, seeking public comment until July 1, 2005; and

NOW THEREFORE, BE IT RESOLVED that the Supervisors of the Township of Jefferson hereby adopts and submit to the Pennsylvania Department of Environmental Protection for its approval as a revision to the "Official Plan" of the municipality, the above referenced Facility Plan. The Municipality hereby assures the Department of the complete and timely implementation of the said plan as required by law (Section 5, Pennsylvania Sewage Facilities Act, as amended).

The key implementation activities include: preparation of design and specification documents, and completion of construction within twenty months of Department issue of Permits.

**JEFFERSON TOWNSHIP SUPERVISORS**

Dated: July 5, 2005

Abstained  
Lester Butler, Chairman Board of Supervisors

ATTESTED:

[Signature]  
John Patterson, Supervisor

Colleen Watt  
Colleen Watt, Township Secretary

Raymond DePrimo  
Raymond DePrimo, Supervisor

**RESOLUTION 05-\_\_**

JEFFERSON TOWNSHIP, LACKAWANNA COUNTY, PENNSYLVANIA RESOLUTION OF THE BOARD OF SUPERVISORS OF THE TOWNSHIP JEFFERSON, LACKAWANNA COUNTY, PENNSYLVANIA (hereinafter "the municipality")

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The key implementation activities include: preparation of design and specification documents, and completion of construction within twenty months of Department issue of Permits.

**JEFFERSON TOWNSHIP SUPERVISORS**

**Dated:** \_\_\_\_\_

\_\_\_\_\_  
**Lester Butler, Chairman Board of Supervisors**

**ATTESTED:**

\_\_\_\_\_  
**John Patterson, Supervisor**

\_\_\_\_\_  
**Colleen Watt, Township Secretary**

\_\_\_\_\_  
**Raymond DePrimo, Supervisor**

**APPENDIX D**

**EXISTING JEFFERSON TOWNSHIP**

**CENTRAL SANITARY SEWER SYSTEM**

**LOCATION MAP**

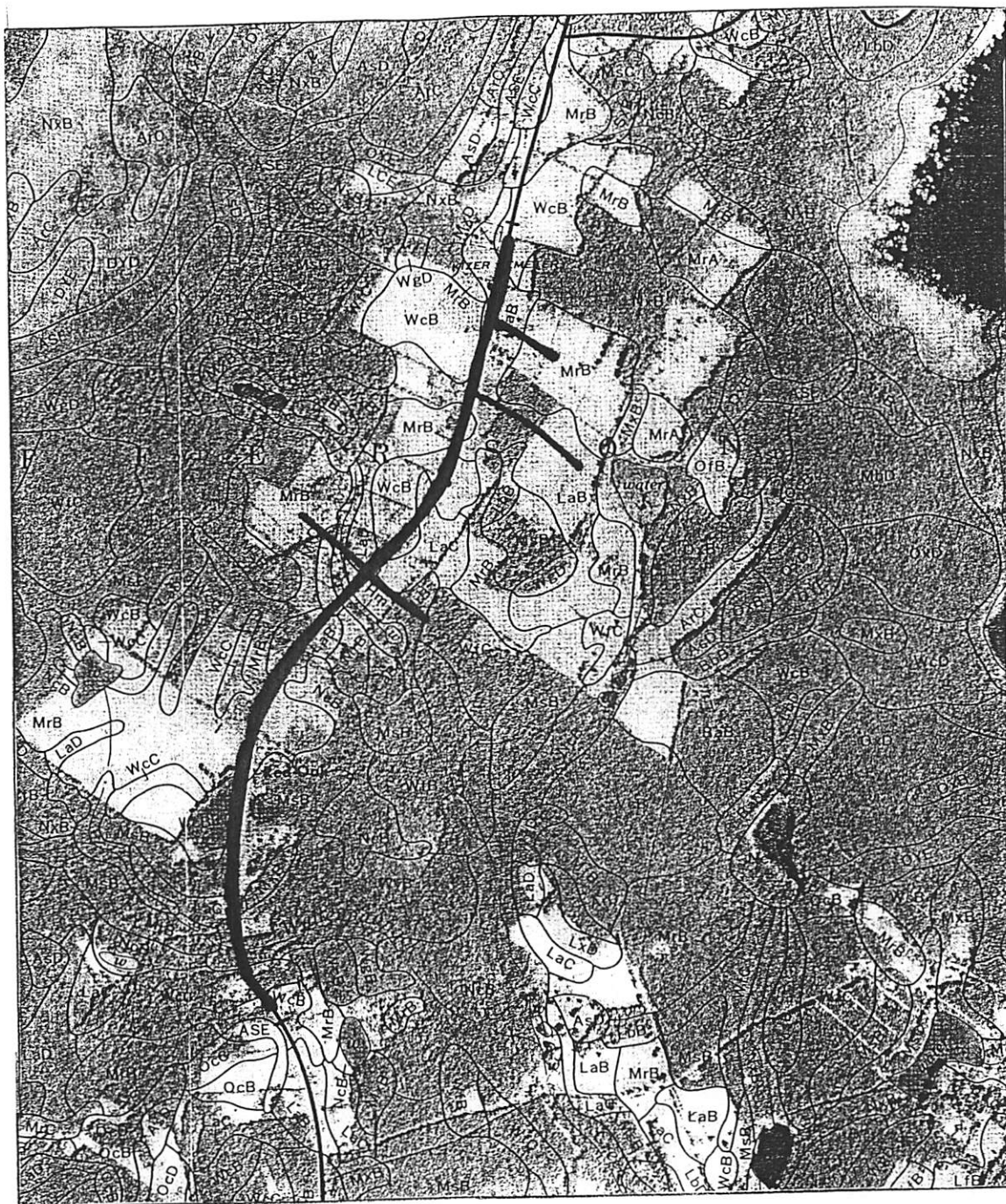


**APPENDIX E**

**PLANNING AREA**

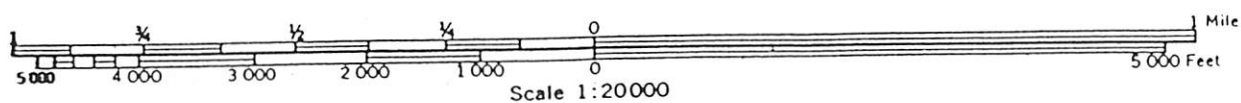
**SOILS MAPPING**





## SOILS MAP

JEFFERSON TOWNSHIP SANITARY SEWER EXTENSION PROJECT  
SERVICE AREA 2 (CORTEZ ROAD)

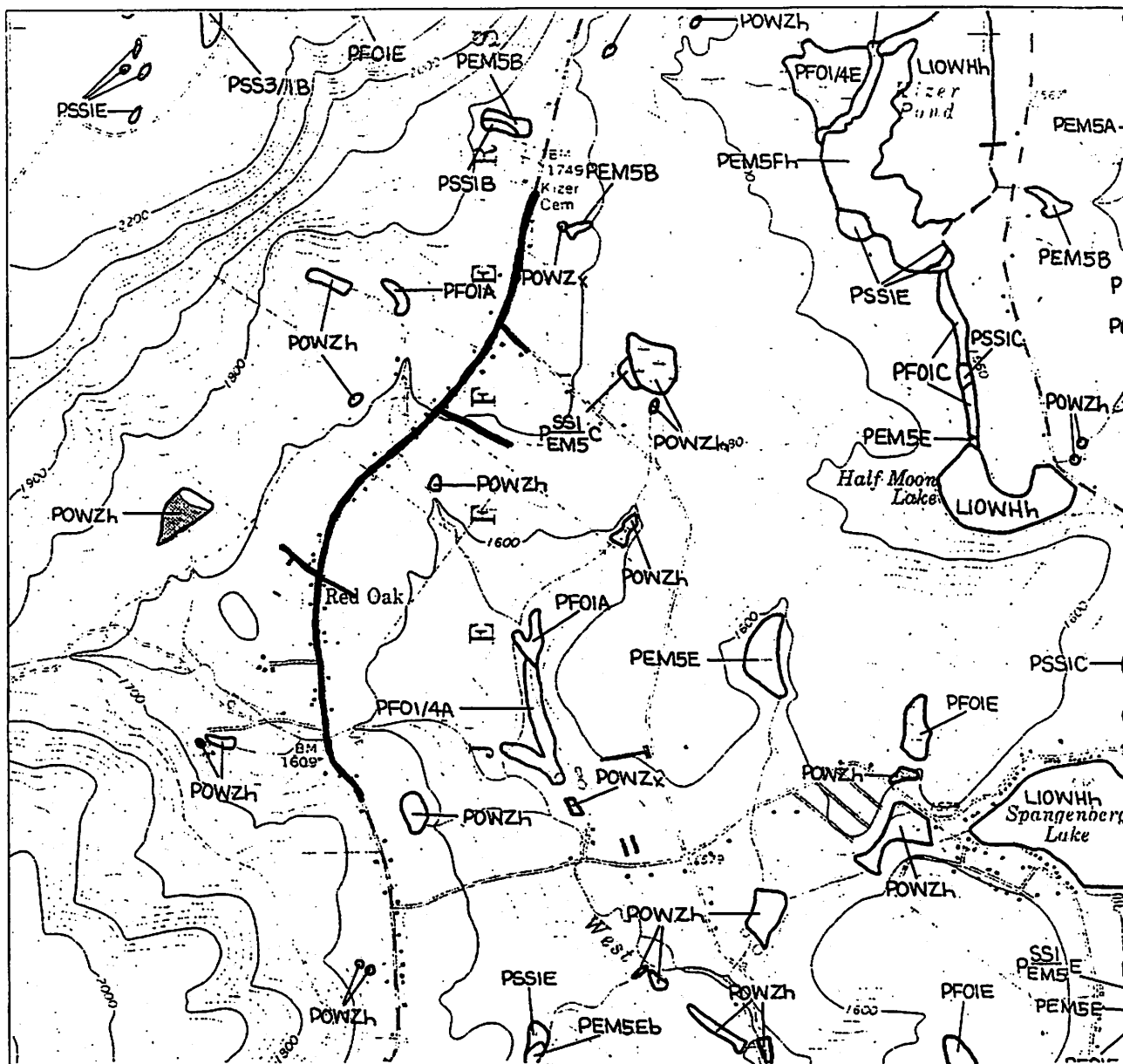


**APPENDIX F**

**PLANNING AREA**

**NATIONAL WETLANDS INVENTORY MAPPING**



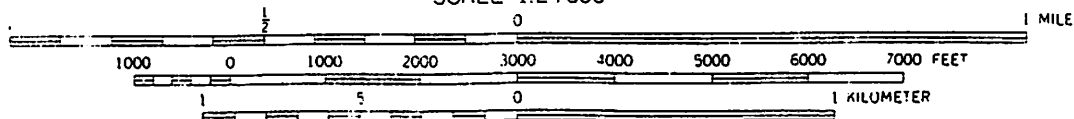


## WETLANDS MAP

From the National Wetlands Inventory United States Department of the Interior, May 1981,  
Lake Ariel, PA Quad

### JEFFERSON TOWNSHIP SANITARY SEWER EXTENSION PROJECT SERVICE AREA 2 (CORTEZ ROAD)

SCALE 1:24 000



**APPENDIX G**

**LOCATION MAPS OF OBVIOUS AND**

**SUSPECTED ON-LOT DISPOSAL SYSTEM**

**FAILURES**

SEWAGE NEEDS ANALYSIS

FOR

OFFICIAL WASTEWATER MANAGEMENT PLAN

FOR

JEFFERSON TOWNSHIP

LACKAWANNA COUNTY

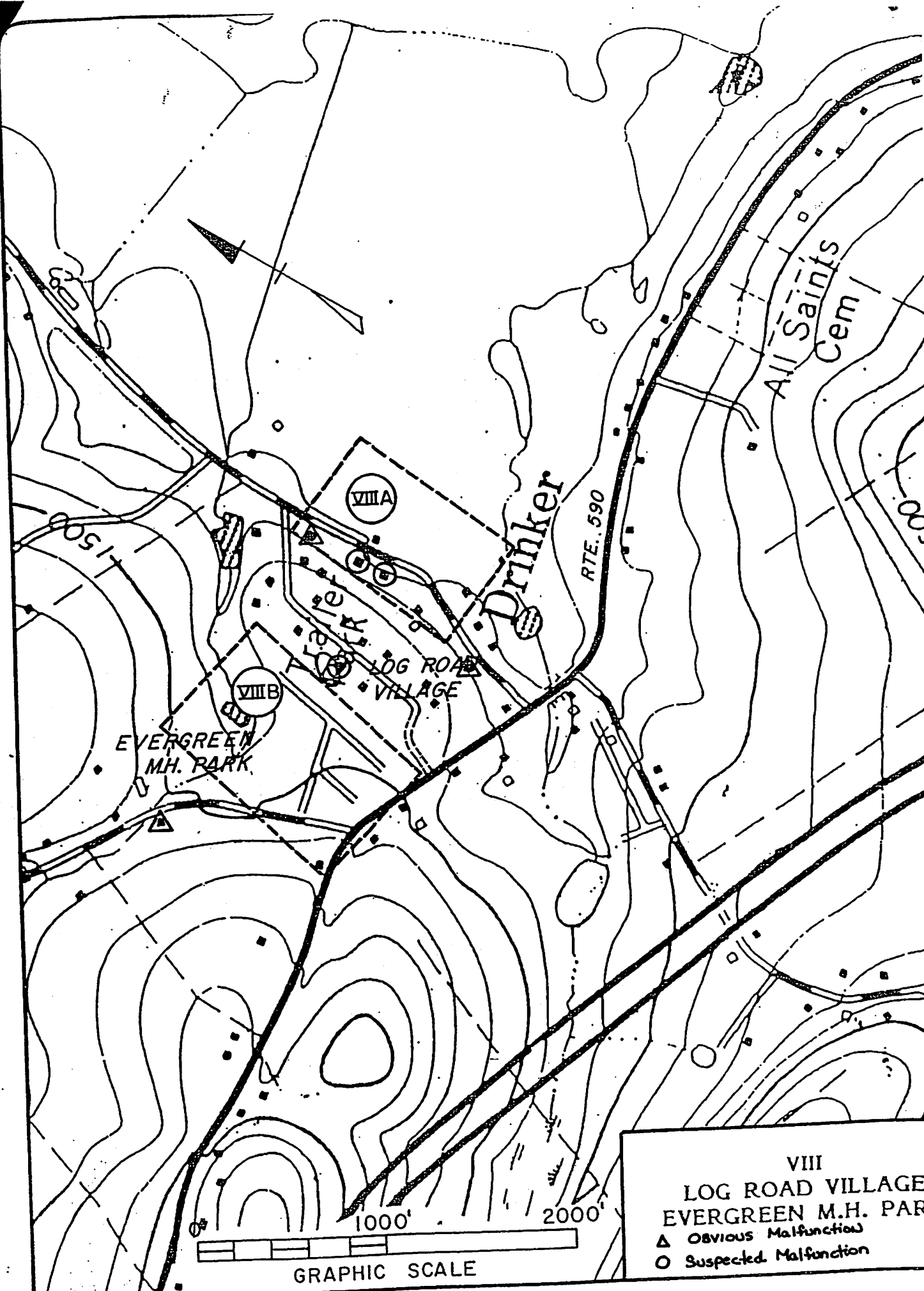
PENNSYLVANIA

OCTOBER 1987

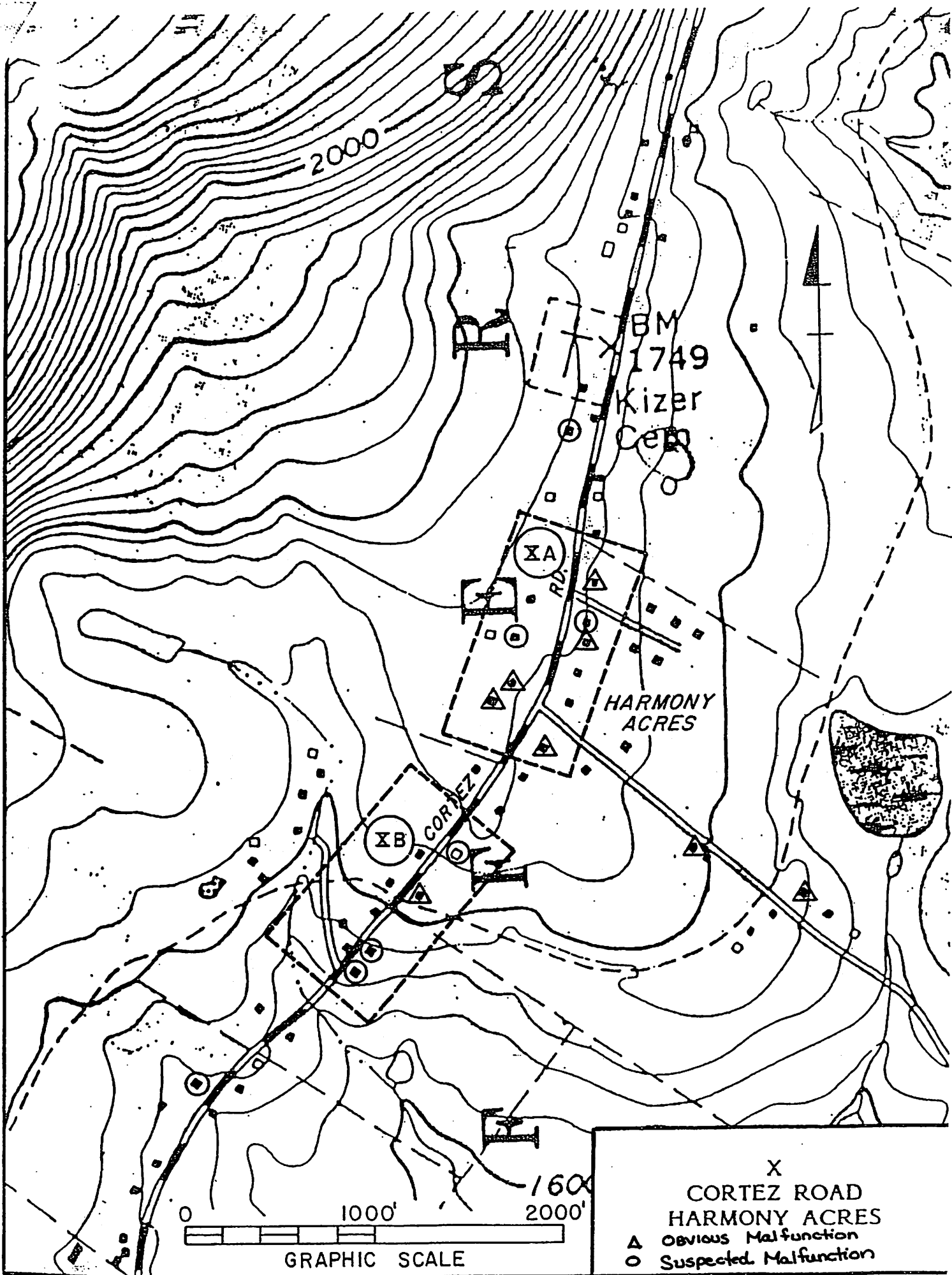
PENN-EAST ENGINEERING CO., INC.

CONSULTING ENGINEERS  
BROOKS BUILDING, SUITE 301  
436 SPRUCE STREET  
SCRANTON, PA 18503  
(717) 344-1006





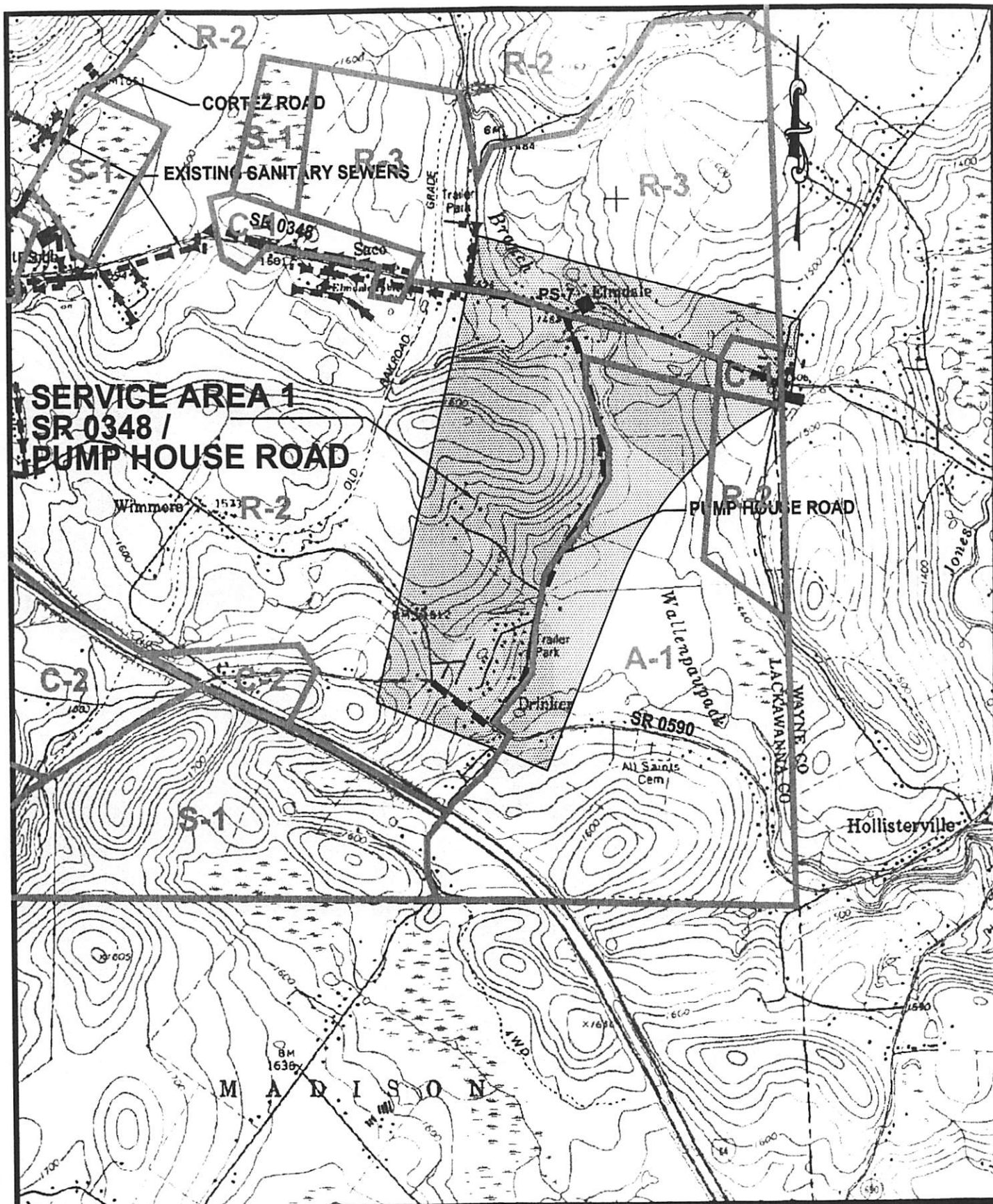
VIII  
LOG ROAD VILLAGE  
EVERGREEN M.H. PAR  
△ OBVIOUS Malfunction  
○ Suspected Malfunction



**APPENDIX H**

**PLANNING AREA**

**ZONING DISTRICTS**



**Acker Associates Inc.**

*Consulting Engineers*

P.O. Box 899 - Moscow, PA. - 18444

**JEFFERSON TOWNSHIP SANITARY SEWER EXTENSION PROJECT  
SERVICE AREA 1 (SR 0348 / PUMP HOUSE ROAD)**

DRAWN BY	KJS	CHECKED BY	MLB	SCALE	1"=2000'
DATE	12-02-04	JOB NO.	001015	DWG. NO.	C-SA1



**APPENDIX I**  
**CORRESPONDANCE**

**PUBLIC NOTICE**  
**Act 537 Plan Revision**

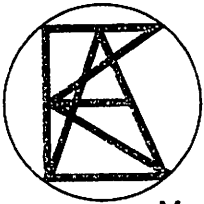
Jefferson Township, Lackawanna County, has prepared an Act 537 Official Plan Update Revision. The Plan Update Revision will be submitted to the Pennsylvania Department of Environmental Protection, Bureau of Water Quality Management, as required by Act 537.

The Plan Update Revision has been prepared to update the Plan approved by the Pennsylvania Department of Environmental Protection in 2002, in order to expand the existing central sanitary sewer service area. Two extensions are proposed in this plan. The first extension will be along State Route 348 and Pump House Road. The service area will include approximately 217 EDU's on S.R. 348, Old Mill Road, Pump House Road, and Log Cabin Road. The second extension will be along Cortez Road (State Route 2003). The service area will include approximately 79 EDU's on Cortez Road, Harkins's Road, Keating Road, and Harmony Drive. The sanitary sewers would connect to the existing central sewer system; sewage would be transported through the existing sewer system to the Lackawanna River Basin Sewer Authority treatment system.

The capital cost of implementing the project is estimated to be approximately \$4,553,676. Connection fees of \$3,500 per equivalent dwelling unit (EDU) will be charged. Annual operating costs are anticipated to be \$600 per EDU. (These fees are contingent upon receiving PENNVEST funding).

A copy of the Plan is available for inspection, and written public comments will be accepted at the Jefferson Township Building, 487 Cortez Road, Mount Cobb, PA 18436 for a period of thirty (30) days after the publication of this notice. The Plan Update Revision will be adopted at a public meeting of the Jefferson Township Board of Supervisors on July 5, 2005 at 7:30 p.m. in the Jefferson Township Municipal Building, Cortez Road, Mount Cobb, PA.

Coleen Watt,  
Secretary



# Acker Associates, Inc.

P.O. Box 899 - Moscow, PA 18444 - Phone 570-842-9721  
Fax 570-842-7537

*Consulting Engineers*

May 28, 2005

Lackawanna County  
Board of Commissioners  
200 Adams Avenue  
Scranton, PA 18503

**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

Dear Commissioners:

This municipal notice is to inform you that Jefferson Township in conjunction with the Jefferson Township Sewer Authority is submitting an Act 537 Official Plan Update Revision for submission and approval by the Pennsylvania Department of Environmental Protection (DEP):

**Applicant Contact:** Jefferson Township, 487 Cortez Road, Lake Ariel, PA 18436, (570) 689- 9522

**Project Location:** 1) S.R. 348 from Hitchcock Road East to the Township Border including Old Mill Road, Pump House Road, and Log Cabin Road; 2) Cortez Road from the existing sanitary sewer system approximately 8,500 feet to the North including Harkins's Lane, Hitchcock Road, Keating Road, and Harmony Drive.

**Project Description:** The Official Act 537 Plan Update Revision will update the Plan approved by the Pennsylvania Department of Environmental Protection (PADEP) in 2002, in order to expand the existing central sanitary sewer system service area.

Acts 67, 68, and 127 of 2000 which amended the Municipalities Planning Code (MPC) to direct state agencies to consider comprehensive plans and zoning ordinances when reviewing applications for permitting of facilities or infrastructure, and specify that state agencies may rely upon comprehensive plans and zoning ordinances under certain conditions as described in Sections 619.2 and 1105 of the MPC.

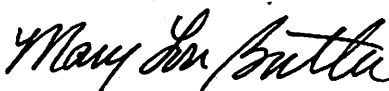
Enclosed is a complete copy of the Act 537 Official Plan Update Revision. PADEP invites you to review the attached Plan, and comment on the accuracy of answers provided with regard to land use aspects of this project; please be



specific to PADEP and focus on relationship to zoning ordinances. If you wish to submit comments to DEP to become part of a land use review of this project, you must respond within 30 days to the DEP Northeast Regional Office, 2 Public Square, Wilkes-Barre, Pennsylvania 18711. If there are no land use comments received by the end of the comment period, DEP will assume that there are no substantive land use conflicts and proceed with the normal application review process.

For more information on Growing Smarter, you may visit the DEP web site at [www.dep.state.pa.us](http://www.dep.state.pa.us) (DirectLINK: Land Use Reviews).

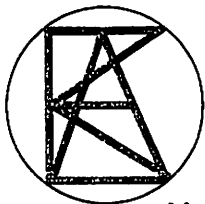
Sincerely,

A handwritten signature in cursive script that reads "Mary Louise Butler".

Mary Louise Butler, PE  
Acker Associates, Inc.

Enclosure

Copy: Jefferson Township Supervisors  
Jefferson Township Sewer Authority



# Acker Associates, Inc.

P.O. Box 899 - Moscow, PA 18444 - Phone 570-842-9721  
Fax 570-842-7537

*Consulting Engineers*

May 28, 2005

Harry Lindsay  
Lackawanna County  
Regional Planning Commission  
200 Adams Avenue  
Scranton, PA 18503

**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

Dear Mr. Lindsay:

This municipal notice is to inform you that Jefferson Township in conjunction with the Jefferson Township Sewer Authority is submitting an Act 537 Official Plan Update Revision for submission and approval by the Pennsylvania Department of Environmental Protection (DEP):

**Applicant Contact:** Jefferson Township, 487 Cortez Road, Lake Ariel, PA 18436, (570) 689- 9522

**Project Location:** 1) S.R. 348 from Hitchcock Road East to the Township Border including Old Mill Road, Pump House Road, and Log Cabin Road; 2) Cortez Road from the existing sanitary sewer system approximately 8,500 feet to the North including Harkins's Lane, Hitchcock Road, Keating Road, and Harmony Drive.

**Project Description:** The Official Act 537 Plan Update Revision will update the Plan approved by the Pennsylvania Department of Environmental Protection (PADEP) in 2002, in order to expand the existing central sanitary sewer system service area.

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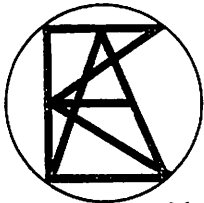
Sincerely,

A handwritten signature in cursive script that reads "Mary Louise Butler".

Mary Louise Butler, PE  
Acker Associates, Inc.

Enclosure

Copy: Jefferson Township Supervisors  
Jefferson Township Sewer Authority



# Acker Associates, Inc.

P.O. Box 899 - Moscow, PA 18444 - Phone 570-842-9721  
Fax 570-842-7537

*Consulting Engineers*

May 28, 2005

Jefferson Township  
Planning Commission  
487 Cortez Road  
Lake Ariel, PA 18436

**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

Dear Planning Commission Members:

This municipal notice is to inform you that Jefferson Township in conjunction with the Jefferson Township Sewer Authority is submitting an Act 537 Official Plan Update Revision for submission and approval by the Pennsylvania Department of Environmental Protection (DEP):

**Applicant Contact:** Jefferson Township, 487 Cortez Road, Lake Ariel, PA 18436, (570) 689- 9522

**Project Location:** 1) S.R. 348 from Hitchcock Road East to the Township Border including Old Mill Road, Pump House Road, and Log Cabin Road; 2) Cortez Road from the existing sanitary sewer system approximately 8,500 feet to the North including Harkins's Lane, Hitchcock Road, Keating Road, and Harmony Drive.

**Project Description:** The Official Act 537 Plan Update Revision will update the Plan approved by the Pennsylvania Department of Environmental Protection (PADEP) in 2002, in order to expand the existing central sanitary sewer system service area.

Acts 67, 68, and 127 of 2000 which amended the Municipalities Planning Code (MPC) to direct state agencies to consider comprehensive plans and zoning ordinances when reviewing applications for permitting of facilities or infrastructure, and specify that state agencies may rely upon comprehensive plans and zoning ordinances under certain conditions as described in Sections 619.2 and 1105 of the MPC.

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Sincerely,

A handwritten signature in cursive script, reading "Mary Louise Butler".

Mary Louise Butler, PE  
Acker Associates, Inc.

Enclosure

Copy: Jefferson Township Supervisors  
Jefferson Township Sewer Authority



## Request to Initiate Consultation under the State History Code and Section 106 of the National Historic Preservation Act

<b>APPLICANT INFORMATION</b> (print neatly, this will be used in the return envelope)			
Applicant Name <u>JEFFERSON Township</u>			
Street Address <u>487 CORTEZ ROAD</u>			
City	<u>LAKE ARIZ</u>	State	<u>PA</u> Zip <u>18436</u>
Phone Number <u>(570) 689-9522</u>			
<b>CONTACT PERSON TO RECEIVE RESPONSE</b> (if applicable) (print neatly, this will be used in the return envelope)			
Name/Company <u>MARY Louise Butler, P.E. / ACKER Associates, Inc.</u>			
Street Address <u>P.O. Box 899</u>			
City	<u>MOSCOW</u>	State	<u>PA</u> Zip <u>18444</u>
Phone Number <u>(570) 842-9721</u>			
<b>PROJECT INFORMATION</b>			
Project Title <u>JEFFERSON Township Sanitary SEWER Extension</u>			
Project Location and/address <u>Area 1) S.R 348 and Pump House Road Area 2) Cortez Road</u>			
Municipality	<u>JEFFERSON Township</u>	County Name	<u>LACKAWANNA</u>
If this project was ever reviewed before, include previous ER# _____			
<input checked="" type="checkbox"/> Attach a 7.5' U.S.G.S. Map indicating the defined project boundary and APE of the proposed activity. (see back)			
<b>PROJECT TYPE</b> (Check all that apply)			
<b>GOVERNMENT FUNDED?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Specify Agency and/or Program Name Below			
State Agency: <u>PENN VEST</u>		Local: <u>SEWER FEES</u>	
Federal Agency: _____		Other: _____	
<b>AGENCY SPONSORED PROJECT OR ON GOVERNMENT LAND?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Specify Agency and/or Program Name			
State Agency: _____		Local: _____	
Federal Agency: _____		Other: _____	
<b>PERMITS OR APPROVALS REQUIRED?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Specify Agency and Program Name Below			
Anticipated state permits:			
Agency: <u>PADEP</u>		Program: <u>Act 537 Update, NPDES, Part II Permit</u>	
Agency: <u>PADOT</u>		Program: <u>Highway Occupancy Permit</u>	
Anticipated federal permits: <u>NONE</u>			
Agency: _____		Program: _____	
Agency: _____		Program: _____	
<b>AGENCY OFFICE TO RECEIVE RESPONSE</b> (Check all that apply)			
Army Corp of Engineers: <input checked="" type="checkbox"/> Philadelphia <input type="checkbox"/> Baltimore <input type="checkbox"/> Pittsburgh			
DEP Office: <input type="checkbox"/> Central Office		<input checked="" type="checkbox"/> Regional Office: <u>Northeast Regional Office</u>	
<input type="checkbox"/> District Mining Office: _____		<input type="checkbox"/> Oil & Gas Office: _____	
Other: (provide address) _____			

## PROJECT BOUNDARIES AND DESCRIPTION

PROJECTS CANNOT BE PROCESSED WITHOUT THIS INFORMATION

### REQUIRED

- ☒ Attach a 7.5' U.S.G.S. Map *indicating the defined project boundary and the Area of Potential Effect (APE) of the proposed activity*. The Area of Potential Effect should include indirect effects, such as visual and audible impacts. Federal projects must include an explanation of how the APE was determined:

Total acres in the property under review. 6.5

Of this acreage, indicate the total acres of earth disturbance for the proposed activity. 4

Are there any buildings or structures within the project area? ☒ Yes ☐ No Approximate age: 30 years

☐ Attach photographs of any building or structure in the APE over 40 years old. (Historic Resource forms may be requested and can be submitted with this initial request. They are available at <http://www.phmc.state.pa.us/bhp/inventories> )

Is the project located in or adjacent to an historic district? ? ☐ Yes ☒ No Unsure: \_\_\_\_\_

Name of historic district -

**Narrative description of the proposed activity:** (Include nature and extent of all ground disturbing activity and indicate what is to be done to all buildings or structures in the project area. Describe current conditions and any previous land use that may affect the sites integrity.)

- ☒ Attach site map, if available.

In addition, federal agencies must provide:

- ☐ Measures that will be taken to identify consulting parties including Native Americans:
- ☐ Measures that will be taken to notify and involve the public:

**The information on this form is needed to determine whether potential historic or archaeological resources are present. Additional historic information or investigations may be requested to determine the significance of the resources or the effects of the project on those resources. Form and attachments must be submitted by mail. Submissions via e-mail will not be accepted.**

### SIGNATURE BLOCK

Applicant's Signature Paul R. Buttery (CHAIRMAN) Date 5/18/05  
Jefferson Township

### THIS BOX FOR OFFICIAL USE ONLY

- ☐ Based on the information provided by this form and attachments, no historic or archaeological properties will be affected.
- ☐ There may be historic buildings, structures, and/or archaeological resources located in the project area. In our opinion the project as described in this form and attachments should have no effect on these resources. Should you become aware, from any source, that unidentified historic buildings, structures, and or archaeological resources are located at the project site, or that the project activities will have an effect on these properties, the Bureau for Historic Preservation should immediately be contacted.

Kurt W. Carr, Chief \_\_\_\_\_  
Archaeology & Protection Division

Date \_\_\_\_\_

**Project Narrative  
Sanitary Sewer Extension  
Jefferson Township  
Lackawanna County, Pennsylvania**

Jefferson Township proposes to extend their existing central sanitary sewer system. Two extensions are proposed, within this project.

The first extension will be along S.R. 348 and Pump House Road. Sanitary sewers will be constructed approximately 5,000 feet on S.R. 348 and approximately 6,000 feet on Pump House Road. This extension will include gravity sewer, low-pressure sewer, force main and one pump station. The service area will include approximately 117 EDU's on S.R. 348, Old Mill Road, Pump House Road, and Log Cabin Road.

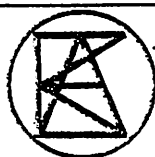
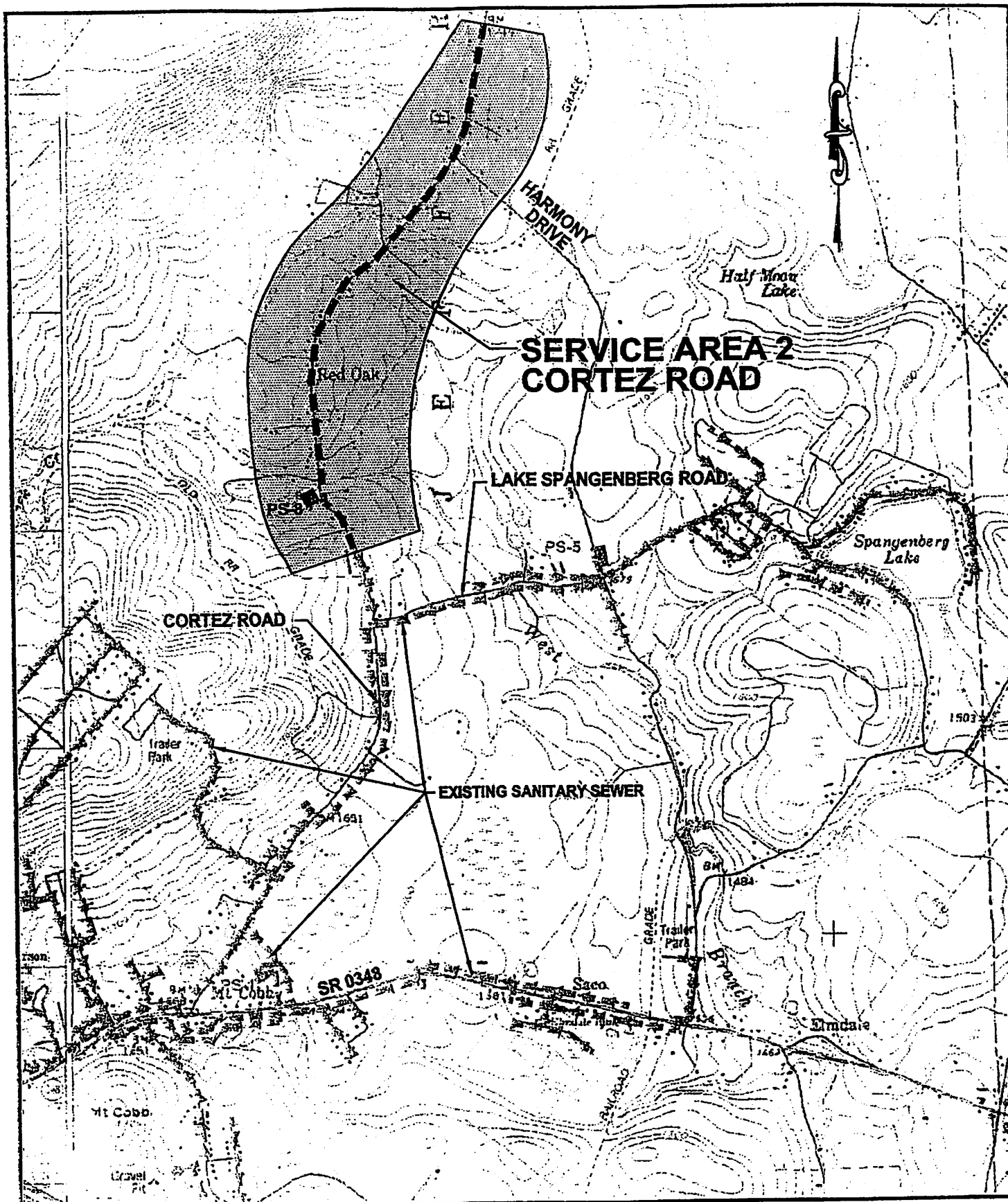
The second extension will be along Cortez Road (S.R. 2003). Sanitary sewer will be constructed approximately 8,500 feet to the North on Cortez Road, from the termination of the existing sanitary sewers recently constructed. This extension will include gravity sewer, low-pressure sewer, force main and one pump station. This service area will include approximately 79 EDU's on Cortez Road, Harkins's Lane, Hitchcock Road, Keating Road and Harmony Drive.

**The estimated project area is 6.5 acres. The estimated disturbed area is 4 acres.**

The proposed sanitary sewer will be located along State and Township Road Right-of-Ways, adjacent to residential and commercial properties. **No buildings will be disturbed by the proposed sewer line.**







**Acker Associates Inc.**

*Consulting Engineers*

P.O. Box 899 - Moscow, PA. - 18444

**JEFFERSON TOWNSHIP SANITARY SEWER EXTENSION PROJECT  
SERVICE AREA 2 (CORTEZ ROAD)**

DRAWN BY	KJS	CHECKED BY	MLB	SCALE	1"=2000'
DATE	12-02-04	JOB NO.	001015	DWG. NO.	C-SA2



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF WATERSHED MANAGEMENT  
BUREAU OF WATERWAYS ENGINEERING

## FOR OFFICIAL USE ONLY

PNDI Screening

Reviewer \_\_\_\_\_

Date \_\_\_\_\_

Phone No. \_\_\_\_\_

**SUPPLEMENT NO. 1**  
**PENNSYLVANIA NATURAL DIVERSITY INVENTORY SEARCH FORM**

This form provides site information necessary to perform a computer screening for species of special concern listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, the Pennsylvania Fish and Boat Code or the PA Game and Wildlife Code. Records regarding species of special concern are maintained by PA DCNR in a computer database called the "Pennsylvania Natural Diversity Inventory" (PNDI). Results from this search are not intended to be a conclusive compilation of all potential special concern resources located within a proposed project site. On-site biological surveys may be recommended to provide a definitive statement on the presence or absence, or degree of natural integrity of any project site. Results of this PNDI search are valid for one year after the initial search or conclusion of coordination with the jurisdictional agency (whichever is later), then a new PNDI coordination process must be initiated, and a new PNDI search is required. The search area should include the entire area that presently or in the future requires a permit or authorization.

Please complete the information below, attach an 8½" x 11" photocopy (DO NOT REDUCE) of the portion of the U.S.G.S. Quadrangle Map that identifies the project location and outlines the approximate boundaries of the project and mail to the appropriate DEP regional office or delegated County Conservation District prior to completing a Chapter 105 environmental assessment or any other DEP permit application. (SEE REVERSE SIDE FOR LIST OF OFFICES AND ADDRESSES).

NAME: Mary Louise Butler, P.E.ADDRESS: Acker Associates, Inc.

PO Box 899

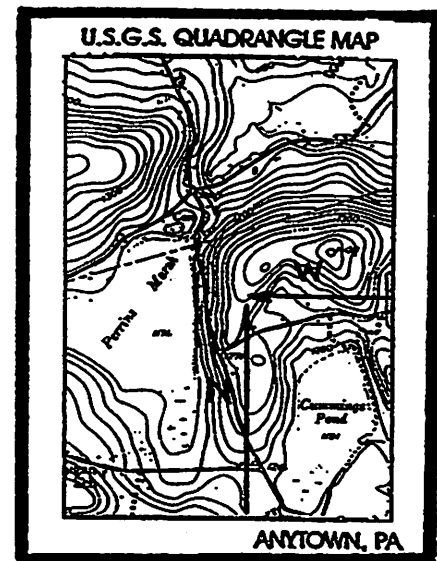
Moscow, PA 18444PHONE: (570 ) 842-9721COUNTY: Lackawanna CountiesMUNICIPALITY: Jefferson Township Township

U.S.G.S. 7½ Minute Quadrangle

Lake Ariel, PA

PROJECT DESCRIPTION AND SIZE (Briefly describe entire area relevant to your project, including acreage.)

Expansion of the existing central sanitary sewer system 1) S.R. 348  
from Hitchcock Road to the Township Border and 2) Cortez Road  
from the existing sanitary sewer North approximately 8,500 feet.



Latitude \_\_\_\_° \_\_\_\_' \_\_\_\_" Longitude \_\_\_\_° \_\_\_\_' \_\_\_\_"

(OR) North (Up) \_\_\_\_\_ See Attached \_\_\_\_\_ inches

West (to the left) \_\_\_\_\_ Sheet \_\_\_\_\_ inches

- INDICATE BY LATITUDE AND LONGITUDE; - OR -
- INDICATE PROJECT LOCATION TO THE NEAREST ONE TENTH INCH MEASURING FROM THE EDGE OF THE MAP IMAGE FROM THE LOWER RIGHT CORNER.

## FOR OFFICIAL USE ONLY

SCREENING RESULTS - Follow the directions of the checked block.

- ☐ No potential conflicts were encountered during the PNDI inquiry. Include this form and the PNDI receipt with your Chapter 105 environmental assessment or other DEP permit application submissions.
- ☐ Potential conflicts must be resolved by contacting the natural resource agencies listed on the PNDI receipt. Please provide a copy of this form and the PNDI receipt along with a brief description of your project to the listed agency for consultation and recommendations. Include this form, the printed PNDI search results and the natural resource agency's written recommendation with your Chapter 105 environmental assessment or other DEP permit

## DELEGATED COUNTY CONSERVATION DISTRICTS

- Adams County  
670 Old Harrisburg Road, Ste. 201  
Gettysburg, PA 17325
- Allegheny County  
Lexington Technology Park  
Bldg 1, Suite 102  
400 N. Lexington St.  
Pittsburgh, PA 15208
- Armstrong Co.  
Armsdale Admin. Bldg.  
124 Armsdale Rd., Suite B-2  
Kittanning, PA 16201
- Beaver County  
1000 Third St., Ste 202  
Beaver, PA 15009-2026
- Bedford County  
Fairlawn Court, Suite 4  
702 W. Pitt Street  
Bedford, PA 15522
- Berks County  
♦ Agricultural Center  
1238 County Welfare Rd.  
P.O. Box 520  
Leesport, PA 19533-0520
- Blair County  
1407 Blair Street  
Hollidaysburg, PA 16648
- Bradford County  
♦ Stoll Natural Res. Center  
RR 5, Box 5030-C  
Towanda, PA 18848
- Bucks County  
924 Town Center  
New Britain, PA 18901-5182
- Butler County  
♦ 122 McCune Drive  
Butler, PA 16001
- Cambria County  
♦ 401 Candlelight Dr., Ste. 221  
Ebensburg, PA 15931
- Cameron County  
20 E. Fifth St., Room 105  
Emporium, PA 15834
- Carbon County  
5664 Interchange Rd.  
Lehighton, PA 18235-5114
- Centre County  
♦ 414 Holmes Ave., Ste. 4  
Belleville, PA 16823
- Chester County  
Government Services Center  
601 Westtown Rd., Ste. 240  
West Chester, PA 19380-0990
- Delegated Programs  
♦ Chapter 105  
\* GP6 and GP9 only  
• NPDES and E&S Permits

- Clarion County  
265 Holiday Inn Rd., Ste. 2  
Clarion, PA 16214
- Clearfield County  
650 Leonard Street  
Clearfield, PA 16830
- Clinton County  
♦ 45 Cooperation Lane  
Mill Hall, PA 17751
- Columbia County  
♦ 702 Sawmill Rd., Suite 204  
Bloomsburg, PA 17815
- Crawford County  
♦ 14699 N. Main St. Ext.  
Meadville, PA 16335-9441
- Cumberland County  
43 Brookwood Ave., Suite 4  
Carlisle, PA 17013-9172
- Dauphin County  
1451 Peters Mountain Road  
Dauphin, PA 17018
- Delaware County  
♦ Rose Tree Park Hunt Club  
1521 N. Providence Rd.  
Media, PA 19063
- Elk County  
♦ Courthouse Annex  
300 Center St.  
Ridgway, PA 15853
- Erie County  
♦ 1927 Wager Road  
Erie, PA 16509
- Fayette County  
10 Nickman Plaza  
Lemont Furnace, PA 15456
- Forest County  
528 Elm St., Box 4  
Tionesta, PA 16353
- Franklin County  
100 Sunset Blvd. W  
Chambersburg, PA 17201
- Fulton County  
216 North Second Street, Ste. 15  
McConnellsburg, PA 17233-1170
- Greene County  
♦ Greene County Office Building  
93 E. High Street, Room 215  
Waynesburg, PA 15370-1839
- Huntingdon County  
♦ RR 1, Box 7C  
Huntingdon, PA 16652-9603
- Indiana County  
♦ USDA Service Ctr.  
1432 Rt. 286, Hwy. E  
Indiana, PA 15701-1467

- Jefferson County  
♦ 1514 Route 28  
Brookville, PA 15825
- Juniata County  
RR 3, Box 302, Smith Road  
Mifflintown, PA 17059-9609
- Lackawanna County  
1300 Old Plank Rd.  
Mayfield, PA 18433
- Lancaster County  
♦ Farm & Home Center, Room 6  
1383 Arcadia Road  
Lancaster, PA 17601-3149
- Lawrence County  
430 Court St.  
New Castle, PA 16101
- Lebanon County  
2120 Cornwall Rd., Ste. 5  
Lebanon, PA 17042-9788
- Lehigh County  
Lehigh Ag. Ctr, Ste 102  
4184 Dorney Park Rd.  
Allentown, PA 18104
- Luzerne County  
485 Smith Pond Rd.  
Shavertown, PA 18708
- Lycoming County  
542 County Farm Rd., Ste. 202  
Montoursville, PA 17754
- McKean County  
995 South Ave., Box E  
Custer City, PA 16725
- Mercer County  
♦ 747 Greenville Rd.  
Mercer, PA 16137-5023
- Mifflin County  
20 Windmill Hill #4  
Burnham, PA 17009
- Monroe County  
♦ 8050 Running Valley Road  
Stroudsburg, PA 18360
- Montgomery County  
143 Level Road  
Collegeville, PA 19426-3313
- Montour County  
♦ 112 Woodbine Lane, Ste. 2  
Danville, PA 17821
- Northampton County  
Greystone Bldg.  
Gracedale Complex  
Nazareth, PA 18064-9211
- Northumberland County  
RR 3, Box 238C  
Sunbury, PA 17801

- Perry County  
31 W. Main Street,  
P.O. Box 36  
New Bloomfield, PA 17068
- Pike County  
♦ HC 8, Box 6770, Route 402  
Hawley, PA 18428
- Potter County  
♦ 107 Market Street  
Coudersport, PA 16915
- Schuylkill County  
1206 Ag. Center Dr.  
Pottsville, PA 17901
- Snyder County  
♦ 403 West Market Street  
Middleburg, PA 17842
- Somerset County  
N. Ridge Bldg., Ste 103  
1590 N. Center Ave.  
Somerset, PA 15501
- Sullivan County  
♦ RR 2, Box 2022B  
Dushore, PA 18614
- Susquehanna County  
♦ County Office Building  
31 Public Avenue  
Montrose, PA 18801
- Tioga County  
♦ 50 Plaza Lane  
Wellsville, PA 16901
- Union County  
♦ 88 Bull Run Crossing, Ste. 5  
Lewisburg, PA 17837
- Venango County  
471 Beach Road  
Franklin, PA 16323
- Warren County  
♦ 609 Rouse Ave., Ste. 203  
Youngsville, PA 16371
- Washington County  
\* 100 W. Beau St., Ste. 602  
Washington, PA 15301
- Wayne County  
♦ 648 Park St.  
Honesdale, PA 18431
- Westmoreland County  
\* 211 Donohoe Road  
Greensburg, PA 15601
- Wyoming County  
1 Hollowcrest Complex  
Tunkhannock, PA 18657
- York County  
118 Pleasant Acres Rd.  
York, PA 17402

## **DEPARTMENT OF ENVIRONMENTAL PROTECTION**

### County Responsibility

Bradford, Cameron, Centre, Clearfield, Clinton, Columbia, Lycoming, Montour, Northumberland, Potter, Snyder, Sullivan, Tioga, and Union

Carbon, Lackawanna, Lehigh, Luzerne, Monroe, Northampton, Pike, Schuylkill, Susquehanna, Wayne, and Wyoming

Butler, Clarion, Crawford, Elk, Erie, Forest, Jefferson, Lawrence, McKean, Mercer, Venango, and Warren

### Soils and Waterways Office

**Southcentral Regional Office**  
909 Elmerton Avenue, Second Floor  
Harrisburg, PA 17110  
(717) 705-4707

**Southeast Regional Office**  
2 East Main Street  
Norristown, PA 19401-4915  
(484) 250-5970

**Southwest Regional Office**  
400 Waterfront Drive  
Pittsburgh, PA 15222-4745  
(412) 442-4000

### County Responsibility

Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry, and York

Bucks, Chester, Delaware, Montgomery, and Philadelphia

Allegheny, Armstrong, Beaver, Cambria, Fayette, Greene, Indiana, Somerset, Washington, and Westmoreland

### Soils and Waterways Office

**Northcentral Regional Office**  
208 W. Third St., Suite 101  
Williamsport, PA 17701  
(570) 327-3574

**Northeast Regional Office**  
2 Public Square  
Wilkes-Barre, PA 18711-0790  
(570) 826-2511

**Northwest Regional Office**  
230 Chestnut Street  
Meadville, PA 16335  
(814) 332-6942

**Jefferson Township  
Act 537 Official Plan Update Revision**

Area 1) State Route 348 from Hitchcock Road East to the Township Border, including Old Mill Road, Pump House Road, and Log Cabin Road.

**S.R. 348 Start:**

Latitude:	41° 24' 14"	Longitude:	75° 27' 56"
North:	6.9 inches	West:	12.5 inches

**S.R. 348 End:**

Latitude:	41° 24' 4"	Longitude:	75° 26' 56"
North:	6.2 inches	West:	10.2 inches

**Pump House Road Start:**

Latitude:	41° 24' 10"	Longitude:	75° 27' 53"
North:	3.7 inches	West:	11.75 inches

**Pump House Road End:**

Latitude:	41° 23' 13"	Longitude:	75° 27' 37"
North:	6.6 inches	West:	12.3 inches

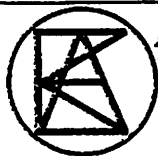
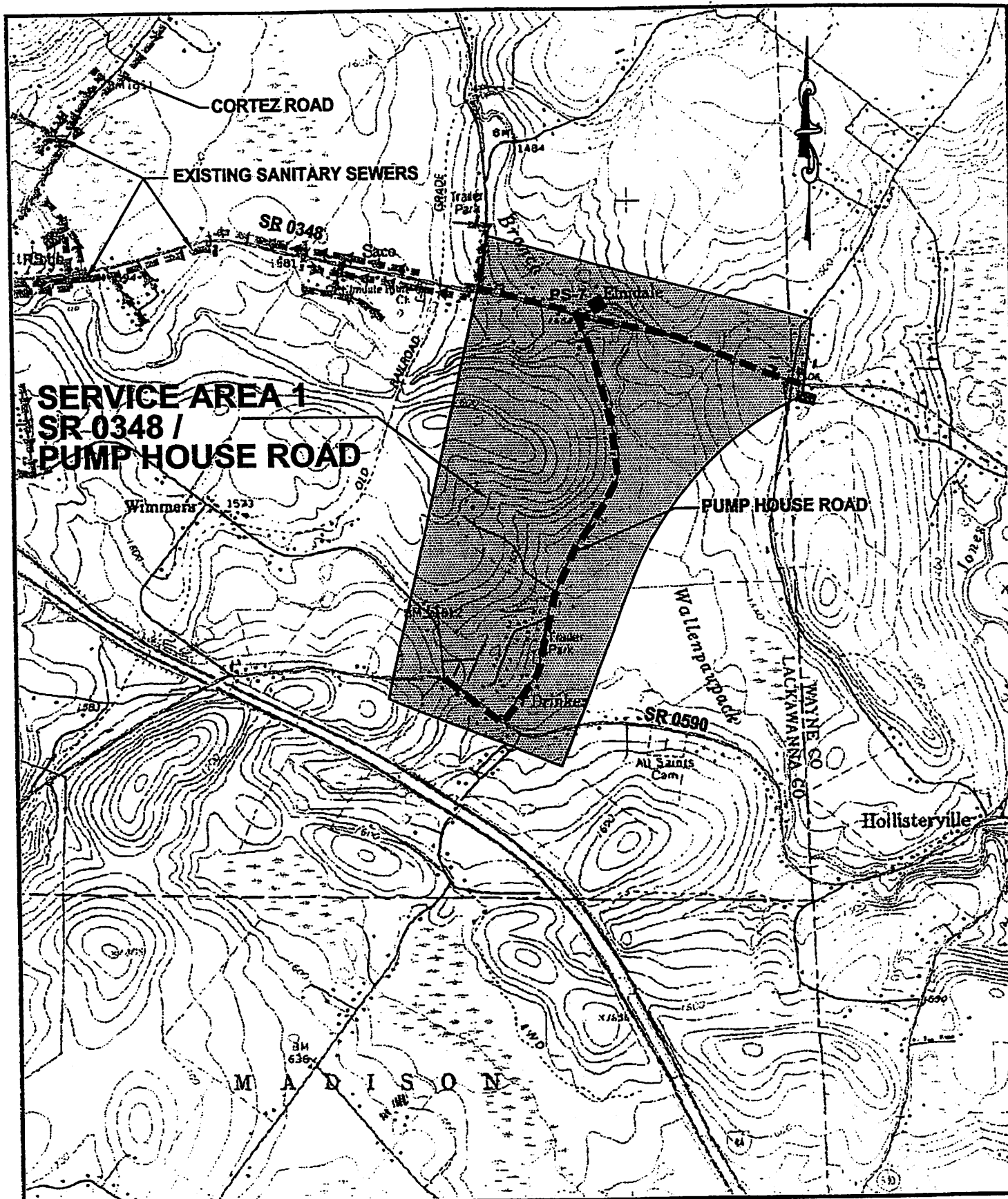
Area 2) Cortez Road from the existing central sanitary sewer system approximately 8,500 feet to the North, including Harkins's Lane, Hitchcock Road, Keating Road, and Harmony Drive.

**Cortez Road (S.R. 2003) Start:**

Latitude:	41° 26' 01"	Longitude:	75° 28' 36"
North:	10.8 inches	West:	15.2 inches

**Cortez Road (S.R. 2003) End:**

Latitude:	41° 27' 10"	Longitude:	75° 29' 06"
North:	14.2 inches	West:	14.1 inches



**Acker Associates Inc.**

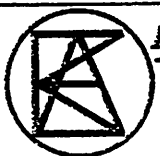
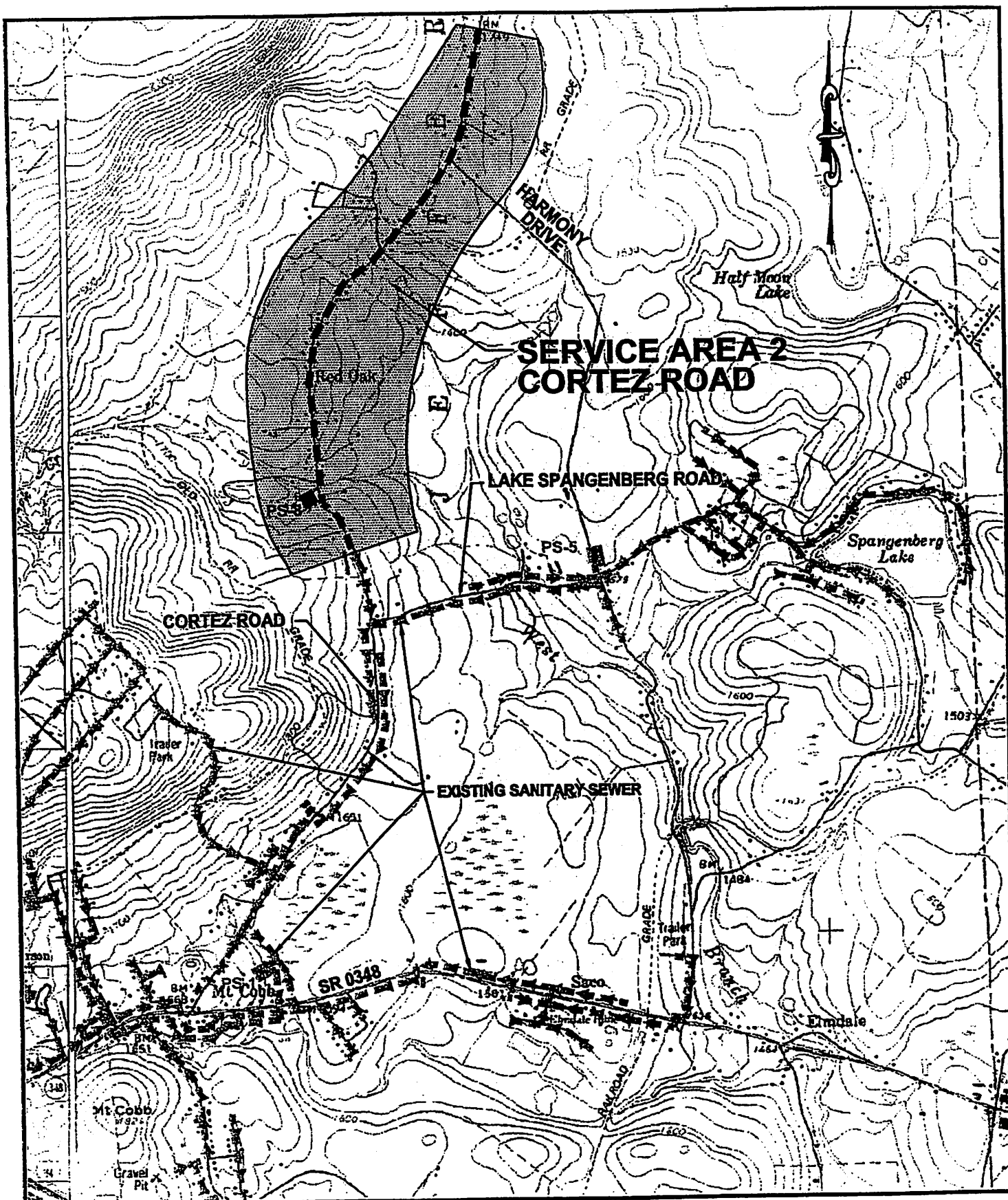
*Consulting Engineers*

P.O. Box 899 - Moscow, PA - 18444

**JEFFERSON TOWNSHIP SANITARY SEWER EXTENSION PROJECT  
SERVICE AREA 1 (SR 0348 / PUMP HOUSE ROAD)**

DRAWN BY	KJS	CHECKED BY	MLB	SCALE	1"=2000'
DATE	12-02-04	JOB NO.	001015	DWG. NO.	C-SA1





**Acker Associates Inc.**

*Consulting Engineers*

P.O. Box 899 - Moscow, PA - 18444

**JEFFERSON TOWNSHIP SANITARY SEWER EXTENSION PROJECT  
SERVICE AREA 2 (CORTEZ ROAD)**

DRAWN BY	KJS	CHECKED BY	MLB	SCALE	1"=2000'
DATE	12-02-04	JOB NO.	001015	DWG. NO.	C-SA2

**APPENDIX J**

**ENVIRONMENTAL ASSESSMENT**

**FOR**

**JEFFERSON TOWNSHIP**

**ACT 537 OFFICIAL PLAN UPDATE REVISION**



**ENVIRONMENTAL ASSESSMENT  
FOR  
JEFFERSON TOWNSHIP  
ACT 537 OFFICIAL PLAN UPDATE REVISION**

**May 2005**

**Prepared for**

**Jefferson Township  
487 Cortez Road, Mount Cobb  
Lake Ariel, Pennsylvania 18436**

**Prepared by**

**Acker Associates, Inc.  
P.O. Box 899  
Moscow, Pennsylvania 18444**

**ENVIRONMENTAL ASSESSMENT  
FOR JEFFERSON TOWNSHIP  
SANITARY SEWER EXTENSION PROJECT**

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**ENVIRONMENTAL ASSESSMENT  
FOR JEFFERSON TOWNSHIP ACT 537 OFFICIAL PLAN UPDATE REVISION  
SANITARY SEWER EXTENSION PROJECT**

This document describes the purpose, need, environmental setting and environmental effects of constructing the proposed Jefferson Township Sewer Authority sewer line extension. The proposed project area location maps are located in Appendix A of the Act 537 Official Update Revision, May 2005.

## **1.0 PROJECT DESCRIPTION AND NEED**

### **1.1 Purpose and Need**

The *purpose* of the proposed sanitary sewer extensions is to convey sewage generated in the proposed service areas of Jefferson Township to the Lackawanna River Basin Sewer Authority wastewater treatment plant in Throop for treatment, via the existing central sewer system. Alternatives are described in the Jefferson Township Act 537 Official Update Revision Wastewater Facilities Plan, May 2005.

The *need* for the proposed Jefferson Township Sewer Authority project is also documented in the Jefferson Township Act 537 Official Plan Update Revision, May 2005. The proposed sewer project extension is needed to address environmental concerns of the large number of malfunctioning on-lot systems within these areas of the Township. The Act 537 Plan Update Revision documents that soils and topography in most of the township are unsuitable for traditional on-lot systems. The sanitary sewer extension is *needed* to provide a low cost conveyance system that minimizes adverse environmental impacts.

### **1.2 Project Description**

Jefferson Township proposes to extend their existing central sanitary sewer system. Two extensions are proposed within this project.

The first extension will be along State Route 348 and Pump House Road. Sanitary sewers will be constructed approximately 5,000 feet on S.R. 348 and approximately 6,000 feet on Pump House Road. The extension will include gravity sewer, low-pressure sewer, force main and one pump station. The service area will include approximately 217 EDU's on S.R. 348, Old Mill Road, Pump House Road, Log Cabin Road and Evergreen Mobile Home Park.

The second extension will be along Cortez Road (State Route 2003). Sanitary sewer will be constructed approximately 8,500 feet to the North on Cortez Road, from the termination of the existing sanitary sewers recently constructed. The extension will include gravity sewer, low-pressure sewer, force main and one pump station. The service area will include approximately 79 EDU's on Cortez Road, Harkins's Lane, Hitchcock Road, Keating Road, and Harmony Drive.

The alignments of the sanitary sewer extensions will be along State and Township Road Right-of-Ways, adjacent to residential and commercial properties.

## **2.0 SUMMARY OF REASONABLE ALTERNATIVES CONSIDERED**

### **2.1 Alternatives Considered**

As documented in the May 2005 Act 537 Official Plan Update Revision, there are only two feasible alternatives, the extension of the existing central sanitary sewer system and the no action alternative.

#### **Alternative 1 – Extension of the Existing Central Sewer System**

In this alternative the existing central sewer system will be extended into the two proposed study areas. Construction of low-pressure and gravity sewers, two pumping stations and force mains would be constructed. The existing sanitary sewer system would be utilized to transport sewage from the borders of the study areas to the Lackawanna River Basin Sewer Authority for treatment.

#### **Alternative 2 – No Action**

The no action or no project alternative represents a commitment to the existing wastewater management system within the study areas. Under this alternative conventional on-lot sewage disposal systems would continue to be the method of sewage disposal for both existing and future residential and commercial developments.

The Present Worth Analysis of the central sanitary sewer extension is presented in Table 10 of the Act 537 Official Plan Update Revision, May 2005.

### **2.2 Comparison of Alternatives**

Alternative 1 – Extension of the central sanitary sewer system is the preferred alternative. The extensions are the most feasible alternative. Capacity was provided for in the existing sewer system facilities to accommodate the minor expansion of the system. This alternative also has minimal adverse environmental effects.

#### **Alternative 1 – Extension of the Existing Central Sewer System**

The previously approved plan recommended that some action be taken to eliminate the detrimental impact caused by malfunctioning and failed on-lot sewage disposal systems in the study areas. With the recent completion and operation of the central sewer system in Jefferson Township the only feasible alternative is the extension of the existing central sanitary sewer system.

The present worth for the proposed sewer extensions is \$ 5,187,732, and therefore the present worth of this proposed project per EDU is \$ 17,526.12. The present worth per EDU for the previously approved (2001) plan was \$ 19,736.77.

## **Alternative 2 – No Action**

The existing conditions including soil suitability, topography and geology, in the study areas are unsuitable for the continued use of on-lot disposal systems. The existing systems are incapable of providing adequate sewage treatment. The result is hydraulically overloaded soil absorption fields which discharge partially treated and untreated sewage effluent to the surface and nearby waterways.

These conditions cannot continue therefore this is not the preferred alternative.

## **3.0 ENVIRONMENTAL CONSEQUENCES OF THE PROJECT**

The following factors were evaluated with respect to potential environmental impacts. The long-term beneficial impacts of reduced health hazards and improved water quality in the Jefferson Township greatly outweigh any adverse effects. A brief description of each factor is presented.

### **3.1 Land Use / Important Farmland / Formally Classified Lands**

#### **Land Use**

There are three types of current land use of the properties where the sewer line will be constructed: residential, commercial, and agricultural.

The proposed sanitary sewer line alignment will be located along State and Township Road Right-of-Ways adjacent to residential and commercial uses.

Two municipal planning agencies (Lackawanna County Regional Planning Commission and Jefferson Township Planning Commission) as well as the Lackawanna County Commissioners were contacted to confirm that the amended plan was consistent with the municipalities' ongoing planning efforts. Jefferson Township does not have an existing municipal comprehensive land use plan. No comments were provided to Jefferson Township by the Lackawanna County Commissioners nor either of the planning commissions. Correspondence to the municipalities and planning commissions requesting their review and comment on the plan are included in Appendix I of the Act 537 Plan Update Revision, May 2005.

#### **Important Farmlands**

According to the U. S. Department of Agriculture (USDA), the project area contains no prime farmlands. A copy of the USDA soils maps for the project area is included as Exhibit 6.1. Correspondence from the USDA is included as Exhibit 6.2.

#### **Formally Classified Lands**

There are no national, state, or local parks in the vicinity of the proposed sanitary sewer extensions. State Game Lands No. 300 is in the vicinity but is 1 mile from the proposed project site, Area 2. State Game Lands No. 310 is in the vicinity but is greater than 1 mile from either of the proposed sanitary sewer extensions. Therefore, there will be no impacts to

the game lands. A map displaying the distance between the proposed site and the state game lands is included as Exhibit 6.3.

### **3.2 Floodplains**

According to the Federal Emergency Management Agency "Floodway Flood Boundary and Floodway Map" for Jefferson Township, Community Panel Numbers 422457 0002 and 422457 0003, dated June 13, 1980, the only location where the proposed project will impact a floodway is where the sewer line will cross the West Branch of Wallenpaupack Creek. A copy of the FEMA mapping is included as Exhibit 6.4.

A General Permit BDWM-GP-5 "Utility Line Stream Crossing" will be obtained from the Pennsylvania Department of Environmental Protection (PADEP) for the crossing(s) of the West Branch of Wallenpaupack Creek floodplain.

### **3.3 Wetlands**

The proposed alignment of the sanitary sewer extension will be investigated by a qualified wetlands specialist to determine whether wetlands are present within the proposed construction areas of the selected alternative. A copy of the U.S. Fish and Wildlife Service National Wetlands Inventory map for the project area is included in the Appendix F of the Act 537 Official Plan Update Revision, May 2005.

### **3.4 Historic Resources**

The Pennsylvania Historical and Museum Commission (PHMC), as the State Historic Preservation Officer for Pennsylvania was contacted regarding the proposed project. In the PHMC response letter dated \_\_\_\_\_ (attached in Appendix I of the Act 537 Official Plan Update Revision), the PHMC stated the Commission had reviewed the project in accordance with Section 106 of the National Historic Preservation Act and regulations of the Advisory Council on Historic Preservation and determined there are no National Register eligible or listed historic or archaeological properties in the area of the proposed project.

### **3.5 Sensitive Biological Resources**

A search of the Pennsylvania Natural Diversity Index (PNDI) was requested to determine the presence of Pennsylvania listed species. The \_\_\_\_\_ PNDI response correspondence (attached in Appendix I of the Act 537 Official Plan Update Revision, May 2005) reported that PNDI records indicated no occurrences of species of special concern are known to exist within the project area.

### **3.6 Water Quality Issues**

The proposed project will have no long-term adverse impacts on surface or groundwater quality. The short-term impacts to surface water quality will be addressed in the erosion and sedimentation section of the proposed project. There will be no short-term impacts to the groundwater quality because the depth of the construction will not reach the water table.

The proposed project will provide beneficial impacts to water quality in Jefferson Township by addressing malfunctioning on-lot sewer systems.

No storm water will be allowed to be discharged into the proposed sanitary sewer lines.

The proposed project is not located within a sole-source aquifer recharge area.

### **3.7 Coastal Resources**

The project is located in northeastern Pennsylvania, which is not included in the state's Coastal Zone Management Program.

### **3.8 Socio-Economic Resources**

The proposed installation of sewer lines will not impose any adverse effects on minority and/or low-income populations.

### **3.9 Air Quality**

No significant adverse impacts to air quality will occur as a result of the proposed project. However, initial minor, short-term, and localized direct impacts to air quality may occur during site preparation and construction. These impacts would occur in the form of dust and exhaust emissions from construction vehicles, trucks, and other heavy equipment. Potential impacts will be reduced through sensitive site design, dust control measures, exhaust emission controls, and traffic control.

### **3.10 Transportation**

The proposed project will not result in any long-term changes in transportation routes. Short-term adverse impacts related to construction related lane closures will be mitigated through the implementation of Maintenance and Protection of Traffic components of the Department of Transportation Highway Occupancy Permit.

### **3.11 Noise Abatement and Control**

The noise level of the construction will have no long-term adverse impact on the residents. Short-term noise impacts related to noise from construction vehicles will be mitigated through the enforcement of work-hour limitation and the use of properly mufflerized construction equipment.

### **3.12 Wild and Scenic Rivers**

The sanitary sewer extensions will be located in the Delaware River watershed. The Delaware River is not designated a Wild and Scenic river nor is it listed in the National Rivers Inventory.

### **3.13 Miscellaneous Environmental Considerations**

There will be no impact from Superfund/HSCA sites. There are no Superfund/HSCA sites within a mile of the proposed project area. Information regarding the local Superfund/HSCA sites downloaded from the EPA website is attached as Exhibit 6.5.

### **4.0 SUMMARY OF MITIGATION**

The only adverse impacts identified are construction related. The adverse impacts and proposed mitigation efforts are summarized below:

- 1) The project will increase ambient noise levels due to equipment operation, but the noise will be intermittent. Enforcing work-hour limitation and using properly mufflerized construction equipment will mitigate the noise.
- 2) Degradation of local air quality during construction will be limited by enforcing dust control measures, ensuring that equipment is running properly and not allowing burning of debris.
- 3) Soil erosion and water quality impacts during construction will be mitigated by implementation of the soil and erosion control plan.
- 4) Short-term adverse impacts related to construction -related lane closures will be mitigated through the implementation of Maintenance and Protection of traffic components of the Department of Transportation Highway Occupancy Permit

### **5.0 PUBLIC PARTICIPATION**

The public was able to participate in the Act 537 Official Plan Update Revision. Jefferson Township placed a Public Notice of the Act 537 Official Plan Revision Update in the Scranton Tribune/Scranton Times on June 1, 2005. The public notice, attached in Appendix I of the Act 537 Official Plan Update Revision, informed the public that the Plan Update Revision provides for the extension of the existing sanitary sewer system in Jefferson Township. The capital costs of the project, the connection costs per Equivalent Dwelling Unit (EDU) and annual operating costs per EDU were also included in the Public Notice.

The Public Notice also informed the public that a copy of the draft Act 537 Official Plan Update Revision was available for inspection at the Township Office. The Public Notice also announced that a Public Meeting of the Jefferson Township supervisors would be held on July 5, 2005 for the purpose of discussing and approving the Plan Update Revision.

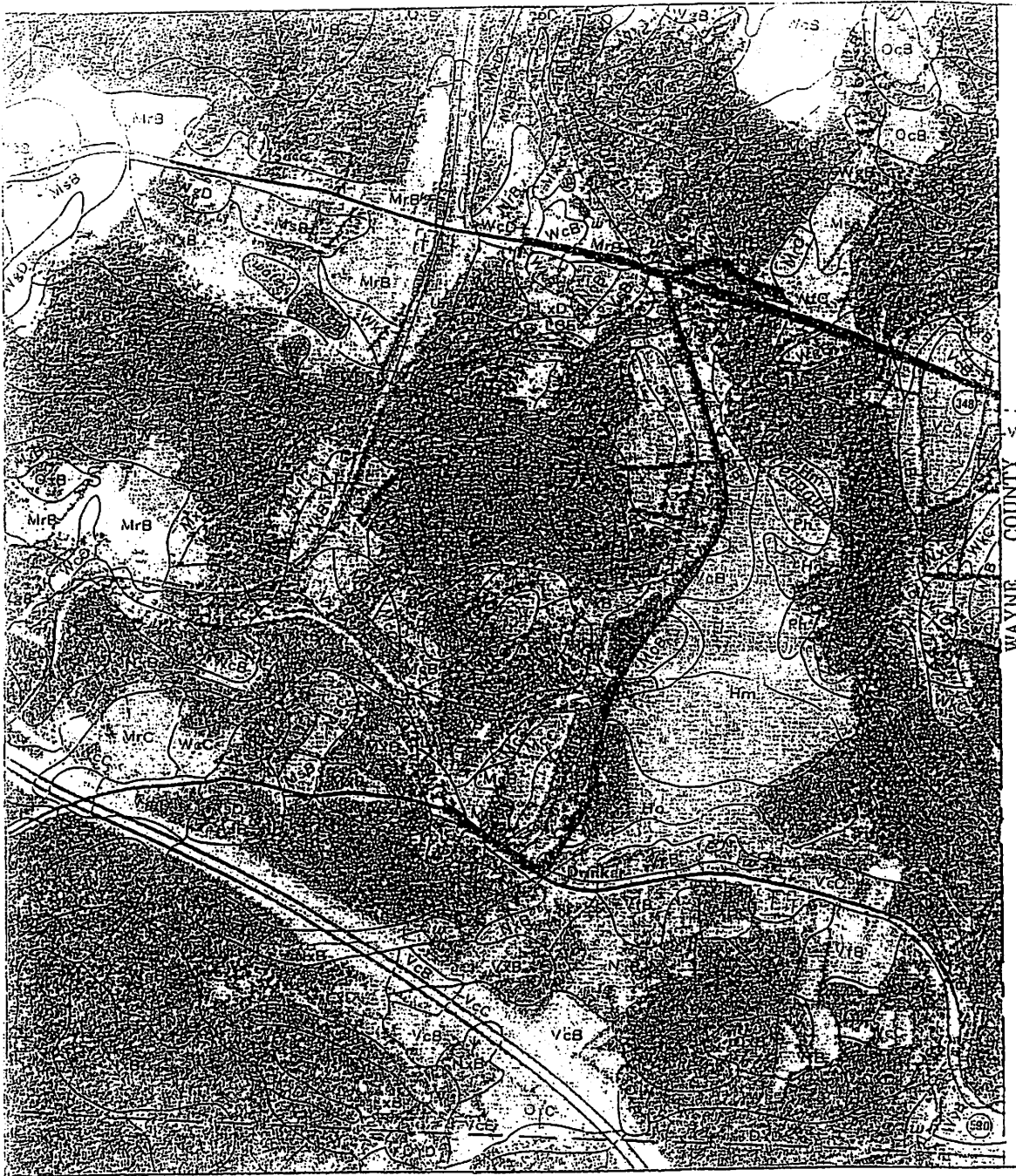
### **6.0 EXHIBITS**

- 6.1 U.S. Department of Agriculture Soils Map
- 6.2 U.S. Department of Agriculture Correspondence
- 6.3 Map of State Game Lands No.'s 300 and 310
- 6.4 FEMA Map
- 6.5 Pennsylvania Superfund Information



## Exhibit 6.1

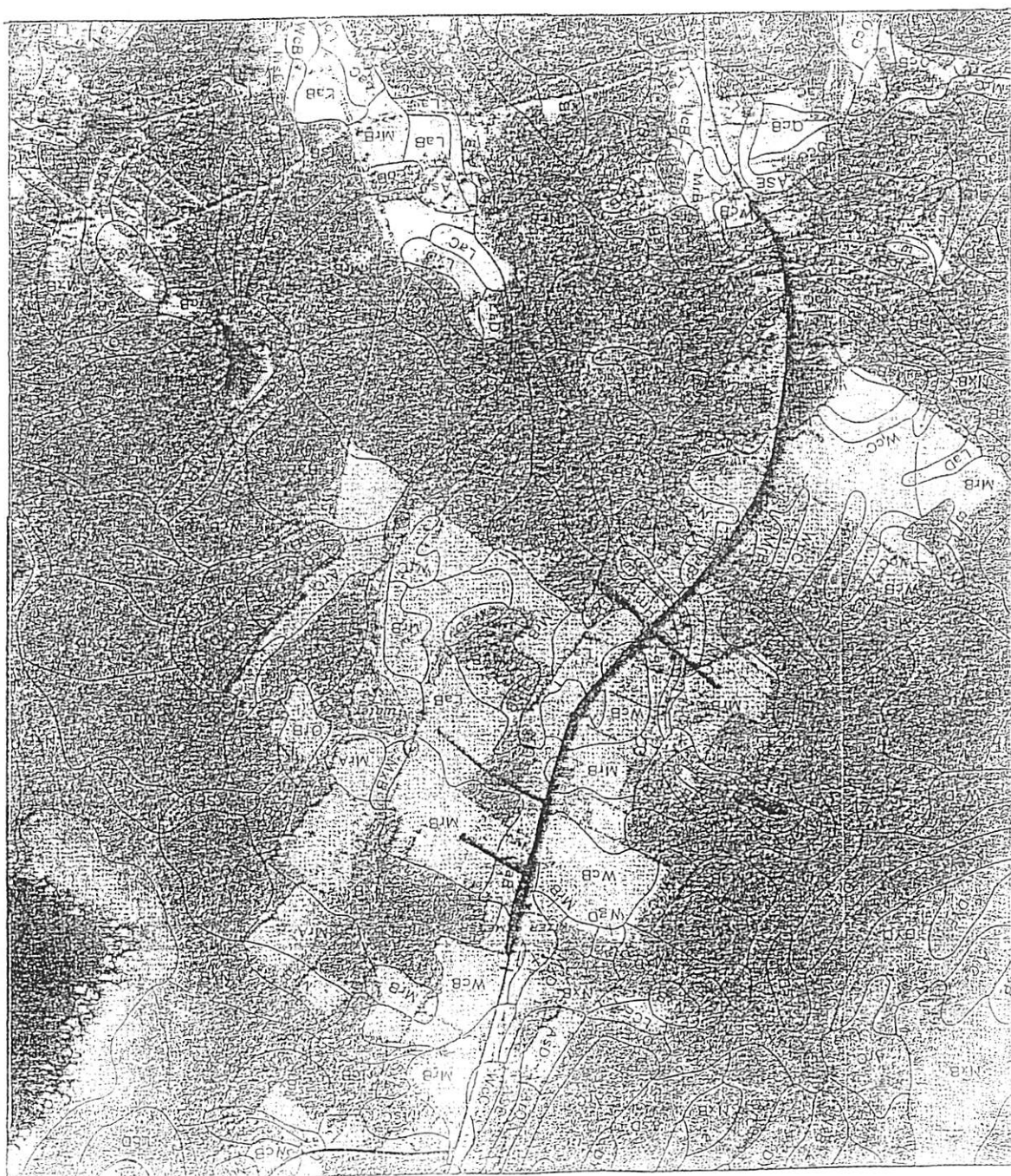
# U.S. Department of Agriculture Soils Map



## SOILS MAP

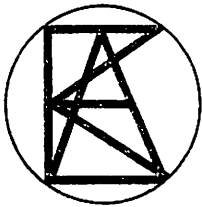
JEFFERSON TOWNSHIP SANITARY SEWER EXTENSION PROJECT  
SERVICE AREA 1 (SR 03-45 / PUMP HOUSE ROAD)

SOILS MAP



## Exhibit 6.2

# U.S. Department of Agriculture Correspondence



# Acker Associates, Inc.

P.O. Box 899 - Moscow, PA 18444 - Phone 570-842-9721  
Fax 570-842-7537

*Consulting Engineers*

May 31, 2005

Edward Sokoloski  
Natural Resources Conservation Service  
U. S. Department of Agriculture  
1300 Old Plank Road  
Mayfield PA 18434

Re: Prime Farmlands  
Jefferson Township, Lackawanna County, Pennsylvania

Dear Mr. Sokoloski:

Jefferson Township is proposing two extensions to the existing central sanitary sewer system. The purpose of this infrastructure improvement will be to provide sanitary sewer service to properties with existing on-lot sewage disposal systems, many of which are malfunctioning. The proposed sanitary sewer extensions are shown on the attached portions of the USGS topographic map.

The first extension will be along State Route 348 and Pump House Road. Sanitary sewers will be constructed approximately 5,000 feet on S.R. 348 and approximately 6,000 feet on Pump House Road. The extension will include gravity sewer, low-pressure sewer, force main and one pump station. The service area will include approximately 217 EDU's on S.R. 348, Old Mill Road, Pump House Road, Log Cabin Road and Evergreen Mobile Home Park.

The second extension will be along Cortez Road (State Route 2003). Sanitary sewer will be constructed approximately 8,500 feet to the North on Cortez Road, from the termination of the existing sanitary sewers recently constructed. The extension will include gravity sewer, low-pressure sewer, force main and one pump station. The service area will include approximately 79 EDU's on Cortez Road, Harkins's Lane, Hitchcock Road, Keating Road, and Harmony Drive.

The alignments of the sanitary sewer extensions will be along State and Township Road Right-of-Ways, adjacent to residential and commercial properties.

I have transferred the proposed sewer line route to Sheet Numbers 44 and 53 from the U. S. Department of Agriculture Soil Survey of Lackawanna and Wyoming Counties, Pennsylvania. It appears that the proposed route will encounter the following soil series:

Lackawanna	Slow permeability; seasonal high water table
Morris	Slow permeability; seasonal high water table; poor drainage characteristics
Volusia	Slow to very slow permeability; extremely stony surface; seasonal high water table; severe water wetness
Wellsboro	Slow permeability; subsoil frangipan @ 15" – 26"; seasonal high water table @ 18" – 36".
Wurtsboro	Slow to very slow permeability; extremely stony surface; seasonal high water table.

**I am requesting that you review the attached maps to determine if the proposed route will impact any prime farmlands. Your findings will be incorporated into an Environmental Assessment that will be submitted to the Pennsylvania Department of Environmental Protection.**

Thank you for considering this request. If you have any questions, please call me at 570-842-9721.

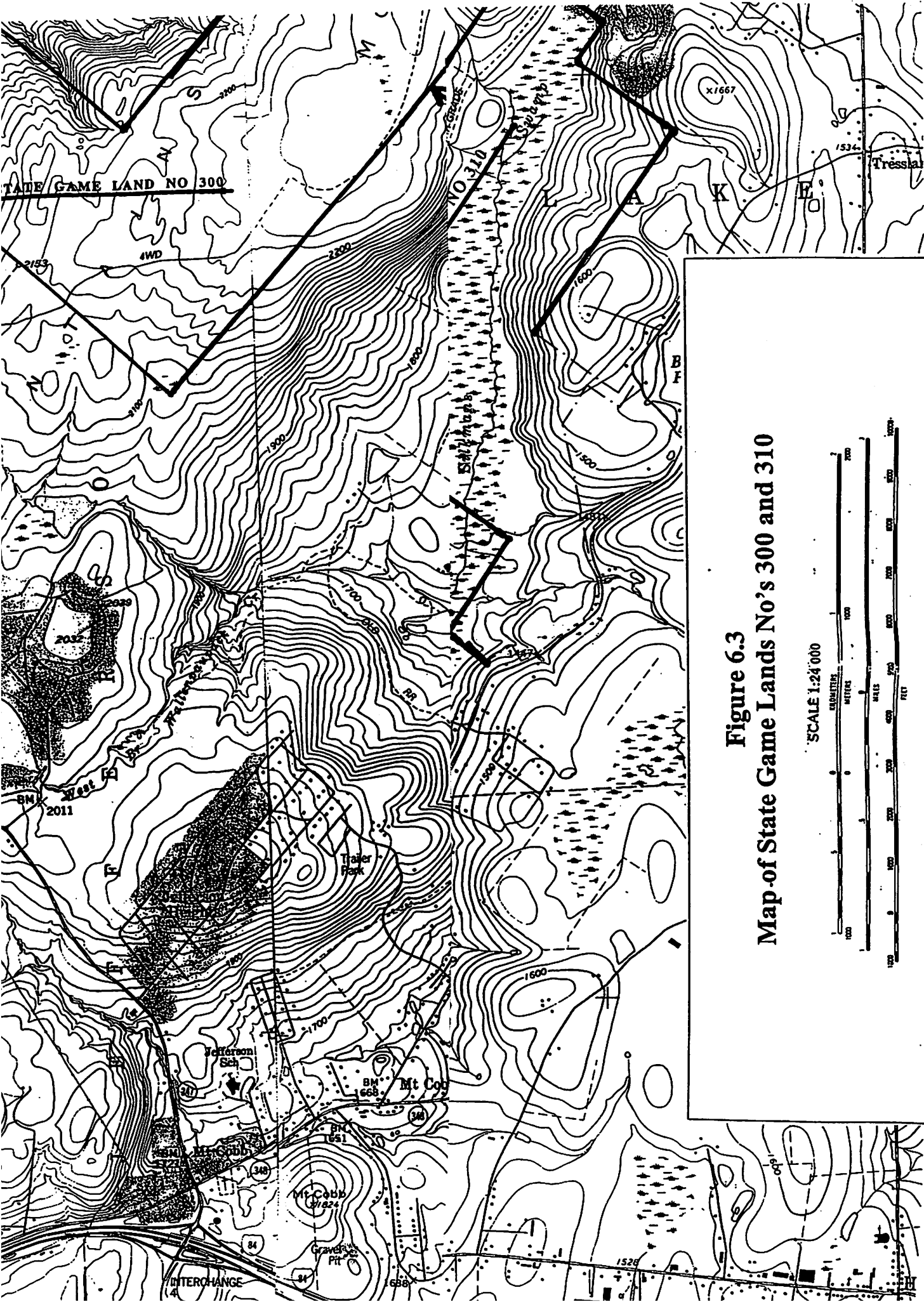
Sincerely,



Mary Louise Butler, P.E.  
*Acker Associates, Inc.*

## Exhibit 6.3

### Map of State Game Lands No.'s 300 and 310

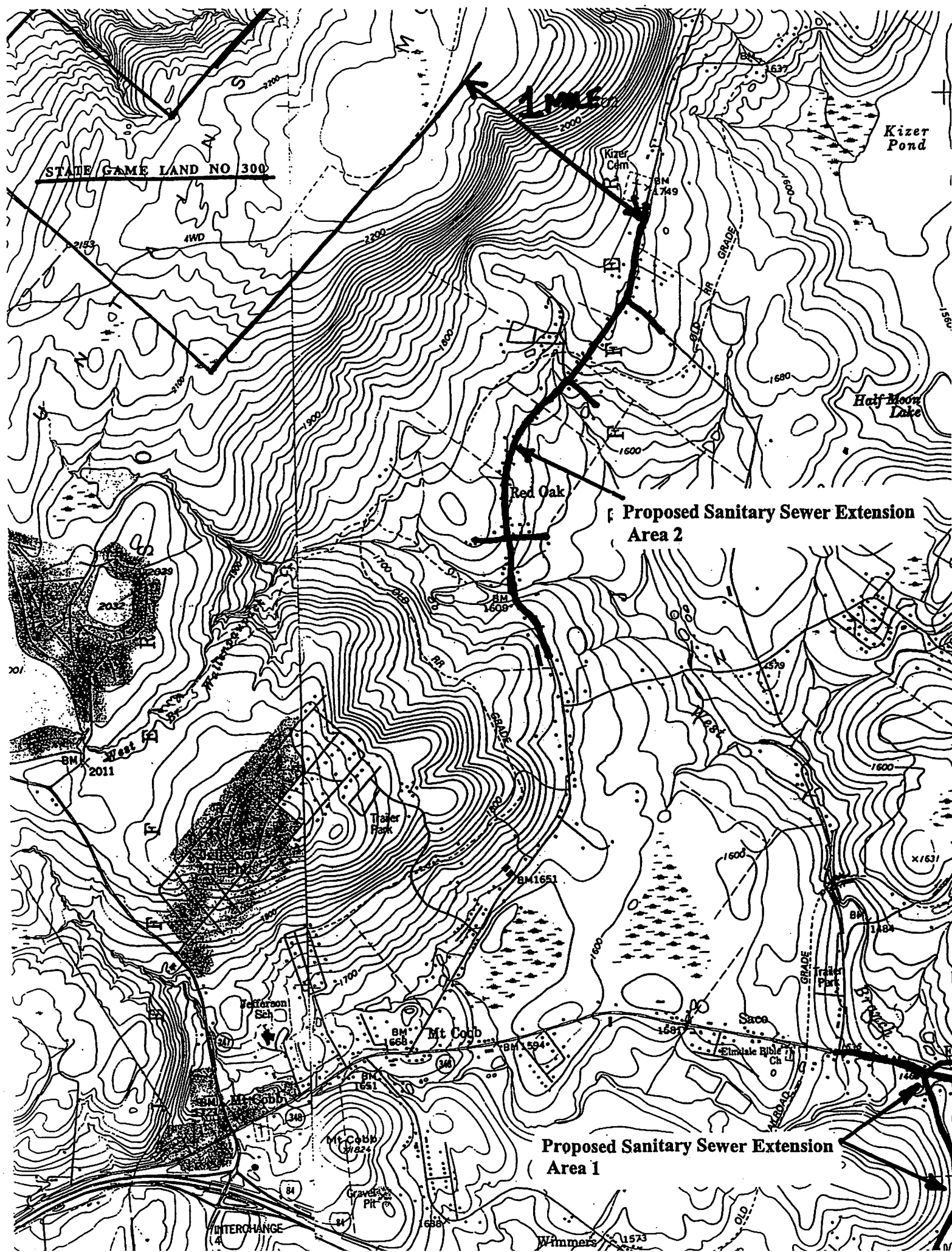


**Figure 6.3**  
**Map of State Game Lands No's 300 and 310**

SCALE 1:24 000









## Exhibit 6.4

### FEMA Map

## **Exhibit 6.5**

### **Pennsylvania Superfund Information**

**Pennsylvania (94 Sites)**

Site Name	City	CERCLIS ID	Final Listing Date	Federal Facility Indicator
A.I.W. FRANK/MID-COUNTY MUSTANG	EXTON	PAD004351003	10/04/1989	No
AVCO LYCOMING (WILLIAMSPORT DIVISION)	WILLIAMSPORT	PAD003053709	02/21/1990	No
BALLY GROUND WATER CONTAMINATION	BALLY	PAD061105128	07/22/1987	No
BELL LANDFILL	TERRY TOWNSHIP	PAD980705107	10/04/1989	No
BENDIX FLIGHT SYSTEMS DIVISION	SOUTH MONTROSE	PAD003047974	07/22/1987	No
BERKLEY PRODUCTS CO. DUMP	DENVER	PAD980538649	03/31/1989	No
BERKS LANDFILL	SPRING TOWNSHIP	PAD000651810	10/04/1989	No
BERKS SAND PIT	LONGSWAMP TOWNSHIP	PAD980691794	09/21/1984	No
BLOSENSKI LANDFILL	WEST CALN TOWNSHIP	PAD980539985	09/08/1983	No
BOARHEAD FARMS	BRIDGETON TOWNSHIP	PAD047726161	03/31/1989	No
BRESLUBE-PENN, INC.	CORAOPOLIS	PAD089667695	06/17/1996	No
BROWN'S BATTERY BREAKING	HAMBURG	PAD980831812	06/10/1986	No
BUTLER MINE TUNNEL	PITTSTON TOWNSHIP	PAD980508451	07/22/1987	No
BUTZ LANDFILL	STROUDSBURG	PAD981034705	03/31/1989	No
C & D RECYCLING	FOSTER TOWNSHIP	PAD021449244	07/22/1987	No
CENTRE COUNTY KEPONE	STATE COLLEGE BOROUGH	PAD000436261	09/08/1983	No
COMMODORE SEMICONDUCTOR GROUP	LOWER PROVIDENCE TOWNSHIP	PAD093730174	10/04/1989	No
CRAIG FARM DRUM	PARKER	PAD980508527	09/08/1983	No
CRATER RESOURCES, INC./KEYSTONE COKE CO./ALAN WOOD STEEL CO.	UPPER MERION TOWNSHIP	PAD980419097	10/14/1992	No
CROSSLEY FARM	HEREFORD TOWNSHIP	PAD981740061	10/14/1992	No
CROYDON TCE	CROYDON TOWNSHIP	PAD981035009	06/10/1986	No

CRYOCHEM, INC.	WORMAN TOWNSHIP	PAD002360444	10/04/1989	No
DELTA QUARRIES & DISPOSAL, INC./STOTLER LANDFILL	ANTIS/LOGAN TWPS	PAD981038052	03/31/1989	No
DORNEY ROAD LANDFILL	UPPER MACUNGIE TOWNSHIP	PAD980508832	09/21/1984	No
DOUGLASSVILLE DISPOSAL	DOUGLASSVILLE	PAD002384865	09/08/1983	No
DRAKE CHEMICAL	LOCK HAVEN	PAD003058047	09/08/1983	No
DUBLIN TCE SITE	DUBLIN BOROUGH	PAD981740004	08/30/1990	No
EAST MOUNT ZION	SPRINGETTSBURY TOWNSHIP	PAD980690549	09/21/1984	No
EASTERN DIVERSIFIED METALS	HOMETOWN	PAD980830533	10/04/1989	No
ELIZABETHTOWN LANDFILL	ELIZABETHTOWN	PAD980539712	03/31/1989	No
FISCHER & PORTER CO.	WARMINSTER	PAD002345817	09/08/1983	No
FOOTE MINERAL CO.	EAST WHITELAND TOWNSHIP	PAD077087989	10/14/1992	No
FRANKLIN SLAG PILE (MDC)	PHILADELPHIA	PASFN0305549	09/05/2002	No
HAVERTOWN PCP	HAVERFORD	PAD002338010	09/08/1983	No
HELEVA LANDFILL	NORTH WHITEHALL TWP	PAD980537716	09/08/1983	No
HELLERTOWN MANUFACTURING CO.	HELLERTOWN	PAD002390748	03/31/1989	No
HENDERSON ROAD	UPPER MERION TOWNSHIP	PAD009862939	09/21/1984	No
HUNTERSTOWN ROAD	STRABAN TOWNSHIP	PAD980830897	06/10/1986	No
INDUSTRIAL LANE	WILLIAMS TOWNSHIP	PAD980508493	09/21/1984	No
JACKS CREEK/SITKIN SMELTING & REFINING, INC.	MAITLAND	PAD980829493	10/04/1989	No
KEYSTONE SANITATION LANDFILL	UNION TOWNSHIP	PAD054142781	07/22/1987	No
KIMBERTON	KIMBERTON BOROUGH	PAD980691703	09/08/1983	No
LETTERKENNY ARMY DEPOT (PDO AREA)	FRANKLIN COUNTY	PA2210090054	03/13/1989	Yes
LETTERKENNY ARMY	CHAMBERSBURG	PA6213820503	07/22/1987	Yes

DEPOT (SE AREA)				
LINDANE DUMP	HARRISON TOWNSHIP	PAD980712798	09/08/1983	No
LORD-SHOPE LANDFILL	GIRARD TOWNSHIP	PAD980508931	09/08/1983	No
LOWER DARBY CREEK AREA	DARBY TWP	PASFN0305521	06/14/2001	No
MALVERN TCE	MALVERN	PAD014353445	09/08/1983	No
METAL BANKS	PHILADELPHIA	PAD046557096	09/08/1983	No
METROPOLITAN MIRROR AND GLASS CO., INC.	FRACKVILLE	PAD982366957	10/14/1992	No
MILL CREEK DUMP	ERIE	PAD980231690	09/21/1984	No
MODERN SANITATION LANDFILL	LOWER WINDSOR TWP	PAD980539068	06/10/1986	No
MOYERS LANDFILL	EAGLEVILLE	PAD980508766	09/08/1983	No
MW MANUFACTURING	VALLEY TOWNSHIP	PAD980691372	06/10/1986	No
NAVAL AIR DEVELOPMENT CENTER (8 WASTE AREAS)	WARMINSTER TOWNSHIP	PA6170024545	10/04/1989	Yes
NAVY SHIPS PARTS CONTROL CENTER	MECHANICSBURG	PA3170022104	05/31/1994	Yes
NORTH PENN - AREA 1	SOUDERTON	PAD096834494	03/31/1989	No
NORTH PENN - AREA 12	WORCESTER	PAD057152365	02/21/1990	No
NORTH PENN - AREA 2	HATFIELD	PAD002342475	10/04/1989	No
NORTH PENN - AREA 5	MONTGOMERY TOWNSHIP	PAD980692693	03/31/1989	No
NORTH PENN - AREA 6	LANSDALE	PAD980926976	03/31/1989	No
NORTH PENN - AREA 7	NORTH WALES	PAD002498632	03/31/1989	No
NOVAK SANITARY LANDFILL	SOUTH WHITEHALL TOWNSHIP	PAD079160842	10/04/1989	No
OCCIDENTAL CHEMICAL CORP./FIRESTONE TIRE & RUBBER CO.	LOWER POTTS GROVE TOWNSHIP	PAD980229298	10/04/1989	No
OHIO RIVER PARK	NEVILLE ISLAND	PAD980508816	08/30/1990	No
OLD CITY OF YORK LANDFILL	SEVEN VALLEYS	PAD980692420	09/08/1983	No
OLD WILMINGTON ROAD GW CONTAMINATION	SADSBURYVILLE	PAD981938939	02/04/2000	No
OSBORNE LANDFILL	GROVE CITY	PAD980712673	09/08/1983	No
PALMERTON ZINC PILE	PALMERTON	PAD002395887	09/08/1983	No
PAOLI RAIL YARD	PAOLI	PAD980692594	08/30/1990	No
PRICE BATTERY	HAMBURG	PAN000305679	04/27/2005	No

RAYMARK	HATBORO	PAD039017694	10/04/1989	No
RECTICON/ALLIED STEEL CORP.	EAST COVENTRY TWP	PAD002353969	10/04/1989	No
REVERE CHEMICAL CO.	NOCKAMIXON TOWNSHIP	PAD051395499	07/22/1987	No
RODALE MANUFACTURING CO., INC.	EMMAUS BOROUGH	PAD981033285	10/14/1992	No
RYELAND ROAD ARSENIC SITE	HEIDELBERG TWP.	PAD981033459	07/22/2004	No
SAEGERTOWN INDUSTRIAL AREA	SAEGERTOWN	PAD980692487	02/21/1990	No
SAFETY LIGHT CORPORATION	BLOOMSBURG	PAD987295276	04/27/2005	No
SHARON STEEL CORP (FARRELL WORKS DISPOSAL AREA)	HICKORY TOWNSHIP	PAD001933175	07/28/1998	No
SHRIVER'S CORNER	STRABAN TOWNSHIP	PAD980830889	06/10/1986	No
STANLEY KESSLER	KING OF PRUSSIA	PAD014269971	09/08/1983	No
STRASBURG LANDFILL	NEWLIN TOWNSHIP	PAD000441337	03/31/1989	No
TOBYHANNA ARMY DEPOT	TOBYHANNA	PA5213820892	08/30/1990	Yes
TONOLLI CORP.	NESQUEHONING	PAD073613663	10/04/1989	No
TYSONS DUMP	UPPER MERION TWP	PAD980692024	09/21/1984	No
UGI COLUMBIA GAS PLANT	COLUMBIA	PAD980539126	05/31/1994	No
VALMONT TCE SITE (FORMER - VALMONT INDUSTRIAL PARK)	WEST HAZLETON	PAD982363970	09/13/2001	No
WALSH LANDFILL	HONEYBROOK TOWNSHIP	PAD980829527	09/21/1984	No
WATSON JOHNSON LANDFILL	RICHLAND TOWNSHIP	PAD980706824	09/13/2001	No
WESTINGHOUSE ELECTRIC CORP. (SHARON PLANT)	SHARON	PAD005000575	08/30/1990	No
WESTINGHOUSE ELEVATOR CO. PLANT	GETTYSBURG	PAD043882281	06/10/1986	No
WHITMOYER LABORATORIES	JACKSON TOWNSHIP	PAD003005014	06/10/1986	No
WILLIAM DICK LAGOONS	WEST CALN TOWNSHIP	PAD980537773	07/22/1987	No
WILLOW GROVE NAVAL AIR AND AIR RESERVE STATION	WILLOW GROVE	PAD987277837	09/29/1995	Yes