

Attachment A-4

City of Scranton
Interim
Act 537
Official Sewer Plan

This plan is intended to serve as the City of Scranton Official Sewer Plan until such time as a more detailed study is completed with regard to the City's undeveloped areas. This more detailed study will be completed by the city after a scope-of-work is developed with the assistance of the Department of Environmental Resources.

This plan was prepared by the City of Scranton with the assistance and cooperation of the Scranton Sewer Authority and its consulting engineers.

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DEPT. OF ENV. RESOURCES
OFFICE OF
ENV. PROTECTION
WILKES-BARRE REGION

WATER QUALITY MGT

Contents

PLANNING AREA: PHYSICAL DESCRIPTION AND MAP

1

POPULATION

2

SERVICE AREA MAP AND METHODOLOGY

3

OTHER CONCERNS

4

RESOLUTION

5

PLAN RECOMMENDATIONS

6

7

8

Physical Description of Planning Area

The City of Scranton is located in Lackawanna County in the northeastern part of Pennsylvania.

Scranton has a total area of approx. 26 square miles or 16640 acres. Census data in 1984 showed a population of 83,695 in Scranton.

Topography

The most prominent topographical feature of the city are the two nearly parallel mountain ranges that bound the city on the east and west. The range of mountains forming the east boundary are known as the Moosic Mountains, while the opposite mountain range is known as the West Mountain. Each of these ranges reach an average height of 2,000 feet above sea level, while the valley ranges in elevation 800 feet in northern part of the city to 600 feet in the southern part.

Flowing in the valley between the two mountain ranges is the Lackawanna River. It accounts for the drainage of all of the land area of Scranton.

The slope of both mountain ranges are generally 20 percent or greater.

Geology

The City of Scranton is located in the Appalachian Mountain section of the Valley and Ridge province. This Valley and Ridge section is known as the Anthracite Coal Region.

The two parallel mountain ranges are characterized by a predominantly gray massive cross-bedded rock and sandstone with some shale, light gray to white, coarse grained sandstone and rock with some mineable coals, The valley region between the mountain ranges is made up almost entirely of formations of brown and gray sandstones and shales with some rock and numerous mineable coals.

Climate

The climate in Scranton is dominated by atmospheric flow patterns relevant to the Humid Continental type climate. The average monthly temperature ranges from 27 degrees in January to 72 degrees in July. The average annual rainfall is 36 inches and the annual snowfall is 53 inches.

Population

The City of Scranton has suffered a declining population since it reached it's peak population of approximately 140,000 in 1930. Since that time population has declined in nearly a straight line to a population in 1980 of 88,117. The latest estimate was provided by Census Bureau through the Economic Development Council of Northeastern Pennsylvania is approximately 82,500 for the year 1986.

The State Water Plan (SWP) predicts populations for the City of Scranton as follows:

1990 - 87,548

2000 - 87,935

2010 - 88,731

After reviewing the census and the SWP figures the City of Scranton feels the SWP estimates may be slightly higher than the actual population, but they are adequate for our sewage planning needs.

The City of Scranton feels that the projected populations can be served by the existing waste water treatment facility that is designed to serve a population of 163,000 in the year 2010.

Service Area Map

The attached Interim Service Area Map depicts the limits of the Scranton Service area with sufficient capacity for near future development. The limits of the service area shown on the plan are those understood to have sufficient capacity without a more detailed analysis.

This map was prepared by the Scranton Sewer Authority through it's consulting engineers.

For more detailed methodology on the preparation of the Service Area Map please refer to the attached letter from James C. Elliot, P.E. of Gannett, Flemming, Cordry and Carpenter Inc.

GANNETT FLEMING-CORDDRY AND CARPENTER, INC.
ENGINEERS AND PLANNERS



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July 20, 1988

Mr. Alfred J. Polidori, Manager
The Sewer Authority of the
City of Scranton
307 North Washington Avenue
Scranton, Pennsylvania 18503

Dear Al:

Re: Scranton Act 537 Plan
Interim Service Area Map
Intermunicipal Sewer Service Allocations

Enclosed is a plan (5 prints plus a reproducible) depicting the limits of the Scranton service area with sufficient capacity for near future development. This plan was prepared based on the discussion among Al Magnotta, you, and me on July 14, 1988 regarding the interim response to DER on the Scranton Act 537 Plan update. The limits of the service area shown on the plan are those understood to have sufficient capacity without a more detailed analysis. Such detailed analyses should be performed on certain trunk sewers discussed at our meeting as a part of the 537 Plan update.

Copies of this plan with a transmittal letter should be sent to Scranton and Dunmore for their response to DER.

In the development of this plan, certain information was assembled for the intermunicipal service connections. Comments on these connections are provided below:

1. Dickson City - Only the Siniawa Sewer system connection is referenced. The currently allocated 44,000 gpd listed is based on the analysis of data described on the attached exhibit. Additional flows from the Viewmont Mall (17,000 - 20,000 gpd) and Viewmont Village Apartments (26,000 - 30,000 gpd) are not shown as these developments connect directly to a Scranton sewer.
2. Taylor Borough - The 50,000 gpd current allocation is documented in the attached exhibit.

July 20, 1988

Mr. Alfred J. Polidori
Scranton, Pennsylvania

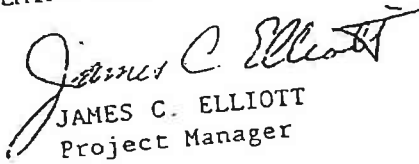
-2-

3. Montage Sewer System - The map not only lists the amount of the 175,500 gpd capacity that is currently allocated, but also the specific development associated with this allocated flow. (This approach should also be done for Dickson City, but is beyond the scope of this initial task.) My review of these allocations is based in part on information received by telephone from Joe Brogna of DER on July 19. Based on this discussion, only those developments listed as having a WQM Permit or a Planning Module have been approved by DER. This list excludes the proposed Multipurpose (MP) Stadium. A synopsis of the recent planning review process of DER for the Montage Sewer System is provided in a second exhibit for your information.

Please let me know what further activities may be required to assist the Authority in supporting the City in the 537 Plan Update.

Very truly yours,

GANNETT FLEMING CORDDRY AND CARPENTER, INC.


JAMES C. ELLIOTT
Project Manager

JCE:jms

Enclosures

xc: Mr. Albert J. Magnotta, P.E. w/enclosures

SCRANTON ACT 537 PLAN REVISIONS
 ALLOCATION OF FLOWS TO OTHER MUNICIPAL SEWER SYSTEMS

A. Montage, Inc.

Allocated:

Montage, Inc. (Ski Area) - WQM 3583409	21,000 gpd
Office Park at Montage - WQM 3586402	7,500 gpd
Montage Mountain Development - Part A, Phase I (Gilcrest) - WQM 3586403	8,820 gpd
Quinn Computer Store - Planning Module	500 gpd
Gilcrest Restaurant - Planning Module	3,000 gpd
Ski Shop - Needs Planning Module	500 gpd
Prudential Building - Needs Planning Module	<u>500 gpd</u>
Total Allocated	41,820 gpd

Unallocated:

175,500 - 41,820 = 133,680 gpd

Anticipated:

Baseball (MP) Stadium	- 80,000 gpd
Montage Mountain Development Part B	- 21,180 gpd
Montage Mountain Commercial	- 10,020 gpd
Office Park	- <u>21,980 gpd</u>
Total Anticipated	133,180 gpd

B. Taylor Borough

	<u>Period (Billing)</u>	<u>Total (gal)</u>	<u>Daily (gpd)</u>
Data:	4th Qtr. - 1986	3,842,000	42,700
	4th Qtr. - 1987	3,912,000	43,500
	1st Qtr. - 1988	4,209,000	46,800

Peaking Factors:

Third quarter is typically highest.
 Perhaps 1 to 5% greater than other quarters.
 Use 5% more than greatest value above.

Allocated Flow:

(1.05)(46,800 gpd) = 49,140 gpd
 Say 50,000 gpd

SCRANTON ACT 537 PLAN REVISIONS
 ALLOCATION OF FLOWS TO OTHER MUNICIPAL SEWER SYSTEMS

C. Siniawa Sewer/Dickson City

	<u>Period (Billing)</u>	<u>Total (gal)</u>	<u>Daily (gpd)</u>
Data:	Jan. 1987 - 11/19-12/22/86	1,307,000	39,600
	Jan. 1988 - 11/23-12/24/87	1,087,000	35,100
	Jan. 1988 - 03/24-04/25/88	1,322,000	41,300

Peaking Factors:
 Third quarter is typically highest.
 Perhaps 1 to 5% greater than other quarters.
 Use 5% more than greatest value above.

Allocated Flow:
 (1.05)(41,300) = 43,365 gpd
 Say 44,000 gpd

- D. Other Dickson City ^{Scranton} Route 6 Customers
- Viewmont Village Apartments -
 Period 3/24 - 4/25/88 - 854,000 gal. - 26,700 gpd
 - Viewmont Mall (50+ accounts) -
 Period 3/24 - 4/25/88 - 568,000 gal. - 17,800 gpd

Scranton
half + half.

MONTAGE SEWER SYSTEM
 RECENT DER PLANNING APPROVAL ACTIVITIES

Date
 6/20/86 AJP/L9509 letter to LRBSA requesting compliance with Planning Module requirements (Ski Shop).
 7 & 8/86 Preparation and local approvals for MP Stadium project (80,000 gpd). Note 7/2/86 letter of County Commissioners allocating 80,000 gpd to MP Stadium; and AJP/L9580 letter to CSGSB conditionally approving MP Stadium allocation of 80,000 gpd.
 9/5/86 AJP/L9628 letter to County, LRBSA, Moosic, and C of C summarizing Montage flow allocation to date.

Montage Ski Area	21,000 gpd	(155,000)
Prudential Building	500 gpd	(-)
Ski Shop	500 gpd	(-)
Gilchrist Development Parts A&B	30,000 gpd	(8,820)
Office Park (less Hotel)	7,500 gpd	(7,500)
MP Stadium	<u>80,000 gpd</u>	<u>(-)</u>
	139,500 gpd	171,320 gpd

Note that DER approved modules to that date included only the flows shown in parenthesis above.

11/4/86 AJP/L9694 letter to various agencies regarding possible public arena plans, noting limited sewer capacity which could be increased only with capital contributions.

11/17/86 AJP/L9709 letter to County (David Rinaldi) concerning unapproved developments (Quinn Computer and Gilcrest Restaurant) not having Planning Module approval.

12/4 & 12/16/86 Correspondence from Brigid Carey on behalf of Gilcrest regarding Gilcrest/Quinn flow allocations.

12/30/86 DER (Richard Stepanski) letter to County (Harry Lindsay) stating extent of DER approvals to date were limited to:

Montage, Inc. (Ski Area, Area, Motel)	155,000 gpd
Office Park at Montage	7,500 gpd
Montage Mountain (Gilcrest) Part A	<u>8,820 gpd</u>
	171,320 gpd

Also no DER approvals will exceed the additional 4,180 gpd to total the Scranton Sewer Authority's capacity limitations of 175,500 gpd.

MONTAGE SEWER SYSTEM

RECENT DER PLANNING APPROVAL ACTIVITIES (Cont'd.)

Date

- 1/8/87 AJP/L9779 letter to Brigid Carey regarding numerous Act 537 planning changes necessary to effect the flow allocations and DER approvals needed by various proposed projects.
- 1/87 Correspondence from Dominic Surace on Gilcrest/Quinn planning modules.
- 2/5/87 AJP/L9810 letter to County reiterating needed Act 537 planning changes required to enable any further development.
- 2/17/87 DER (Lawrence Pawlush) letter approving Quinn's Computer Store planning modules for 500 gpd.
- 2/18/87 DER (Lawrence Pawlush) letter approving Gilcrest Restaurant planning modules for 3,000 gpd.
- 3/87 Correspondence between AJP and C of C regarding proposed additions of Office Park at Montage.
- 4/14/87 County letter to DER (Ron Brezenski) revising Act 537 Plan flow allocations by County and Moosic Borough (transmitted to SSA on 5/15/87 by Dominic Surace).
- 9/3/87 DER (Lawrence Pawlush) letter to Moosic approving Act 537 Plan revision. Existing flows approved as follows:

Montage Ski Area	21,000 gpd
Office Park at Montage	7,500 gpd
Montage Mountain Part A	8,820 gpd
Quinn Computer Store	500 gpd
Gilcrest Restaurant	3,000 gpd
Ski Shop	<u>500 gpd</u>
	41,320 gpd

All remaining capacity of approximately 134,000 gpd to be reallocated "on a first come first served basis."

- 7/19/88 Telephone communication from DER (Joe Brogna) to GFCC indicating no other approvals have been granted.

MONTAGE SEWER SYSTEM

RECENT DER PLANNING APPROVAL ACTIVITIES (Cont'd.)

Summary of Montage Sewer System projects having no DER letters approving planning modules for land development:

- Ski Shop (500 gpd) - Existing building in operation.
- Prudential Building (500 gpd) - Existing building in operation.
- MP Stadium (80,000 gpd)
- Montage Mountain Development, Part B
- Montage Mountain Commercial & Office Development
- Office Park Additions

The County and Moosic Borough should be notified of the above.

Additional Items
of Concern

1. SPCA- borehole: The SPCA Building has been razed and backfilled. This backfilling included the closing and backfilling of the borehole.
2. Nay Aug Zoo: The Zoo building is now virtually unused with only one animal remaining and soon to be moved. New zoo plans are being formulated with studies being conducted as to how to correct the malfunctions in the sewer system, such as connecting with existing sanitary systems in the area or construction of a new on lot system.
3. Luzerne Street: Mine flushing in the area has recently been completed and the Scranton Sewer Authority is in the process of soliciting bids for the reconstruction of the damaged sewage facilities.
4. Permits without planning approval: Presently the City of Scranton and the Scranton Sewer Authority are requiring planning approval for all projects involving construction of structures where sewage flows will be greater than what could be expected from a three bedroom single family home.

May 1, 1989

and referred to Committee on Sept. 28, 1988

Committee on Public Works reports favorably on the within ordinance.

PUBLIC WORKS

Mary Ellen Chaud
City Clerk

William J. Roberts
Chairman

RESOLUTION NO. 44

1988

ADOPTING AND SUBMITTING TO THE DEPARTMENT OF ENVIRONMENTAL RESOURCES AN INTERIM OFFICIAL SEWER PLAN WHICH PROVIDES FOR SEWAGE FACILITIES IN THE CITY OF SCRANTON.

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 Department of Environmental Resources (Department) adopted thereunder, Chapter 71 of Title 25 of the Pennsylvania Code, requires the municipality to adopt an Official Sewage Facilities Plan providing for sewage services 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, the City of Scranton has prepared a revision to its Official Sewer Plan which provides for sewage facilities in developed and soon to be developed areas in the City of Scranton.

WHEREAS, the City of Scranton intends that the Facility Plan be an interim plan for the City of Scranton until such time a more complete plan is prepared by the City of Scranton with the advice and direction of the Department; and

WHEREAS, the City of Scranton finds that the Facility Plan described above conforms to applicable zoning, subdivision, other municipal ordinances and plans and to a comprehensive program of pollution control and water quality management.

WHEREAS, the City of Scranton intends to implement the Recommendations according to the schedule outlined in Section 5 of the Facility Plan.

NOW, THEREFORE, BE IT RESOLVED that the Council of the City of Scranton hereby adopts and submits to the Department of Environmental Resources for its approval a revision of 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).

SECTION 1. This Resolution will take effect immediately upon passage.

SECTION 2. This Resolution is enacted by the Council of the City of Scranton under the authority of the Act of Legislature, April 13, 1972, Act No. 62, known as the "Home Rule Charter and Optional Plans Law" and any other applicable law arising under the laws of the State of Pennsylvania.

Passed by The Council

OCTOBER 5, 1988

receiving the affirmative votes of MESSRS.

MANZO, GERRITY, MELNICK, GILHOOLEY & COMERFORD

Negative NONE

Thomas P. Comford

President

Mary Ellen Chaud
City Clerk

Approved *David J. Almy* 10/12/88 1988

David J. Almy Mayor

Certified Copy

Mary Ellen Chaud City Clerk

ATTEST: 10/12/88

Plan Recommendations

1. Continue the use of the Scranton Sewage Treatment Plan (STP) for the Area depicted in the Service Area Map.

Reasons:

- a) STP has sufficient capacity to meet year 2010 needs.
 - b) STP design capacity
Average- 24 MGD, peak 63 MGD
 - c) STP present flow
Average- 15 MGD, peak 45 MGD
 - d) STP projected flows in five years
Average- 17 MGD, peak 51 MGD
2. Complete Luzerne Street Project by May 1, 1989.
 3. For areas outside the Service Area the following is recommended:
 - a) Update Official Sewer Plan (Act 537) for areas outside Service Area and areas outside the City of Scranton served by the STP pursuant to the following time table:
 - I. Scope of Services approved by DER 30 days after approval of this plan.
 - II. Draft Plan completed 90 days after approval.
 - III. Final Plan adopted and submitted to DER 120 days after approval.