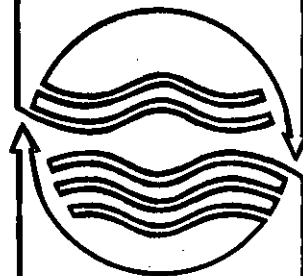




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METROPOLITAN
WASTE
CONTROL
COMMISSION
Twin Cities Area



350 METRO SQUARE BLDG.
7TH & ROBERT STREET
SAINT PAUL MN 55101
612/222-8423

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M43x
1988

Pursuant to Mn Stat 473.163, sd 2
Metropolitan Waste Control Commission

METROPOLITAN WASTE CONTROL COMMISSION

1988 PROGRAM BUDGET

OFFICIALLY APPROVED NOVEMBER 17, 1987

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**METROPOLITAN
WASTE
CONTROL
COMMISSION**

July 10, 1987 Twin Cities Area

The Honorable Peter E. Meintsma, Chairman
Members of the Commission
Metropolitan Waste Control Commission
350 Metro Square Building
St. Paul, MN 55101

Dear Chairman Meintsma and Commissioners:

Enclosed for your review and consideration in accordance with Minnesota Statute 473.163, is the Proposed 1988 Program Budget for the Metropolitan Waste Control Commission covering the period January 1 through December 31, 1988.

The procedure followed in the preparation of the Program Budget was initiated by the Program Managers preparing their budget requests based upon their objectives in 1988. These requests were then reviewed with their Department Director. Budgets were reduced by a joint decision of the Department Director and Program Manager, and the total Budget as presented to the Budget Committee totaled approximately a 14.5% increase. The Budget Committee, consisting of the Deputy Chief Administrator, Director of Administrative Services, Director of Quality Control, and the Comptroller, met with each Department Director and Program Manager, conducted six informational workshops with the Commission, and then further reduced the total budget increase to 8.84%. This budget increase will cause rates to go up an average 2.95%.

The total proposed expenditures of \$108,349,615 are detailed and described in 54 program budgets as indicated on Schedules 3-1 through 3-23. Each program budget indicates a description of the program and total resources required. You will find that program budgets and objectives, which emphasize results, not dollars spent, will tell you a great deal more about our activities and whether they meet community needs and requirements than the traditional line-item budgeting. In addition, this budgeting concept outlines a considerable amount of information in an understandable manner.

The 1987 Legislature passed legislation phasing out the six (6) service areas. However, the phase-out of the six (6) service areas occurs over a five-year period beginning in 1988. Thus, the 1988 area rates reflect the first phase towards accomplishing the uniform rate for the Metropolitan Area by 1992.

The Honorable Peter E. Meintsma, Chairman
 Members of the Commission
 July 10, 1987
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Some of the significant items in the Proposed 1988 Budget are as follows:

Sewer Service Charges - Allocation of current use charges to local governments being served by the Metropolitan Disposal System is estimated to cost \$87.19 per 100,000 gallons (per family) based on flow volume of 104,553 million gallons. This is an increase of 2.95% from 1987. Our Metropolitan Area sewer charges continue to be below the median (and also the mean) for the larger Metropolitan Areas of the United States.

Sewer Rates for 1988 Compared to 1987 per 100,000 gallons.

<u>Typical Community</u>	<u>Center</u>	<u>1987 Rate</u>	<u>1988 Rate</u>	<u>% Increase</u>
Hastings	T. W.	\$ 72.39	77.95	7.68
Minneapolis	S.A. #1	82.59	85.61	3.65
Coon Rapids	S.A. #2	90.16	91.89	1.91
Anoka	S.A. #3	109.08	108.14	-.37
Deephaven	S.A. #4	101.38	98.74	-2.60
Bloomington	S.A. #5	84.83	85.87	1.23
Newport	S.A. #6	83.96	85.87	2.28

Reserve Capacity Charges (SAC) - The distribution between current use and reserve capacity of the Metropolitan Disposal System is as follows:

<u>Cost Center</u>	<u>Current Use %</u>	<u>Current Use Debt Service</u>	<u>Reserve Capacity %</u>	<u>Reserve Cap. Debt Service</u>
T.W.	.811968	\$ 18,404,857	.188032	\$ 4,258,116
Service Areas	.516051	<u>7,288,526</u>	.483949	<u>6,835,128</u>
TOTALS		<u>\$ 25,693,383</u>		<u>\$11,093,244</u>

The total Reserve Capacity requirement is \$11,093,244. This amount is based on the new statute which passed in the 1987 legislative session allocating a proportionate amount of current value charges to SAC. We are proposing that the present SAC charge increase to \$550 except that communities who do not have interceptor service will pay \$350 SAC fee per unit. Any deficit occurring during the year due to reduced construction and housing activities will be made up from the surplus balance in the SAC Fund, which at the end of 1986 was \$38,800,000.

The Honorable Peter E. Meintsma, Chairman
Members of the Commission
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Page Three

Industrial Strength Charges - This system determines fees to be collected from an estimated 200 companies located in 31 units of government for discharging high strength wastewaters. Thses strength charges result in an estimated revenue of \$4,960,000.

The 1987 Proposed Operating Budget of \$108,349,615 is an increase of \$8,800,000 or 8.84% over the 1987 Budget. This proposed increase is attributed to the following:

(A) Debt Services	\$4,200,000
(B) Computer Development	1,300,000
(C) Wage and Benefits	1,050,000
(D) Move	914,000
(E) Ash Removal Loan	860,000
(F) Workers Compensation	500,000
(G) Reserve	500,000
Sub-Total	<u>\$9,324,000</u>
Less:	
Decreases in various programs	<u>\$ 524,000</u>
Net Increase	<u>\$8,800,000</u>

Capital Budget

The Capital Improvements Program contains 65 projects for which \$382,772,288 has been appropriated during the past several years.

It is anticipated that one (1) of these will be closed out during the current year and the remaining authorized projects will require total expenditures of \$204,378,662. Of this amount, \$43,483,181 has been encumbered and the balance of \$160,895,481 will be encumbered during the next years. A detailed financial status of these projects is shown on Schedule 11. In addition, one (1) new project is being proposed in the amount of \$2,500,000 and described on Schedule 13.

The Honorable Peter E. Meintsma, Chairman
Members of the Commission
July 10, 1987
Page Four

Revenues to finance these projects include certified federal grants (net) \$9,443,681; certified state grants \$17,889,638; investment earnings \$3,900,000; miscellaneous income of \$50,000, 1987 bond sale of \$45,948,000; and a fund balance as of December 31, 1986 of \$26,785,000, resulting in total resources of \$104,016,319. Proposed expenditures total \$206,878,662 and result in a deficit fund balance of \$102,862,343, which will require sales of bonds to completely finance these projects. Over one-half of these expenditures will occur after 1988. To finance the funds required in 1988, bond sales will be required in 1988 totalling approximately \$55 million.

In submitting the 1988 Program Budget to the Commission, I wish to point out that many members of the staff have contributed significantly to the preparation of the budget. Their expertise experience and judgment have been exceedingly valuable. The task, at this point, is for the Commission to review the objectives and programs contained in this Budget and thereafter, in subsequent public meetings, to hear and consider input from the Council, local government officials and other interested parties. The staff, as usual, will provide you our complete cooperation and assistance in the review process.

Very truly yours,



Louis J. Breimhurst
Chief Administrator

LJB:RLB:blm

Enclosure

GENERAL FUND - REVENUES & EXPENDITURES

	<u>Budget 1988</u>	<u>Budget 1987</u>	<u>Actual 1986</u>
<u>ESTIMATED REVENUES:</u>			
Sewer Service Charges-Communities	\$91,096,370	\$85,859,454	\$81,717,791
Industrial Strength	4,960,000	4,560,000	4,743,588
Service Availability Charges	11,093,245	8,655,546	7,096,597
Investment Earnings	600,000	375,000	1,147,158
Industrial Discharge Permits	25,000	25,000	4,941
Other	<u>575,000</u>	<u>75,000</u>	<u>54,463</u>
TOTAL ESTIMATED REVENUES	<u>\$108,349,615</u>	<u>\$99,550,000</u>	<u>\$94,764,538</u>

ESTIMATED EXPENDITURES:

Program	\$71,558,987	\$66,836,523	\$ 61,282,781
Debt Service	32,622,510	28,549,986	26,597,287
Acquisition Costs	<u>4,168,118</u>	<u>4,163,491</u>	<u>4,093,038</u>
TOTAL ESTIMATED EXPENDITURES	<u>\$108,349,615</u>	<u>\$99,550,000</u>	<u>\$91,973,106</u>

Transfer to Budget Reserve		\$ 500,000
Due to Local Government		<u>2,291,432</u>
GRAND TOTAL		<u>\$94,764,538</u>
Transfer to SAC Reserve (Add'l SAC Revenue)		\$ 6,327,699

1988 PROGRAMS

CHIEF ADMINISTRATOR'S OFFICE (001)

Description:

The Chief Administrator's Office provides overall leadership and direction to all MWCC staff. In addition, internal auditing of selected activities is conducted. Two major costs of MWCC operation, central office rent and payments to the Metropolitan Council for staff services, are included in this program. Also included are costs associated with moving the central office facility from one building to another with more space.

Resources Required: \$1,727,665

Work Hours Required: 10,200

BOARD OF COMMISSIONERS (002)

Description:

The Board of Commissioners is the governing body for the MWCC. The Board provides policy direction for staff operations and reviews, then approves or rejects administrative actions proposed by the Chief Administrator.

Resources Required: \$252,974

Work Hours Required: 5,400

OFFICE OF LEGAL COUNSEL (003)

Description:

The Office of Legal Counsel provides general in-house legal service to MWCC's Board of Commissioners and staff; provides in-house acquisition services; and arranges for and supervises contracted-out legal services.

Resources Required: \$158,610

Work Hours Required: 4,050

OFFICE OF PUBLIC AND COMMUNITY RELATIONS (004)

Description:

This Office supports the goals of the MWCC by conducting a comprehensive information and communication program about MWCC's activities for all MWCC audiences--commissioners, employees, the media, government organizations, plus local officials and the public in 105 communities in the metropolitan area.

Resources Required: \$245,676

Work Hours Required: 6,240

OFFICE OF HEALTH AND SAFETY (005)

Description:

This Office ensures a safe and healthy work environment for all employees by:

- 1) Managing a loss control system (through trend analysis of injury reports) to reduce frequency of injuries and loss time rates;
- 2) Servicing special needs of program managers, including analysis of air contaminants, noise levels, construction design, work procedures, and policy interpretations;
- 3) Providing all employees with safety and industrial hygiene training and information relative to on-the-job and home and safety issues;
- 4) Maintaining safe work environments through site audits of treatment plants, lift stations, meter vaults, and MWCC construction projects to verify compliance with safety policies and OSHA regulations; and
- 5) Managing the Workers' Compensation and Return-To-Work Programs.

Resources Required: \$1,535,873

Work Hours Required: 12,760

PLANNING DEPARTMENT - ADMINISTRATION (006)

Description:

Planning Department Administration is responsible for the supervision of broad-scale planning activities, which help assure that MWCC's facilities continue to meet environmental standards and user needs, and that programs and policies are in place for efficient and cost-effective operations.

Resources Required: \$112,483

Work Hours Required: 2,785

PLANNING DEPARTMENT - CAPITAL PROJECTS (007)

Description:

The Planning Department is responsible for MWCC's long range capital planning. The Department:

- 1) Coordinates, prepares and processes MWCC's Implementation Plan (a long range capital and service delivery plan);
- 2) Coordinates, conducts or manages studies that update or review plans for MWCC facilities;
- 3) Reviews and assesses the implementation of MWCC's capital improvements program; and
- 4) Coordinates with the Metropolitan Council, providing information and studies necessary to formulate revisions or amendments to the Waste Resources Management Development Guide Policy Plan, the Implementation Plan, or the Capital Budget.

Resources Required: \$42,569

Work Hours Required: 1,130

PLANNING DEPARTMENT - MUNICIPAL SERVICES (008)

Description:

The Planning Department is responsible for interacting with Twin Cities metro area municipalities by:

- 1) Reviewing and approving comprehensive sewer plans and sanitary sewer improvements, as required by State statutes;

PLANNING DEPARTMENT - MUNICIPAL SERVICES (008) - (Cont.)

Description: (Continued)

- 2) Determining and assigning estimated and actual wastewater flows, plus interceptor and treatment capacities by municipality;
- 3) Administering the sewer Service Availability Charge, interpreting policy and unit assignments as part of the Cost Allocation System; and
- 4) Reviewing projects proposed for the metropolitan areas to determine whether their construction or use will have an impact on the Metropolitan Disposal System.

Resources Required: \$251,357

Work Hours Required: 10,710

PLANNING DEPARTMENT - SPECIAL PROJECTS (009)

Description:

The Planning Department coordinates non-routine planning studies that deal with new concepts, innovative technologies or other special projects. Some projects require inter and intra-departmental coordination.

Resources Required: \$70,258

Work Hours Required: 1,800

PLANNING DEPARTMENT - COMPREHENSIVE PLANNING (010)

Description:

The Planning Department is responsible for MWCC-wide strategic planning, and grants administration. Strategic planning is used to determine the long range implications of change (e.g., governmental, sociological and economic) and to identify key issues and formulate strategies for MWCC policymakers and managers to deal with the changes, so that the Commission can take advantage of opportunities and avoid threatening circumstances. Through grants administration, MWCC departments are kept abreast of current and planned environmental regulations. The Planning Department packages grant applications and provides administrative services on construction grants for the life of construction projects.

Resources Required: \$174,270

Work Hours Required: 4,400

QUALITY CONTROL DEPARTMENT - ADMINISTRATION (011)

Description:

The Quality Control Department is responsible for fulfilling MWCC's needs in the areas of environmental monitoring and technical support. This includes sampling and analyzing wastewater, receiving water and air, administering MWCC permits, controlling industrial users, and conducting applied research.

Resources Required: \$128,311

Work Hours Required: 3,870

QUALITY CONTROL DEPARTMENT - INDUSTRIAL WASTE (012)

Description:

The Industrial Waste Division is responsible for controlling industrial users of the Metropolitan Disposal System by granting and enforcing permits; responding to spills, and treatment plant and wastewater collection system problems; and administering the MWCC Strength Charge System.

Resources Required: \$908,601

Work Hours Required: 43,240

QUALITY CONTROL DEPARTMENT - RESEARCH & DEVELOPMENT (013)

Description:

The Research & Development Division is a service group, consisting of engineers, scientists, and technicians dedicated to conducting diligent, systematic, and timely investigations into subject areas of interest to MWCC. These investigations are conducted to solve existing or anticipated problems and/or optimize the utilization of physical and financial resources.

Resources Required: \$996,986

Work Hours Required: 21,462

QUALITY CONTROL DEPARTMENT - WATER QUALITY MONITORING & ANALYSIS (014)

Description:

The Water Quality Monitoring and Analysis Division measures compliance with standards and detects trends by monitoring the quality of area receiving waters, conducting toxicity testing of treatment plant effluents, and monitoring groundwater in MWCC wells. The Division also provides support for facility planning and regional management activities. Additional tasks performed by staff include field collections and surveys, data interpretation and reporting, and mathematical modeling.

Resources Required: \$525,289

Work Hours Required: 22,390

QUALITY CONTROL DEPARTMENT - LAB SERVICES (015)

Description:

The Laboratory Services Division functions to provide the MWCC with efficient and accurate analyses of samples originating from treatment plants, rivers, industries, special studies, and research and development.

Resources Required: \$1,665,613

Work Hours Required: 72,688

QUALITY CONTROL DEPARTMENT - AIR QUALITY MONITORING (016)

Description:

The Air Quality Monitoring Division provides air quality monitoring and related technical expertise to other MWCC divisions, to assist the Commission in achieving its goal of complying with clean air standards in a cost effective manner. Specifically, this Division:

- 1) Serves as a coordination center for all MWCC air quality efforts;
- 2) Provides all needed gas and air testing;
- 3) Provides technical expertise to other MWCC divisions dealing with air quality issues, including involvement in project and regulatory permit negotiations;
- 4) Insures, in concert with the Dept's Permits Division, that the MWCC's stack gas and ambient air testing efforts are in compliance with all regulatory requirements; and
- 5) Maintains, in conjunction with the Research and Development Division, an ongoing program of investigations into improved methods for measuring air quality indices.

Resources Required: \$291,271

Work Hours Required: 9,704

QUALITY CONTROL DEPARTMENT - PERMITS ADMINISTRATION & MONITORING (017)

Description:

The Permits Administration and Monitoring Division administers and monitors all permits for air emissions, effluent discharges, and residual solids generated by the MWCC in an environmentally, technically, financially, and legally sound manner. The Division interacts with all segments of the MWCC and represents the Commission's interests before regulatory agencies on permitting issues. Tasks performed include:

- 1) Applying for, negotiating, and tracking compliance of air permits, NPDES permits, ash landfill and utilization permits, and sludge landspreading site and facility permits;
- 2) Processing miscellaneous hazardous waste forms and requirements;
- 3) Coordinating permit requirements with other divisions of the Quality Control Department, Operations, Engineering/Construction, and Planning Departments; and
- 4) Monitoring federal and state publications as they relate to permitting matters.

Resources Required: \$299,038

Work Hours Required: 4,810

ADMINISTRATIVE SERVICES DEPARTMENT - ADMINISTRATION (018)

Description:

Provides administrative support to the MWCC. The Director of the Department is responsible for seeing that the Divisions within the Department fulfill their missions and accomplish their goals on schedule and within budget. There are six Divisions within the Department: Affirmative Action; Business Services; Accounting (Controller); Human Resources; Information Technologies; and Procurement.

Resources Required: \$161,044

Work Hours Required: 4,500

ADMINISTRATIVE SERVICES DEPARTMENT - BUSINESS SERVICES (019)

Description:

The Business Services Division is responsible for providing space, replacement furniture, communications equipment, and postage and xerox services to all Central Office personnel. The Division also administers MWCC's Employee Assistance and Records Retention programs and provides support to MWCC's Quality and Productivity Improvement Interest Group.

Resources Required: \$382,095

Work Hours Required: 9,400

ADMINISTRATIVE SERVICES DEPARTMENT - HUMAN RESOURCES (020)

Description:

The Human Resources Division provides a range of services to MWCC, including administering the recruitment and selection of new employees, employee orientation, performance appraisal, job descriptions (including job analysis and job evaluation), wages and salaries, and employee benefits.

Resources Required: \$289,152

Work Hours Required: 9,900

ADMINISTRATIVE SERVICES DEPARTMENT - LABOR RELATIONS (021)

Description:

The Administrative Services Department is responsible for all MWCC labor relations activities, including the negotiation of labor contracts and agreements.

Resources Required: \$89,383

Work Hours Required: 900

ADMINISTRATIVE SERVICES DEPARTMENT - PROCUREMENT (022)

Description:

The Procurement Division is responsible for:

- 1) Providing a centralized purchasing system with a proper set of checks and balances on orders that comply with all federal, state, and local laws and establish rules;
- 2) Maintaining a bid calendar for all items acquired through the bidding process and administer bid procedures.
- 3) Managing a central motor pool;
- 4) Providing semi-annual reports to management to aid decision-making;
- 5) Preparing a budget forecast for materials and supplies to be used by all MWCC Departments in preparing their annual program budget; and
- 6) Coordinating with MWCC departments and government agencies on the disposal of surplus or obsolete Commission equipment.

Resources Required: \$207,509

Work Hours Required: 11,260

PLANNING DEPARTMENT - INSURANCE (023)

Description:

The Planning Department is responsible for assessing risks inherent in the operation of the Metropolitan Disposal System and securing coverage for those risks that will adversely affect the operations of the System. The dept. is also responsible for:

- 1) Ascertaining risks that are self/co-insurable, to reduce premiums;
- 2) Soliciting quotes from vendors for coverage at least 30 days prior to anniversary date(s) or premium due date(s); and
- 3) Processing all property and damage claims within three days of learning about them.

Resources Required: \$779,591

Work Hours Required: 1,370

ADMINISTRATIVE SERVICES DEPARTMENT - CONTROLLER'S ADMINISTRATION (024)

Description:

The Administrative Services Dept. is responsible for insuring the successful completion of a full range of required financial services for the MWCC on a timely basis, including collections, disbursements, payroll, budgeting, general accounting, final reporting, cost effectiveness studies and other related financial matters.

Resources Required: \$155,773

Work Hours Required: 5,120

ADMINISTRATIVE SERVICES DEPARTMENT - ACCOUNTING & COLLECTIONS (025)

Description:

The Administrative Services Dept. is responsible for insuring that accounting regulations and policies are followed in all MWCC's financial transactions and also for providing accurate, useful and up-to-date financial data to all dept.s with MWCC. Further, the Dept. is responsible for proper receipt and accounting of Commission revenue as well as maintenance of a Commission-wide fixed asset system.

Resources Required: \$198,216

Work Hours Required: 3,820

ADMINISTRATIVE SERVICES DEPARTMENT - DISBURSEMENTS (026)

Description:

The Administrative Services Dept. is responsible for properly paying all vendors and contractors used by the MWCC.

Resources Required: \$134,111

Work Hours Required: 9,070

ADMINISTRATIVE SERVICES DEPARTMENT - PAYROLL (027)

Description:

The Administrative Services Dept. is responsible for preparing all MWCC payroll checks, distributing labor costs to the respective MWCC dept.s and remitting all necessary payroll deductions to the appropriate government agencies.

Resources Required: \$185,227

Work Hours Required: 9,840

PLANNING DEPARTMENT - DEBT SERVICES - CASH/FISCAL MANAGEMENT (028)

Description:

The Planning Department is responsible for planning cash flow requirements for both the operating and construction funds; bonding requirements for the construction fund and related debt service requirements in the operating fund; prompt investment of Commission monies; and recommendations on financial matters pertaining to long-range planning.

Resources Required: \$36,874,475

Work Hours Required: 2,730

ADMINISTRATIVE SERVICES DEPARTMENT - AFFIRMATIVE ACTION (029)

Description:

The Affirmative Action Division is responsible for recruitment, employee selection, upward mobility and training that leads to the improvement at MWCC in employment opportunities for minorities, women and the handicapped. This Division is also responsible for implementing the Women's Business Enterprise/Minority Business Enterprise (WBE/MBE) program.

Resources Required: \$120,605

Work Hours Required: 3,600

ADMINISTRATIVE SERVICES DEPARTMENT - CAREER DEVELOPMENT/TRAINING (030)

Description:

The Administrative Services Department assists employees with education to prepare them for career opportunities within MWCC.

Resources Required: \$53,202

Work Hours Required: 0

ADMINISTRATIVE SERVICES DEPARTMENT - INFORMATION TECHNOLOGIES (031)

Description:

The Information Technologies Division:

- 1) Provides electronic data processing to all departments within MWCC;
- 2) Maintains MWCC's existing systems of minicomputers, personal computers and word processors;
- 3) Reviews current and future technologies and the impact they might have on the Commission; and
- 4) Assures implementation of the Comprehensive Long-Range Information Systems Plan adopted by MWCC's Board of Commissioners in 1986.
(This will require the addition of new staff in 1988.)

Resources Required: \$2,299,190

Work Hours Required: 33,832

OPERATIONS DEPARTMENT - ASH DISPOSAL (032)

Description:

The Operations Department is responsible for disposing of 230,000 tons of sewage sludge ash, which has been stored at MWCC's Metro Plant.

Resources Required: \$860,000

Work Hours Required: 0

OPERATIONS DEPARTMENT - REGULATOR SYSTEM (033)

Description:

The Operations Department is responsible for operating and maintaining 17 instrumented combined sewer overflow (CSO) regulator sites and 80 non-instrumented regulator sites in conformance with NPDES permit requirements. Proper operation of the regulator system maximizes the conveyance of wastewater to MWCC's Metro Plant for treatment and minimizes the overflow of sewage from combined (sanitary and storm) sewers to the river.

Resources Required: \$355,896

Work Hours Required: 11,300

OPERATIONS DEPARTMENT - INTERCEPTOR ADMINISTRATION (034)

Description:

The Operations Department is responsible for administering the interceptor sewer system in the metro area. This includes:

- 1) Managing finances;
- 2) Maintaining a radio system; and
- 3) Planning for improvements.

Resources Required: \$318,078

Work Hours Required: 11,728

OPERATIONS DEPARTMENT - INTERCEPTOR SYSTEM MAINTENANCE (035)

Description:

The Operations Department is responsible for maintaining the MWCC wastewater collection system, which includes approximately 500 miles of sewer pipes, serving more than 100 communities. This requires managing interceptor rental agreements and interceptor maintenance contracts. The MWCC Inspection Crew performs ongoing inspection and rehabilitation of interceptor sewer pipes. Videotaping, sewer hole sealing, pipe joint sealing and root control are all performed as part of interceptor system maintenance.

Resources Required: \$678,586

Work Hours Required: 10,140

OPERATIONS DEPARTMENT - LIFT STATIONS (036)

Description:

The Operations Department is responsible for operating and maintaining 61 lift stations and the associated alarm telemetry system, which monitors each station. Routine first echelon maintenance is performed on each lift station daily. (Two-thirds of the stations are checked on weekends to assure continued operation.) Preventative maintenance and corrective maintenance are scheduled to provide necessary second echelon maintenance to all 61 lift stations. Standby power coverage is provided by either on-site generators or portable generators, which are moved from site to site.

Resources Required: \$2,320,339

Work Hours Required: 54,486

OPERATIONS DEPARTMENT - METERING STATIONS (037)

Description:

The Operations Department is responsible for the following activities related to metering stations:

- 1) Keeping 173 flow meters in good working order through preventative maintenance and quarterly calibrations;
- 2) Preparing and forwarding to the Engineering Department monthly metered flow reports;
- 3) Preparing community flow reports twice annually;
- 4) Assisting the Engineering Department in the contacting of communities responsible for excesses of inflow and infiltration into the MWCC system;
- 5) Maintaining all meter system computer equipment and peripherals;
and
- 6) Installing weirs at locations where data is needed and no meter devices are available.

Resources Required: \$1,078,776

Work Hours Required: 30,300

OPERATIONS DEPARTMENT - EMPIRE PLANT (038)

Description:

The Empire Plant has a capacity to treat 6 million gallons per day of wastewater. It serves Empire Township, Apple Valley, Lakeville and Farmington. The plant provides primary, secondary and tertiary treatment to wastewater before discharging it into the Vermillion River. Sludge is landspread on adjacent farmland. The Operations Department is responsible for the following activities at this and all of its plants:

- 1) Operating the plant in compliance with permit requirements;
- 2) Maintaining plant facilities;
- 3) Emphasizing safe working conditions through safety training, safety committee meetings and effectively addressing specific safety problems; and
- 4) Maintaining the plant to provide a pleasant, safe, and productive work environment, and a good image to the public.

Resources Required: \$1,861,209

Work Hours Required: 54,838

OPERATIONS DEPARTMENT - METRO PLANT OPERATIONS (039)

Description:

The Metro Plant has the capacity to treat 250 million gallons of wastewater each day or 80 percent of the wastewater in the metro area. The plant serves some 60 communities and 1.5 million people. The plant provides primary, secondary and advanced treatment to wastewater before discharging it into the Mississippi River. Over \$3 million in fuel bills is saved annually by burning sludge to create energy. (See Operations Department - Empire Plant for activities common to all plants.)

Resources Required: \$25,806,720

Work Hours Required: 977,461

OPERATIONS DEPARTMENT - METRO MAINTENANCE (040)

Description:

The Operations Department is responsible for maintaining the Metro Plant by:

- 1) Providing emergency, preventive, and corrective maintenance of an in-house and contract nature for MWCC's Metro Plant Operations and Quality Control;
- 2) Providing warehouse services for MWCC's Metro Plant and Maintenance shops;
- 3) Providing purchasing services for MWCC's Maintenance shops;
- 4) Providing receiving services for MWCC's Metro Plant, Quality Control, and Construction Field Office.
- 5) Providing vehicle maintenance services for MWCC's Metro Plant Operations, Construction Field Office, Quality Control and Administrative Services; and
- 6) Providing salvage services for MWCC.

Resources Required: \$12,317,199

Work Hours Required: 340,388

OPERATIONS DEPARTMENT - SENECA PLANT (041)

Description:

The Seneca Plant has a capacity to treat 24 million gallons per day of wastewater. It serves Bloomington, Eagan and Burnsville. The plant provides primary and secondary treatment to wastewater before discharging it into the Minnesota River. Seneca Plant sludge is incinerated on site. Also, 85 percent of the sludge from the Blue Lake Plant is incinerated at the Seneca Plant. (See Operations Department - Empire Plant for activities common to all plants.) In addition to the usual plant activities, the Seneca Plant manages a special odor reduction program necessary for continued good community relations between MWCC and the City of Eagan.

Resources Required: \$4,220,697

Work Hours Required: 97,368

OPERATIONS DEPARTMENT - BLUE LAKE PLANT (042)

Description:

The Blue Lake Plant has a capacity to treat 24 million gallons per day of wastewater. It serves Chanhassen, Deephaven, Eden Prairie, Excelsior, Greenwood, Laketown Township, Long Lake, Maple Plain, Minnetonka, Minnetonka Beach, Minnetrista, Mound, Orono, Prior Lake, St. Bonifacius, Shakopee, Shorewood, Spring Park, Tonka Bay, Victoria, Waconia and Wayzata. The plant provides primary and secondary treatment to wastewater and chlorinates the effluent before discharging it into the Minnesota River. Sludge is thickened and transported to either the Seneca Plant or Metro Plant for further treatment and incineration. (See Operations Department - Empire Plant for activities common to all plants)

Resources Required: \$2,328,312

Work Hours Required: 64,520

OPERATIONS DEPARTMENT - CHASKA PLANT (043)

Description:

The Chaska Plant has a capacity to treat approximately 1.0 million gallons per day of wastewater. It serves the City of Chaska. The plant provides primary and secondary treatment to wastewater before discharging it into the Minnesota River. Sludge is transported to either the Seneca Plant or Metro Plant for disposal. (See Operations Department - Empire Plant for activities common to all plants.)

Resources Required: \$333,079

Work Hours Required: 5,600

OPERATIONS DEPARTMENT - ANOKA PLANT (044)

Description:

The Anoka Plant has a capacity to treat 2.46 million gallons per day of wastewater. It serves the communities of Anoka, Champlin and Ramsey. The plant provides primary and secondary treatment to wastewater before discharging it into the Mississippi River. Sludge is transported to the Metro Plant for disposal. (See Operations Department - Empire Plant for activities common to all plants.)

Resources Required: \$321,215

Work Hours Required: 9,150

OPERATIONS DEPARTMENT - BAYPORT PLANT (045)

Description:

The Bayport Plant has a capacity to treat 0.65 million gallons per day of wastewater. It serves the community of Bayport. The plant provides primary and secondary treatment to wastewater plus removal of phosphorous before discharging the effluent into the St. Croix River. Sludge is transported to the Metro Plant for disposal. (See Operations Department - Empire Plant for activities common to all plants.)

Resources Required: \$262,897

Work Hours Required: 5,049

OPERATIONS DEPARTMENT - COTTAGE GROVE PLANT (046)

Description:

The Cottage Grove Plant has a capacity to treat 1.8 million gallons per day of wastewater. It serves the community of Cottage Grove. The plant provides primary and secondary treatment to wastewater before discharging it into the Mississippi River. Sludge is applied to farmland or transported to the Metro Plant for disposal. (See Operations Department - Empire Plant for activities common to all plants.)

Resources Required: \$407,697

Work Hours Required: 11,149

OPERATIONS DEPARTMENT - HASTINGS PLANT (047)

Description:

The Hastings Plant has a capacity to treat 2.34 million gallons per day of wastewater. It serves the community of Hastings. The plant provides primary and secondary treatment to wastewater before discharging it into the Mississippi River. Sludge is applied to farmland or transported to the Metro Plant for disposal. (See Operations Department - Empire Plant for activities common to all plants.)

Resources Required: \$507,907

Work Hours Required: 11,749

OPERATIONS DEPARTMENT - STILLWATER PLANT (048)

Description:

The Stillwater Plant has a capacity to treat 3.0 million gallons per day of wastewater. It serves the communities of Stillwater and Oak Park Heights. The plant provides primary and secondary treatment to wastewater plus the removal of phosphorous from the effluent before discharging it into the St. Croix River. Sludge is transported to the Metro Plant for disposal. (See Operations Department - Empire Plant for activities common to all plants.)

Resources Required: \$493,927

Work Hours Required: 12,349

OPERATIONS DEPARTMENT - SAVAGE PLANT (049)

Description:

The Savage Plant has a capacity to treat 0.86 million gallons per day of wastewater. It serves the community of Savage. The plant provides primary and secondary treatment to wastewater before discharging it into the Minnesota River. Sludge is transported to either the Seneca Plant or the Metro Plant for disposal. (See Operations Department - Empire Plant for activities common to all plants.)

Resources Required: \$128,780

Work Hours Required: 4,640

OPERATIONS DEPARTMENT - ROSEMOUNT PLANT (050)

Description:

The Rosemount Plant has a capacity to treat 0.6 million gallons per day of wastewater. It serves the community of Rosemount. The Rosemount Plant is different from all the other MWCC plants in that it is a physical-chemical plant. This means that chemicals are used to remove pollutants in the treatment process. (Biological treatment processes are used at the other MWCC treatment plants.) The plant provides primary and secondary treatment to wastewater and removal of phosphorous from the effluent before discharging it to the Mississippi River. Sludge is transported to the Metro Plant for additional treatment and disposal. (See Operations Department - Empire Plant for activities common to all plants.)

Resources Required: \$671,842

Work Hours Required: 17,392

OPERATIONS DEPARTMENT - OPERATIONS ADMINISTRATION (051)

Description:

Operations Department Administration provides administrative support to the entire department. The Director of the department is responsible for seeing that those who manage the wastewater treatment plants and interceptor sewer system accomplish their goals on schedule and within budget.

Resources Required: \$242,494

Work Hours Required: 7,200

OPERATIONS DEPARTMENT - PROCESS ASSURANCE (052)

Description:

Process Assurance is a technical services section of the Operations Department which works with managers and technical staff in the Operations, Planning, Engineering/Construction and Quality Control Departments. Technical services include:

- 1) Assisting the Operations Department with permit compliance;
- 2) Providing wastewater treatment plants with process control engineering services, to insure permit compliance and practical, cost-effective and environmentally sound operation;
- 3) Implementing a residual solids management program; and
- 4) Planning, designing and coordinating construction of capital improvement projects between the Operations Department and Engineering/ Construction Departments.

Resources Required: \$214,412

Work Hours Required: 8,600

ENG./CONSTRUCTION DEPARTMENT - ENGINEERING/CONSTRUCTION SERVICES (053)

Description:

The Engineering/Construction Department is responsible for:

- 1) Providing engineering and construction management services for the design and construction of projects designed in-house and funded by the MWCC'S operating budget;
- 2) Providing engineering and construction management services for projects designed and constructed under special agreements;
- 3) Providing engineering and construction management services for sewer connections;
- 4) Providing engineering services for planning of projects funded by MWCC's capital budget; and
- 5) Providing resources to record lands and easements in the name of MWCC.

Resources Required: \$343,205

Work Hours Required: 14,040

SCHEDULE 3-21

OPERATIONS DEPARTMENT - REGIONAL FACILITIES (054)

Description:

The Operations Department is responsible for supporting MWCC's Regional Facilities. Technical support and coordination is provided during design, construction and start-up of new projects and during inspection/rehabilitation of interceptor sewers.

Resources Required: \$459,931

Work Hours Required: 9,000

SUMMARY STATEMENT OF PROGRAM EXPENDITURES

		<u>Proposed 1988</u>	<u>Budget 1987</u>	<u>Actual 1986</u>
5010	Salaries & Wages	\$ 32,733,988	\$ 31,816,866	\$ 30,127,942
5020	Employee Benefits	7,201,477	6,988,097	6,570,371
5040	Travel - Out of State	27,995	29,748	21,640
5041	Travel - Local	21,130	19,238	14,082
5042	Auto Allowance	9,000	9,950	9,054
5045	Recruitment	22,000	15,000	8,984
5046	Public Hearings	6,808	8,787	0
5050	Commission-Per Diem	38,000	38,800	28,750
5051	Commission-Other	3,354	2,678	3,787
5060	Office Rent	429,295	336,200	304,864
5070	Educational Assistance	355,305	335,659	260,696
5075	Budget Reserve	500,000	0	0
5080	Safety	44,900	32,000	60,357
5085	Medical Aids	16,139	13,463	10,175
5090	Cont. Serv. - Data Proc.	468,614	101,287	111,359
5091	Cont. Serv. - Admin.	81,636	62,900	63,758
5092	Cont. Serv. - Auditing	42,005	31,452	31,339
5093	Cont. Serv. - Engin.	648,000	40,000	151,926
5094	Cont. Serv. - Lab.	171,383	162,316	43,620
5095	Cont. Serv. - Laundry	123,249	113,929	112,517
5096	Cont. Serv. - Legal	60,000	61,660	2,783
5097	Cont. Serv. - Maint.	1,704,240	1,834,020	1,127,547
5098	Cont. Serv. - Oper.	1,438,440	720,295	263,243
5099	Cont. Serv. - Xerox	106,499	107,182	98,172
5100	Cont. Serv. - Sldg. Rem.	112,007	361,039	371,165
5101	Cont. Serv. - Janit.	170,095	117,144	52,675
5102	Cont. Serv. - Other	2,142,912	1,616,246	1,173,755
5200	Materials & Supplies	1,199,461	1,097,612	1,032,435
5210	Maint. Materl. & Supp.	3,268,519	2,959,564	2,664,685
5300	Office Supplies	114,116	114,686	94,606
5310	Publications	72,315	42,408	53,672
5320	Postage	36,230	43,146	34,597
5330	Office Equip. Repair	5,477	9,894	7,573
5340	Advertising	10,636	16,200	9,642
5350	Dues & Subscriptions	26,984	22,653	12,487
5370	Flood Control	10,000	10,000	0
5390	Council Participation	369,600	115,000	96,408
5500	Motor Vehicle Expense	657,937	603,193	532,346
5600	Permit Fees	149,590	108,500	0

		<u>Proposed 1988</u>	<u>Budget 1987</u>	<u>Actual 1986</u>
5620	Intcp. Rental Contract	\$ 128,427	\$ 128,427	\$ 109,015
5630	Intcp. Maint. Contract	106,500	135,700	94,317
5700	Insurance - Auto	210,670	241,518	207,456
5701	Insurance - Blanket Bond	1,760	1,600	929
5702	Insurance - Bldg. & Prop.	323,703	384,275	303,484
5703	Insurance - Gen. Liab.	118,762	132,965	106,469
5704	Insurance - Work. Comp.	1,160,000	664,271	1,084,703
5705	Insurance - Exc. Liab.	82,500	90,000	60,000
5706	Insurance - Other	4,108	2,800	3,870
5800	Utilities - Elec.	8,356,853	8,794,116	8,123,217
5801	Utilities - Fuel	84,532	162,359	72,106
5802	Utilities - Gas	1,510,955	1,434,802	1,210,161
5803	Utilities - Water	161,215	138,441	101,540
5850	Telephone Service	153,210	299,284	266,859
5851	Leased Lines	177,058	179,758	139,194
5900	Chemicals - Ferr. Chlor.	7,477	11,848	125,114
5901	Chemicals - Potassium	165,000	139,000	48,280
5902	Chemicals - Lime	33,760	44,652	43,757
5903	Chemicals - Other	793,854	703,741	594,780
5904	Polymers	1,058,300	1,019,283	1,053,990
5905	Chemicals - Acid	49,365	21,450	27,556
5940	Chlorine	360,312	358,436	312,118
5999	Miscellaneous	38,166	26,007	36,372
6010	Debt Serv.-Loc. Gov't.	1,100,033	1,167,682	1,234,801
6020	Debt Serv.-Met. Coun.	31,522,477	27,382,304	25,362,487
6100	Acquisition Costs	4,168,118	4,163,491	4,093,038
6200	Capital Outlay	<u>1,873,164</u>	<u>1,602,978</u>	<u>1,595,343</u>
		<u>\$108,349,615</u>	<u>\$ 99,550,000</u>	<u>\$ 91,973,968</u>

PROGRAM DETAIL COSTS

CHIEF ADMINISTRATOR'S OFFICE (001)

5010	Salaries & Wages	\$ 271,039
5020	Employee Benefits	59,629
5041	Travel - Local	874
5042	Auto Allowance	5,400
5046	Public Hearings	1,647
5060	Office Rent	406,433
5070	Educational Assistance	2,041
5091	Cont. Serv. - Admin.	32,136
5102	Cont. Serv. - Other	10,866
5200	Materials & Supplies	2,906
5350	Dues & Subscriptions	8,094
5390	Council Participation	369,600
5999	Miscellaneous	11,000
6200	Capital Outlay	546,000

Total \$1,727,665

BOARD OF COMMISSIONERS (002)

5010	Salaries & Wages	\$ 94,141
5020	Employee Benefits	20,711
5040	Travel - Out of State	3,000
5041	Travel - Local	3,072
5042	Auto Allowance	3,600
5046	Public Hearings	5,000
5050	Commission - Per Diem	38,000
5051	Commission - Other	3,354
5070	Educational Assistance	11,150
5102	Cont. Serv. - Other	64,000
5999	Miscellaneous	2,657
6200	Capital Outlay	4,289

Total \$252,974

OFFICE OF LEGAL COUNSEL (003)

5010	Salaries & Wages	\$ 76,671
5020	Employee Benefits	16,868
5040	Travel - Out of State	2,660
5041	Travel - Local	208
5070	Educational Assistance	300
5096	Cont. Serv. - Legal	60,000
5102	Cont. Serv. - Other	238
5200	Materials & Supplies	104
5310	Publications	1,284
5350	Dues & Subscriptions	173
5999	Miscellaneous	104

Total \$158,610

OFFICE OF PUBLIC & COMMUNITY RELATIONS (004)

5010	Salaries & Wages	\$104,255
5020	Employee Benefits	22,936
5041	Travel - Local	552
5046	Public Hearings	161
5070	Educational Assistance	3,803
5102	Cont. Serv. - Other	24,000
5200	Materials & Supplies	30,000
5310	Publications	50,000
5320	Postage	5,080
5350	Dues & Subscriptions	1,251
5999	Miscellaneous	1,638
6200	Capital Outlay	2,000

Total \$245,676

OFFICE OF HEALTH & SAFETY (005)

5010	Salaries & Wages	\$ 219,679
5020	Employee Benefits	48,329
5070	Educational Assistance	1,163
5085	Medical Aids	13,280
5090	Cont. Serv. - Data Proc.	1,019
5102	Cont. Serv. - Other	48,700
5200	Materials & Supplies	19,200
5350	Dues & Subscriptions	4,003
5500	Motor Vehicle Expense	7,200
5704	Insurance - Wkrs. Comp.	1,160,000
6200	Capital Outlay	13,300

Total \$1,535,873

PLANNING ADMINISTRATION (006)

5010	Salaries & Wages	\$ 86,451
5020	Employee Benefits	19,019
5040	Travel - Out of State	936
5070	Educational Assistance	3,685
5200	Materials & Supplies	520
5350	Dues & Subscriptions	520
5500	Motor Vehicle Expense	1,352

Total \$112,483

CAPITAL PROJECTS PLANNING (007)

5010	Salaries & Wages	\$25,967
5020	Employee Benefits	5,713
5040	Travel - Out of State	624
5041	Travel - Local	239
5070	Educational Assistance	3,450
5999	Miscellaneous	208
6200	Capital Outlay	<u>6,368</u>
	Total	<u>\$42,569</u>

MUNICIPAL SERVICES PLANNING (008)

5010	Salaries & Wages	\$200,850
5020	Employee Benefits	44,187
5040	Travel - Out of State	1,100
5041	Travel - Local	345
5070	Educational Assistance	2,535
5200	Materials & Supplies	400
5350	Dues & Subscriptions	200
5999	Miscellaneous	200
6200	Capital Outlay	<u>1,540</u>
	Total	<u>\$251,357</u>

SPECIAL PROJECTS PLANNING (009)

5010	Salaries & Wages	\$53,060
5020	Employee Benefits	11,673
5040	Travel - Out of State	2,200
5070	Educational Assistance	1,500
6200	Capital Outlay	<u>1,825</u>
	Total	<u>\$70,258</u>

COMPREHENSIVE PLANNING (010)

5010	Salaries & Wages	\$111,738
5020	Employee Benefits	24,582
5040	Travel - Out of State	1,225
5041	Travel - Local	340
5070	Educational Assistance	2,000
5090	Cont. Serv. - Data Proc.	16,820
5350	Dues & Subscriptions	3,455
5999	Miscellaneous	210
6200	Capital Outlay	<u>13,900</u>
	Total	<u>\$174,270</u>

QUALITY CONTROL ADMINISTRATION (011)

5010	Salaries & Wages	\$ 98,072
5020	Employee Benefits	21,576
5040	Travel - Out of State	500
5070	Educational Assistance	1,163
5200	Materials & Supplies	2,000
5310	Publications	500
5350	Dues & Subscriptions	500
5999	Miscellaneous	1,000
6200	Capital Outlay	<u>3,000</u>
	Total	<u>\$128,311</u>

INDUSTRIAL WASTE (012)

5010	Salaries & Wages	\$685,922
5020	Employee Benefits	150,903
5041	Travel - Local	100
5070	Educational Assistance	3,998
5090	Cont. Serv. - Data Proc.	5,500
5097	Cont. Serv. - Maint.	2,288
5200	Materials & Supplies	23,943
5500	Motor Vehicle Expense	4,667
5999	Miscellaneous	300
6200	Capital Outlay	<u>30,980</u>

Total	<u>\$908,601</u>
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RESEARCH & DEVELOPMENT (013)

5010	Salaries & Wages	\$ 340,853
5020	Employee Benefits	74,988
5040	Travel - Out of State	5,400
5060	Office Rent	14,042
5070	Educational Assistance	13,000
5090	Cont. Serv. - Data Proc.	350
5094	Cont. Serv. - Lab.	121,000
5097	Cont. Serv. - Maint.	9,000
5099	Cont. Serv. - Xerox	500
5101	Cont. Serv. - Janit.	4,000
5102	Cont. Serv. - Other	266,850
5200	Materials & Supplies	27,903
5210	Maint. Materl. & Supplies	1,800
5300	Office Supplies	3,000
5310	Publications	8,900
5500	Motor Vehicle Expense	3,600
6200	Capital Outlay	<u>101,800</u>

Total	<u>\$ 996,986</u>
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WATER QUALITY MONITORING & ANALYSIS (014)

5010	Salaries & Wages	\$337,115
5020	Employee Benefits	74,165
5070	Educational Assistance	2,250
5090	Cont. Serv. - Data Proc.	6,435
5097	Cont. Serv. - Maint.	6,800
5102	Cont. Serv. - Other	33,000
5200	Materials & Supplies	23,900
5210	Maint. Materials & Supplies	8,190
5500	Motor Vehicle Expense	3,814
5851	Leased Lines	12,250
6200	Capital Outlay	<u>17,370</u>
	Total	<u>\$525,289</u>

LAB SERVICES (015)

5010	Salaries & Wages	\$1,061,002
5020	Employee Benefits	233,420
5041	Travel - Local	372
5070	Educational Assistance	5,445
5080	Safety	9,900
5090	Cont. Serv. - Data Proc.	1,254
5094	Cont. Serv. - Lab.	49,633
5095	Cont. Serv. - Laundry	10,111
5097	Cont. Serv. - Maint.	36,380
5099	Cont. Serv. - Xerox	12,917
5101	Cont. Serv. - Janitorial	35,049
5102	Cont. Serv. - Other	10,000
5200	Materials & Supplies	125,838
5300	Office Supplies	5,402
5310	Publications	1,815
5350	Dues & Subscriptions	3,565
5500	Motor Vehicle Expense	3,050
6200	Capital Outlay	<u>60,460</u>
	Total	<u>\$1,665,613</u>

AIR QUALITY MONITORING (016)

5010	Salaries & Wages	\$144,049
5020	Employee Benefits	31,691
5060	Office Rent	8,820
5070	Educational Assistance	1,215
5097	Cont. Serv. - Maint.	1,576
5102	Cont. Serv. - Other	62,560
5200	Materials & Supplies	25,725
5500	Motor Vehicle Expense	309
6200	Capital Outlay	<u>15,326</u>
	Total	<u>\$291,271</u>

PERMITS ADMIN. & MONITORING (017)

5010	Salaries & Wages	\$ 95,467
5020	Employee Benefits	21,003
5070	Educational Assistance	1,275
5090	Cont. Serv. - Data Proc.	500
5094	Cont. Serv. - Lab.	750
5102	Cont. Serv. - Other	26,000
5200	Materials & Supplies	478
5300	Office Supplies	460
5310	Publications	635
5500	Motor Vehicle Expense	1,080
5600	Permit Fees	149,590
6200	Capital Outlay	<u>1,800</u>
	Total	<u>\$299,038</u>

ADMINISTRATIVE SERVICES ADMINISTRATION (018)

5010	Salaries & Wages	\$110,528
5020	employee Benefits	24,316
5040	Travel - Out of State	6,000
5041	Travel - Local	200
5070	Educational Assistance	7,500
5102	Cont. Serv. - Other	10,000
5200	Materials & Supplies	500
5310	Publications	1,000
5350	Dues & Subscriptions	500
5999	Miscellaneous	<u>500</u>
	Total	<u>\$161,044</u>

BUSINESS SERVICES (019)

5010	Salaries & Wages	\$145,570
5020	Employee Benefits	32,025
5070	Educational Assistance	1,500
5099	Cont. Serv. - Xerox	64,000
5102	Cont. Serv. - Other	22,000
5300	Office Supplies	59,000
5320	Postage	30,000
5330	Office Equipment Repair	2,000
5850	Telephone Service	25,000
6200	Capital Outlay	<u>1,000</u>
	Total	<u>\$382,095</u>

HUMAN RESOURCES (020)

5010	Salaries & Wages	\$141,467
5020	Employee Benefits	31,123
5045	Recruitment	12,000
5070	Educational Assistance	4,000
5102	Cont. Serv. - Other	82,500
5200	Materials & Supplies	2,754
5310	Publications	2,416
5340	Advertising	9,436
5999	Miscellaneous	1,056
6200	Capital Outlay	<u>2,400</u>
Total		<u>\$289,152</u>

LABOR RELATIONS (021)

5010	Salaries & Wages	\$31,110
5020	Employee Benefits	6,844
5070	Educational Assistance	1,413
5091	Cont. Serv. - Admin.	49,500
5350	Dues & Subscriptions	100
5999	Miscellaneous	<u>416</u>
Total		<u>\$89,383</u>

PROCUREMENT (022)

5010	Salaries & Wages	\$151,275
5020	Employee Benefits	33,281
5070	Educational Assistance	2,254
5102	Cont. Serv. - Other	9,600
5200	Materials & Supplies	350
5340	Advertising	1,200
5350	Dues & Subscriptions	450
5500	Motor Vehicle Expense	7,020
6200	Capital Outlay	<u>2,079</u>
Total		<u>\$207,509</u>

INSURANCE - PLANNING (023)

5010	Salaries & Wages	\$ 27,859
5020	Employee Benefits	6,129
5070	Educational Assistance	850
5350	Dues & Subscriptions	150
5700	Insurance - Auto	210,670
5701	Insurance - Blanket Bond	1,760
5702	Insurance - Bldg. & Prop.	323,703
5703	Insurance - General Liab.	118,762
5705	Insurance - Exc. Liab.	82,500
5706	Insurance - Other	4,108
5999	Miscellaneous	100
6200	Capital Outlay	<u>3,000</u>
Total		<u>\$779,591</u>

CONTROLLER'S ADMINISTRATION (024)

5010	Salaries & Wages	\$106,149
5020	Employee Benefits	23,353
5070	Educational Assistance	4,276
5090	Cont. Serv. - Data Proc.	3,937
5350	Dues & Subscriptions	1,051
5999	Miscellaneous	1,606
6200	Capital Outlay	<u>15,401</u>
Total		<u>\$155,773</u>

ACCOUNTING AND COLLECTIONS (025)

5010	Salaries & Wages	\$ 74,359
5020	Employee Benefits	16,359
5041	Travel - Local	292
5090	Cont. Serv. - Data Proc.	65,000
5092	Cont. Serv. - Auditing	42,005
6200	Capital Outlay	<u>201</u>
Total		<u>\$198,216</u>

DISBURSEMENTS (026)

5010	Salaries & Wages	\$109,927
5020	Employee Benefits	<u>24,184</u>
Total		<u>\$134,111</u>

PAYROLL (027)

5010	Salaries & Wages	\$125,945
5020	Employee Benefits	27,708
5070	Educational Assistance	750
5090	Cont. Serv. - Data Proc.	29,744
5350	Dues & Subscriptions	175
6200	Capital Outlay	905
	Total	\$185,227

DEBT SERVICES - CASH/FISCAL MGMT. (028)

5010	Salaries & Wages	61,657
5020	Employee Benefits	13,565
5041	Travel - Local	300
5070	Educational Assistance	2,200
5200	Materials & Supplies	850
5350	Dues & Subscriptions	175
5999	Miscellaneous	100
6010	Debt Serv. - Loc. Gov't.	1,100,033
6020	Debt Serv. - Met Council	31,522,477
6100	Acquisition Costs	4,168,118
6200	Capital Outlay	5,000
	Total	\$36,874,475

AFFIRMATIVE ACTION (029)

5010	Salaries & Wages	\$ 78,897
5020	Employee Benefits	17,357
5040	Travel - Out of State	2,850
5041	Travel - Local	222
5070	Educational Assistance	2,303
5102	Cont. Serv. - Other	1,208
5200	Materials & Supplies	5,000
5350	Dues & Subscriptions	1,000
5500	Motor Vehicle Expense	250
5999	Miscellaneous	1,254
6200	Capital Outlay	264
	Total	\$120,605

CAREER DEVELOPMENT/TRAINING (030)

5041	Travel - Local	\$ 123
5070	Educational Assistance	9,750
5102	Cont. Serv. - Other	40,532
5200	Materials & Supplies	2,600
5310	Publications	120
5999	Miscellaneous	77
	Total	\$53,202

INFORMATION TECHNOLOGIES (031)

5010	Salaries & Wages	\$ 499,052
5020	Employee Benefits	109,791
5041	Travel - Local	4,575
5070	Educational Assistance	50,000
5090	Cont. Serv. - Data Proc.	326,055
5093	Cont. Serv. - Engineering	648,000
5097	Cont. Serv. - Maint.	180,875
5102	Cont. Serv. - Other	192,139
5200	Materials & Supplies	131,634
5300	Office Supplies	2,000
5310	Publications	1,000
5500	Motor Vehicle Expense	3,000
5850	Telephone Service	16,398
5999	Miscellaneous	400
6200	Capital Outlay	134,271
	Total	\$2,299,190

ASH DISPOSAL (032)

5102	Cont. Serv. - Other	\$860,000
	Total	\$860,000

REGULATOR SYSTEM (033)

5010	Salaries & Wages	\$191,333
5020	Employee Benefits	42,093
5041	Travel - Local	45
5070	Educational Assistance	250
5085	Medical Aids	75
5095	Cont. Serv. - Laundry	2,100
5097	Cont. Serv. - Maint.	9,100
5200	Materials & Supplies	8,000
5210	Maint. Materials & Suppl.	23,800
5300	Office Supplies	500
5500	Motor Vehicle Expense	22,000
5800	Utilities - Electric	7,800
5851	Leased Lines	15,700
5999	Miscellaneous	100
6200	Capital Outlay	33,000
	Total	\$355,896

INTERCEPTOR ADMINISTRATION (034)

5010	Salaries & Wages	\$213,691
5020	Employee Benefits	47,012
5040	Travel - Out of State	600
5041	Travel - Local	30
5070	Educational Assistance	6,000
5097	Cont. Serv. - Maint.	10,000
5098	Cont. Serv. - Operations	1,000
5099	Cont. Serv. - Xerox	1,000
5300	Office Supplies	1,100
5310	Publications	645
5330	Office Equip. Repair	1,500
5500	Motor Vehicle Expense	18,500
6200	Capital Outlay	17,000
	Total	\$318,078

INTERCEPTOR SYSTEM MAINTENANCE (035)

5010	Salaries & Wages	\$171,580
5020	Employee Benefits	37,748
5041	Travel - Local	250
5070	Educational Assistance	1,565
5085	Medical Aids	150
5095	Cont. Serv. - Laundry	2,366
5097	Cont. Serv. - Maint.	49,000
5102	Cont. Serv. - Other	9,000
5200	Materials & Supplies	37,000
5210	Maint. Materials & Suppl.	24,000
5300	Office Supplies	1,500
5500	Motor Vehicle Expense	24,000
5620	Intcp. Rental Contract	128,427
5630	Intcp. Maint. Contract	106,500
5999	Miscellaneous	100
6200	Capital Outlay	85,400
	Total	\$678,586

LIFT STATIONS (036)

5010	Salaries & Wages	\$ 933,352
5020	Employee Benefits	205,337
5041	Travel - Local	400
5070	Educational Assistance	3,450
5085	Medical Aids	400
5095	Cont. Serv. - Laundry	10,900
5097	Cont. Serv. - Maint.	80,300
5102	Cont. Serv. - Other	1,000
5200	Materials & Supplies	83,000
5210	Maint. Materials & Suppl.	112,000
5300	Office Supplies	3,500
5500	Motor Vehicle Expenses	58,000
5800	Utilities - Elec.	640,000
5802	Utilities - Gas	34,000

LIFT STATIONS (036) - (Cont.)

5803	Utilities - Water	8,000
5850	Telephone Service	20,000
5851	Leased Lines	42,100
5999	Miscellaneous	200
6200	Capital Outlay	84,400
	Total	\$2,320,339

METERING STATIONS (037)

5010	Salaries & Wages	\$ 538,301
5020	Employee Benefits	118,426
5041	Travel - Local	300
5070	Educational Assistance	2,625
5085	Medical Aids	200
5095	Cont. Serv. - Laundry	3,434
5097	Cont. Serv. - Maint.	53,000
5102	Cont. Serv. - Other	1,065
5200	Materials & Supplies	39,600
5210	Maint. Materials & Suppl.	65,425
5300	Office Supplies	500
5500	Motor Vehicle Expense	22,800
5800	Utilities - Electric	35,900
5851	Leased Lines	100,700
6200	Capital Outlay	96,500
	Total	\$1,078,776

EMPIRE PLANT (038)

5010	Salaries & Wages	\$1,041,272
5020	Employee Benefits	229,080
5041	Travel - Local	920
5070	Educational Assistance	2,912
5085	Medical Aids	94
5090	Cont. Serv. - Data Proc.	12,000
5095	Cont. Serv. - Laundry	5,351
5097	Cont. Serv. - Maint.	68,924
5098	Cont. Serv. - Operations	8,400
5099	Cont. Serv. - Xerox	500
5100	Cont. Serv. - Sldg. Rem.	7,900
5102	Cont. Serv. - Other	4,413
5200	Materials & Supplies	25,067
5210	Maint. Materials & Suppl.	70,661
5300	Office Supplies	2,112
5330	Office Equip. Repair	600
5500	Motor Vehicle Expense	16,407
5800	Utilities - Electric	227,795
5801	Utilities - Fuel	53,118
5802	Utilities - Gas	4,796
5850	Telephone Service	5,265

EMPIRE PLANT (038) - (Cont.)

5903	Chemicals - Other	1,368
5904	Polymers	49,500
5940	Chlorine	3,938
5999	Miscellaneous	1,700
6200	Capital Outlay	<u>17,116</u>

Total \$1,861,209

METRO PLANT OPERATIONS (039)

5010	Salaries & Wages	\$11,710,470
5020	Employee Benefits	2,576,303
5041	Travel - Local	965
5070	Educational Assistance	70,280
5080	Safety	32,000
5095	Cont. Serv. - Laundry	47,246
5098	Cont. Serv. - Operations	1,198,000
5099	Cont. Serv. - Xerox	16,000
5101	Cont. Serv. - Janitorial	18,046
5102	Cont. Serv. - Other	326,648
5200	Materials & Supplies	457,204
5300	Office Supplies	15,000
5330	Office Equipment Repair	523
5370	Flood Control	10,000
5500	Motor Vehicle Expense	82,915
5800	Utilities - Electrical	6,372,000
5802	Utilities - Gas	937,465
5803	Utilities - Water	105,300
5850	Telephone Service	44,600
5902	Chemicals - Lime	7,000
5903	Chemicals - Other	587,660
5904	Polymers	865,800
5905	Chemicals - Acid	49,365
5940	Chlorine	222,230
5999	Miscellaneous	5,000
6200	Capital Outlay	<u>48,700</u>

Total \$25,806,720

METRO MAINTENANCE (040)

5010	Salaries & Wages	\$ 6,870,857
5020	Employee Benefits	1,511,589
5041	Travel - Local	1,000
5070	Educational Assistance	73,212
5095	Cont. Serv. - Laundry	20,694
5097	Cont. Serv. - Maint.	876,000
5099	Cont. Serv. - Xerox	3,900
5101	Cont. Serv. - Janitorial	55,000
5102	Cont. Serv. - Other	1,540
5210	Maint. Materials & Suppl.	2,536,995
5300	Office Supplies	12,804
5500	Motor Vehicle Expense	64,888

METRO MAINTENANCE (040) - (Cont.)

5999	Miscellaneous	1,000
6200	Capital Outlay	<u>287,720</u>
Total		<u>\$12,317,199</u>

SENECA PLANT (041)

5010	Salaries & Wages	\$1,831,670
5020	Employee Benefits	402,967
5041	Travel - Local	500
5070	Educational Assistance	5,900
5085	Medical Aids	600
5095	Cont. Serv. - Laundry	7,000
5097	Cont. Serv. - Maint.	230,950
5098	Cont. Serv. - Operations	229,600
5099	Cont. Serv. - Xerox	1,500
5101	Cont. Serv. - Janitorial	20,000
5200	Materials & Supplies	53,000
5210	Maint. Materials & Suppl.	230,000
5300	Office Supplies	4,083
5330	Office Equipment Repair	250
5350	Dues & Subscriptions	500
5500	Motor Vehicle Expense	5,177
5800	Utilities - Electrical	352,000
5801	Utilities - Fuel	18,400
5802	Utilities - Gas	380,400
5803	Utilities - Water	6,500
5850	Telephone Service	5,000
5901	Chemicals - Potassium	165,000
5903	Chemicals - Other	5,200
5904	Polymers	143,000
5940	Chlorine	83,000
5999	Miscellaneous	3,000
6200	Capital Outlay	<u>35,500</u>

Total \$4,220,697

BLUE LAKE PLANT (042)

5010	Salaries & Wages	\$1,287,663
5020	Employee Benefits	283,286
5041	Travel - Local	384
5070	Educational Assistance	2,805
5085	Medical Aids	326
5095	Cont. Serv. - Laundry	5,050
5097	Cont. Serv. - Maint.	10,000
5099	Cont. Serv. - Xerox	2,676
5102	Cont. Serv. - Other	5,618
5200	Materials & Supplies	31,239
5210	Maint. Materials & Suppl.	46,385
5300	Office Supplies	776
5320	Postage	550
5330	Office Equipment Repair	104

BLUE LAKE PLANT (042) - (Cont.)

5350	Dues & Subscriptions	372
5500	Motor Vehicle Expense	214,881
5800	Utilities - Electrical	307,476
5801	Utilities - Fuel	300
5802	Utilities - Gas	39,463
5803	Utilities - Water	25,050
5850	Telephone Service	6,948
5903	Chemicals - Other	300
5940	Chlorine	27,810
5999	Miscellaneous	150
6200	Capital Outlay	28,700

Total \$2,328,312

CHASKA PLANT (043)

5010	Salaries & Wages	\$114,761
5020	Employee Benefits	25,247
5041	Travel - Out of State	71
5070	Educational Assistance	50
5095	Cont. Serv. - Laundry	912
5097	Cont. Serv. - Maint.	3,412
5102	Cont. Serv. - Other	1,222
5200	Materials & Supplies	2,858
5210	Maint. Materials & Suppl.	18,589
5500	Motor Vehicle Expense	1,490
5800	Utilities - Electric	81,770
5801	Utilities - Fuel	213
5803	Utilities - Water	4,255
5850	Telephone Service	823
5851	Leased Lines	897
5903	Chemicals - Other	64,222
5940	Chlorine	2,163
5999	Miscellaneous	124
6200	Capital Outlay	10,000

Total \$333,079

ANOKA PLANT (044)

5010	Salaries & Wages	\$167,793
5020	Employee Benefits	36,914
5070	Educational Assistance	312
5095	Cont. Serv. - Laundry	726
5097	Cont. Serv. - Maint.	3,918
5099	Cont. Serv. - Xerox	107
5101	Cont. Serv. - Janit.	668
5102	Cont. Serv. - Other	3,370
5200	Materials & Supplies	8,685
5500	Motor Vehicle Expense	11,554
5800	Utilities - Electric	69,780
5801	Utilities - Fuel	3,254
5803	Utilities - Water	2,847

ANOKA PLANT (044) - (Cont.)

5850	Telephone Service	679
5851	Leased Lines	973
5903	Chemicals - Other	912
5940	Chlorine	8,584
5999	Miscellaneous	139
Total		<u>\$321,215</u>

BAYPORT PLANT (045)

5010	Salaries & Wages	\$116,870
5020	Employee Benefits	25,711
5041	Travel - Local	115
5070	Educational Assistance	1,028
5085	Medical Aids	100
5095	Cont. Serv. - Laundry	542
5097	Cont. Serv. - Maint.	5,984
5099	Cont. Serv. - Xerox	246
5100	Cont. Serv. - Sldg. Rem.	2,000
5102	Cont. Serv. - Other	3,000
5200	Materials & Supplies	1,902
5210	Maint. Materials & Suppl.	9,609
5500	Motor Vehicle Expense	11,441
5800	Utilities - Electrical	38,383
5801	Utilities - Fuel	1,500
5802	Utilities - Gas	5,332
5803	Utilities - Water	5,281
5850	Telephone Service	566
5851	Leased Lines	916
5903	Chemicals - Other	21,127
5940	Chlorine	774
5999	Miscellaneous	177
6200	Capital Outlay	10,293

Total \$262,897

COTTAGE GROVE PLANT (046)

5010	Salaries & Wages	\$ 204,767
5020	Employee Benefits	45,049
5041	Travel - Local	230
5070	Educational Assistance	1,090
5085	Medical Aids	200
5095	Cont. Serv. - Laundry	1,033
5097	Cont. Serv. - Maint.	10,639
5099	Cont. Serv. - Xerox	282
5100	Cont. Serv. - Sldg. Rem.	25,000
5102	Cont. Serv. - Other	5,000
5200	Materials & Supplies	3,364
5210	Maint. Materials & Suppl.	21,719
5500	Motor Vehicle Expense	12,155
5800	Utilities - Electrical	39,080
5801	Utilities - Fuel	2,000

COTTAGE GROVE PLANT (046) - (Cont.)

5802	Utilities - Gas	20,623
5850	Telephone Service	777
5851	Leased Lines	472
5903	Chemicals - Other	871
5940	Chlorine	3,401
5999	Miscellaneous	413
6200	Capital Outlay	<u>9,532</u>
Total		<u>\$ 407,697</u>

HASTINGS PLANT (047)

5010	Salaries & Wages	\$210,809
5020	Employee Benefits	46,378
5041	Travel - Local	460
5070	Educational Assistance	2,280
5085	Medical Aids	300
5095	Cont. Serv. - Laundry	1,638
5097	Cont. Serv. - Maint.	10,000
5099	Cont. Serv. - Xerox	1,740
5100	Cont. Serv. - Sldg. Rem.	25,000
5102	Cont. Serv. - Other	6,000
5200	Materials & Supplies	5,000
5210	Maint. Materials & Suppl.	40,000
5300	Office Supplies	1,000
5320	Postage	100
5330	Office Equip. Repair	250
5350	Dues & Subscriptions	150
5500	Motor Vehicle Expense	20,196
5800	Utilities - Electrical	65,000
5801	Utilities - Fuel	2,000
5802	Utilities - Gas	34,200
5803	Utilities - Water	794
5850	Telephone Service	2,070
5851	Leased Lines	1,342
5903	Chemicals - Other	4,086
5940	Chlorine	3,057
5999	Miscellaneous	657
6200	Capital Outlay	<u>23,400</u>
Total		<u>\$507,907</u>

STILLWATER PLANT (048)

5010	Salaries & Wages	\$227,835
5020	Employee Benefits	50,124
5041	Travel - Local	345
5070	Educational Assistance	1,792
5085	Medical Aids	200
5095	Cont. Serv. - Laundry	1,326

STILLWATER PLANT (048) - (Cont.)

5097	Cont. Serv. - Maint.	11,514
5099	Cont. Serv. - Xerox	238
5100	Cont. Serv. - Sldg. Rem.	2,000
5102	Cont. Serv. - Other	5,000
5200	Materials & Supplies	2,702
5210	Maint. Materials & Suppl.	25,242
5500	Motor Vehicle Expense	25,510
5800	Utilities - Electrical	39,482
5801	Utilities - Fuel	2,000
5802	Utilities - Gas	14,340
5850	Telephone Service	905
5851	Leased Lines	865
5903	Chemicals - Other	67,559
5940	Chlorine	2,021
5999	Miscellaneous	375
6200	Capital Outlay	<u>12,552</u>
Total		<u>\$ 493,927</u>

SAVAGE PLANT (049)

5010	Salaries & Wages	\$ 82,186
5020	Employee Benefits	18,081
5041	Travel - Local	27
5070	Educational Assistance	50
5095	Cont. Serv. - Laundry	642
5097	Cont. Serv. - Maint.	1,500
5102	Cont. Serv. - Other	427
5200	Materials & Supplies	947
5210	Maint. Materials & Suppl.	1,393
5800	Utilities - Electrical	14,111
5801	Utilities - Fuel	125
5802	Utilities - Gas	4,000
5803	Utilities - Water	2,288
5850	Telephone Service	893
5851	Leased Lines	843
5903	Chemicals - Other	118
5940	Chlorine	1,103
5999	Miscellaneous	<u>46</u>
Total		<u>\$128,780</u>

ROSEMOUNT PLANT (050)

5010	Salaries & Wages	\$340,514
5020	Employee Benefits	74,913
5041	Travel - Local	97
5070	Educational Assistance	1,335
5085	Medical Aids	214
5095	Cont. Serv. - Laundry	2,178
5097	Cont. Serv. - Maint.	13,680

ROSEMOUNT PLANT (050) - (Cont.)

5098	Cont. Serv. - Oper.	1,440
5100	Cont. Serv. - Sldg. Rem.	50,000
5102	Cont. Serv. - Other	940
5200	Materials & Supplies	11,842
5210	Maint. Materials & Suppl.	24,026
5500	Motor Vehicle Expense	1,181
5800	Utilities - Electrical	43,776
5801	Utilities - Fuel	1,622
5802	Utilities - Gas	17,436
5850	Telephone Service	2,886
5900	Chemicals - Ferr. Chlor.	7,477
5902	Chemicals - Lime	26,760
5903	Chemicals - Other	40,431
5940	Chlorine	2,231
5999	Miscellaneous	56
6200	Capital Outlay	<u>6,807</u>
Total		<u>\$671,842</u>

OPERATIONS ADMINISTRATION (051)

5010	Salaries & Wages	\$179,257
5020	Employee Benefits	39,437
5040	Travel - Out of State	900
5041	Travel - Local	100
5070	Educational Assistance	10,300
5500	Motor Vehicle Expense	3,000
5999	Miscellaneous	500
6200	Capital Outlay	<u>9,000</u>
Total		<u>\$242,494</u>

PROCESS ASSURANCE (052)

5010	Salaries & Wages	\$165,048
5020	Employee Benefits	36,311
5041	Travel - Local	207
5070	Educational Assistance	6,300
5102	Cont. Serv. - Other	778
5200	Materials & Supplies	2,261
5300	Office Supplies	879
5999	Miscellaneous	603
6200	Capital Outlay	<u>2,025</u>
Total		<u>\$214,412</u>

ENGINEERING/CONSTRUCTION SERVICES (053)

5010	Salaries & Wages	\$279,086
5020	Employee Benefits	61,399
5041	Travel - Local	1,720
5200	Materials & Supplies	<u>1,000</u>
Total		<u>\$343,205</u>

REGIONAL FACILITIES (054)

5010	Salaries & Wages	\$184,747
5020	Employee Benefits	40,644
5041	Travel - Local	1,150
5070	Educational Assistance	15,000
5080	Safety	3,000
5097	Cont. Serv. - Maint.	19,400
5099	Cont. Serv. - Xerox	1,000
5101	Cont. Serv. - Janit.	38,000
5102	Cont. Serv. - Other	6,400
5200	Materials & Supplies	3,500
5300	Office Supplies	500
5310	Publications	4,000
5320	Postage	500
5330	Office Equip. Repair	250
5350	Dues & Subscriptions	600
5500	Motor Vehicle Expense	6,500
5800	Utilities - Electric	22,500
5802	Utilities - Gas	18,900
5803	Utilities - Water	900
5850	Telephone Service	20,400
5999	Miscellaneous	1,000
6200	Capital Outlay	<u>71,040</u>
Total		<u>\$459,931</u>

BUDGET RESERVE (055)

5075	Budget Reserve	<u>\$500,000</u>
Total		<u>\$500,000</u>

SUMMARY OF DEBT SERVICE

	<u>Proposed 1988</u>	<u>Budget 1987</u>	<u>Actual 1986</u>
Treatment Works	\$22,089,909	\$20,499,623	\$20,137,005
Interceptor System			
Service Areas:			
1. Minneapolis-St. Paul	4,311,003	2,961,392	2,375,965
2. North Suburban	2,228,344	1,781,657	1,245,667
3. Anoka	685,169	631,475	561,820
4. Southwest	1,909,410	1,436,470	1,186,340
5. Bloomington-Eagan-Burnsville	781,089	661,472	555,697
6. Southeast	<u>617,586</u>	<u>577,897</u>	<u>534,795</u>
TOTALS	<u>\$32,622,510</u>	<u>\$28,549,986</u>	<u>\$26,597,289</u>

METROPOLITAN COUNCIL SEWER BOND FUND DEBT SERVICE

Required Fund Balance 10/1/87	\$52,898,760
Less: Debt service payments 10/2/87 - 10/1/88	<u>31,870,989</u>
Balance (Debt Service payments 11/1/88 - 1/1/89)	21,027,771
Required Balance 10/1/88	<u>54,572,632</u>
Balance due Metropolitan Council by 10/1/88	<u>\$33,544,861</u>
Less: Interest to be earned October 1, 1988 through September 30, 1989	<u>2,988,024</u>
Amount due Metropolitan Council	\$30,556,837
Add: 1987 payment due SAC funds: Advance #1 to the Metropolitan Council	
Principal	866,667
Interest (11.42%)	<u>98,773</u>
	<u>965,640</u>
Program Budget Requirement	<u>\$31,522,477</u>

Apportioned to:

<u>Cost Pool</u>	<u>Capital Improvements</u>	<u>% Of Debt Service</u>	<u>Amount</u>
Treatment Works	\$ 545,278,000	68.93	\$ 21,728,443
SA #1	101,548,000	12.84	4,047,486
SA #2	51,820,000	6.55	2,064,722
SA #3	17,099,000	2.16	680,886
SA #4	46,178,000	5.84	1,840,913
SA #5	14,101,000	1.78	561,100
SA #6	<u>15,009,000</u>	<u>1.90</u>	<u>598,927</u>
TOTALS	<u>\$791,033,000</u>	<u>100.00</u>	<u>\$31,522,477</u>

Local Government Debt Service 1988

Service Area 1 - Minneapolis/St. Paul

	<u>Treatment Works</u>	<u>Interceptors</u>	<u>Total</u>
Birchwood	\$	\$ 596.00	\$
Forest Lake Township	2,519.00		
Little Canada		72,644.77	
Mendota Heights		8,054.00	
Oakdale		51,173.00	
Plymouth		9,876.00	
St. Paul		57,718.66	
Shoreview*		28,148.04	
White Bear Lake		7,036.00	
Woodbury		28,270.00	
	\$ <u>2,519.00</u>	\$ <u>263,516.47</u>	\$ <u>266,035.47</u>

Service Area 2 - North Suburban

Shoreview*	\$	\$ 16,823.00	\$
Circle Pines		2,355.99	
Coon Rapids		33,218.00	
New Brighton		108,649.00	
Spring Lake Park		2,576.00	
	\$ <u> </u>	\$ <u>163,621.99</u>	\$ <u>163,621.99</u>

Service Area 3 - Anoka

Anoka	\$ 43,605.00	\$	\$
Champlin	<u> </u>	<u>4,283.47</u>	<u> </u>
	\$ <u>43,605.00</u>	<u>4,283.47</u>	<u>47,888.47</u>

* Located in 2 Service Areas

Service Area 4 - Southwest

	<u>Treatment Works</u>	<u>Interceptors</u>	<u>Total</u>
Deephaven	\$	\$ 16,940.53	\$
Greenwood		3,059.88	
Long Lake	9,344.00		
Medina	4,400.00		
Minnetrista		29,041.63	
Mound	20,506.43	19,455.39	
Savage	<u>10,546.00</u>		
	\$ <u>44,796.43</u>	\$ <u>68,497.43</u>	<u>\$113,293.86</u>

Service Area 5 - Bloomington/Eagan/Burnsville

Burnsville	\$	\$182,805.00	\$
Eagan	<u>3,762.82</u>	<u>37,184.00</u>	
	\$ <u>3,762.82</u>	<u>\$219,989.00</u>	<u>\$223,751.82</u>

Service Area 6 - Southeast

Apple Valley	\$ 10,958.29	\$ 18,658.71	\$
Cottage Grove	33,091.89		
Hastings	42,245.00		
Inver Grove Heights	14,696.00		
Lakeville	8,886.00		
Newport	5,063.00		
Oak Park Heights	13,457.00		
South St. Paul	<u>138,385.00</u>		
	<u>\$266,782.18</u>	<u>\$ 18,658.71</u>	<u>\$285,440.89</u>
GRAND TOTAL	<u>\$361,465.43</u>	<u>\$738,567.07</u>	<u>\$1,100,032.50</u>

1988
SUMMARY OF ACQUISITION COSTS

Treatment Works	\$	577,065
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Interceptor System

Service Areas:

1. Minneapolis - St. Paul	3,003,733
2. North Suburban	212,070
3. Anoka	489
4. Southwest	74,057
5. Bloomington-Eagan-Burnsville	296,774
6. Southeast	<u>3,930</u>

TOTAL	<u>\$4,168,118</u>
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1988
LOCAL GOVERNMENT CURRENT VALUE CREDIT

Anoka	\$15,901	Forest Lake Twp.	\$ 53
Apple Valley	6,083	Fridley	26,965
Arden Hills	11,924	Golden Valley	131,187
Bayport	7,673	Greenwood	1,401
Birchwood	257	Hastings	14,284
Blaine	7,352	Hilltop	42
Bloomington	200,659	Hopkins	27,454
Brooklyn Center	14,581	Inver Grove Heights	1,435
Brooklyn Park	60,157	Lakeville	8,255
Burnsville	103,123	Landfall	354
Champlin	1,025	Lauderdale	1,222
Chanhassen	1,858	Lexington	586
Chaska	7,075	Little Canada	2,345
Circle Pines	1,006	Long Lake	1,028
Columbia Heights	22,272	Mahtomedi	2,870
Coon Rapids	25,209	Maple Plain	6,818
Cottage Grove	5,537	Maplewood	23,902
Crystal	42,343	Medicine Lake	1,408
Deephaven	11,620	Medina	38
Eagan	27,418	Mendota Heights	33,553
Eden Prairie	3,494	Minneapolis	1,426,356
Edina	61,020	Minnetonka	16,639
Excelsior	3,521	Minnetrista	543
Falcon Heights	2,204	Mound	10,344
Farmington	10,999	Mounds View	3,561
Forest Lake	8,807		

Local Government Current Value Credit (continued)

New Brighton	\$ 77,192	Tonka Bay	\$ 1,684
New Hope	46,523	Vadnais Heights	195
Newport	595	Victoria	2,535
North St. Paul	30,968	Waconia	15,245
Oakdale	1,150	Wayzata	22,674
Oak Park Heights	39	West St. Paul	7,376
Orono	33,988	White Bear Lake	41,047
Osseo	14,928	White Bear Township	2,173
Plymouth	217	Willernie	1,053
Prior Lake	2,459	Woodbury	<u>2,647</u>
Richfield	133,042		
Robbinsdale	5,150	TOTAL	<u>\$4,168,118</u>
Rosemount	4,372		
Roseville	93,959		
St. Anthony	8,778		
St. Louis Park	78,231		
St. Paul	1,033,404		
St. Paul Park	7,394		
Savage	1,872		
Shakopee	9,064		
Shoreview	23,680		
Shorewood	391		
South St. Paul	41,712		
Spring Lake Park	3,183		
Spring Park	2,926		
Stillwater	10,511		

ALLOCATION OF CURRENT USE COSTS

<u>Local Government</u>	<u>Est. Flow (MG)</u>	<u>Lake Overflow Adjustments</u>	<u>Treatment Works</u>	<u>Service Area</u>	<u>Total</u>
Andover	119		\$ 92,760.50	\$ 16,588.60	\$ 109,349.10
Anoka	770		600,215.00	232,463.00	832,678.00
Apple Valley	935		728,832.50	74,052.00	802,884.50
Arden Hills	460		358,570.00	35,236.00	393,806.00
Bayport	210		163,695.00	.00	163,695.00
Birchwood	32		24,944.00	2,451.20	27,395.20
Blaine	1,050		818,475.00	146,370.00	964,845.00
Bloomington	3,720		2,899,740.00	294,624.00	3,194,364.00
Brooklyn Center	1,200		935,400.00	91,920.00	1,027,320.00
Brooklyn Park	1,840		1,434,280.00	256,496.00	1,690,776.00
Burnsville	1,820		1,418,690.00	144,144.00	1,562,834.00
Centerville	40		31,180.00	5,576.00	36,756.00
Champlin	330		257,235.00	71,189.50	328,424.50
Chanhassen	425		331,287.50	88,357.50	419,645.00
Chaska	410		319,595.00	.00	319,595.00
Circle Pines	134		104,453.00	18,679.60	123,132.60
Columbia Heights	590		459,905.00	45,194.00	505,099.00
Coon Rapids	1,360		1,060,120.00	189,584.00	1,249,704.00
Cottage Grove	590		459,905.00	.00	459,905.00
Crystal	920		717,140.00	70,472.00	787,612.00
Deephaven	142		110,689.00	29,521.80	140,210.80
Eagan	1,670		1,301,765.00	132,264.00	1,434,029.00
Eden Prairie	1,490		1,161,455.00	309,771.00	1,471,226.00
Edina	2,790		2,174,805.00	213,714.00	2,388,519.00
Empire Township	20		15,590.00	1,584.00	17,174.00
Excelsior	112		87,304.00	23,284.80	110,588.80
Falcon Heights	425	5	335,185.00	32,938.00	368,123.00
Farmington	415		323,492.50	32,868.00	356,360.50
Forest Lake	328		255,676.00	25,124.80	280,800.80
Forest Lake Twp.	138		107,571.00	10,570.80	118,141.80
Fridley	1,420		1,106,890.00	166,548.00	1,273,438.00
Gem Lake	10		7,795.00	766.00	8,561.00
Golden Valley	1,350		1,052,325.00	103,410.00	1,155,735.00
Greenfield	5		3,897.50	1,039.50	4,937.00
Greenwood	22		17,149.00	4,573.80	21,722.80
Hastings	615		479,392.50	.00	479,392.50
Hilltop	31		24,164.50	2,374.60	26,539.10
Hopkins	815		635,292.50	63,479.40	698,771.90
Hugo	55		42,872.50	4,213.00	47,085.50

<u>Local Government</u>	<u>Est. Flow (MG)</u>	<u>Lake Overflow Adjustments</u>	<u>Treatment Works</u>	<u>Service Area</u>	<u>Total</u>
Independence	8		\$ 6,236.00	\$ 1,663.20	\$ 7,899.20
Inver Grove Heights	525		409,237.50	41,580.00	450,817.50
Lake Elmo	1		779.50	76.60	856.10
Laketown Township	21		16,369.50	4,365.90	20,735.40
Lakeville	990		771,705.00	78,408.00	850,113.00
Landfall	23		17,928.50	1,761.80	19,690.30
Lauderdale	80		62,360.00	6,128.00	68,488.00
Lexington	55		42,872.50	7,667.00	50,539.50
Lilydale	22		17,149.00	1,685.20	18,834.20
Lino Lakes	45		35,077.50	6,273.00	41,350.50
Little Canada	390		304,005.00	29,874.00	333,879.00
Long Lake	123		95,878.50	25,571.70	121,450.20
Mahtomedi	153		119,263.50	11,719.80	130,983.30
Maple Grove	1,060		826,270.00	147,764.00	974,034.00
Maple Plain	110		85,745.00	22,869.00	108,614.00
Maplewood	1,790		1,395,305.00	137,114.00	1,532,419.00
Medicine Lake	14		10,913.00	1,072.40	11,985.40
Medina	92		71,714.00	13,989.30	85,703.30
Mendota	12		9,354.00	919.20	10,273.20
Mendota Heights	575		448,212.50	44,045.00	492,257.50
Minneapolis	24,900		19,409,550.00	1,907,340.00	21,316,890.00
Minnetonka	2,190		1,707,105.00	455,301.00	2,162,406.00
Minnetonka Beach	28		21,826.00	5,821.20	27,647.20
Minnetrista	74		57,683.00	15,384.60	73,067.60
Mound	410		319,595.00	85,239.00	404,834.00
Mounds View	480		374,160.00	66,912.00	441,072.00
New Brighton	910		709,345.00	126,854.00	836,199.00
New Hope	1,055		822,372.50	80,813.00	903,185.50
Newport	120		93,540.00	9,504.00	103,044.00
North Oaks	17		13,251.50	1,302.20	14,553.70
North St. Paul	590		459,905.00	45,194.00	505,099.00
Oakdale	725		565,137.50	55,535.00	620,672.50
Oak Park Heights	130		101,335.00	10,296.00	111,631.00
Orono	230		179,285.00	47,817.00	227,102.00
Osseo	108		84,186.00	15,055.20	99,241.20
Plymouth	2,390		1,863,005.00	183,074.00	2,046,079.00
Prior Lake	430		335,185.00	89,397.00	424,582.00
Ramsey	11		8,574.50	3,320.90	11,895.40
Richfield	990		771,705.00	75,834.00	847,539.00

<u>Local Government</u>	<u>Est. Flow (MG)</u>	<u>Lake Overflow Adjustments</u>	<u>Treatment Works</u>	<u>Service Area</u>	<u>Total</u>
Robbinsdale	515		\$ 401,442.50	\$ 39,449.00	\$ 440,891.50
Rosemount	155		120,822.50	12,276.00	133,098.50
Roseville	1,850	50	1,481,050.00	145,540.00	1,626,590.00
St. Anthony	415		323,492.50	31,789.00	355,281.50
St. Bonifacius	35		27,282.50	7,276.50	34,559.00
St. Louis Park	2,490		1,940,955.00	190,734.00	2,131,689.00
St. Paul	17,855	(55)	13,875,100.00	1,363,480.00	15,238,580.00
St. Paul Park	142		110,689.00	11,246.40	121,935.40
Savage	295		229,952.50	5,940.00	235,892.50
Shakopee	925		721,037.50	192,307.50	913,345.00
Shoreview	840		654,780.00	76,904.00	731,684.00
Shorewood	285		222,157.50	59,251.50	281,409.00
South St. Paul	1,990		1,551,205.00	157,608.00	1,708,813.00
Spring Lake Park	240		187,080.00	33,456.00	220,536.00
Spring Park	114		88,863.00	23,700.60	112,563.60
Stillwater	890		693,755.00	.00	693,755.00
Stillwater Twp.	1		779.50	.00	779.50
Tonka Bay	70		54,565.00	14,553.00	69,118.00
Vadnais Heights	295		229,952.50	22,597.00	252,549.50
Victoria	70		54,565.00	14,553.00	69,118.00
Waconia	180		140,310.00	37,422.00	177,732.00
Wayzata	255		198,772.50	53,014.50	251,787.00
West St. Paul	1,040		810,680.00	79,664.00	890,344.00
White Bear Lake	875		682,062.50	67,025.00	749,087.50
White Bear Township	300		233,850.00	22,980.00	256,830.00
Willernie	16		12,472.00	1,225.60	13,697.60
Woodbury	685		533,957.50	52,471.00	586,428.50
TOTAL			<u>\$80,684,486.00</u>	<u>\$ 9,522,447.70</u>	<u>\$90,206,933.70</u>

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Construction Fund - Revenues & Expenditures

FUND BALANCE - December 31, 1986

\$ 26,785,000

REVENUES:

Certified Federal Grants (Schedule 8)	\$10,193,681	
Less		
Contingency Reserve for Final Audits	<u>750,000</u>	
Net Certified Federal Grants		\$ 9,443,681
Certified State Grants (Schedule 9)		17,889,638
Investment Income (Schedule 10)		3,900,000
Miscellaneous		50,000
Bond Sale 3/25/87		<u>45,948,000</u>
Total Estimated Revenues		\$77,231,319

EXPENDITURES:

Previously Authorized Projects		
Encumbered & Unencumbered Balance		\$137,613,468
Approp. Adjustments (Schedule 11)		<u>66,765,194</u>
Total Previously Authorized Projects		\$204,378,662
Total New Projects (Schedule 13)		<u>2,500,000</u>
Total Estimated Expenditures		\$206,878,662
Local Funds Applied (Expenditures-Revenues)		<u>\$129,647,343</u>
ESTIMATED FUND BALANCE		<u>\$ (102,862,343)</u>

CERTIFIED FEDERAL GRANTS

<u>Project No.</u>	<u>Grant</u>	<u>Project</u>	<u>Total Grants Receivable</u>	<u>Earned As Of 12/31/86</u>	<u>Balance Due</u>	<u>Estimated Amount 1987</u>	<u>Estimated Amount 1988</u>
74-01(407)	000-05	MWWIP Sludge Incinerator	\$ 7,195,713	\$ 7,195,713	-0-	-0-	-0-
74-01(408)	000-06	MWWIP Sludge Processing	56,653,725	56,653,725	-0-	-0-	-0-
75-01	999-01	Facilities Planning	1,225,772	1,225,772	-0-	-0-	-0-
76-07	100-02	MWWIP Retrofit Process Control Step III	10,194,600	6,837,341	3,357,259	2,554,605	802,654
76-55	999-02	Facilities Planning	1,970,672	1,970,672	-0-	-0-	-0-
78-01	999-03	Facilities Planning	352,092	352,092	-0-	-0-	-0-
79-06	008-02	Hastings Plant Improvements Step III	6,233,400	6,169,495	63,905	63,905	-0-
79-80	103-02	MWWIP Add'l. Secondary	14,679,789	14,679,789	-0-	-0-	-0-
77-05	134-01	Lower Beltline Interceptor	2,245,350	2,067,776	177,574	177,574	-0-
82-56	097-01	MWWIP Screen & Grit Rehab.	3,140,555	945,281	2,195,274	1,434,027	550,000
82-57	097-02	MWWIP Primary Settling Tank Rehab.	5,103,725	1,824,202	3,279,523	2,562,418	550,000
82-58	097-03	MWWIP Secondary Treatment Rehab.	2,168,925	2,051,872	117,053	117,053	-0-
82-59	005-01	Blue Lake Sludge Thick. Facil.	2,220,570	1,365,381	855,189	496,164	353,125
83-52	051-01	Maple Plain Plant Improvements	1,274,020	1,126,116	147,904	147,904	-0-
TOTALS			<u>\$114,658,908</u>	<u>\$104,465,227</u>	<u>\$10,193,681</u>	<u>\$7,553,650</u>	<u>\$2,255,779</u>

CERTIFIED STATE GRANTS

<u>Project No.</u>	<u>Grant</u>	<u>Project</u>	<u>Total Grants Receivable</u>	<u>Earned As Of 12/31/86</u>	<u>Balance Due</u>	<u>Estimated Amount 1987</u>	<u>Estimated Amount 1988</u>
74-01(407)	000-05	MMWIP Sludge Incinerator	\$ 1,439,143	1,439,143	-0-	-0-	-0-
74-01(408)	000-06	MMWIP Sludge Processing	11,330,745	11,330,745	-0-	-0-	-0-
75-01	999-01	Facilities Planning	245,154	245,154	-0-	-0-	-0-
76-07	100-02	MMWIP Retrofit Process Control	2,038,920	1,367,467	671,453	510,923	160,530
76-55	999-02	Facilities Planning	394,135	394,135	-0-	-0-	-0-
77-05	134-01	Lower Beltline Interceptor	449,070	413,555	35,515	35,515	-0-
78-01	999-03	Facilities Planning	75,448	75,448	-0-	-0-	-0-
79-06	008-02	Hastings Plant Improvements Step III	1,246,680	1,122,012	124,668	124,668	-0-
79-80	103-02	MMWIP Add'l. Secondary	2,935,958	2,935,958	-0-	-0-	-0-
82-55	150-01	Mpls. East Interceptor	17,827,317	963,023	16,864,294	1,000,000	1,000,000
82-58	097-03	MMWIP Secondary Treatment Rehab.	433,785	240,077	193,708	193,708	-0-
TOTALS			<u>\$38,416,355</u>	<u>\$20,526,717</u>	<u>\$17,889,638</u>	<u>\$1,864,814</u>	<u>\$1,160,530</u>

SUMMARY OF INVESTMENT INCOME

Investment earnings for period
January through December, 1987
based on average investment balance
of \$30 million and yield of 7% \$2,100,000

Investment earnings for period
January through December, 1988
based on average investment balance
of \$30 million and yield of 6% 1,800,000

TOTAL \$3,900,000
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PROGRAM NUMBER	PROJECT DESCRIPTION	STEP APPROVAL	PREVIOUSLY APPROPRIATED	ADDITIONAL APPROPRIATIONS	TOTAL APPROPRIATIONS	EXPENDITURES DEC 31, 1986	ENCUMBERED BALANCE	UNENCUMBERED BALANCES
7207	WTCE & DISPATCH BLDG	III	\$2,850,000	\$0	\$2,850,000	\$2,416,363	\$153,181	\$280,456
7401407	MWWTP-SLUDGE PROCESS	III	\$11,800,066	\$0	\$11,800,066	\$11,727,038	\$0	\$73,028
7401408	MWWTP-SLUDGE BLDG	III	\$101,605,000	\$0	\$101,605,000	\$101,034,965	\$7,050	\$562,985
7501	RESIDUAL SOLIDS MGMT	I	\$1,774,798	\$100,000	\$1,874,798	\$1,758,185	\$2	\$116,611
7510	ENG SERV NPDES PERM	I	\$195,000	\$0	\$195,000	\$126,621	\$0	\$68,379
7607	MWWTP-RETROFIT PROC	III	\$17,750,000	\$0	\$17,750,000	\$12,699,794	\$4,100,507	\$949,699
7655	COMBINED SEWER STUDY	I	\$3,058,600	\$200,000	\$3,258,600	\$2,972,888	\$6,079	\$279,633
7705	LOWER BELTLINE INTCP	III	\$4,150,000	\$0	\$4,150,000	\$3,724,141	\$34,001	\$391,858
7801	FUTURE SYSTEM CONFIG	I	\$524,363	\$200,000	\$724,363	\$502,989	\$0	\$221,374
7906	HASTINGS WWT EXPAN	III	\$9,513,625	\$0	\$9,513,625	\$9,230,479	\$11,400	\$271,746
7980	MWWTP ADDL SECONDARY	III	\$21,036,775	\$0	\$21,036,775	\$20,744,062	\$256,082	\$36,631
7996	OVERHEAD(NOT REIMBURS	I	\$150,000	\$0	\$150,000	\$106,704	\$0	\$43,296
7997	GRANTS ADMINISTRAT	I	\$365,000	\$100,000	\$465,000	\$226,636	\$14	\$238,350
7998	OVERHEAD METRO FIELD	I	\$2,052,813	\$1,096,194	\$3,149,007	\$1,083,869	\$17,060	\$2,048,078
8151	LAKE GERVAIS INTCP	III	\$7,325,000	\$0	\$7,325,000	\$6,516,670	\$92,189	\$716,141
8163	PLANNING PROG BUD SYS	I	\$969,000	\$0	\$969,000	\$394,617	\$0	\$574,383
8252	CAB INTERCEPTOR	III	\$17,320,000	\$0	\$17,320,000	\$16,151,750	\$169,053	\$999,197
8253	LAKE ANN INTCP	III	\$12,700,000	\$3,000,000	\$15,700,000	\$644,721	\$708,835	\$14,346,444
8253343	EXCELSIOR LIFT STAT	III	\$1,500,000	\$0	\$1,500,000	\$106,374	\$61,355	\$1,332,271
8254	INTERCEPTOR REHAB	II, III	\$100,000	\$0	\$100,000	\$4,957	\$0	\$95,043
8255	MPLS EAST INTCP	III	\$41,000,000	\$0	\$41,000,000	\$15,957,164	\$21,119,972	\$3,922,864
8256	MWWTP SCREEN & GRIT	III	\$8,750,000	\$0	\$8,750,000	\$3,665,914	\$3,414,789	\$1,669,297
8257	MWWTP PRIMARY TREAT	III	\$13,535,000	\$0	\$13,535,000	\$6,231,173	\$4,534,721	\$2,769,106
8258	MWWTP SECONDARY TREAT	III	\$4,550,000	\$0	\$4,550,000	\$4,030,211	\$201,126	\$318,663
8259	BLUE LAKE PLANT SLUD	III	\$4,800,000	\$0	\$4,800,000	\$3,360,361	\$1,385,397	\$54,242
8351	CHASKA PLANT IMPR	III	\$4,650,000	\$0	\$4,650,000	\$953,646	\$3,280,816	\$415,538
8352	MAPLE PLAIN INTCP	III	\$2,625,000	\$0	\$2,625,000	\$2,325,362	\$183,653	\$115,985
8353	MINNESOTA RIVER STUDY	I	\$175,000	\$0	\$175,000	\$99,910	\$1,400	\$73,690
8354	MWWTP ENERGY STUDY	I	\$235,000	\$0	\$235,000	\$34,903	\$0	\$200,097
8355	MWWTP FIRE DETECTION	III	\$625,000	\$0	\$625,000	\$15,530	\$0	\$609,470
8356	LIFT STATION ELEC SYS	I	\$175,000	\$0	\$175,000	\$1,525	\$0	\$173,475
8357	METER LIFT STATION AL	III	\$5,000,000	\$0	\$5,000,000	\$322,751	\$517,649	\$4,159,600
8358	MWWTP DISINFECTION	III	\$5,500,000	\$200,000	\$5,700,000	\$5,275,513	\$128	\$424,359
8361	LINO LAKE 2ND INTCP	III	\$450,000	\$0	\$450,000	\$445,246	\$48,991	(\$44,237)
8365	MISC CAPITAL IMPROVE	III	\$3,300,188	\$0	\$3,300,188	\$3,039,851	\$85,438	\$174,899
8451	NEW BRIGHTON INTCP	III	\$1,452,000	\$173,000	\$1,625,000	\$280,708	\$768,868	\$575,424
8551	ROSEMOUNT PLANT REPL	III	\$5,300,000	\$0	\$5,300,000	\$54,319	\$127,641	\$5,118,040
8552	SENECA SLUDGE HANDLE	II	\$3,900,000	\$1,500,000	\$5,400,000	\$174,366	\$166,119	\$5,059,515
8553	METRO PLANT WATER IMP	III	\$450,000	\$0	\$450,000	\$19,304	\$0	\$430,696
8554	BLUE LAKE PLANT EXP	II	\$750,000	\$2,250,000	\$3,000,000	\$107,566	\$0	\$2,892,434
8555	EMPIRE PLANT EXP	III	\$850,000	\$15,000,000	\$15,850,000	\$123,080	\$0	\$15,726,920
8556	METRO PLANT STUDIES	I	\$1,100,000	\$600,000	\$1,700,000	\$656,122	\$25,070	\$1,018,808
8557	SENECA PLANT STUDY	II	\$625,000	\$2,375,000	\$3,000,000	\$109,470	\$5,430	\$2,885,100
8558	SA 1 STUDY FOR REG SY	I	\$100,000	\$0	\$100,000	\$380	\$0	\$99,620
8559	METER STATION IMPR	III	\$2,250,000	\$1,250,000	\$3,500,000	\$83,014	\$0	\$3,416,986
8560	SAVAGE INTCP	III	\$6,000,000	\$0	\$6,000,000	\$270,981	\$202,544	\$5,526,475
8561	METRO LAB MODIF	III	\$821,000	\$0	\$821,000	\$760,656	\$12,004	\$48,340

SCHEDULE 11

FINANCIAL STATUS - CURRENT PROJECTS

8562 METRO PLANT ASH BASIN	II	\$800,000	\$0	\$800,000	\$35,440	\$0	\$764,560
8563 LAKEVILLE LIFT STAT	III	\$1,100,000	\$400,000	\$1,500,000	\$166,786	\$0	\$1,333,214
8565 MISC CAPITAL IMPROVE	III	\$1,200,000	\$0	\$1,200,000	\$743,322	\$148,537	\$308,141
8566 MIDDLE BELTLINE INTCP	III	\$22,300,000	\$0	\$22,300,000	\$2,577,259	\$857,397	\$18,865,344
8567 ORONO INTCP IMPROVE	III	\$1,600,000	\$800,000	\$2,400,000	\$167,678	\$144,412	\$2,087,910
8568 EAGAN INTCP	III	\$1,500,000	\$0	\$1,500,000	\$129,042	\$18,477	\$1,352,481
8653 STILLWATER PLANT EXP	II	\$500,000	\$500,000	\$1,000,000	\$4,706	\$0	\$995,294
8654 MPLS 38TH ST INTCP	III	\$1,500,000	\$0	\$1,500,000	\$75,735	\$1,000	\$1,423,265
8655 PLYMOUTH INTCP	III	\$1,120,000	\$8,380,000	\$9,500,000	\$73,374	\$42,839	\$9,383,787
8656 BLAINE INTERCEPTOR	II	\$1,700,000	\$0	\$1,700,000	\$323	\$0	\$1,699,677
8658 JOINT INTCP REHAB	I	\$250,000	\$0	\$250,000	\$1,491	\$0	\$248,509
8659 JOINT INTCP ACCESS	I	\$100,000	\$25,000	\$125,000	\$12,595	\$96,000	\$16,405
8660 TROUT BROOK INTCP	III	\$6,950,000	\$1,550,000	\$8,500,000	\$205,661	\$377,696	\$7,916,643
8665 MISC CAPITAL IMPROVE	II	\$4,000,000	\$0	\$4,000,000	\$392,499	\$98,259	\$3,509,242
8751 ANOKA WWTP PHASEOUT	II	\$300,000	\$0	\$300,000	\$0	\$0	\$300,000
8752 MWWTP EFFLUENT PUMP	II	\$200,000	\$0	\$200,000	\$0	\$0	\$200,000
8753 PLANNING - CAPITAL	I	\$1,044,000	\$1,066,000	\$2,110,000	\$0	\$0	\$2,110,000
8754 MPLS-EAST PHASE 2	III	\$0	\$26,000,000	\$26,000,000	\$0	\$0	\$26,000,000
8755 MWWTP-RBS IMPROVEMNT	III	\$900,000	\$0	\$900,000	\$0	\$0	\$900,000

TOTALS		\$382,772,228	\$66,765,194	\$449,537,422	\$245,158,760	\$43,483,181	\$160,895,481
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SCHEDULE 11-1

Project Description:

Consists of the design and construction of a 34,000 square foot building to provide for a centralized maintenance and computer center.

Project Status:

Authorization: Included in the Waste Management Policy Plan as a previously approved system improvement.

Step I: Completed

Step II: Completed

Step III: Completion in mid 1987.

Objectives for 1988: Close out project.

Objectives for Future Years:

1989 - N/A

1990 - N/A

1991 - N/A

1992 - N/A

Rationale for
Additional Appropriation

1987 budget amendment reduction
of \$500,000.

Appropriations

1987 Budget (87 Amendment)	\$ 2,850,000	
Expenditures to 12/31/86		2,416,363
Balance Required		433,637
Total Funds Required		2,850,000
Additional Appropriation	-0-	
Total 1988 Budget	2,850,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ _____	\$ _____	\$ 2,416,363	\$ 2,416,363
1987	_____	_____	15,000	15,000
First Quarter 1988	_____	_____	5,000	5,000
Second Quarter 1988	_____	_____	_____	_____
Third Quarter 1988	_____	_____	_____	_____
Fourth Quarter 1988	_____	_____	_____	_____
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
1991	_____	_____	_____	_____
1992	_____	_____	_____	_____
Estimated Contingency Funds	_____	_____	413,637	413,637
Total	_____	_____	2,850,000	2,850,000

SCHED:pap
3.13.87

Project Description:

This project consists of two sludge incinerators. This contract will be for the incinerators furnished and installed in the sludge processing building. The project is complete and eligibility of construction grant funding for a construction claim has to be resolved.

Project Status:

Authorization: Included in the Waste Management Policy Plan as a previously approved system improvement project.

Step I: Completed

Step II: Completed

Step III: Completed

Objectives for 1988: Close out project.

Objectives for Future Years

1989

1990

1991

1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$11,800,066	
Expenditures to 12/31/86		11,727,038
Balance Required		73,028
Total Funds Required		11,800,066
Additional Appropriation	None	
Total 1988 Budget	11,800,066	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ 7,195,713	\$ 1,439,143	\$ 3,092,182	\$ 11,727,038
1987			5,000	5,000
First Quarter 1988			5,000	5,000
Second Quarter 1988				
Third Quarter 1988				
Fourth Quarter 1988				
1989				
1990				
1991				
1992				
Estimated Contingency Funds			63,028	63,028
Total	7,195,713	1,439,143	3,165,210	11,800,066

SCHED:pap
3.13.87

Project Description:

This project consists of a building complex to house sludge incinerators, waste heat recovery facilities, sludge drying facilities and storage and loadout area. Equipment included in the the sludge processing building includes rotary sludge dryers, gas cleaning systems, waste heat boilers and incinerator modifications. Remaining improvements consist of installation of silencers and a study on the incinerator emissions.

Project Status:

Authorization: Included in the Waste Management Policy Plan as a previously approved system improvement project.
 Step I: Completed
 Step II: Completed
 Step III: Completed

Objectives for 1988: Resolve pending appeal on grant eligible items for construction grant findings. Complete installation of silencers. Complete study.

Objectives for Future Years

1989 - Review study on emissions.
 1990 - N/A
 1991 - N/A
 1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$101,605,000
Expenditures to 12/31/86	101,034,965
Balance Required	570,035
Total Funds Required	101,605,000
Additional Appropriation	None
Total 1988 Budget	101,605,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ 56,653,725	\$ 11,330,745	\$ 33,050,495	\$ 101,034,965
1987			50,000	50,000
First Quarter 1988			50,000	50,000
Second Quarter 1988			50,000	50,000
Third Quarter 1988			50,000	50,000
Fourth Quarter 1988			50,000	50,000
1989			50,000	50,000
1990				
1991				
1992				
Estimated Contingency Funds			270,035	270,035
Total	56,653,725	11,330,745	33,620,530	101,605,000

SCHED:pap
 3.13.87

Project Description:

The objective of the study is to develop a technically, economically and environmentally acceptable system for the reuse and/or disposal of residual solids, such as ash, grit, screenings and sludge from all the Commission's treatment plants. Immediate ash and sludge disposal needs will be analyzed and alternatives for a long-range system will be refined, including the determination of the viability of economically marketed heat dried sludge.

Project Status:

Authorization: This project included in the Waste Management Policy Plan as a study.

Step I:
Step II:
Step III:

Objectives for 1988: To complete a study of residual solids management needs for facilities other than the Metropolitan, Blue Lake and Seneca Plants.

Objectives for Future Years

1989 - N/A
1990 - N/A
1991 - N/A
1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 1,774,798	
Expenditures to 12/31/86		1,758,185
Balance Required		116,613
Total Funds Required		1,874,798
Additional Appropriation	100,000	
Total 1988 Budget	1,874,798	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ 1,225,772	\$ 245,154	\$ 287,259	\$ 1,758,185
1987			16,613	16,613
First Quarter 1988			10,000	10,000
Second Quarter 1988			40,000	40,000
Third Quarter 1988			40,000	40,000
Fourth Quarter 1988			10,000	10,000
1989				
1990				
1991				
1992				
Estimated Contingency Funds				
Total	1,225,772	245,154	403,872	1,874,798

Project Description:

The MPCA, in accordance with the terms of PL 92-500, Water Pollution Control Act Amendments, 1972, has issued NPDES permits for each of the treatment plants under the jurisdiction of the MWCC. The permits for the plants which remain as permanent facilities will require updating and review. Each plant has its individual problems and requirements and it will be necessary to determine the impact of the proposed revisions to each permit. The permits for the combined sewer overflow points will also be reviewed in this program.

Project Status:

Authorization: This project is included in the Waste Management Plan as a study.

Step I:

Step II:

Step III:

Objectives for 1988: Continue program to develop information for permits.

Objectives for Future Years

1989

1990

1991

1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 195,000	
Expenditures to 12/31/86		126,621
Balance Required		68,379
Total Funds Required		195,000
Additional Appropriation	None	
Total 1988 Budget	195,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 126,621	\$ 126,621
1987				
First Quarter 1988			5,000	5,000
Second Quarter 1988			5,000	5,000
Third Quarter 1988			5,000	5,000
Fourth Quarter 1988			5,000	5,000
1989				
1990				
1991				
1992				
Estimated Contingency Funds			48,379	48,379
Total			195,000	195,000

Project Description:

The project will add several existing plant process areas to the plant's computer system. Each area to be monitored and/or controlled is connected to the computer system through existing and new field process instruments wired to termination cabinet/multiplexer units.

Project Status:

Authorization: Included in the Waste Management Policy Plan as a previously approved system improvement project.
 Step I: Completed
 Step II: Completed
 Step III: To be completed in 1988.

Objectives for 1988:

To start-up all affected process areas on the computer and begin the one year performance certification period.

Objectives for Future Years

1989 - Finalize project, complete performance certification and O&M Manual revisions per MPCA requirements.
 1990 - N/A
 1991 - N/A
 1992 - N/A

Additional Appropriation

Appropriations

1987 Budget	\$17,750,000	
Expenditures to 12/31/86		12,777,850
Balance Required		4,972,150
Total Funds Required		17,750,000
Additional Appropriation	None	
Total 1988 Budget	17,750,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ 6,837,341	\$ 1,367,467	\$ 4,494,986	\$ 12,699,794
1987	2,554,605	510,923	(65,528)	3,000,000
First Quarter 1988	375,000	75,000	50,000	500,000
Second Quarter 1988	354,112	70,822	47,216	472,150
Third Quarter 1988	66,042	13,208	8,806	88,056
Fourth Quarter 1988	7,500	1,500	1,000	10,000
1989			20,000	20,000
1990				
1991				
1992				
Estimated Contingency Funds			960,000	960,000
Total	10,194,600	2,038,920	5,516,480	17,750,000

Project Description:

The study had determined the environmental impact of the combined sewer overflow on the Mississippi River and formulated an abatement program leading towards the reduction or elimination of combined sewer overflow. The study included an assessment of combined sewer overflows, general planning of the abatement program and preliminary engineering of the required abatement facilities. Work will continue to develop operation plans for the regulators and effectiveness verification of separated areas and other information to fulfill the permit conditions.

Project Status:

Authorization: Included in the Waste Management Policy Plan as a study.
 Step I: Completed
 Step II: Projects defined in the study are designed or under design.
 Step III: Construction of projects underway.

Objectives for 1988: Continue monitoring CSO NPDES permit compliance, reporting.

Objectives for Future Years

1989 - Satisfy permit requirements.
 1990 - "
 1991 - "
 1992 - "

Rationale for
Additional Appropriation

Appropriations

Additional funds are needed to develop operation plans, verify separated area effectiveness and develop a model to monitor the CSO.

1987 Budget	\$ 3,058,600	
Expenditures to 12/31/86		2,972,888
Balance Required		85,712
Total Funds Required		3,058,600
Additional Appropriation	200,000	
Total 1988 Budget	3,258,600	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ 1,970,676	\$ 394,135	\$ 608,077	\$ 2,972,888
1987			50,000	50,000
First Quarter 1988			58,500	58,500
Second Quarter 1988			58,500	58,500
Third Quarter 1988			59,000	59,000
Fourth Quarter 1988			59,712	59,712
1989				
1990				
1991				
1992				
Estimated Contingency Funds				
Total	1,970,676	394,135	893,789	3,258,600

Project Description:

The project provides for the construction of a new interceptor to replace the existing under capacity line and also modifications to the under sized regulator. The interceptor extends from near the intersection of Warner Road & Highway 61 to the joint interceptor at Childs Road.

Project Status:

Authorization: Included in the Development Program for years 1978-1982.

Step I: Completed

Step II: Completed

Step III: Completed

Objectives for 1988: Close out project.

Objectives for Future Years

1989 - N/A

1990 - N/A

1991 - N/A

1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 4,150,000	
Expenditures to 12/31/86		3,724,141
Balance Required		415,859
Total Funds Required		4,150,000
Additional Appropriation	None	
Total 1988 Budget	4,150,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ 2,067,776	\$ 413,555	\$ 1,242,810	\$ 3,724,141
1987	177,574	35,515	(208,089)	5,000
First Quarter 1988			5,000	5,000
Second Quarter 1988				
Third Quarter 1988				
Fourth Quarter 1988				
1989				
1990				
1991				
1992				
Estimated Contingency Funds			415,859	415,859
Total	2,245,350	449,070	1,455,580	4,150,000

SCHED:pap
3.13.87

Project Description:

The purpose is that of determining the most cost effective solution on a regional basis, including an evaluation of non-monetary factors of each alternative.

Project Status:

Authorization: Included in the Waste Management Policy Plan as a study.
 Step I: Study to begin in 1988.
 Step II:
 Step III:

Objectives for 1988: To evaluate specific areas in the sewer planning for the Woodbury area and Elm Creek Watershed to meet policy plan issues.

Objectives for Future Years

1989 - N/A
 1990 - N/A
 1991 - N/A
 1992 - N/A

Rationale for
 Additional Appropriation

To provide funds for specific studies of sewer planning issues.

Appropriations

1987 Budget	\$ 524,363	
Expenditures to 12/31/86		502,989
Balance Required		221,374
Total Funds Required		2,724,363
Additional Appropriation	200,000	
Total 1988 Budget	724,363	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ 352,092	\$ 75,448	\$ 75,449	\$ 502,989
1987			21,374	21,374
First Quarter 1988			25,000	25,000
Second Quarter 1988			75,000	75,000
Third Quarter 1988			75,000	75,000
Fourth Quarter 1988			25,000	25,000
1989				
1990				
1991				
1992				
Estimated Contingency Funds				
Total	352,092	75,448	296,823	724,363

SCHED:pap
 3.13.87

Project Description:

The Hastings WWTP was expanded to treat an average daily wastewater flow of 2.3 mgd. Existing units were rehabilitated and additional units added. The plant provides primary treatment followed by activated sludge treatment, effluent chlorination and solids treatment by digestion. A new odor control system and a new sludge loading building were constructed. Odor control improvements will be provided as part of this project.

Project Status:

Authorization: Included in the Waste Management Policy Plan & Development Program by amendment in 1979.
 Step I: Completed
 Step II: Completed
 Step III: To be completed in 1987.

Objectives for 1988: Close out project.

Objectives for Future Years

1989 - N/A
 1990 - N/A
 1991 - N/A
 1992 - N/A

Rationale for
 Additional Appropriation

Appropriations

1987 Budget	\$ 9,513,625	
Expenditures to 12/31/86		9,230,479
Balance Required		283,146
Total Funds Required		9,153,625
Additional Appropriation	None	
Total 1988 Budget	9,513,625	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ 6,169,495	\$ 1,122,012	\$ 1,938,972	\$ 9,230,479
1987	63,905	124,668	(178,573)	10,000
First Quarter 1988			5,000	5,000
Second Quarter 1988				
Third Quarter 1988				
Fourth Quarter 1988				
1989				
1990				
1991				
1992				
Estimated Contingency Funds			268,146	268,146
Total	6,233,400	1,246,680	2,033,545	9,513,625

SCHED:pap
 3.13.87

Project Description:

Project consists of adding four additional aeration tanks and three additional final clarifiers to the existing four east battery aeration tanks and nine clarifiers. Coarse bubble diffuser, similar to those in the existing aeration tanks, were installed in three new aeration tanks and fine bubble diffusers were installed in the fourth tank.

Project Status:

Authorization: Included in the Development Program by amendment.
 Step I: Completed
 Step II: Completed
 Step III: Completed except for resolution of grant funding on several change orders.

Objectives for 1988: Close out project.

Objectives for Future Years

1989 - N/A
 1990 - N/A
 1991 - N/A
 1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 21,036,775
Expenditures to 12/31/86	20,744,062
Balance Required	292,713
Total Funds Required	21,036,775
Additional Appropriation	None
Total 1988 Budget	21,036,775

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ 14,679,789	\$ 2,935,958	\$ 3,128,315	\$ 20,744,062
1987			5,000	5,000
First Quarter 1988			5,000	5,000
Second Quarter 1988				
Third Quarter 1988				
Fourth Quarter 1988				
1989				
1990				
1991				
1992				
Estimated Contingency Funds			282,713	282,713
Total	14,679,789	2,935,958	3,421,028	21,036,775

Project Description:

This program accumulates Construction Department overhead costs not reimbursable by the Federal Government.

Project Status:

Authorization: Overhead for all construction projects.

Step I:

Step II: Project is being phased-out.

Step III:

Objectives for 1988

Objectives for Future Years

1989 - N/A

1990 - N/A

1991 - N/A

1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 150,000	
Expenditures to 12/31/86		106,704
Balance Required		43,296
Total Funds Required		150,000
Additional Appropriation	None	
Total 1988 Budget	150,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 106,704	\$ 106,704
1987			43,296	43,296
First Quarter 1988				
Second Quarter 1988				
Third Quarter 1988				
Fourth Quarter 1988				
1989				
1990				
1991				
1992				
Estimated Contingency Funds				
Total			150,000	150,000

SCHED:pap
3.13.87

Project Description: To consolidate the grant management functions of the Commission.

Project Status: This will be an on-going program within the Commission.

Authorization: Overhead costs for construction fund.

Step I:

Step II:

Step III:

Objectives for 1988

To administer federal and state construction grants and other financial assistance grants.

Objectives For Future Years

1989 - Continue Program

1990 - Continue Program

1991 - Continue Program

1992 - Continue Program

Appropriations

1987 Budget	\$ 365,000	
Expenditures to 12-31-86		226,636
Balance Required		238,364
Total Funds Required		465,000
Additional Appropriation	100,000	
Total 1988 Budget	465,000	

Rationale for
Additional Appropriation

Additional funds are necessary to continue the construction grants program in 1988.

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 226,636	\$ 226,636
1987			138,364	138,364
First Quarter 1988			25,000	25,000
Second Quarter 1988			25,000	25,000
Third Quarter 1988			25,000	25,000
Fourth Quarter 1988			25,000	25,000
1989				
1990				
1991				
1992				
Estimated Contingency Funds				
Total			\$ 465,000	\$ 465,000

Project Description:

This program provides for the administration of the department and for indirect costs associated with its operations. It includes such non-labor expenses as motor vehicle purchase and operation, travel, training, office equipment and supplies, publications, rent, utilities and printing. It provides for labor expenses such as those associated with attending staff meetings, training, developing budgets, moving to the new office building, records management, personnel administration and general department management.

Project Status:

Authorization:

Step I:

Step II:

Step III:

Objectives for 1988: Continue program.

Objectives for Future Years

1989 - Continue program.

1990 - Continue program.

1991 - Continue program.

1992 - Continue program.

Rationale for
Additional Appropriation

Provide additional funds for Engineering/Construction Dept. in 1988.

Appropriations

1987 Budget	\$ 2,052,813	
Expenditures to 12/31/86		1,083,849
Balance Required		2,065,158
Total Funds Required		3,149,007
Additional Appropriation	1,096,194	
Total 1988 Budget	3,149,007	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 1,083,869	\$ 1,083,869
1987			852,793	852,793
First Quarter 1988			270,000	270,000
Second Quarter 1988			270,000	270,000
Third Quarter 1988			270,000	270,000
Fourth Quarter 1988			273,849	273,849
1989			128,496	128,496
1990				
1991				
1992				
Estimated Contingency Funds				
Total			3,149,007	3,149,007

SCHED:pap
3.13.87

Project Description:

This project provides for a new gravity interceptor starting from the Beltline Interceptor near the intersection of Highways 61 and 36 in Maplewood and going in a westerly and northwesterly direction to the Lake Gervais Lift Station where the proposed interceptor will connect to the existing Little Canada Interceptor. The construction of this interceptor will allow the existing and over capacity Lake Gervais Lift Station to be modified and the forcemain to be phased out of service.

Project Status:

Authorization: Included in the 1978-1982 Development Program.
 Step I: Completed
 Step II: Completed
 Step III: Completed

Objectives for 1988: Close out project.

Objectives for Future Years

1989 - N/A
 1990 - N/A
 1991 - N/A
 1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 7,325,000
Expenditures to 12/31/86	<u>6,516,670</u>
Balance Required	<u>808,330</u>
Total Funds Required	<u>7,325,000</u>
Additional Appropriation	<u>None</u>
Total 1988 Budget	<u>7,325,000</u>

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 6,516,670	\$ 6,516,670
1987			<u>5,000</u>	<u>5,000</u>
First Quarter 1988			<u>5,000</u>	<u>5,000</u>
Second Quarter 1988				
Third Quarter 1988				
Fourth Quarter 1988				
1989				
1990				
1991				
1992				
Estimated Contingency Funds			<u>798,330</u>	<u>798,330</u>
Total			<u>7,325,000</u>	<u>7,325,000</u>

SCHED:pap
 3.13.87

Project Description:

This project provides for continuation of comprehensive long range Commission planning in coordination with various agencies. The program provides resources for the implementation of facility planning studies to update previous work.

Project Status:

Authorization: Included in prior capital budgets with concurrence of the Met Council.

Step I: Ongoing studies

Step II:

Step III:

Objectives for 1988

Complete any remaining studies begun in 1987.

Objectives For Future Years

1989 - N/A

1990 - N/A

1991 - N/A

1992 - N/A

AppropriationsRationale for
Additional Appropriation

1987 Budget	\$ 969,000	
Expenditures to 12-31-86		394,617
Balance Required		574,383
Total Funds Required		969,000
Additional Appropriation	None	
Total 1988 Budget	969,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 394,617	\$ 394,617
1987			394,383	394,383
First Quarter 1988			80,000	80,000
Second Quarter 1988				
Third Quarter 1988				
Fourth Quarter 1988				
1989				
1990				
1991				
1992				
Estimated Contingency Funds			100,000	100,000
Total			\$ 969,000	\$ 969,000

Project Description:

This CAB Interceptor consists of an interceptor from the existing Brooklyn Park Interceptor northwesterly up to Champlin. The interceptor will provide gravity service up to the southwest corner of the old village limits of Champlin and provide a future outlet for the phaseout of the Anoka Plant via a lift station and forcemain. This project consists of a 9 mile gravity interceptor, ranging in size from 42 inch to 66 inch in diameter. The interceptor consists of two projects which were constructed from 1983 to 1985.

Project Status:

Authorization: Included in the Development Program for years 1981-1986.

Step I: Completed

Step II: Completed

Step III: Completed

Objectives for 1988: To resolve construction and financial issues and close out project.

Objectives for Future Years

1989 - N/A

1990 - N/A

1991 - N/A

1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 17,320,000
Expenditures to 12/31/86	16,151,750
Balance Required	1,168,250
Total Funds Required	17,320,000
Additional Appropriation	None
Total 1988 Budget	17,320,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 16,151,750	\$ 16,151,750
1987			468,250	468,250
First Quarter 1988			5,000	5,000
Second Quarter 1988				
Third Quarter 1988				
Fourth Quarter 1988				
1989				
1990				
1991				
1992				
Estimated Contingency Funds			695,000	695,000
Total			17,320,000	17,320,000

Project Description:

Improvements to the lift station include removal of the existing pumps, motors and controls and the installation of six new pumps with a capacity of 2,400 gpm each for a firm station capacity of 12,000 gpm. The new pumps would be powered by 150 horsepower motors, three of which would have variable speed controls. The discharge piping would be revised to fit the new pumps. The existing valves would be replaced with plug valves and arranged to allow two pumps with variable speed controls to pump to the Excelsior Lift Station at a rate of approximately 2,000 gpm each. Surge control valves would be installed on each pump. A building addition will be required to house new controls and to provide for installation of stairways into the wet well and dry well. Other miscellaneous improvements include a fence around the odor control equipment, replacement of the wet well platform, additional ventilation equipment and additional roof insulation.

Project Status:

Authorization: Included in the 1984-1988 Development Program by amendment.

Step I: Completed

Step II: Completed in 1987.

Step III: Substantial completion in 1988.

Objectives for 1988: Substantial completion of project.

Objectives for Future Years

1989 - Close out project.

1990

1991

1992

Rationale for
Additional Appropriation

Appropriations

Based on revised construction cost estimates.

1987 Budget	\$ 1,092,038	(Est. component of total 82-53 budget)
Expenditures to 12/31/86	22,380	
Balance Required	1,327,620	
Total Funds Required	1,350,000	
Additional Appropriation	257,962	
Total 1988 Budget	1,350,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 22,380	\$ 22,380
1987			350,000	350,000
First Quarter 1988			200,000	200,000
Second Quarter 1988			300,000	300,000
Third Quarter 1988			200,000	200,000
Fourth Quarter 1988			50,000	50,000
1989			227,620	227,620
1990				
1991				
1992				
Estimated Contingency Funds				
Total			1,350,000	1,350,000

Project Description:

The forcemain is 30" in diameter and is designed to convey 17.3 mgd (12,000 gpm). The Lake Virginia Forcemain will be 16,500 feet long. The project begins at the Lake Virginia Lift Station, running easterly along 62nd Street to Church Street. The forcemain follows State Highway 7 from Church Street to State Highway 41. The forcemain turns south on Highway 41 for approximately 3,000 feet before connecting to the Lake Ann Interceptor.

Project Status:

Authorization: Included in the 1984-1988 Development Program by amendment.

Step I: Completed

Step II: Completed in 1987

Step III: Substantial completion in 1988

Objectives for 1988: Substantial completion.

Objectives for Future Years

1989 - Close out project.

1990

1991

1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget \$ 1,597,611 (Est. component of total 82-53 budget)

Expenditures to 12/31/86 32,741

Balance Required 1,942,259

Total Funds Required 1,975,000

Additional Appropriation 377,389

Total 1988 Budget 1,975,000

Based on revised construction
cost estimates.

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ _____	\$ _____	\$ 32,741	\$ 32,741
1987	_____	_____	600,000	600,000
First Quarter 1988	_____	_____	200,000	200,000
Second Quarter 1988	_____	_____	450,000	450,000
Third Quarter 1988	_____	_____	300,000	300,000
Fourth Quarter 1988	_____	_____	50,000	50,000
1989	_____	_____	342,259	342,259
1990	_____	_____	_____	_____
1991	_____	_____	_____	_____
1992	_____	_____	_____	_____
Estimated Contingency Funds	_____	_____	_____	_____
Total	_____	_____	1,975,000	1,975,000

SCHED:pap
3.13.87

Project Description:

The Lake Ann Interceptor will consist of 22,000 feet of 30" to 42" gravity interceptor. It begins at the end of the Lake Virginia Forcemain and continues southeasterly toward Galpin Lake Road. The pipe then continues east from Galpin Lake Road towards and along the western side of Lake Ann. North of State Highway 5, the pipe again turns east and then southeast, crosses State Highway 5 and enters the Chanhassen Lakes Industrial Park. The Lake Ann Interceptor parallels Chanhassen's existing Lake Ann trunk sewer through the industrial park and continues south beneath the railroad and then follows Riley Creek to the shore of Lake Susan. The pipe then follows the north shore of Lake Susan, crosses State Highway 101 and connects to the existing Lake Ann Interceptor, Phase I. The Lake Ann Interceptor provides MWOC interceptor service to Chanhassen and the upstream communities located west and southwest of Lake Minnetonka. The facility also provides local trunk sanitary sewer service to the area in Chanhassen north of State Highway 5.

Project Status:

Authorization: Included in the 1984-1988 Development Program by amendment.
 Step I: Completed
 Step II: Completed in 1987
 Step III: Substantial completion in 1988

Objectives for 1988: Substantial completion.

Objectives for Future Years

1989 - Close out project.
 1990
 1991
 1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 4,246,817	(Est. component of total 82-53 budget)	
Expenditures to 12/31/86		87,032	
Balance Required		<u>5,162,968</u>	
Total Funds Required		<u>5,250,000</u>	
Additional Appropriation	<u>1,003,183</u>		
Total 1988 Budget	<u>5,250,000</u>		

Based on revised construction cost estimates.

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 87,032	\$ 87,032
1987			<u>1,350,000</u>	<u>1,350,000</u>
First Quarter 1988			<u>600,000</u>	<u>600,000</u>
Second Quarter 1988			<u>800,000</u>	<u>800,000</u>
Third Quarter 1988			<u>800,000</u>	<u>800,000</u>
Fourth Quarter 1988			<u>600,000</u>	<u>600,000</u>
1989			<u>1,012,968</u>	<u>1,012,968</u>
1990				
1991				
1992				
Estimated Contingency Funds				
Total			<u>5,250,000</u>	<u>5,250,000</u>

Project Description:

The Red Rock Interceptor will consist of a 20,500 foot, 42" to 54" gravity interceptor. It connects to the Lake Ann Interceptor at the Chanhassen Lift Station. The interceptor then follows the north and east shores of Rice Marsh Lake before turning east. The interceptor passes south of Mirchell Lake, crosses a railroad, heads southeast toward County Road 4. East of County Road 4, the interceptor follows a ravine through backyards of existing homes. The pipe is then routed along the west and south side of Red Rock Lake and through the proposed Red Rock Ranch development to Mitchell Road. It follows Mitchell Road and a ravine to the north side of Staring Lake and then follows Research Road to the Purgatory Creek Interceptor. A metering station will be installed downstream of the existing Chanhassen Lift Station.

Project Status:

Authorization: Included in the 1984-1988 Development Program by amendment.
 Step I: Completed
 Step II: Completed in 1987.
 Step III: Substantial completion in 1988.

Objectives for 1988: Substantial completion.

Objectives for Future Years

1989 - Close out project.
 1990
 1991
 1992

Rationale for
Additional Appropriation
 Based on revised construction cost
 estimate.

Appropriations

1987 Budget	\$ 5,763,523	(est component of total
Expenditures to 12/31/86	118,116	82-53 budget)
Balance Required	7,006,884	
Total Funds Required	7,125,000	
Additional Appropriation	1,361,466	
Total 1988 Budget	7,125,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 502,568	\$ 502,568
1987			1,550,000	1,550,000
First Quarter 1988			900,000	900,000
Second Quarter 1988			1,100,000	1,100,000
Third Quarter 1988			1,100,000	1,100,000
Fourth Quarter 1988			900,000	900,000
1989			1,072,432	1,072,432
1990				
1991				
1992				
Estimated Contingency Funds				
Total			7,125,000	7,125,000

Project Description:

This project consists of improvements to the existing Excelsior Lift Station, reconstruction of the surge relief manhole at the Galpin Lake Lift Station and construction of 400 ft. of parallel gravity sewer to relieve a capacity restriction in the Shorewood interceptor. The improvements at the Excelsior Lift Station will include an expanded wet well and dry well area, installation of 2 variable speed and 4 constant speed pumps and new electrical and mechanical equipment. The resulting station capacity will be 10 mgd.

Project Status:

Authorization: Included in the 1984-1988 Development Program in 1985.

Step I: Completed

Step II: Completed

Step III: Begun in early 1987, continue to 1988

Objectives for 1988: To complete construction.

Objectives for Future Years

1989 - To finalize the project.

1990 - N/A

1991 - N/A

1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 1,500,000
Expenditures to 12/31/86	106,374
Balance Required	1,393,626
Total Funds Required	1,500,000
Additional Appropriation	None
Total 1988 Budget	1,500,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 106,374	\$ 106,374
1987			715,000	715,000
First Quarter 1988			321,813	321,813
Second Quarter 1988			321,813	321,813
Third Quarter 1988			10,000	10,000
Fourth Quarter 1988			10,000	10,000
1989			10,000	10,000
1990			5,000	5,000
1991				
1992				
Estimated Contingency Funds				
Total			1,500,000	1,500,000

SCHED:pap
3.13.87

Project Description:

This project will consist of design and construction services to rehabilitate numerous areas in the interceptor system. The rehabilitation services will be to primarily eliminate excessive inflow/infiltration in numerous reaches of the interceptor system.

Project Status:

Authorization: Included in the Development Program for years 1981-1986.

Step I: Completed
Step II: On Going
Step III:

Objectives for 1988: Continue rehabilitation efforts.

Objectives for Future Years

1989
1990
1991
1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 100,000	
Expenditures to 12/31/86		4,957
Balance Required		95,043
Total Funds Required		100,000
Additional Appropriation	None	
Total 1988 Budget	100,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 4,957	\$ 4,957
1987			5,000	5,000
First Quarter 1988			1,000	1,000
Second Quarter 1988			1,000	1,000
Third Quarter 1988			1,000	1,000
Fourth Quarter 1988			1,000	1,000
1989				
1990				
1991				
1992				
Estimated Contingency Funds			86,043	86,043
Total			100,000	100,000

SCHED:pap
3.13.87

Project Description:

The project consists of the construction of about four miles of ten foot diameter parallel interceptor on the existing Minneapolis East Interceptor. Phase I of the interceptor, between 2nd and Main and Lake Street, will be the initial construction. Phase II design will be updated under this program and construction initiated in a future program.

Project Status:

Authorization: Included in the Development Program for years 1981-1986.
 Step I: Completed
 Step II: Completed
 Step III: Phase I construction underway.

Objectives for 1988: Completion of Phase I.

Objectives for Future Years

1989
 1990
 1991
 1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$41,000,000	
Expenditures to 12/31/86		15,957,164
Balance Required		25,042,836
Total Funds Required		41,000,000
Additional Appropriation	None	
Total 1988 Budget	41,000,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$ 963,023	\$ 14,994,141	\$ 15,957,164
1987		1,000,000	11,000,000	12,000,000
First Quarter 1988		250,000	3,792,836	4,042,836
Second Quarter 1988		250,000	2,750,000	3,000,000
Third Quarter 1988		250,000	2,250,000	2,500,000
Fourth Quarter 1988		250,000	(250,000)	
1989		1,000,000	(1,000,000)	
1990		1,000,000	(1,000,000)	
1991		1,000,000	(1,000,000)	
1992 - future		8,364,294	(8,364,294)	
Estimated Contingency Funds		3,500,000		3,500,000
Total		17,827,317	23,172,683	41,000,000

SCHED:pap
 3.13.87

Project Description:

The MWWTP West Pretreatment Facilities, located in the Screen & Grit Building, is required to provide treatment to about 1/3 of the flow arriving at the Plant and is particularly important in handling high storm-related flows. The facility has seen almost 50 years continuous service and requires rehabilitation to increase the level of treatment provided & the process reliability. The project includes repairs and improvements to the grit and screenings handling system, flow metering and electrical, mechanical and control systems.

Project Status:

Authorization: Included in the Development Program for years 1981-1986.
 Step I: Completed
 Step II: Completed
 Step III: Initiated in early 1986, to be completed in 1988.

Objectives for 1988: To complete construction and initiate operation.

Objectives for Future Years

1989 - Finalize project, complete performance certification and O&M Manual Revisions per MPCA requirements.
 1990 - N/A
 1991 - N/A
 1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 8,750,000	
Expenditures to 12/31/86		3,665,914
Balance Required		5,084,086
Total Funds Required		8,750,000
Additional Appropriation	None	
Total 1988 Budget	8,750,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ 945,281	\$	\$ 2,720,633	\$ 3,665,914
1987	1,434,027		565,973	2,000,000
First Quarter 1988	137,500		112,500	250,000
Second Quarter 1988	137,500		112,500	250,000
Third Quarter 1988	137,500		112,500	250,000
Fourth Quarter 1988	137,500		112,500	250,000
1989	211,247		172,839	384,086
1990				
1991				
1992				
Estimated Contingency Funds			1,700,000	1,700,000
Total	3,140,555		5,609,445	8,750,000

Project Description:

The MWWTP West Primary battery provides treatment to about 1/3 of the flow arriving at the Plant and is particularly important in handling high storm-related flows. The facility has seen almost 50 years continuous service and requires rehabilitation to increase the level of treatment provided and the process reliability. The project includes repairs and improvements to the sludge and scum handling systems, structural condition and electrical, mechanical and control systems.

Project Status:

Authorization: Included in the Development Program for years 1981-1986.

Step I: Completed

Step II: Completed

Step III: Initiated in early 1986, to be completed in 1988.

Objectives for 1988: To complete construction and initiate operation.

Objectives for Future Years

1989 - Finalize project, completed performance certification and O&M Manual revisions per MPCA requirements.

1990 - N/A

1991 - N/A

1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 13,535,000	
Expenditures to 12/31/86		6,231,173
Balance Required		7,293,827
Total Funds Required		13,535,000
Additional Appropriation	None	
Total 1988 Budget	13,535,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ 1,824,202	\$	\$ 4,406,971	\$ 6,231,173
1987	2,562,418		637,582	3,200,000
First Quarter 1988	137,500		112,500	250,000
Second Quarter 1988	137,500		112,500	250,000
Third Quarter 1988	137,500		112,500	250,000
Fourth Quarter 1988	137,500		112,500	250,000
1989	167,105		136,722	303,827
1990				
1991				
1992				
Estimated Contingency Funds			2,800,000	2,800,000
Total	5,103,725		8,431,275	13,535,000

SCHED:pap
3.13.87

Project Title MWWTP West Secondary Treatment Facility Rehab. Number 82-58

Project Description:

The MWWTP West Secondary battery provides treatment to about 1/2 of the plant flow and successful operation is critical in achieving compliance with the plant's discharge permit. Lack of adequate redundancy in the electrical power supply system and deficiencies in the scum removal facilities were addressed through this project to enable the facility to fulfill its operational requirements. The project included a second high voltage power feed and electrical transformer and scum system improvements, consisting of new motorized skimming equipment and a building to house it.

Project Status:

Authorization: Included in the Development Program for years 1981-1986.
Step I: Completed
Step II: Completed
Step III: Construction substantially complete, into one year start-up period.

Objectives for 1988: Continue operation of rehabilitated facility to generate data for preparation and submission of Performance Certification.

Objectives for Future Years

1989 - N/A
1990 - N/A
1991 - N/A
1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 4,550,000
Expenditures to 12/31/86	4,030,211
Balance Required	1,419,789
Total Funds Required	4,550,000
Additional Appropriation	None
Total 1988 Budget	4,550,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ 2,051,872	\$ 240,077	\$ 1,738,262	\$ 4,030,211
1987	117,053	193,708	(95,972)	214,789
First Quarter 1988			5,000	5,000
Second Quarter 1988				
Third Quarter 1988				
Fourth Quarter 1988				
1989				
1990				
1991				
1992				
Estimated Contingency Funds			300,000	300,000
Total	2,168,925	433,785	1,947,290	4,550,000

Project Description:

The project will provide a sludge thickener complex with 4 additional thickening tanks to allow the current 2 primary tanks, which is presently being used to store & thicken sludge to be returned to use as a primary tank. The project will also provide a sludge loadout building for truck hauling. The project will provide an electrical building which will furnish primary power for the existing plant, for this project & for future expansion.

Project Status:

Authorization: Included in the Development Program for years 1981-1986.
 Step I: Completed
 Step II: Completed
 Step III: To be substantially completed in 1987.

Objectives for 1988: Project certification, close out.

Objectives for Future Years

1989
 1990
 1991
 1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 4,800,000	
Expenditures to 12/31/86		3,157,954
Balance Required		1,642,046
Total Funds Required		4,800,000
Additional Appropriation	None	
Total 1988 Budget	4,800,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ 1,365,381	\$	\$ 1,994,980	\$ 3,360,361
1987	496,564		1,029	497,593
First Quarter 1988	188,125		153,921	342,046
Second Quarter 1988	55,000		45,000	100,000
Third Quarter 1988	55,000		45,000	100,000
Fourth Quarter 1988	55,000		45,000	100,000
1989	5,500		4,500	10,000
1990				
1991				
1992				
Estimated Contingency Funds			290,000	290,000
Total	2,220,570		2,579,430	4,800,000

SCHED:pap
 3.13.87

Project Description:

The present pure oxygen activated sludge wastewater treatment plant will be expanded to 1.66 mgd with organic treatment capacity expanded to 4,400 pounds per day. Improvements include a new headworks building, influent pumping, conversion of one sludge holding tank to two pure oxygen activated sludge tanks, additional final clarifier, new chlorine tank, dechlorination, upgraded effluent pumping, new outfall sewer, new sludge thickener, new sludge pumping, odor removal units with associated buildings, electrical and piping.

Project Status:

Authorization: Included in the 1982-1986 Development Program.

Step I: Complete

Step II: Complete

Step III: Began in late 1986, continue through 1988.

Objectives for 1988: To complete construction and finalize the project.

Objectives for Future Years

1989 - N/A

1990 - N/A

1991 - N/A

1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 4,650,000	
Expenditures to 12/31/86		953,646
Balance Required		3,696,354
Total Funds Required		4,650,000
Additional Appropriation	None	
Total 1988 Budget	4,650,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ _____	\$ _____	\$ 953,646	\$ 953,646
1987	_____	_____	2,000,000	2,000,000
First Quarter 1988	_____	_____	396,354	396,354
Second Quarter 1988	_____	_____	350,000	350,000
Third Quarter 1988	_____	_____	350,000	350,000
Fourth Quarter 1988	_____	_____	300,000	300,000
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
1991	_____	_____	_____	_____
1992	_____	_____	_____	_____
Estimated Contingency Funds	_____	_____	300,000	300,000
Total	_____	_____	4,650,000	4,650,000

SCHED:pap
3.13.87

Project Description:

This project consists of a lift station and forcemain to phase the Maple Plain Treatment Plant out of service and includes demolition of plant site.

Project Status:

Authorization: Included in the Development Program for 1981-1986.
 Step I: Completed
 Step II: Completed
 Step III: Completion in mid 1987.

Objectives for 1988: N/A

Objectives for Future Years

1989 - N/A
 1990 - N/A
 1991 - N/A
 1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 2,625,000	
Expenditures to 12/31/86		2,325,362
Balance Required		299,638
Total Funds Required		2,625,000
Additional Appropriation	None	
Total 1988 Budget	2,625,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ 1,126,116	\$	\$ 1,206,096	\$ 2,325,362
1987	147,904		(97,904)	50,000
First Quarter 1988				
Second Quarter 1988				
Third Quarter 1988				
Fourth Quarter 1988				
1989				
1990				
1991				
1992				
Estimated Contingency Funds			249,638	249,638
Total	1,274,020		1,357,830	2,625,000

SCHED:pap
 3.13.87

Project Description:

This study will provide for additional information relating to more restricted water quality standards which may be required by MPCA. The comprehensive study is needed to validate the permit issuance process and provide information that is needed by the Commission for presentation at public hearings on the proposed NPDES permit.

Project Status:

Authorization: Approved as a study in the 1983 Capital Budget.

Step I: Completed

Step II:

Step III:

Objectives for 1988

Objectives for Future Years

1989

1990

1991

1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 175,000	
Expenditures to 12/31/86		99,910
Balance Required		75,090
Total Funds Required		175,000
Additional Appropriation	None	
Total 1988 Budget	175,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 99,910	\$ 99,910
1987			25,000	25,000
First Quarter 1988				
Second Quarter 1988				
Third Quarter 1988				
Fourth Quarter 1988				
1989				
1990				
1991				
1992				
Estimated Contingency Funds			50,090	50,090
Total			175,000	175,000

SCHED:pap
3.13.87

Project Description:

The project consists of Step I services to conduct studies on electrical power systems, HVAC systems with emphasis on the identification and analysis of energy conservation opportunities such as peak demand shaving, heat recovery and other ways of managing energy use.

Project Status:

Authorization: Approved as a study in 1983 Capital Budget.
 Step I: Preliminary work completed. Additional study required.
 Step II:
 Step III:

Objectives for 1988: Complete the study.

Objectives for Future Years

1989 - Implement recommendations.
 1990
 1991
 1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 235,000	
Expenditures to 12/31/86		34,903
Balance Required		200,097
Total Funds Required		235,000
Additional Appropriation	None	
Total 1988 Budget	235,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 34,903	\$ 34,903
1987			5,000	5,000
First Quarter 1988			50,000	50,000
Second Quarter 1988			50,000	50,000
Third Quarter 1988			50,000	50,000
Fourth Quarter 1988			45,097	45,097
1989				
1990				
1991				
1992				
Estimated Contingency Funds				
Total			235,000	235,000

SCHED:pap
 3.13.87

Project Description:

A comprehensive, automatic fire and hazardous chemical detection/alarm system and a plant security system will be designed and installed at the Metro Wastewater Treatment Plant. Approximately 200 smoke detectors, 200 manual fire alarm stations and 300 public address speakers will be installed at a minimum of 40 different zones. The security system will detect intrusion at a minimum of six locations. The system will be controlled by a central processing computer connected to a zone control unit in each zone by fiber optics. The present security systems and detection systems for hydrogen sulfide, chlorine and sulfur dioxide gas leaks, oil spills and fire will be incorporated into the new system.

Project Status:

Authorization: Included in the 1986-1990 Development Program.

Step I: Completed

Step II: Complete in 1987

Step III: Begin in 1987, completed in 1988.

Objectives for 1988: Complete installation and have system fully operational.

Objectives for Future Years

1989 - N/A

1990 - N/A

1991 - N/A

1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 625,000	
Expenditures to 12/31/86		15,530
Balance Required		609,470
Total Funds Required		625,000
Additional Appropriation	None	
Total 1988 Budget	625,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 15,530	\$ 15,530
1987			50,000	50,000
First Quarter 1988			140,000	140,000
Second Quarter 1988			140,000	140,000
Third Quarter 1988			140,000	140,000
Fourth Quarter 1988			139,470	139,470
1989				
1990				
1991				
1992				
Estimated Contingency Funds				
Total			625,000	625,000

Project Description:

This project consists of a survey of electrical, mechanical equipment at the lift stations. This project will provide for the information to determine the need for replacement of existing equipment with new reliable and efficient equipment.

Project Status:

Authorization: Approved as a study in the 1983 Capital Budget.

Step I: Preliminary work completed,

Step II:

Step III:

Objectives for 1988: Complete study.

Objectives for Future Years

1989 - Implement recommendations.

1990

1991

1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ <u>175,000</u>	
Expenditures to 12/31/86		<u>1,525</u>
Balance Required		<u>173,475</u>
Total Funds Required		<u>175,000</u>
Additional Appropriation	<u>None</u>	
Total 1988 Budget	<u>175,000</u>	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ _____	\$ _____	\$ <u>1,525</u>	\$ <u>1,525</u>
1987	_____	_____	<u>5,000</u>	<u>5,000</u>
First Quarter 1988	_____	_____	<u>40,000</u>	<u>40,000</u>
Second Quarter 1988	_____	_____	<u>40,000</u>	<u>40,000</u>
Third Quarter 1988	_____	_____	<u>40,000</u>	<u>40,000</u>
Fourth Quarter 1988	_____	_____	<u>48,475</u>	<u>48,475</u>
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
1991	_____	_____	_____	_____
1992	_____	_____	_____	_____
Estimated Contingency Funds	_____	_____	_____	_____
Total	_____	_____	<u>175,000</u>	<u>175,000</u>

SCHED:pap
3.13.87

Project Description:

This project is to provide a new computer, remote transmission unit and associated equipment to replace the existing Alarm & Metering Telemetry System. The system will monitor over 200 remote sites for lift station alarms, meter flows, sewage regulators and river quality monitors. The existing system has become obsolete and difficult to maintain because many components are no longer manufactured to readily available.

Project Status:

Authorization: Approved as a study in the 1983 Capital Budget.

Step I: Completed

Step II: Completed

Step III: Begun in 1986, complete in 1988.

Objectives for 1988: Complete construction.

Objectives for Future Years

1989

1990

1991

1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 5,000,000	
Expenditures to 12/31/86		322,751
Balance Required		4,677,249
Total Funds Required		5,000,000
Additional Appropriation	None	
Total 1988 Budget	5,000,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ _____	\$ _____	\$ 322,751	\$ 322,751
1987	_____	_____	1,350,000	1,350,000
First Quarter 1988	_____	_____	750,000	750,000
Second Quarter 1988	_____	_____	600,000	600,000
Third Quarter 1988	_____	_____	475,000	475,000
Fourth Quarter 1988	_____	_____	402,249	402,249
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
1991	_____	_____	_____	_____
1992	_____	_____	_____	_____
Estimated Contingency Funds	_____	_____	1,100,000	1,100,000
Total	_____	_____	5,000,000	5,000,000

SCHED:pap
3.13.87

Project Description:

The NPDES permit requires compliance with stringent effluent chlorine residual standards by June 1, 1986. It also requires construction of such facilities to be started 1/1/85. Engineering design was initiated in January, 1984 and was completed in mid 1984. The design provides new dechlorination facilities using sulfur dioxide. The project includes improvements to existing chlorination process to make it compatible with dechlorination and plant wide practices such as computer control.

Project Status:

Authorization: Included in the Development Program as an amendment in 1984.
 Step I: Completed
 Step II: Completed
 Step III: Completed

Objectives for 1988: Continue monitoring performance, close out project.

Objectives for Future Years

1989
 1990
 1991
 1992

Rationale for
 Additional Appropriation

Appropriations

1987 Budget	\$ 5,500,000	
Expenditures to 12/31/86		5,275,513
Balance Required		224,487
Total Funds Required		5,500,000
Additional Appropriation	200,000	
Total 1988 Budget	5,700,000	

Make minor improvements to insure proper operation of the system to meet water quality standards.

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 5,275,513	\$ 5,275,513
1987			224,487	224,487
First Quarter 1988			50,000	50,000
Second Quarter 1988			50,000	50,000
Third Quarter 1988			50,000	50,000
Fourth Quarter 1988			50,000	50,000
1989				
1990				
1991				
1992				
Estimated Contingency Funds				
Total			5,700,000	5,700,000

Project Description:

The project involves the construction of 2,800 L.F. of 24-inch gravity sewer to serve Urban Service District No. 2 in the City of Lino Lakes. This interceptor, which discharges into the North Suburban Interceptor (4-NS-523), has a peak capacity of 4.15 mgd

Project Status:

Authorization: Included in the Development Program by amendment in 1983.
 Step I: Complete
 Step II: Complete
 Step III: Begun in mid 1986, complete in early 1987.

Objectives for 1988: To finalize the project.

Objectives for Future Years:

1989 - N/A
 1990 - N/A
 1991 - N/A
 1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 450,000	
Expenditures to 12/31/86		445,246
Balance Required		4,754
Total Funds Required		450,000
Additional Appropriation	None	
Total 1988 Budget	450,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 445,246	\$ 445,246
1987			0	0
First Quarter 1988			0	0
Second Quarter 1988			0	0
Third Quarter 1988			0	0
Fourth Quarter 1988			0	0
1989			0	0
1990			0	0
1991			0	0
1992			0	0
Estimated Contingency Funds			4,754	4,754
Total			450,000	450,000

SCHED:pap
 3.13.87

Project Description:

This program provides for additional miscellaneous improvements to the wastewater treatment plants and the interceptor system. The projects are proposed to provide for more effective operations and eliminate deficiencies in the system.

Project Status:

Authorization:

Step I:

Step II:

Step III:

Objectives for 1988: The projects will be completed by the end of the second quarter of 1987 with the So. St. Paul Plant Demolition Project.

Objectives for Future Years

1989 - N/A

1990 - N/A

1991 - N/A

1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$3,300,188	
Expenditures to 12/31/86		3,076,641
Balance Required		223,547
Total Funds Required		3,300,188
Additional Appropriation	None	
Total 1988 Budget	3,300,188	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 3,039,851	\$ 3,039,851
1987			86,790	86,790
First Quarter 1988			0	0
Second Quarter 1988				
Third Quarter 1988				
Fourth Quarter 1988				
1989				
1990				
1991				
1992				
Estimated Contingency Funds			173,547	173,547
Total			3,300,188	3,300,188

SCHED:pap
3.13.87

PROJECT 83-65 MISCELLANEOUS CAPITAL IMPROVEMENTS

<u>Project</u>	<u>Capital Project Cost</u>
Administration - Consists of completed projects, general investigations of need for improvements, preliminary engineering and small projects and contingency.	2,770,213
So. St. Paul Plant Demolition - Consists of work necessary to demolish most of the existing structures.	250,000
Trunk Sewer Rehabilitation	249,975
Savage Meter Station Improvements - Provides for Commission meter to determine flow from a collection system.	30,000
	<u>3,300,188</u>

Project Description:

The project consists of 3300 L.F. of 24-inch gravity sewer to serve the north central sewer district in the City of Arden Hills. The new interceptor will begin at the western border of the City of Arden Hills, proceed westerly along the north side of Highway I-694 and terminate at an existing 42-inch sewer in New Brighton. The interceptor's hydraulic capacity of 4.2 mgd will relieve capacity restrictions in an existing trunk sewer and provide reserve capacity for additional growth and development in this area.

Project Status:

Authorization: Approved as an amendment to the Development Program in 1984.
 Step I: Completed
 Step II: Complete in early 1987.
 Step III: Begin in mid 1987, complete in late 1987.

Objectives for 1988: To finalize the project.

Objectives for Future Years

1989 - N/A
 1990 - N/A
 1991 - N/A
 1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget(87 Amendment)\$	1,452,000
Expenditures to 12/31/86	280,708
Balance Required	1,344,292
Total Funds Required	1,625,000
Additional Appropriation	173,000
Total 1988 Budget	1,625,000

1987 budget amendment provided \$317,000 for design. The additional funds are needed to complete construction and resolve construction claims.

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 280,708	\$ 280,708
1987			850,000	850,000
First Quarter 1988			169,292	169,292
Second Quarter 1988			175,000	175,000
Third Quarter 1988			50,000	50,000
Fourth Quarter 1988			100,000	100,000
1989				
1990				
1991				
1992				
Estimated Contingency Funds				
Total			1,625,000	1,625,000

Project Description:

The existing physical chemical plant will be replaced by a 0.705 mgd aerated pond system. The new 22 acre, 15 foot deep pond system consists of two aeration cells and one settling cell with a holding area. The design will feature a synthetic liner, coarse bubble diffusion and multiple draw-off controls. The plant headworks will be rehabilitated, a new pump/blower building and new chlorination equipment will be constructed.

Project Status:

Authorization: Included in the 1984-1988 Development Program.
 Step I: Completed
 Step II: Started in 1987, complete late 1987.
 Step III: Begin early 1988, completed fall, 1988.

Objectives for 1988: Complete construction.

Objectives for Future Years

1989 - Complete 1 year certification.
 1990 - N/A
 1991 - N/A
 1992 - N/A

Rationale for
 Additional Appropriation

Appropriations

1987 Budget	\$ 5,300,000	
Expenditures to 12/31/86		54,319
Balance Required		5,245,681
Total Funds Required		5,300,000
Additional Appropriation	None	
Total 1988 Budget	5,300,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 54,319	\$ 54,319
1987			100,000	100,000
First Quarter 1988			100,000	100,000
Second Quarter 1988			900,000	900,000
Third Quarter 1988			1,000,000	1,000,000
Fourth Quarter 1988			900,000	900,000
1989			1,245,681	1,245,681
1990				
1991				
1992				
Estimated Contingency Funds			1,000,000	1,000,000
Total			5,300,000	5,300,000

SCHED:pap
 3.13.87

Project Description:

This project includes replacing the two existing sludge dewatering vacuum filters with two meter belt filter presses to supplement the existing two meter belt filter press. All units will be installed with rotating drum thickeners. Sludge treatment capacity will be increased. In addition, two bulk polymer storage tanks with a usable capacity of 9000 gallons will be installed. A permanent potassium permanganate feed system will be provided for odor control.

Project Status:

Authorization: Included in the 1984-1988 Development Program and budgeted in 1985.
 Step I: Complete for now.
 Step II: Began in 1985. Design effort was put on hold in early 1987 to await completion of a residual solids management study for the southwest metropolitan area. Design expected to be continued in 1988.
 Step III: Construction is expected in 1989 through 1990.

Objectives for 1988: After completion of the residual solids management study, design will be reinitiated and will consider any applicable recommendations resulting from the solids study.

Objectives for Future Years

1989 - Complete design and initiate construction.
 1990 - Substantial completion late in year.
 1991 - Finalize the project.
 1992 - N/A

Rationale for
Additional Appropriation

Additional funds needed to provide for the total cost of the project based on more refined estimates.

Appropriations

1987 Budget	\$ 3,900,000	
Expenditures to 12/31/86		174,366
Balance Required		<u>3,725,634</u>
Total Funds Required		<u>3,900,000</u>
Additional Appropriation	1,500,000	
Total 1988 Budget	<u>5,400,000</u>	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 174,366	\$ 174,366
1987			250,000	250,000
First Quarter 1988				
Second Quarter 1988				
Third Quarter 1988			45,000	45,000
Fourth Quarter 1988			50,000	50,000
1989			2,875,634	2,875,634
1990			2,000,000	2,000,000
1991			5,000	5,000
1992				
Estimated Contingency Funds				
Total			<u>5,400,000</u>	<u>5,400,000</u>

Project Description:

The project consists of a design for a new water main to supply the needs at the Metro Plant. The Plant is currently served by a small City main which is not adequate for fire protection. The new line would be about 3000 ft. in length and be about 12 inches in diameter and run parallel to the existing water supply line.

Project Status:

Authorization: Included in the 1981-1986 Development Program.

Step I: Completed

Step II: Completed in 1987

Step III: Begin in 1987, complete in 1988

Objectives for 1988: Close out project.

Objectives for Future Years

1989

1990

1991

1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 450,000	
Expenditures to 12/31/86		19,304
Balance Required		430,696
Total Funds Required		450,000
Additional Appropriation	None	
Total 1988 Budget	450,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 19,304	\$ 19,304
1987			300,000	300,000
First Quarter 1988			40,000	40,000
Second Quarter 1988			30,000	30,000
Third Quarter 1988			30,000	30,000
Fourth Quarter 1988			30,696	30,696
1989				
1990				
1991				
1992				
Estimated Contingency Funds				
Total			450,000	450,000

SCHED:pap
3.13.87

Project Description:

The existing plant expanded to treat a 32 mgd average daily flow. A single stage activated sludge system providing nitrification and effluent aeration will be used to meet a more stringent waste load allocation. Plant headworks, pretreatment and primary treatment facilities and the aerated polishing pond will be rehabilitated or replaced. The existing secondary facility will be rehabilitated to treat half the flow and a new secondary plant constructed to treat the rest. New chlorination, dechlorination and effluent pumping equipment plant, instrumentation and control equipment and a maintenance and warehouse building will be built. Effluent dissolved oxygen will be increased by cascade aeration.

Project Status:

Authorization: Included in the 1986-1990 Development Program.

Step I: Completed

Step II: Begin in early 1987, completed in 1988.

Step III: Begin in 1990, continue until 1992.

Objectives for 1988: To substantially complete design.

Objectives for Future Years

1989 - Complete design, apply for grant funding.

1990 - Begin construction.

1991 - Continue construction.

1992 - Startup

Rationale for
Additional Appropriation

Appropriations

Provide funds for design.

1987 Budget	\$ 750,000	
Expenditures to 12/31/86		107,566
Balance Required		2,892,434
Total Funds Required		3,000,000
Additional Appropriation	2,250,000	
Total 1988 Budget	3,000,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 107,566	\$ 107,566
1987			300,000	300,000
First Quarter 1988			500,000	500,000
Second Quarter 1988			500,000	500,000
Third Quarter 1988			500,000	500,000
Fourth Quarter 1988			500,000	500,000
1989			592,434	592,434
1990				
1991				
1992				
Estimated Contingency Funds				
Total			3,000,000	3,000,000

Project Description:

The current project will be a 3 mgd expansion up to a 6 mgd capacity. It will consist of additional influent pumping capacity, one primary clarifier, expanded high rate activated sludge, one high rate clarifier, expanded nitrification activated sludge, one final clarifier, split flow around effluent filters, effluent pumping capacity, one chlorine contact tank, dechlorination facilities, gravity sludge thickeners, one digester, replacement of existing digester covers with steel covers, new digester heating and mixing system, replacement of existing centrifuges with belt filter presses, new control system, new instrumentation where required and misc. plant improvements, electrical & piping.

Project Status:

Authorization: Included in the 1986-1990 Development Program.

Step I: Complete

Step II: To be initiated in 1987 and completed in 1988.

Step III: To be initiated in 1988 and completed in 1991.

Objectives for 1988: To complete design and initiate construction.

Objectives for Future Years

1989 - Continue Construction
1990 - Substantial Completion
1991 - Finalize Construction
1992 - N/A

Rationale for
Additional Appropriation

Appropriations

Provide funds for construction.

1987 Budget	\$ 850,000	
Expenditures to 12/31/86		123,080
Balance Required		<u>15,726,920</u>
Total Funds Required		<u>15,850,000</u>
Additional Appropriation	15,000,000	
Total 1988 Budget	<u>15,850,000</u>	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 123,080	\$ 123,080
1987			200,000	200,000
First Quarter 1988			200,000	200,000
Second Quarter 1988			200,000	200,000
Third Quarter 1988			200,000	200,000
Fourth Quarter 1988			200,000	200,000
1989			7,000,000	7,000,000
1990			5,000,000	5,000,000
1991			2,726,920	2,726,920
1992				
Estimated Contingency Funds				
Total			<u>15,850,000</u>	<u>15,850,000</u>

SCHED:pap
3.13.87

Project Description:

The project consists of a study to conduct an intensive river survey in summer, 1985, to collect data for reverification of a computer model. The computer model refinement, including literature search on selected topics, field studies relative to deoxygenation rate and nitrification rate in the river, and other special studies. Supplementary assessment topics, including compliance issues, priority pollutants, monitoring and upstream water quality.

Project Status:

Authorization: The study was approved in the 1985 Capital Budget.

Step I: Work on the study continues.

Step II:

Step III:

Objectives for 1988: Complete the study.

Objectives for Future Years

1989

1990

1991

1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ <u>200,000</u>	
Expenditures to 12/31/86		<u>121,282</u>
Balance Required		<u>78,718</u>
Total Funds Required		<u>200,000</u>
Additional Appropriation	<u>None</u>	
Total 1988 Budget	<u>200,000</u>	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ _____	\$ _____	\$ <u>121,282</u>	\$ <u>121,282</u>
1987	_____	_____	<u>5,000</u>	<u>5,000</u>
First Quarter 1988	_____	_____	<u>5,000</u>	<u>5,000</u>
Second Quarter 1988	_____	_____	<u>5,000</u>	<u>5,000</u>
Third Quarter 1988	_____	_____	<u>5,000</u>	<u>5,000</u>
Fourth Quarter 1988	_____	_____	<u>5,000</u>	<u>5,000</u>
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
1991	_____	_____	_____	_____
1992	_____	_____	_____	_____
Estimated Contingency Funds	_____	_____	<u>53,718</u>	<u>53,718</u>
Total	_____	_____	<u>200,000</u>	<u>200,000</u>

SCHED:pap
3.13.87

Project Description:

The purpose of the project was to estimate the plant capacity for potential sets of water quality based effluent limits and to estimate the plant's effluent quality under optimized operating conditions. The study was a requirement of the Metro Plant NPDES permit and was to be used in conjunction with a Mississippi River Waste Load Allocation Study to determine the level of treatment the plant should provide so that certain water quality standards are achieved in the river.

Project Status:

Authorization: Approved in the 1985 Capital Budget.
 Step I: Completed
 Step II: N/A
 Step III: N/A

Objectives for 1988: N/A

Objectives for Future Years

1989 - N/A
 1990 - N/A
 1991 - N/A
 1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 350,000	
Expenditures to 12/31/86		225,000
Balance Required		425,000
Total Funds Required		650,000
Additional Appropriation	300,000	
Total 1988 Budget	650,000	

Fine bubble aeration equipment, retrofit evaluation and other process improvements. Includes evaluation of recycle liquor treatment rotating biological surface performance.

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 237,075	\$ 237,075
1987			105,000	105,000
First Quarter 1988			50,000	50,000
Second Quarter 1988			50,000	50,000
Third Quarter 1988			50,000	50,000
Fourth Quarter 1988			37,925	37,925
1989				
1990				
1991				
1992				
Estimated Contingency Funds			120,000	120,000
Total			650,000	650,000

Project Description:

Develop a plan for sludge ash management, including ash recycling and backup ash land-filling. Evaluate feasible operating modes and costs. Perform market studies and product development work needed to achieve full scale ash utilization in asphalt or other recycling methods. Assimilate, evaluate and recommend actions regarding optimum use of the Metro Plant site for various competing uses, such as ash storage, dried sludge storage, emergency dewatered sludge storage and supplemental composting program. Integrate odor control and sludge loadout improvements.

Project Status:

Authorization: The study was approved in the 1985 Capital Budget.

Step I: Very preliminary work done, need to complete.

Step II:

Step III:

Objectives for 1988: Complete the study.

Objectives for Future Years

1989

1990

1991

1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 150,000	
Expenditures to 12/31/86		311
Balance Required		249,689
Total Funds Required		250,000
Additional Appropriation	100,000	
Total 1988 Budget	250,000	

Provide funds for additional evaluations to include rotary sludge drying, standby land application program, grit management, screening management.

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ _____	\$ _____	\$ 311	\$ 311
1987	_____	_____	5,689	5,689
First Quarter 1988	_____	_____	36,000	36,000
Second Quarter 1988	_____	_____	36,000	36,000
Third Quarter 1988	_____	_____	36,000	36,000
Fourth Quarter 1988	_____	_____	36,000	36,000
1989	_____	_____	100,000	100,000
1990	_____	_____	_____	_____
1991	_____	_____	_____	_____
1992	_____	_____	_____	_____
Estimated Contingency Funds	_____	_____	_____	_____
Total	_____	_____	250,000	250,000

SCHED:pap
3.13.87

Project Description:

The subject study was conducted as a requirement of the MWWTP Air Operating Permit. The odor study examined plant odor sources and their impacts and developed a work plan for reducing odorous emissions. The non-criteria study included chemical analysis of several incinerator exhaust gas samples for a variety of organic and inorganic substances.

Project Status:

Authorization: Approved in the 1985 Capital Budget.
 Step I: Completed original report. Additional work required.
 Step II: N/A
 Step III: N/A

Objectives for 1988: Complete additional evaluations.

Objectives for Future Years

1989 - N/A
 1990 - N/A
 1991 - N/A
 1992 - N/A

Appropriations

1987 Budget	\$ 300,000	
Expenditures to 12/31/86		292,081
Balance Required		207,919
Total Funds Required		500,000
Additional Appropriation	200,000	
Total 1988 Budget	500,000	

Rationale for
Additional Appropriation

Update plant odor assessment and neighborhood survey and follow up work on non-criteria emissions/testing, air dispersion modeling, health risk assessment.

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 292,081	\$ 292,081
1987			7,919	7,919
First Quarter 1988			50,000	50,000
Second Quarter 1988			50,000	50,000
Third Quarter 1988			50,000	50,000
Fourth Quarter 1988			50,000	50,000
1989				
1990				
1991				
1992				
Estimated Contingency Funds				
Total			500,000	500,000

SCHED:pap
 3.13.87

Project Description:

Evaluate capacity of the existing 5 pumps and their operation and maintenance. Analyze cost of providing a sixth pump for standby capacity which does not now exist. Also analyze cost and need of providing 2 added pumps (total). This is estimated to be 655 mpg pumping capacity (current capacity has been estimated at 585 mgd using all five pumps). Assess impact of bypassing when existing pump capacity is exceeded.

Project Status:

Authorization: The study was approved in the 1985 Capital Budget.

Step I: Completed

Step II:

Step III:

Objectives for 1988

Objectives for Future Years

1989

1990

1991

1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 50,000	
Expenditures to 12/31/86		4,061
Balance Required		<u>45,939</u>
Total Funds Required		<u>50,000</u>
Additional Appropriation	None	
Total 1988 Budget	<u>50,000</u>	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 4,061	\$ 4,061
1987			5,939	5,939
First Quarter 1988				
Second Quarter 1988				
Third Quarter 1988				
Fourth Quarter 1988				
1989				
1990				
1991				
1992				
Estimated Contingency Funds			40,000	40,000
Total			50,000	50,000

SCHED:pap
3.13.87

Project Description:

Evaluate potential uses of F&I #1 building, which is no longer in use. This would require removal of existing equipment and conversion to other uses. Potential uses identified to date include sludge loadout and/or sludge loading facility, warehouse space, lockers and showers, laboratory, training areas and offices. The best potential use may also be demolition of unused portions of the building and reserving the space for future expansion.

Project Status:

Authorization: The study was approved in the 1985 Capital Budget.

Step I: The study has not begun.

Step II:

Step III:

Objectives for 1988: Preliminary work on the study.

Objectives for Future Years

1989 - Complete the study.

1990

1991

1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 50,000	
Expenditures to 12/31/86		1,312
Balance Required		48,688
Total Funds Required		50,000
Additional Appropriation	None	
Total 1988 Budget	50,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 1,312	\$ 1,312
1987			3,688	3,688
First Quarter 1988				
Second Quarter 1988				
Third Quarter 1988				
Fourth Quarter 1988			5,000	5,000
1989			40,000	40,000
1990				
1991				
1992				
Estimated Contingency Funds				
Total			50,000	50,000

Project Description:

Proposed facilities call for a split flow single stage activated sludge plant. Treatment will consist of preliminary treatment, existing primary clarifier, split flow to new activated sludge facilities with final clarification, recombining of flow to expanded chlorine facilities, dechlorination and pure oxygen supper saturation of effluent. Other major improvements include a building expansion, modification of existing clarifiers, new aeration system, electrical improvements, new controls and instrumentation, odor control for headworks and primary clarifiers and electrical power distribution improvements.

Project Status:

Authorization: Project approved in the 1985 Capital Budget.
 Step I: Set final effluent limits and complete in 1987.
 Step II: Initiate in 1987 and complete in 1988.
 Step III: Begin in 1991 and complete 1993.

Objectives for 1988: Complete development of plans and specifications.

Objectives for Future Years

1989 - Obtain Grant Funding
 1990 - Obtain Grant Funding
 1991 - Start Construction
 1992 - Continue Construction
 1993 - Finalize Project Completion

Rationale for
Additional Appropriation

Appropriations

1987 Budget(87 Amendment)\$	625,000
Expenditures to 12/31/86	109,470
Balance Required	2,890,530
Total Funds Required	3,000,000
Additional Appropriation	2,375,000
Total 1988 Budget	3,000,000

1987 budget amendment provided \$500,000 for plant expansion design.

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 109,470	\$ 109,470
1987			300,000	300,000
First Quarter 1988			690,530	690,530
Second Quarter 1988			700,000	700,000
Third Quarter 1988			600,000	600,000
Fourth Quarter 1988			600,000	600,000
1989				
1990				
1991				
1992				
Estimated Contingency Funds				
Total			3,000,000	3,000,000

Project Description:

Consists of a study to physically inspect all regulators. Document electrical, mechanical, structural, hydraulic and safety deficiencies, such as explosion proof electrical systems, adequate ventilation, lighting, access and work space. Update available documentation (record drawings) as necessary. Conduct hydraulic analysis of regulators individually and as a system and assess the condition and operational benefits versus costs of the fabridams versus fixed weirs.

Project Status:

Authorization: The study was approved in the 1985 Capital Budget.

Step I: The study has not begun.

Step II:

Step III:

Objectives for 1988: Preliminary work on the study.

Objectives for Future Years

1989 - Complete the study.

1990

1991

1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 100,000	
Expenditures to 12/31/86		380
Balance Required		99,620
Total Funds Required		100,000
Additional Appropriation	None	
Total 1988 Budget	100,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 380	\$ 380
1987			2,620	2,620
First Quarter 1988				
Second Quarter 1988				
Third Quarter 1988				
Fourth Quarter 1988			5,000	5,000
1989			92,000	92,000
1990				
1991				
1992				
Estimated Contingency Funds				
Total			100,000	100,000

Project Description:

The project will correct problems at 40 flow meter sites which are in need of replacement, rehabilitation, modification, consolidation or hydraulic improvements. Work will include structural, mechanical and electrical alterations. Also included in the project is the development of a standard meter specification to be applicable to all projects involving flow meters.

Project Status:

Authorization: Included in the 1986-1990 Development Program. The Step I study was approved in the 1985 Capital Budget.
 Step I: Completed
 Step II: Completed in early 1988.
 Step III: Begin in mid 1988, continue into 1990.

Objectives for 1988: To complete design and begin construction.

Objectives for Future Years

1989 - To substantially complete construction.
 1990 - To finalize the project.
 1991 - N/A
 1992 - N/A

Rationale for
Additional Appropriation

Project will include additional meter station modifications.

Appropriations

1987 Budget	\$ 2,250,000	
Expenditures to 12/31/86		83,014
Balance Required		3,416,986
Total Funds Required		3,500,000
Additional Appropriation	1,250,000	
Total 1988 Budget	3,500,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ _____	\$ _____	\$ 83,014	\$ 83,014
1987	_____	_____	100,000	100,000
First Quarter 1988	_____	_____	100,000	100,000
Second Quarter 1988	_____	_____	100,000	100,000
Third Quarter 1988	_____	_____	100,000	100,000
Fourth Quarter 1988	_____	_____	200,000	200,000
1989	_____	_____	2,000,000	2,000,000
1990	_____	_____	816,986	816,986
1991	_____	_____	_____	_____
1992	_____	_____	_____	_____
Estimated Contingency Funds	_____	_____	_____	_____
Total	_____	_____	3,500,000	3,500,000

SCHED:pap
3.13.87

Project Description:

The present site of the Savage Plant will serve as the site for a new 6.1 mgd lift station. It will allow the phase-out of the Savage Plant and convey sewage to the Seneca WWTP. Included in the project are a 12,500', 14" and 18" dual forcemain and a 10,800', 36" gravity line. The lift station will include a standby power generator.

Project Status:

Authorization: Included in 1984-1988 Development Program by amendment in 1985.
 Step I: Complete
 Step II: Complete
 Step III: Initiated in 1987, substantial completion in 1988.

Objectives for 1988: Substantial project completion.

Objectives for Future Years

1989 - Close out project.
 1990
 1991
 1992

Rationale for
 Additional Appropriation

Appropriations

To provide for additional construction costs based on latest construction estimate.

1987 Budget	\$ 6,000,000	
Expenditures to 12/31/86		270,981
Balance Required		5,719,019
Total Funds Required		6,000,000
Additional Appropriation	None	
Total 1988 Budget	6,000,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 270,981	\$ 270,981
1987			200,000	200,000
First Quarter 1988			1,300,000	1,300,000
Second Quarter 1988			700,000	700,000
Third Quarter 1988			1,000,000	1,000,000
Fourth Quarter 1988			1,000,000	1,000,000
1989			1,529,019	1,529,019
1990				
1991				
1992				
Estimated Contingency Funds				
Total			6,000,000	6,000,000

SCHED:pap
 3.13.87

Project Description:

Consists of the remodeling of the Central Lab (Metro Plant Lab) which will provide additional and improved facilities to: 1) To accommodate increased laboratory activities; 2) to allow for an increase in efficiency of personnel and equipment by centralization; and 3) to better provide for the overall safety and general welfare of laboratory personnel. The modifications are consistent with the long range plans to assign all Quality Control Department personnel to the Metro Plant.

Project Status:

Authorization: The project was approved in the 1984-1988 Development Program.

Step I: Complete

Step II: Complete

Step III: Complete in 1987

Objectives for 1988: Close out project.

Objectives for Future Years

1989

1990

1991

1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 821,000	
Expenditures to 12/31/86		760,656
Balance Required		60,344
Total Funds Required		821,000
Additional Appropriation	None	
Total 1988 Budget	821,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 760,656	\$ 760,656
1987			30,344	30,344
First Quarter 1988			5,000	5,000
Second Quarter 1988				
Third Quarter 1988				
Fourth Quarter 1988				
1989				
1990				
1991				
1992				
Estimated Contingency Funds			25,000	25,000
Total			821,000	821,000

Project Description:

Consists of interim ash management at the Metro Plant which is required until the long-term plan, a central ash landfill can be provided. The project consists of a 50,000 cubic yard capacity ash basin and associated lining and decant system. The basin would be located in the vicinity of the existing ash basins at the Metro Plant.

Project Status:

Authorization: Not approved in the Development Program.
 Step I: Complete
 Step II: 75% complete
 Step III: Not planned.

Objectives for 1988: N/A

Objectives for Future Years

1989 - N/A
 1990 - N/A
 1991 - N/A
 1992 - N/A

Rationale for
 Additional Appropriation

Appropriations

1987 Budget	\$ 800,000	
Expenditures to 12/31/86		12,114
Balance Required		787,886
Total Funds Required		800,000
Additional Appropriation	None	
Total 1988 Budget	800,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ _____	\$ _____	\$ 35,440	\$ 35,440
1987	_____	_____	_____	_____
First Quarter 1988	_____	_____	_____	_____
Second Quarter 1988	_____	_____	_____	_____
Third Quarter 1988	_____	_____	_____	_____
Fourth Quarter 1988	_____	_____	_____	_____
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
1991	_____	_____	_____	_____
1992	_____	_____	_____	_____
Estimated Contingency Funds	_____	_____	764,560	764,560
Total	_____	_____	800,000	800,000

SCHED:pap
 3.13.87

Project Description:

The existing Lakeville Lift Station has experienced insufficient capacity and other operational problems over the past several years. To remedy these problems, a new lift station will be constructed at the intersection of County Road 46 and Cedar Avenue in Apple Valley. The new lift station will be furnished with 4 pumps and will have a capacity of 6.5 mgd. It will be equipped with a standby power generator.

Project Status:

Authorization: Project was included in the Development Program by amendment in 1985.
 Step I: Completed
 Step II: Complete in early 1987.
 Step III: Begin in mid 1987, complete in 1988.

Objectives for 1988: To substantially complete construction.

Objectives for Future Years

1989 - To finalize the project.
 1990 - N/A
 1991 - N/A
 1992 - N/A

Rationale for
Additional Appropriation

To provide necessary funds for project construction.

Appropriations

1987 Budget	\$ 1,100,000	
Expenditures to 12/31/86		166,786
Balance Required		<u>1,333,214</u>
Total Funds Required		<u>1,500,000</u>
Additional Appropriation	400,000	
Total 1988 Budget	<u>1,500,000</u>	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ _____	\$ _____	\$ 166,786	\$ 166,786
1987	_____	_____	500,000	500,000
First Quarter 1988	_____	_____	200,000	200,000
Second Quarter 1988	_____	_____	200,000	200,000
Third Quarter 1988	_____	_____	233,214	233,214
Fourth Quarter 1988	_____	_____	190,000	190,000
1989	_____	_____	10,000	10,000
1990	_____	_____	_____	_____
1991	_____	_____	_____	_____
1992	_____	_____	_____	_____
Estimated Contingency Funds	_____	_____	_____	_____
Total	_____	_____	<u>1,500,000</u>	<u>1,500,000</u>

SCHED:pap
3.13.87

Project Description:

This program provides for additional miscellaneous improvements to the wastewater treatment plant and the interceptor systems. The projects are proposed to provide for more effective operations and eliminate deficiencies in the system.

Project Status:

Authorization: The project was included in the 1985 Capital Budget.

Step I:

Step II:

Step III:

Objectives for 1988: To initiate and complete the remaining projects in the programs.

Objectives for Future Years

1989 - N/A

1990 - N/A

1991 - N/A

1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 1,200,000	
Expenditures to 12/31/86		743,322
Balance Required		456,678
Total Funds Required		1,200,000
Additional Appropriation	None	
Total 1988 Budget	1,200,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ _____	\$ _____	\$ 743,322	\$ 743,322
1987	_____	_____	291,992	291,992
First Quarter 1988	_____	_____	40,000	40,000
Second Quarter 1988	_____	_____	40,000	40,000
Third Quarter 1988	_____	_____	40,000	40,000
Fourth Quarter 1988	_____	_____	44,686	44,686
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
1991	_____	_____	_____	_____
1992	_____	_____	_____	_____
Estimated Contingency Funds	_____	_____	_____	_____
Total	_____	_____	1,200,000	1,200,000

SCHED:pap
3.13.87

PROJECT 85-65 MISCELLANEOUS CAPITAL IMPROVEMENTS

<u>Project</u>	<u>Capital Project Cost</u>
Pre-Design Investigations to Access Need for Project Development	65,000
Seneca Plant - Consists of odor control improvements, engr. studies.	10,000
Interceptor Improvements - Consists of:	
Chanhassen Lift Station Influent Line Improvements - Consists of adding an 18-inch RCP bypass line to eliminate large drop into wet well.	39,500
Septage Discharge Site Improvements - Consists of improving septage discharge sites as required for safety, aesthetics and maintenance.	20,000
Meter Station Improvements - Consists of improving meter hydraulics, maintenance access and equipment as problems are identified.	170,000
Burnsville Lift Station Study - Consists of evaluation of odor control, flow measurement, pumping capacity, structure.	10,000
Blue Lake Plant - Provides for odor control improvements for Screen Bldg.	0
Metro Plant Ventilation and Odor Control Improvements - Consists of gravity thickener ventilation improvements, sludge storage ventilation improvements and boiler feed water pump room ventilation modifications.	34,000 160,000 55,000
Metro Plant Process Piping and Conveying Improvements - Consists of an effluent water line for incinerators 5 & 6, effluent water line for roll presses.	85,000 26,500
Metro Plant Building and Grounds - Consists of Maintenance Building locker and shower additions.	475,000
East Grit Dewatering Improvements - Consists of modifications to obtain drier grit for hauling.	50,000
	<hr/> 1,200,000

Project Description:

This project consists of approximately 13,000 feet of new sanitary sewer interceptor from Warner Road and Highway 61 to Lake Phalen.

Project Status:

Authorization: Provided for in the 1984-1988 Development Program by amendment in 1985.
 Step I: Completed
 Step II: Completed
 Step III: Began in 1986, continue into 1989.

Objectives for 1988: To substantially complete construction.

Objectives for Future Years

1989 - To finalize project.
 1990 - N/A
 1991 - N/A
 1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$11,850,000	
Expenditures to 12/31/86		1,557,000
Balance Required		10,293,000
Total Funds Required		11,950,000
Additional Appropriation	None	
Total 1988 Budget	11,850,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 1,557,000	\$ 1,557,000
1987			9,000,000	9,000,000
First Quarter 1988			200,000	200,000
Second Quarter 1988			200,000	200,000
Third Quarter 1988				
Fourth Quarter 1988				
1989			43,000	43,000
1990				
1991				
1992				
Estimated Contingency Funds			850,000	850,000
Total			11,850,000	11,850,000

Project Description:

This project consists of approximately 12,000 feet of new sanitary sewer interceptor from Margaret and Etna Streets to Beaver Lake.

Project Status:

Authorization: Provided for in the 1984-1988 Development Program by amendment in 1985.
 Step I: Completed
 Step II: Completion in early 1987.
 Step III: Construction from mid 1987 into 1989.

Objectives for 1988: To substantially complete construction.

Objectives for Future Years

1989 - To finalize project.
 1990 - N/A
 1991 - N/A
 1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$10,450,000 (1987 Budget Amendment)
Expenditures to 12/31/86	0
Balance Required	10,450,000
Total Funds Required	10,450,000
Additional Appropriation	None
Total 1988 Budget	10,450,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 0	\$ 0
1987			4,300,000	4,300,000
First Quarter 1988			1,537,500	1,537,500
Second Quarter 1988			1,537,500	1,537,500
Third Quarter 1988			1,537,500	1,537,500
Fourth Quarter 1988			1,000,000	1,000,000
1989			537,500	537,500
1990				
1991				
1992				
Estimated Contingency Funds				
Total			10,450,000	10,450,000

SCHED:pap
 3.13.87

Project Description:

This project will involve rebuilding four lift stations, eliminating one lift station, constructing 6,000 feet of 10" forcemain and 10,000 feet of 12" to 18" gravity interceptor. The improvements are needed to handle the increased flow from the City of Orono during wet weather periods.

Project Status:

Authorization: Included in the 1984-1988 Development Program.

Step I: Complete

Step II: Complete in 1987

Step III: Substantial completion in 1988.

Objectives for 1988: Substantial completion

Objectives for Future Years

1989 - Close out project.

1990

1991

1992

Rationale for
Additional Appropriation

Based on revised estimate of project costs.

Appropriations

1987 Budget	\$ 1,600,000	
Expenditures to 12/31/86		167,678
Balance Required		<u>2,232,322</u>
Total Funds Required		<u>2,400,000</u>
Additional Appropriation	800,000	
Total 1988 Budget	<u>2,400,000</u>	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ _____	\$ _____	\$ 167,678	\$ 167,678
1987	_____	_____	500,000	500,000
First Quarter 1988	_____	_____	400,000	400,000
Second Quarter 1988	_____	_____	400,000	400,000
Third Quarter 1988	_____	_____	400,000	400,000
Fourth Quarter 1988	_____	_____	332,322	332,322
1989	_____	_____	200,000	200,000
1990	_____	_____	_____	_____
1991	_____	_____	_____	_____
1992	_____	_____	_____	_____
Estimated Contingency Funds	_____	_____	_____	_____
Total	_____	_____	<u>2,400,000</u>	<u>2,400,000</u>

SCHED:pap
3.13.87

Project Title Eagan Interceptor Improvements Number 85-68

Project Description:

A new lift station will be constructed adjacent to the existing lift station which will be salvaged and abandoned. At another station, the wet well will be expanded. Included in the project are a 80', 18" forcemain, a 25", 24" gravity line, a 14', 12" gravity line and a 720', 4" water main. The new lift station will include a standby power generator.

Project Status:

Authorization: Included in the 1986-1990 Development Program.
 Step I: Completed
 Step II: Complete in mid 1987.
 Step III: Begin in late 1987, continue into 1989.

Objectives for 1988: To substantially complete construction.

Objectives for Future Years

1989 - To finalize the project.
 1990 - N/A
 1991 - N/A
 1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 1,500,000
Expenditures to 12/31/86	129,042
Balance Required	1,370,958
Total Funds Required	1,500,000
Additional Appropriation	
Total 1988 Budget	1,500,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 129,042	\$ 129,042
1987			500,000	500,000
First Quarter 1988			270,958	270,958
Second Quarter 1988			200,000	200,000
Third Quarter 1988			200,000	200,000
Fourth Quarter 1988			190,000	190,000
1989			10,000	10,000
1990				
1991				
1992				
Estimated Contingency Funds				
Total			1,500,000	1,500,000

SCHED:pap
 3.13.87

Project Description:

The 1980 201 Facilities Plan Report recommended expansion of the Stillwater Plant to provide for advanced treatment of the combined Stillwater and Bayport wastewater flows. The facilities plan requires an update of wastewater flows, treatment alternatives and cost estimates. A design report, plans and specifications will be prepared based on the update.

Project Status:

Authorization: Included in the 1986-1990 Development Program.
 Step I: Requires update.
 Step II: Begin in mid 1987.
 Step III: Begin in 1989, continue into 1991.

Objectives for 1988: To complete most of the design.

Objectives for Future Years

1989 - Begin Construction
 1990 - Continue Construction
 1991 - Complete Construction
 1992 - Complete Certification Report

Rationale for
 Additional Appropriation

To provide funds for design.

Appropriations

1987 Budget	\$ 500,000	
Expenditures to 12/31/86		4,706
Balance Required		995,294
Total Funds Required		1,000,000
Additional Appropriation	500,000	
Total 1988 Budget	1,000,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 4,706	\$ 4,706
1987			15,294	15,294
First Quarter 1988			280,000	280,000
Second Quarter 1988			200,000	200,000
Third Quarter 1988			200,000	200,000
Fourth Quarter 1988			200,000	200,000
1989			100,000	100,000
1990				
1991				
1992				
Estimated Contingency Funds				
Total			1,000,000	1,000,000

SCHED:pap
 3.13.87

Project Description:

The Minneapolis Separation plans proposed separating some interceptors into both sanitary and storm water conduits. This project consists of the installation of approximately 8,000 ft. of elliptical specially coated corrugated metal pipe in the bottom of MWCC interceptor 1-MN-341 which will discharge into another MWCC interceptor. Along this length, connections are being made to the cities newly constructed sanitary only sewer. The remaining top portion of the interceptor will serve as storm water conveyance which will discharge to the river.

Project Status:

Authorization: The project is included in the 1986-1990 Development Program.
 Step I: Complete
 Step II: Complete
 Step III: Began in 1987, complete in 1987.

Objectives for 1988: Close out the project.

Objectives for Future Years

1989
 1990
 1991
 1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$1,500,000	
Expenditures to 12/31/86		75,735
Balance Required		1,414,265
Total Funds Required		1,414,265
Additional Appropriation	None	
Total 1988 Budget	1,500,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 75,735	\$ 75,735
1987			1,414,265	1,414,265
First Quarter 1988			10,000	10,000
Second Quarter 1988				
Third Quarter 1988				
Fourth Quarter 1988				
1989				
1990				
1991				
1992				
Estimated Contingency Funds				
Total			1,500,000	1,500,000

SCHED:pap
 3.13.87

Project Description:

This project consists of the construction of a new Plymouth Lift Station, approximately 11,000 L.F. of 36-inch forcemain, 19,000 L.F. of 42-inch forcemain and improvements to the New Hope Lift Station. The new Plymouth Lift Station will contain increased wet well volume, dry well space for 6 pumps and on site standby power. The ultimate station capacity will be 50 mgd. The capacity of the New Hope Lift Station will be upgraded to 14 mgd through the installation of upgraded pumps and related electrical equipment.

Project Status:

Authorization: The project is in the 1986-1990 Development Program.

Step I: Completed

Step II: Complete in early 1988.

Step III: Begin in 1988 and complete in 1989.

Objectives for 1988: To begin construction.

Objectives for Future Years

1989 - To substantially complete construction.

1990 - To finalize the project.

1991 - N/A

1992 - N/A

Rationale for
Additional Appropriation

1987 budget amendment provided \$770,000 for design & construction of a short segment. The additional funds are needed for the construction phase.

Appropriations

1987 Budget(87 Amendment)	\$ 1,120,000
Expenditures to 12/31/86	73,374
Balance Required	9,426,626
Total Funds Required	9,500,000
Additional Appropriation	8,380,000
Total 1988 Budget	9,500,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 73,374	\$ 73,374
1987			326,626	326,626
First Quarter 1988			50,000	50,000
Second Quarter 1988			1,000,000	1,000,000
Third Quarter 1988			2,000,000	2,000,000
Fourth Quarter 1988			2,000,000	2,000,000
1989			4,000,000	4,000,000
1990			50,000	50,000
1991				
1992				
Estimated Contingency Funds				
Total			9,500,000	9,500,000

Project Description:

The project consists of approximately 6,000 ft. of 21" gravity interceptor to serve southeastern Blaine and will connect to the existing MWCC interceptor, 4-NS-523, in Mounds View. The intersection point and alignment corridor have been agreed to with the City of Blaine. Construction of this project has the condition that it will proceed only after full assurance of Blaine's local sewerage system construction.

Project Status:

Authorization: The project is in the 1986-1990 Development Program.
 Step I: Complete
 Step II: Has not begun, coordinate with City plans.
 Step III:

Objectives for 1988

Objectives for Future Years

1989
 1990
 1991
 1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 1,700,000	
Expenditures to 12/31/86		323
Balance Required		<u>1,699,677</u>
Total Funds Required		<u>1,700,000</u>
Additional Appropriation	None	
Total 1988 Budget	<u>1,700,000</u>	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ _____	\$ _____	\$ 323	\$ 323
1987	_____	_____	_____	_____
First Quarter 1988	_____	_____	_____	_____
Second Quarter 1988	_____	_____	_____	_____
Third Quarter 1988	_____	_____	_____	_____
Fourth Quarter 1988	_____	_____	_____	_____
1989	_____	_____	<u>1,699,677</u>	<u>1,699,677</u>
1990	_____	_____	_____	_____
1991	_____	_____	_____	_____
1992	_____	_____	_____	_____
Estimated Contingency Funds	_____	_____	_____	_____
Total	_____	_____	<u>1,700,000</u>	<u>1,700,000</u>

SCHED:pap
 3.13.87

Project Description:

This project will conduct rehabilitation work upon MWCC's Joint Interceptor (1-MS-100). The 9.2 mile long reinforced concrete pipe and reinforced sandrock tunnel facility was built from 1935 to 1938. It had annual walk through inspections and sporadic rehabilitation work until 1965. The last inspection was done in 1977 by camera on most of the deep tunnel. The results of the related access improvement project (86-59) will be used to help plan and design for this future rehabilitation work.

Project Status:

Authorization: The project is in the 1986-1990 Development Program.

Step I: Begin in late 1987, complete in 1988.

Step II:

Step III:

Objectives for 1988: Complete the study.

Objectives for Future Years

1989

1990

1991

1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 250,000	
Expenditures to 12/31/86		1,491
Balance Required		248,509
Total Funds Required		250,000
Additional Appropriation	None	
Total 1988 Budget	250,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 1,491	\$ 1,491
1987			8,509	8,509
First Quarter 1988			60,000	60,000
Second Quarter 1988			60,000	60,000
Third Quarter 1988			60,000	60,000
Fourth Quarter 1988			60,000	60,000
1989				
1990				
1991				
1992				
Estimated Contingency Funds				
Total			250,000	250,000

SCHED:pap
3.13.87

Project Description:

The study will consist of determining viable alternatives for gaining better and safer access to the 9.2 mile joint interceptor (1-MS-100) constructed from 1935 to 1938. The greatest concern is primarily between the Mississippi and Marshall Streets and along the interceptor to the east side of the downtown St. Paul area. Along this portion, there are presently only 9 large access points and it carries about 2/3 of the MWWTP flow. There is no opportunity to reroute the flow if a failure on the interceptor occurs. The last inspection in 1977 determined the location of various small and large leaks. These leaks have the potential to develop large voids in the sandstone tunnel portions. Therefore, it is important to try to determine safe methods to inspect and maintain the interceptor.

Project Status:

Authorization: The project is in the 1986-1990 Development Program.

Step I: Complete the study in 1987, 1988.

Step II:

Step III:

Objectives for 1988: Complete the study.

Objectives for Future Years

1989

1990

1991

1992

Rationale for
Additional Appropriation

Appropriations

Funds are needed to plan for implementing recommendations from the study.

1987 Budget	\$ 100,000	
Expenditures to 12/31/86		12,595
Balance Required		112,405
Total Funds Required		125,000
Additional Appropriation	25,000	
Total 1988 Budget	125,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 12,595	\$ 12,595
1987			77,405	77,405
First Quarter 1988			10,000	10,000
Second Quarter 1988			10,000	10,000
Third Quarter 1988			15,000	15,000
Fourth Quarter 1988				
1989				
1990				
1991				
1992				
Estimated Contingency Funds				
Total			125,000	125,000

Project Description:

This project consists of construction of a sanitary sewer pipe adjacent to existing interceptors 1-SP-244, 1-SP-222 and 1-SP-220 in St. Paul. It will consist of approximately 4 miles (including lateral sewers) of gravity sewer varying in size from 21 inch diameter at its upstream connection to 60 inch diameter at its downstream connection to the Joint Interceptor. Numerous combined sewers and separate sanitary sewers will be connected to the new interceptor along its alignment. The connections will be regulated until such time that St. Paul has completed its sewer separation program. The capacity of the Trout Brook Interceptor will vary from approximately 35 cfs at its upstream end to 130 cfs at its downstream connection to the Joint Interceptor.

Project Status:

Authorization: The project is in the 1986-1990 Development Program.
 Step I: Complete
 Step II: Complete in 1987
 Step III: Substantial completion in 1989.

Objectives for 1988: Continue construction.

Objectives for Future Years

1989 - Substantial completion.
 1990 - Close out project.
 1991
 1992

Rationale for
Additional Appropriation

To fund added costs as estimated for the project.

Appropriations

1987 Budget	\$ 6,950,000	
Expenditures to 12/31/86		205,661
Balance Required		8,294,339
Total Funds Required		8,500,000
Additional Appropriation	1,550,000	
Total 1988 Budget	8,500,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$ _____	\$ _____	\$ 205,661	\$ 205,661
1987	_____	_____	844,339	844,339
First Quarter 1988	_____	_____	500,000	500,000
Second Quarter 1988	_____	_____	2,000,000	2,000,000
Third Quarter 1988	_____	_____	2,000,000	2,000,000
Fourth Quarter 1988	_____	_____	1,500,000	1,500,000
1989	_____	_____	1,400,000	1,400,000
1990	_____	_____	50,000	50,000
1991	_____	_____	_____	_____
1992	_____	_____	_____	_____
Estimated Contingency Funds	_____	_____	_____	_____
Total	_____	_____	8,500,000	8,500,000

SCHED:pap
3.13.87

Project Description:

This program provides for additional miscellaneous improvements to the wastewater treatment plant and the interceptor systems. The projects are proposed to provide for more effective operation and eliminate deficiencies in the system.

Project Status:

Authorization: This project was included in the 1986-1990 Development Program.

Step I:

Step II:

Step III:

Objectives for 1988: To continue to initiate and construct the high priority projects in the programs.

Objectives for Future Years

1989 - To continue design and construction.

1990 - To complete construction.

1991 - N/A

1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 4,000,000	
Expenditures to 12/31/86		392,499
Balance Required		<u>3,607,501</u>
Total Funds Required		<u>4,000,000</u>
Additional Appropriation	None	
Total 1988 Budget	<u>4,000,000</u>	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 392,499	\$ 392,499
1987			<u>1,342,729</u>	<u>1,342,729</u>
First Quarter 1988			<u>250,000</u>	<u>250,000</u>
Second Quarter 1988			<u>250,000</u>	<u>250,000</u>
Third Quarter 1988			<u>250,000</u>	<u>250,000</u>
Fourth Quarter 1988			<u>250,000</u>	<u>250,000</u>
1989			<u>500,000</u>	<u>500,000</u>
1990			<u>500,000</u>	<u>500,000</u>
1991			<u>264,772</u>	<u>264,772</u>
1992				
Estimated Contingency Funds				
Total			<u>4,000,000</u>	<u>4,000,000</u>

SCHED:pap
3.13.87

PROJECT 86-65 MISCELLANEOUS CAPITAL IMPROVEMENTS

<u>Project</u>	<u>Capital Project Cost</u>
Cherokee Avenue Sewer Construction	185,000
Interceptor Reliability Equipment - Additional portable standby generators for lift stations, larger portable pump and piping for handling diversion pumping during emergency repairs.	250,000
Pt. Douglas Road Lift Station Improvements - Modify/replace pumps to match flow and head conditions.	50,000
Computerized Inventory Interceptor System - Adapt a computerized inventory system to existing interceptors to provide planning and management tool.	50,000
Brooklyn Park Lift Station & Forcemain Improvements - Increase pump capacity and improve odor control and forcemain.	200,000
Blue Lake Plant Improvements - Piping modifications for process control.	20,000
Metro Plant Odor Control Improvements - Improvements to chemical scrubber system ventilation systems for solids processing facilities. Add compost odor control system to supplement chemical scrubber systems.	200,000
Metro Plant Energy Conservation Improvements - Window panel insulation for F&I #2 and compressor building. HVAC survey of plant.	250,000
Pt. Douglas Road Interceptor Improvements - Relocate approximately 1,500 ft. of dual pipe outside of new highway improvements.	250,000
Metro Plant Alternative Power Supply for Gravity Thickening Units - This area does not have dual power supply at present.	150,000
Reconstruction of 1,000 ft. of 48" pipe MSB 77-73 on State Highway 101, north of Highway 7 in the City of Minnetonka.	200,000
Meter Station Improvements - Consists of improving meter hydraulics, maintenance access and equipment as problems are identified.	250,000
Shakopee Lift Station Odor Control - Install control facilities, meter improvements and modify ventilation as needed.	140,000
Burnsville Lift Station Improvements - Improve ventilation, provide odor control, step II for pumping, piping and electrical modifications.	200,000
Moundsvlew Lift Station - New lift station roof, storage building for equipment, vehicles and standby generators.	100,000
France Avenue Interceptor Repair	165,000
Portland & Washington Regulator Modifications	100,000
Long Lake Lift Station Pump - Addition for peak flow.	40,000
Vadnais Hts. Lift Station Phase-Out Study	20,000

Metro Plant Improvements - Flow meters, control valves, density meters, sludge blanket sensors for sludge thickening processes.	150,000
Filter Modifications - Include modifying filter press system to achieve uniform feed to incinerators, modifying vacuum filter system to dewater thermally conditioned sludge and adding dewatering area field lab.	250,000
Effluent Foam Control System Improvements	75,000
HVAC Study - Plant wide study to recommend improvements to reduce energy costs.	100,000
Bio selector piping modifications.	50,000
Scum Piping Revisions to Remove Scum from West Activated Sludge	40,000
Provide Additional Administration Office Space	250,000
Incinerator 9/10 Hear Reclamation - Shaft cooling air.	75,000
Steam Flow Meters	40,000
Scum Burning System Modifications and #5 Fuel Oil Storage Tank	35,000
Ash Handling Improvements	65,000
Zero Hearth Burners for Odor Control	100,000
	<hr/>
	4,050,000

Project Description:

The present site of the Anoka Plant will serve as the location for a new 5.7 mgd lift station. It will allow phase-out of the Anoka WWTP and convey sewage to the Metro WWTP. Included in the project is a 4,000 ft. 18-inch forcemain across the Mississippi River into Champlin connecting to the existing CAB interceptor. A new magnetic flowmeter will be required on this project.

Project Status:

Authorization:

Step I: Complete

Step II: To begin late in 1987, complete in 1988.

Step III: To begin in 1989 and continue through 1990.

Objectives for 1988: Complete design.

Objectives for Future Years

1989 - Initiate construction (construction funds not requested in 1988 budget)

1990 - Complete construction.

1991

1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 300,000	
Expenditures to 12/31/86		0
Balance Required		300,000
Total Funds Required		300,000
Additional Appropriation	None	
Total 1988 Budget	300,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 0	\$ 0
1987			10,000	10,000
First Quarter 1988			72,500	72,500
Second Quarter 1988			72,500	72,500
Third Quarter 1988			72,500	72,500
Fourth Quarter 1988			72,500	72,500
1989				
1990				
1991				
1992				
Estimated Contingency Funds				
Total			300,000	300,000

Project Description:

The project will provide additional capacity and any necessary improvements to the existing effluent pumping station to be compatible with the capacity of the influent interceptor to the plant. The study for this (85-66-319) determined that one added pump (a sixth) was needed.

Project Status:

Authorization: The project is in the 1986-1990 Development Program.

Step I: Complete

Step II: Begin late in 1987, complete to 1988.

Step III: Begin in 1989, complete in 1990.

Objectives for 1988: Complete design.

Objectives for Future Years

1989 - Initiate construction (construction funds not requested in 1988 budget).

1990 - Complete construction.

1991

1992

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 200,000	
Expenditures to 12/31/86		0
Balance Required		200,000
Total Funds Required		200,000
Additional Appropriation		
Total 1988 Budget	200,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	0	\$ 0
1987			10,000	10,000
First Quarter 1988			47,500	47,500
Second Quarter 1988			47,500	47,500
Third Quarter 1988			47,500	47,500
Fourth Quarter 1988			47,500	47,500
1989				
1990				
1991				
1992				
Estimated Contingency Funds				
Total			200,000	200,000

SCHED:pap
3.13.87

Project Description:

The program provides for: 1) Commission long-range and facility planning, Implementation Plan coordination and preparations, and coordination and cooperation with Metropolitan Council on policy plans, implementation plans, and capital budget matters and 2) Council's planning and review activities relative to the Commission and development of revised policy plan.

Project Status:

Authorization: Authorized in the 1987 Capital Budget process.

Step I:

Step II:

Step III:

Objectives for 1988

- 1) Commission to implement facility planning studies, complete Implementation Plan and coordinate with Council in planning and new Policy Plan development.

Objectives For Future Years

1989 - To continue the program.

1990 - To continue the program.

1991 - To continue the program.

1992 - To continue the program.

- 2) Council to review Commission planning and to complete applicable planning studies and efforts.

Appropriations

1987 Budget	\$ 1,044,000	
Expenditures to 12-31-86		0
Balance Required		2,110,000
Total Funds Required		2,110,000
Additional Appropriation	1,066,000	
Total 1988 Budget	2,110,000	

Rationale for Additional Appropriation

Additional funds are necessary to carry on long range planning at the Council and Commission to complete the first Implementation Plan.

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 0	\$ 0
1987			1,044,000	1,044,000
First Quarter 1988			250,000	250,000
Second Quarter 1988			250,000	250,000
Third Quarter 1988			300,000	300,000
Fourth Quarter 1988			266,000	266,000
1989				
1990				
1991				
1992				
Estimated Contingency Funds				
Total				\$ 2,110,000

Project Description:

The project consists of the construction of about two miles of eight foot diameter parallel interceptor on the existing Minneapolis East Interceptor. Phase II of the interceptor extends from Third Avenue & Fifth Street N.E. and up to Marshall Ave. & 22nd St.

Project Status:

Authorization: Included in the Development Program for years 1981-1986.
 Step I: Completed
 Step II: Design is being updated in early 1987.
 Step III: Construction will start in fall of 1987.

Objectives for 1988: Continue construction.

Objectives for Future Years

1989 - Complete construction.
 1990 - N/A
 1991 - N/A
 1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$	0
Expenditures to 12/31/86		0
Balance Required		<u>26,000,000</u>
Total Funds Required		<u>0</u>
Additional Appropriation	26,000,000	
Total 1988 Budget	<u>26,000,000</u>	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	0	\$ 0
1987				
First Quarter 1988				
Second Quarter 1988,				
Third Quarter 1988			1,000,000	1,000,000
Fourth Quarter 1988			2,000,000	2,000,000
1989			9,000,000	9,000,000
1990			6,000,000	6,000,000
1991				
1992				
Estimated Contingency Funds			8,000,000	8,000,000
Total			<u>26,000,000</u>	<u>26,000,000</u>

Project Title Metro Plant RBS Improvements Number 87-55

Project Description:

Consists of new end stub shafts which have higher strength and are more resistant to corrosion. A spray water system will be included to control sludge buildup and enable more efficient operation. Improvements will be made to all 50 units.

Project Status:

Authorization: Included in the 1987 Budget by amendment.

Step I: Completed

Step II: Completed

Step III:

Objectives for 1988: To initiate and complete the construction.

Objectives for Future Years

1989 - N/A

1990 - N/A

1991 - N/A

1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$ 900,000	
Expenditures to 12/31/86		0
Balance Required		0
Total Funds Required		900,000
Additional Appropriation	0	
Total 1988 Budget	900,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 0	\$ 0
1987			100,000	100,000
First Quarter 1988			200,000	200,000
Second Quarter 1988			200,000	200,000
Third Quarter 1988			200,000	200,000
Fourth Quarter 1988				
1989				
1990				
1991				
1992				
Estimated Contingency Funds			200,000	200,000
Total			900,000	900,000

SCHEDULE OF
PROJECTS COMPLETED OR TO BE COMPLETED IN 1987

<u>Project Number</u>	<u>Project Description</u>
79-96	Overhead (not reimbursable)

SUMMARY OF NEW PROJECTS - REQUEST FOR FUNDING

<u>Project No.</u>	<u>Project Name</u>	<u>Step</u>	<u>Estimated Costs</u>
88-65	Misc. Capital Improvements	II, III	\$2,500,000

Project Description:

This program provides for additional miscellaneous improvements to the wastewater treatment plant and interceptor systems. The projects are proposed to provide for more effective operation and eliminate deficiencies in the system.

Project Status:

Authorization:

Step I:

Step II:

Step III:

Objectives for 1988: To initiate design and construction of the internal high priority projects in the programs.

Objectives for Future Years

1989 - To continue design and construction.

1990 - "

1991 - To complete construction.

1992 - N/A

Rationale for
Additional Appropriation

Appropriations

1987 Budget	\$	0
Expenditures to 12/31/86		0
Balance Required		<u>2,500,000</u>
Total Funds Required		<u>2,500,000</u>
Additional Appropriation	2,500,000	
Total 1988 Budget	<u>2,500,000</u>	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/86	\$	\$	\$ 0	\$ 0
1987			0	0
First Quarter 1988			50,000	50,000
Second Quarter 1988			50,000	50,000
Third Quarter 1988			50,000	50,000
Fourth Quarter 1988			400,000	400,000
1989			650,000	650,000
1990			550,000	550,000
1991			550,000	550,000
1992			200,000	200,000
Estimated Contingency Funds				
Total			<u>2,500,000</u>	<u>2,500,000</u>

PROJECT 88-65 MISCELLANEOUS CAPITAL IMPROVEMENTS

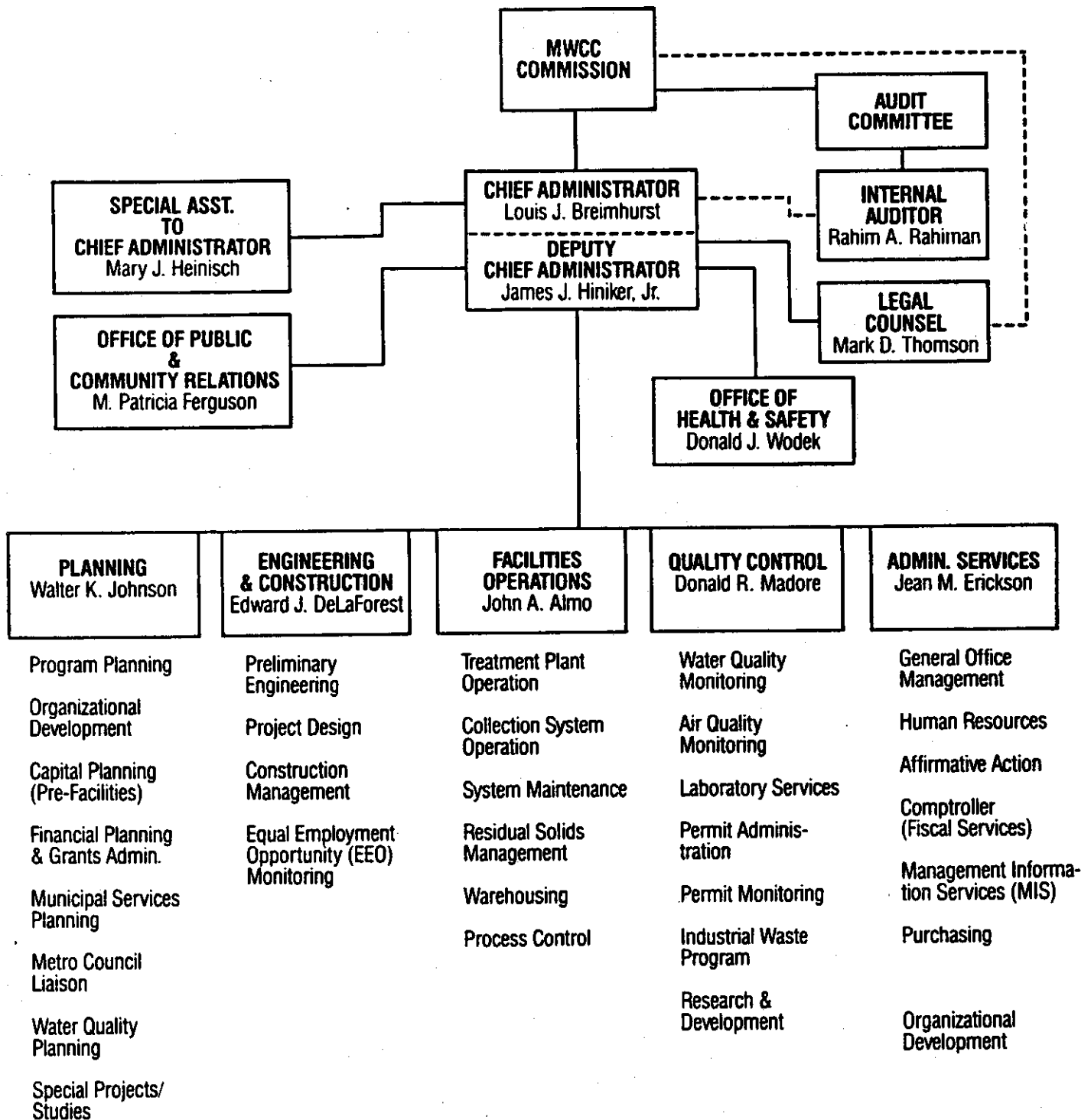
<u>Project</u>	<u>Capital Project Cost</u>
Mpls./St. Paul Regulator Improvements - Consists of structural, hydraulic and safety improvements for regulators returned to MWCC.	250,000
Seneca - Provide for improved plant odor control and necessary ventilation improvements.	150,000
Crystal Lift Station - Provide odor control for station.	100,000
Cottage Grove Interim Improvements - Upgrade grit removal, sludge pumping, chlorination facility and renovate filter building.	100,000
Metro Plant Computer Room Ventilation - Includes elimination of odorous/corrosive air to certain computer rooms and improved ventilation for E/G computer room for personnel health and safety.	200,000
Underground Storage Tank Improvements - Include leak detection, corrosion protection, secondary containment as required by upcoming state and federal regulation changes.	200,000
Metro Plant Storm Sewer Modification - Consists of changing storm sewer discharge point to downstream of dechlorination facility.	250,000
Burnsville Lift Station Modifications - Provides construction funding for modifying electrical, pumping and structural improvements to forcemain.	200,000
Metro Plant Grit Dewatering - Provides for improvements to obtain drier grit.	250,000
Metro Plant Screenings - Provides for improvements to obtain drier screenings for disposal.	250,000
Metro Plant Warehouse Sprinkler System - Provides for adding an automatic sprinkler system for 7,500 sq. ft. of warehouse space to reduce fire risk.	120,000
Metro Plant Roadway & Parking Area Lighting - Provides for adding 5 units of outdoor lighting to the employee entrance and parking area and 12 units of lighting to the roadway and parking areas near the effluent pump station and new dechlorination facilities.	55,000
Metro Plant Internal Lighting Improvements - Consists of converting 950 units of incandescent and/or mercury vapor lamps in the tunnels and galleries to high pressure sodium vapor units.	125,000
Relocation of approximately 1,200 ft. of Interceptor MSB 70-25 in Eden Prairie along TH No. 5 to allow for highway improvements.	250,000
	<hr/> 2,500,000

STATUS OF AUTHORIZED PERSONNEL

<u>Department/Plant</u>	<u>Proposed Budget 1988</u>	<u>Budget 1987</u>
Administration	22	22
Engineering/Construction	77	77
Quality Control	88	88
Planning	19	19
Operations		
Central Office	8	8
Empire	29	29
Metro - Operations	324	338
Metro - Maintenance	177	177
Seneca	50	46
Blue Lake	34	34
Anoka	4	4
Savage	2	2
Cottage Grove	4	4
Chaska	3	3
Bayport	1	1
Stillwater	9	9
Rosemount	7	7
Hastings	6	6
Interceptor	64	65
Administrative Services	<u>52</u>	<u>43</u>
Total	<u>980</u>	<u>982</u>

<u>PROJECT #</u>	<u>PROJECT DESCRIPTION</u>	<u>AMOUNT</u>
82-53	Lake Ann Interceptors	\$15,700,000
85-51	Rosemount Plant Repl.	4,300,000
85-54	Blue Lake Plant Expansion	3,000,000
85-55	Empire Plant Expansion	4,550,000
85-57	Seneca Plant Study	2,875,000
85-60	Savage Interceptor	6,000,000
85-63	Lakeville Lift Station	400,000
85-66	Middle Beltline Interceptor	5,000,000
85-67	Orono Interceptor Improvements	2,400,000
85-68	Eagan Interceptor	500,000
86-53	Stillwater Plant Expansion	1,000,000
86-55	Plymouth Interceptor	1,525,000
86-60	Trout Brook Interceptor	2,000,000
86-65	Misc. Capital Improvements	2,750,000
87-51	Anoka WWTP Phase-out	300,000
87-52	Metro WWTP Effluent Pump Station	200,000
87-54	Mpls. East - Phase Two	2,000,000
88-65	Misc. Capital Improvements	500,000
TOTAL PROCEEDS REQUIRED		<u>\$55,000,000</u>

4. After 1992, Debt Service Requirements will be predicated on project needs of approximately \$35 million. Bond sales will be required less any amounts received from the new revolving loan fund. If monies are received from the revolving loan fund, the Debt Service Requirement will be the sum of debt service on any bonds sold plus the debt service required on the re-payment to the revolving loan fund. The principal reason that lower project needs are projected is based on the assumption that treatment works will not require any major funding until after the year 2000.
5. The composite interest rate on bond sales will approximate seven percent (7%).
6. Total flows will increase approximately 1% per year which is consistent with Metropolitan Council projections on growth.
7. Inflation will average 4% during this period. This includes labor, materials, and construction costs.
8. Debt Service Requirements for reserve (unused) capacity will continue to be funded entirely through SAC charges through the year 1997.



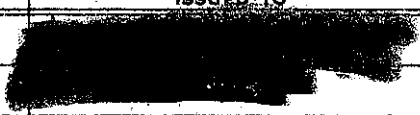
MWCC ORGANIZATIONAL CHART

TD 525 ,T9 M4ax 1988
Metropolitan Waste Control
Commission (Minn.)
Program budget

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Commission (Minn.)
Program budget

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