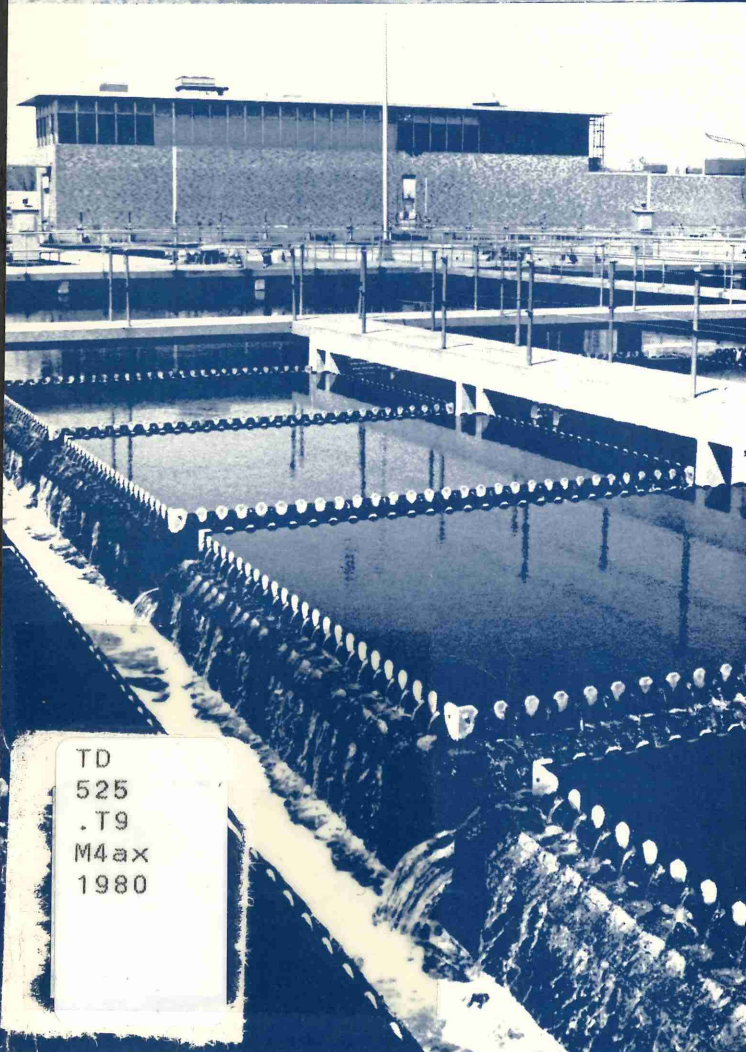
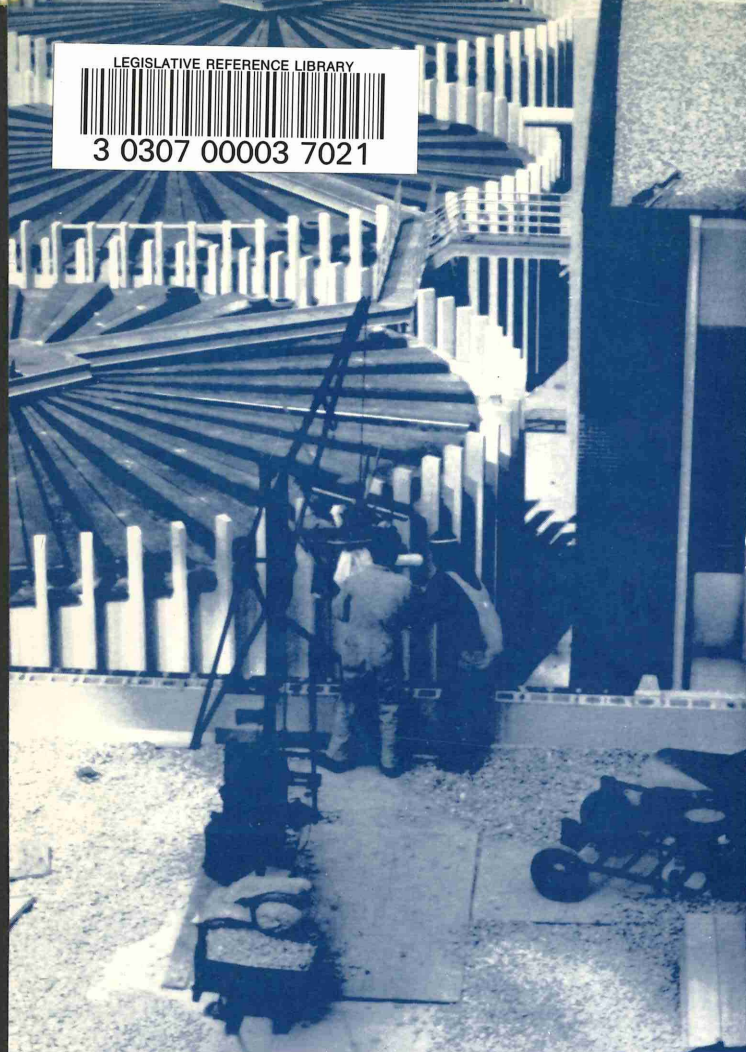


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OFFICIALLY APPROVED

# 1980 Budget

## Objectives and Programs

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RESOLUTION NO. 79-83

RESOLUTION APPROVING SUBJECT TO CONDITIONS THE 1980  
CAPITAL IMPROVEMENT BUDGET OF THE  
METROPOLITAN WASTE CONTROL COMMISSION

WHEREAS, the Metropolitan Waste Control Commission has submitted its proposed 1980 Capital Budget to the Metropolitan Council for review by the Council in accordance with the Minnesota Statutes, Sec. 473.163; and

WHEREAS, said Section authorizes and requires that the Metropolitan Council approve or disapprove the Capital Improvement Budget of the Metropolitan Waste Control Commission in whole or in part; and

WHEREAS, the Metropolitan Council has reviewed the proposed 1980 Capital Improvement Budget of the Metropolitan Waste Control Commission in relation to areawide fiscal capacity, functional system objectives, the Metropolitan Development Framework, and other applicable Metropolitan plans, policies, and programs; and

WHEREAS, the Physical Development Committee of the Metropolitan Council, in discharge of the above statutory responsibility, has analyzed the budget of the Commission and recommends that the Metropolitan Council act to approve, subject to compliance with certain conditions and recommendations, the Metropolitan Waste Control Commission's proposed 1980 Capital Budget and to direct the resubmission of the same prior to December 15, 1979.

NOW, THEREFORE, BE IT RESOLVED:

1. THAT the Metropolitan Council approves, subject to the exclusions and compliance with the conditions and recommendations contained in Referral Report No. 79-156 of the Physical Development Committee to the Metropolitan Council, the Capital Budget of the Metropolitan Waste Control Commission as set forth in an attachment to the Referral Report.
2. THAT the Metropolitan Council directs the Metropolitan Waste Control Commission to resubmit its proposed 1980 Capital Budget to the Council for further review prior to December 15, 1979, containing provisions which address and comply with recommendations 1 and 3 contained in Referral Report No. 79-156.



3. THAT the Metropolitan Council directs the Executive Director of the Council to transmit this Resolution together with the referenced report to the Metropolitan Waste Control Commission and to advise the Commission of the Council's procedure which must be followed in connection with the resubmission of the Capital Improvement Budget prior to December 15, 1979. Further, the Council directs the Executive Director to take all other action necessary to discharge the Council's statutory duty and responsibility with regard to its review of the Commission's Capital Improvement Budget.

Adopted this 27th day of September, 1979.

METROPOLITAN COUNCIL

By Charles R. Weaver  
Charles R. Weaver,  
Chairman

By Eugene Franchett  
Eugene Franchett,  
Executive Director

EP087A  
09.21.79

METROPOLITAN WASTE CONTROL COMMISSION  
350 Metro Square Building, Saint Paul, Minnesota 55101  
222-8423

## RESOLUTION NO. 79-315

RESOLUTION APPROVING AND ADOPTING  
1980 PROGRAM BUDGET

WHEREAS, the 1980 Program Budget was presented to the Commission at its regular meeting of June 19, 1979 and

WHEREAS, public hearings were held on the proposed budget on July 10, August 14, and September 11, and

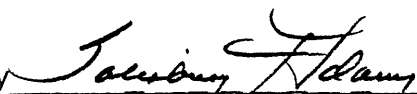
WHEREAS, the Metropolitan Council has reviewed and approved, with amendments, the capital improvement portion of the budget,

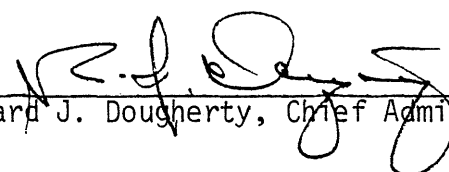
NOW, THEREFORE, BE IT RESOLVED:

1. That the Metropolitan Waste Control Commission approve and adopt the 1980 Program Budget as amended by the Metropolitan Council, and
2. That the amount of \$44,521,969.38 be allocated to the various units of government for current use costs, and
3. That the amount of \$2,850,000 be allocated to industrial users for Industrial Strength Charges, and
4. That the amount of \$4,071,055 be allocated to various units of government for reserve capacity charges, and
5. That the SAC unit charge applicable during the 1980 budget year is \$425.00 and
6. That the Commission concur with the Metropolitan Council on the capital improvement portion of the budget requiring no new funding for 1980, and
7. That the Commission concur with the Metropolitan Council on the reappropriation of \$144,640,651 for projects previously authorized as detailed on Schedule 12, and
8. That the Commission concur with the comments and recommendations approved by the Metropolitan Council relating to the capital improvement portion of the budget.

Adopted this 16th day of October, 1979

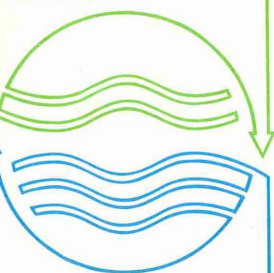
METROPOLITAN WASTE CONTROL COMMISSION

By   
Salisbury Adams, Chairman

By   
Richard J. Dougherty, Chief Administrator

RLB:hy  
10.11.79





## Chief Administrator's Message

June 5, 1979

The Honorable Salisbury Adams, Chairman  
Members of the Commission  
Metropolitan Waste Control Commission  
350 Metro Square Building  
Saint Paul, Minnesota 55101

Dear Mr. Adams and Commissioners:

Enclosed for your review and consideration in accordance with the Metropolitan Council Act, Minnesota Statutes, Chapter 473B.063 (as amended by the Metropolitan Reorganization Act, Chapter 422, 1974 Session Laws), is the proposed 1980 Operating and Capital Budgets for the Metropolitan Waste Control Commission covering the period January 1 through December 31, 1980.

### Operating Budget:

The procedure followed in preparation of the Operating Budget began with the Chief Administrator informing the Department Directors that the goal for 1980 was a zero budget increase. The Department Directors passed this on to their Program Managers who subsequently submitted program budgets significantly less than the increases requested for the prior year. It is pertinent to advise the Commissioners that over sixty people from all sections of the Commission participated in this budget process. After the Budget Committee, consisting of the Deputy Chief Administrator, Director of Construction and Comptroller had met with each Program Manager, respective Department Directors, and staff the total budget increase for 1980 was 6.0%. Subsequent meetings with Program Managers and the Budget Committee caused further reductions in the level of services, reevaluation of new personnel requests and other adjustments that resulted in an agreed upon budget increase of only 3.5% over the 1979 appropriations. This increase was reviewed with the Chairman and agreement was given to present the budget as proposed to the Commission.

The budget document submitted to you herewith represents the results of this process and procedure.

Expenditures for the administration, operation and maintenance of the Metropolitan Disposal System during 1980 totals \$51,934,623. This amount represents a \$1,741,799, or 3.5 percent increase in proposed expenditures over the current year's Budget. The total proposed expenditures of \$51,934,623 are detailed and described in 56 Program Budgets as indicated on Schedules 3 through 3-28. Each Program Budget indicates a description of the program, performance criteria and total resources required. You will find that Program Budgets and performance measurements, which emphasize results, not

**Richard J. Dougherty**  
Chief Administrator

**Anthony C. Gnerre**  
Deputy Chief Administrator

**Departmental Directors**  
**Bernard J. Harrington**  
Engineering

**Raynold O. Folland**  
Construction

**George W. Lusher, Jr.**  
Operations

**Walter K. Johnson, Ph. D.**  
Quality Control

**Richard L. Berg**  
Comptroller

**Kenneth E. Robins**  
Business Services

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.

Some of the significant items in the Proposed 1980 Budget are as follows:

Salaries and Wages - Proposed salaries and wages for 1980 total \$13,813,787, an increase of \$1,955,377 over the prior year. This increase is attributed to 43 new positions and pay increases as provided for in labor agreements for longevity, merit and cost of living considerations.

Insurance - Proposed insurance costs for 1980 total \$1,157,265, an increase of \$107,400 or 10.2 percent over the prior year. This increase is primarily attributed to the increase in Worker's Compensation insurance.

Contracted Services - Proposed contracted services costs for 1980 total \$2,317,405, a decrease of \$530,966 or 18.6% under the prior year, due primarily to the reduction of \$200,000 for Major Emergency Repairs and ash lagoon clean-outs are not scheduled for 1980 resulting in a \$250,000 reduction alone.

Debt Service & Acquisition Costs - Debt Service & Acquisition Costs for 1980 total \$17,696,130 an increase of \$650,645 over the prior years. The increase is due to the larger payment due the Metropolitan Council and the Acquisition of the Burnsville-West Interceptor, which totals approximately \$300,000 for Debt Service & Acquisition Costs in 1980. A summary of Debt Service is indicated on Schedule 4 complete with details for debt assumed from local governments and bond issues of the Metropolitan Council for sewer capital improvements. Acquisition costs are summarized and detailed on Schedule 5.

This acquisition imposes a significant increase (0.6%) that suggests future acquisitions be carefully considered for their economic impact. The future maturity schedules will also require increased annual debt service payments making it virtually impossible to hold the line on current costs.

Personnel Summary - The personnel requirement for 1980 requires 43 new positions resulting in a total complement of 752 employees. Of these new positions, 37 are required for the administration, operation, and maintenance of the Metropolitan Disposal System as follows: Four (4) for Quality Control (water quality, air quality, and laboratory services); One (1) for the Business Services Department; One (1) employee for Engineering for Comprehensive Sewer Plans; Twenty-nine (29) new employees are required for the expanded facilities at Metro, and two (2) employees for the increased Sludge Hauling at the Blue Lake Plant. Six (6) of the positions relate to Construction, all of which are in



the Engineering Department, two (2) for Step II Work and four (4) for the 201 Projects. We wish to point out containment of new personnel was our most difficult decision, and we believe we have risked a deficiency in this area. If crisis arrives in meeting our responsibilities, permit requirements etc., due to personnel deficiencies, we feel confident this situation can be dealt with on a current basis.

Sewer Service Charges - Allocation of current use charges to local governments being served by the Metropolitan Disposal System is estimated to Cost \$48.00 per 100,000 gallons (per family ) based on flow volume of 92,747 million gallons. This is an increase of 1.5% over 1979. This will produce revenues in an amount of \$44,521,969.

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

<u>Description</u>	<u>Current Use %</u>	<u>Current Use Debt Ser.</u>	<u>Reserve Cap %</u>	<u>Reserve Cap. Debt Ser.</u>
TW	81.2394	8,177,796.85	18.7606	1,888,497.15
SA #1	69.4658	819,276.87	30.5342	360,119.13
SA #2	27.3488	155,756.34	72.4887	413,761.66
SA #3	31.5113	39,300.58	68.4887	85,418.42
SA #4	21.8542	168,300.72	78.1458	601,806.28
SA #5	19.9600	105,818.34	80.0400	424,333.66
SA #6	17.3981	62,580.79	82.6019	297,118.21
Totals		<u>9,528,830.49</u>		<u>4,071,054.51</u>

The total Reserve Capacity Requirement is \$4,071,055. Based on our analysis, we are proposing that the present SAC Charge of \$425 be continued without change.

Industrial Strength Charges - This system anticipates revenues from an estimated 150 firms located in 31 units of government with estimated revenues of \$2,850,000. See Appendix A for a distribution and certification of firms and charges.

A summary of the changes in various categories are shown as follows:

Increase in the 1980 Budget due to normal Budget increases including wage increases, price increases on materials and supplies, contracted services, etc.	5.0%
Increase in 1980 Budget related to new facilities at the Metropolitan Wastewater Treatment Plant.	1.2%

The Honorable Salisbury Adams, Chairman  
Members of the Commission  
June 5, 1979  
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Decrease in 1980 Budget due to decreased costs of land disposal of sludge.	(.6%)
Decrease in 1980 Budget in various categories contained in 1979 programs.	(3.2%)
Increase in 1980 Budget due to increase in insurance premiums.	.2%
Decrease in 1980 Budget due to decrease in the reserve for major repairs.	(.4%)
Increase in 1980 Budget due to increase in Debt Service & Acquisition Costs.	<u>1.3%</u>
Net Budget Increase	<u><u>3.5%</u></u>

#### Capital Budget

This section deals with the Capital Improvements Program which requires review and approval by the Metropolitan Council. Previously approved projects require additional appropriations of \$8,019,612. However, other previously approved projects have appropriations reduced \$18,242,754, so the net effect is a decrease in previously approved projects of \$10,223,142. The additions to and subtractions from previously approved projects are detailed and described on Schedule 12. There are no new projects requested for 1980.

Revenue requirements to finance these projects which were previously approved and authorized total \$146,449,551. These revenues include Certified Federal Grants of \$82,787,561, Certified State Grants of \$16,557,514, anticipated future Federal and State Grants of \$23,579,522, and investment earnings of \$535,000. A complete financial review, analysis of the Capital Improvements Program indicates a fund balance on December 31, 1978 in the amount of \$30,088,546; estimated total revenues in the amount of \$125,469,597 expenditures for previously funded programs totaling \$146,499,551, resulting in a fund balance at completion of the current program in the amount of \$9,108,592.

This financial analysis indicates that the program fund balance of \$9,108,592 is available to fund future projects entirely with local funds and/or for providing funds for the local share when federal and state funding is available. A summary statement of the fund balance, revenues and expenditures is indicated on Schedule 7. It is anticipated that the sale of bonds will not be required within the next year.

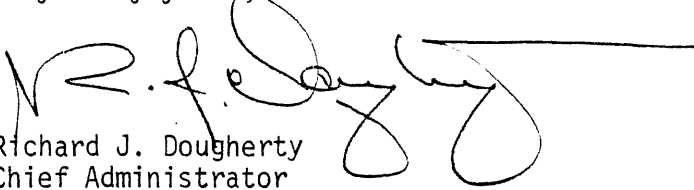


The Honorable Salisbury Adams, Chairman  
Members of the Commission  
June 5, 1979  
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Included in this Budget document is an update status report summary of all current Capital Improvement Projects previously approved and authorized and indicated on Schedule 12. Status reports of Certified Federal and State grants, anticipated Federal and State grants and anticipated investment earnings are indicated on Schedules 8,9,10 and 11.

In submitting this 1980 Program Budget to the Commission, I wish to point out that many members of the staff have contributed significantly to the preparation of this Budget. Their expertise, experience and judgment have been exceedingly valuable. The task, at this point, is for the Commissioners 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 to you our complete cooperation and assistance in the review process.

Very truly yours,

A handwritten signature in black ink, appearing to read "R. J. Dougherty", with a long horizontal line extending to the right.

Richard J. Dougherty  
Chief Administrator

RJD:RLB:hy

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# GOALS AND OBJECTIVES

## **General Goal**

It is the goal of the Metropolitan Waste Control Commission of the Twin Cities Area to continue refinement of the overall management and operation of the Metropolitan Disposal System and accelerate pollution abatement programs; thereby fulfilling all statutory responsibilities in an environmentally sensitive and economically sound manner that will continue to enhance water quality and benefit both area and downstream citizens.

## **Objectives**

Administration: To ensure overall administrative management of Commission affairs including legal and legislative matters; policy formulation and implementation; all programs related to Federal, State and local agencies; competitive and equal opportunities for employees; a positive affirmative action program; employee career development programs; ongoing information and communication programs with all levels of government and citizens; a safety program complying fully with the Occupational Safety and Health Act (OSHA); and special projects.

Engineering: To provide a variety of engineering and technical services for the Commission encompassing facility design, consulting engineer liaison, comprehensive sewer plan review, cost allocation and technical data production, planning coordination and capital project implementation.

Quality Control: To supply a total quality control program for the Commission through sampling and laboratory services, water quality monitoring systems, process evaluation programs, industrial waste surveillance, research and development projects and requested technical services.

Construction: To manage all proposed and authorized capital improvement projects and existing facility inspection programs for the Commission through project review, inspection services, testing, surveys, change orders, cost and payment estimates, and report preparation.

Operations: To maintain the operational efficiency of all Commission water pollution control facilities within the effluent and water quality standards prescribed by the National Pollutant Discharge Elimination System permit program through continued upgrading of wastewater treatment plant processes, improved facility maintenance, inspection of interceptor sewers and instrumentation, and expanded plant services and research and development programs.

Business Services: To supervise for the Commission the necessary services for personnel administration, labor agreement negotiation, labor contract administration, life and medical insurance assistance, property and casualty insurance processing, all purchasing functions and overall office management.

Comptroller: To perform the full range of required financial services for the Commission on a timely basis including collections, disbursements, payroll, investments, budgeting, general accounting, final reporting, cost effectiveness studies and other related financial matters.

## General Fund – Revenues & Expenditures

	<u>Proposed 1980</u>	<u>Budget 1979</u>	<u>Actual 1978</u>
ESTIMATED REVENUES:			
Sewer Service Charges - Communities	\$44,521,969	\$43,019,339	\$39,163,496
Industrial Strength Charges	2,850,000	2,869,000	2,085,532
Service Availability Charges	4,071,055	3,859,485	8,702,291
Investment Earnings	375,000	300,000	522,192
Federal & State Grants	91,599	120,000	90,093
Other	<u>25,000</u>	<u>25,000</u>	<u>11,995</u>
Total	<u>\$51,934,623</u>	<u>\$50,192,824</u>	<u>\$50,575,599</u>

### ESTIMATED EXPENDITURES:

Programs	\$34,238,493	\$33,147,339	\$25,401,544
Debt Service	13,599,885	13,073,568	13,917,006
Acquisition Costs	4,096,245	3,971,917	3,971,918
Transfer to SAC Reserve	-0-	-0-	4,604,046
Due to Local Governments	<u>-0-</u>	<u>-0-</u>	<u>2,681,085</u>
Total	<u>\$51,934,623</u>	<u>\$50,192,824</u>	<u>\$50,575,599</u>



# PROGRAMS

## ADMINISTRATION & MANAGEMENT (001)

Description: To ensure accomplishment of all agency goals and objectives through efficient and effective administrative management of overall Commission affairs.

1. Review financial affairs of the Commission;
2. Provide leadership and direction to Department Directors and Program Managers;
3. Ensure that construction work is on schedule;
4. Review NPDES reports for compliance with effluent limitations;
5. Provide leadership in attaining affirmative action goals;
6. Carry out and administrate Commission policy;
7. Ensure that plans and specifications and the Capital Program are presented on a timely basis.

### Performance Criteria:

1. To administrate, in cooperation with the Comptroller, the financial affairs of the Commission in a manner that the expenditures do not exceed the income;
2. To administrate, in cooperation with the Comptroller, the Program Budget in such a manner that the manpower, cost estimates, and goals set forth in the management programs are met;
3. To administrate, in cooperation with the Construction Department, so as to maintain change order amounts to less than 3% of the construction value. Maintain the construction work on schedule for 1979;

## ADMINISTRATION & MANAGEMENT (continued)

4. To administrate, in cooperation with the Operations Department, a 92% compliance with NPDES effluent limitations at the Metro Plant and 94% compliance at all other plants and maintain a severity rate of less than 40% at all plants during 1978;
5. To achieve the affirmative action goals in maintaining a program of recruitment, selection, upward mobility and training that will measure improvement in the overall employment of minorities, females, and the handicapped;
6. To achieve a 95% frequency of acceptance on the recommendations made to the Commission;
7. To administrate, in cooperation with the Engineering Department, the completion of plans and specifications and the presentation of the Capital Program on schedule.

Resources Required: \$ 511,459

Work Hours Required: 3,650

## COMMISSION ADMINISTRATION (002)

Description: To provide Commissioners with prompt administrative support and with efficient implementation of policy directives from official actions of the Commission.

1. Review and/or prepare memorandums, resolutions and other pertinent data for presentation to Committee and/or Commission meetings;
2. Prepare and present various operational reports on all major functions of the Commission;
3. Promptly report and communicate all major items that have or could have any adverse effect on the Commission;



COMMISSION ADMINISTRATION (continued)

4. Carry out all Commission directives and requests.

Performance Criteria:

1. Preparation of Commission business items and mail prior to Wednesday of the week preceding Commission Committee, regular and/or special meetings;
2. Present monthly operational reports such as financial and other pertinent items;
3. Respond to Commission directives and/or requests within five (5) days.

Resources Required: \$ 91,150

Work Hours Required: 4,100

AFFIRMATIVE ACTION/EEO (003)

Description: Maintain a program of recruitment, selection, upward mobility and training that will measure improvement in the overall employment of minorities, females and handicapped.

1. Carry out the complete requirements of the Commission's Affirmative Action Program;
2. Comply with all requirements of the State of Minnesota Department of Human Rights, and the Equal Employment Opportunity Commission;
3. Assist and direct the Commission's Affirmative Action Committee to act and perform in an effective and timely manner;
4. Provide Human Relations Training;
5. Employ and train minorities for professional and managerial job categories;

AFFIRMATIVE ACTION/EEO (continued)

6. Employ handicapped and train, if needed.

Performance Criteria:

1. Increase the number of minorities and females employed during the budget year by approximately 3%;
2. Comply with all requirements of the State of Minnesota Department of Human Rights and requirements of EEO;
3. Publish monthly Affirmative Action Report;
4. Continue employee Human Relations Training Program;
5. Increase minority and female employees in professional and managerial categories;
6. Recruit and employ handicapped, where applicable.

Resources Required: \$ 81,627

Work Hours Required: 6,500

PUBLIC INFORMATION (004)

Description: To conduct a total information and communication program for all internal and external Commission audiences.

1. Provide information and educational programs regarding pollution control objectives, activities and responsibilities to government organizations, the news media, individual citizens, and educational institutions;
2. Increase the level of government official and citizen involvement in the decision-making process pursuant to Commission objectives and in compliance with the dictates of EPA



## PUBLIC INFORMATION (continued)

2. (cont.) Regulations, public participation in water pollution control, and all other applicable federal and state regulations;
3. Insure total communications support to all levels and areas of staff and employee activity.

### Performance Criteria:

1. Produce and distribute 7,000 copies of the 1979 Annual Report by February 20, 1980;
2. Produce and distribute 12 issues of OUTFALL Newsletter and Employee Newsletter and Employee News;
3. Produce special reports, brochures, presentations, projects as assigned;
4. Perform the following aspects of Information Program to fulfill Commission and Section Program Objectives: audio visual programs; speech, statement and report writing and editing; on-going public, news media, governmental, employee and visitor programs; and all other special projects and programs - all within set deadlines.

Resources Required: \$ 86,180

Work Hours Required: 4,840

## SAFETY (005)

Description: Provide an effective comprehensive Safety Program for all Commission employees and other personnel at all Commission facilities and projects.

### Performance Criteria:

1. Inspect each treatment plant for safe and healthful working conditions at least once each month.

## SAFETY (continued)

1. (cont.) Inspect the various lift stations, meter vaults, storage areas and equipment as necessary. Issue notice of non-compliance to supervisors for violation of Commission Safety Program's policies, or OSHA law;
2. Maintain accurate and adequate injury records: report injury statistics bi-annually;
3. Respond to each request for Safety Services which include: (but are not limited to) analysis of air contaminants, noise levels, product suitability, construction design, or work procedures;
4. Provide training in the use of safety equipment, in the handling of hazardous materials, in operating procedures, in injury prevention, first-aid and driver education;
5. Write, for monthly distribution, a Safety Newsletter;
6. Write and distribute Safety Bulletins for Commission employees welfare as necessary.

Resources Required: \$ 63,764

Work Hours Required: 3,950

## CAREER DEVELOPMENT: (006)

Description: To provide educational and training opportunities for employees to aid in performing current job assignments more efficiently and to prepare for promotional and advancement opportunities within the organization.

1. Enroll and successfully complete courses of study for approximately 100 employees within the organization in the 10 major program categories listed under Performance Criteria.



## CAREER DEVELOPMENT (continued)

### Performance Criteria:

1. Fundamentals of wastewater treatment;
2. Operation of wastewater treatment plants;
3. State Certification;
4. Other Operations programs;
5. Quality Control;
6. Clerical-secretarial programs;
7. Management Center - College of St. Thomas;
8. University of Minnesota;
9. Other educational and vocational programs;
10. Degree program.

Resources Required: \$ 25,600

Work Hours Required: 250

## GRANTS ADMINISTRATION (007)

Description: To administer the Commission's Construction Grants Program in accordance with the requirements of the Federal Water Pollution Control Act and other statutory and regulatory procedures. Grant management activities include:

1. The collection and monitoring of grant resource information and documents;
2. Continual liaison between the Commission and Federal and State Agencies;
3. Maintaining supporting documents, statistical records and other information pertinent to grants;

## GRANTS ADMINISTRATION (continued)

4. Insuring the Commission's compliance with applicable administrative actions and conditions of grants;
5. The development and submission of grant proposals.

### Performance Criteria:

1. To review statutes, executive orders, agency regulations and programs concerning federal and state grant requirements and the availability of funds;
2. To coordinate and administer grant activities in cooperation with the Minnesota Pollution Control Agency, Metropolitan Council, State Planning Agency, State Historical Society, Environmental Protection Agency and the Corps of Engineers;
3. To maintain and establish a grant records system to preserve documents and information essential to the management of the grant. All records must be retained for a period of three (3) years;
4. Assist Commission Departments in meeting grant regulatory requirements and provide guidance to staff as required;
5. Prepare applications and assist in obtaining federal and state financial aid for 1980.

Resources Required: \$ 54,053

Work Hours Required: 4,700

## ENGINEERING ADMINISTRATION (008)

### Description:

1. To administrate the department's responsibilities in an effective and efficient manner, including the use of program account funds,



## ENGINEERING ADMINISTRATION (continued)

1. (cont.) preparation and presentation of Commission Business Items, review and recommend action on interceptor acquisition requests, responses to requests and correspondence, continuously update design standards and criteria, provide effective supervision and make annual personnel evaluations, attend staff meetings to establish Commission policies and objectives and prepare the annual department program budget;
2. To prepare and recommend approval of special agreements including the coordination of site investigations, design review and consideration for Commission facilities;
3. To provide engineering support to other departments including the preparation and implementation of in-house plans and specifications for minor improvements, rehabilitation work and replacement projects.

### Performance Criteria:

1. Were expenditures kept within the budgeted amounts in Accounts 5040 through 6200? Were business items, outside responses and interceptor acquisition requests effectively and timely provided, recommended and/or presented each time? Were design standards and criteria, supervision, personnel evaluations, and attendance at staff meetings effectively accomplished and/or implemented each time? Was the annual budget prepared and submitted by April 1, 1980?
2. Were all special agreements effectively and timely provided and implemented each time?
3. Was engineering support including the preparation of in-house plans and specifications effectively provided?
4. Were program objectives accomplished within the budgeted manhours and costs?

## ENGINEERING ADMINISTRATION (continued)

Resources Required: \$ 215,211

Work Hours Required: 11,780

## COMMUNITY SERVICES (009)

### Description:

1. To request, review, coordinate and recommend approval of local community and school district comprehensive sewer plans, local sanitary sewer improvement projects and to meet with local government units and the Metropolitan Council to discuss planning coordination regarding sanitary sewer planning;
2. To review and comment on amendments to the Waste Management Policy Plan, community comprehensive plans, environmental impact statements, NPDES permits, A-95 grant applications, watershed plans as requested;
3. To review and recommend approval of sewer connection permit applications, rental agreements and interceptor use policies;
4. To obtain, determine, evaluate, and assign actual sewage flow for communities based on metered and unmetered flow information and to project estimated community flows, interceptor and treatment capacities for use in the Cost Allocation Program;
5. To study, determine and assign Service Availability Charge (SAC) units for non-industrial users of the Metropolitan Disposal System.

### Performance Criteria:

1. Prepare for an obtain Commission approval for 75-100 community comprehensive sewer plans. Review and coordinate with Metropolitan Council and communities on approximately 150 comprehensive sewer plan elements. Provide comments to the community and the Minnesota Pollution



## COMMUNITY SERVICES (continued)

1. Control Agency on approximately 300 community sewer improvement projects;
2. Provide comments on 100 environmental impact statements, NPDES permits and A-95 reviews to the Metropolitan Council;
3. Review and obtain approval of approximately 50 interceptor connection permit applications and sewer rental agreements;
4. Determine, review and assign the actual sewage flow volumes (140 metered and 70 unmetered) for 102 communities and report these total flows on both a quarterly and annual basis. Provide the assigned treatment works and interceptor capacities and the estimated sewage flow volumes for 102 communities in the 1979 Cost Allocation Program. Provide routine sewage flow and special flow analysis data to communities in a timely manner to 40 communities. Prepare, distribute, collect and analyze "Survey of Sewer Use Data Forms" for 100 communities to obtain information on present and proposed sewer use and sewer connections plus similar data on water;
5. Determine and assign the SAC units in a timely manner and furnish the results to the communities in either oral (900-1000) or written (100-150) communications. Expand the present chart on SAC unit determinations to include additional commercial, public and institutional uses.

Resources Required: \$ 108,142

Work Hours Required: 8,720

## PROJECT PLANNING (010)

Description: To prepare the Development Program for Years 1982-86 in accord with the requirements of the Metropolitan Reorganization Act and with information from the Facility Planning Studies by December 31, 1980 within manhours and costs.

Performance Criteria: Was the Development Program for Years 1982-1986 prepared by December 31, 1980 and within the budgeted amounts.

Resources Required: \$ 65,237

Work Hours Required: 4,120

## QUALITY CONTROL ADMINISTRATION (011)

Description: To plan, direct and control the activities of the Quality Control Department.

1. Provide coordination, supervision and aid to the managers of the seven departmental programs to accomplish their objectives through monthly reviews of objectives and budgets, semi-monthly program managers' meetings, and general administrative and clerical support;
2. Coordinate departmental activities with other departments, the Chief Administrator, and the Commission through appropriate meetings and reports;
3. Respond to external requests for information and data from other government agencies and individuals;
4. Prepare a comprehensive annual report of departmental activities before June 30, 1980;



## QUALITY CONTROL ADMINISTRATION (continued)

5. Review the status of each departmental employee on the employee's employment anniversary date; recruit departmental staff; personnel planning;
6. Encourage a program for the cataloging and statistical analysis of treatment plant and water quality data to aid in assessing the effectiveness of programs;
7. Encourage participation by employees in professional activities through conferences, lectures, continuing education and presentation of papers.

### Performance Criteria:

1. Degree of attainment of program objectives;
2. Number and value of meetings and reports;
3. Adequacy of responses and the response system;
4. Date of report completion;
5. Personnel needs are or are not being met;
6. Activity in the logging and analysis of data;
7. Continuing education activity of employees.

Resources Required: \$ 67,561

Work Hours Required: 3,106

## INDUSTRIAL WASTES (012)

Description: To administer the industrial waste regulations of the Commission and evaluate the impact of industrial wastes on treatment plant operations.

1. Plan and coordinate the industrial waste program;

## INDUSTRIAL WASTES (continued)

2. Maintain a current inventory of industrial waste contributors and prepare quarterly summary reports on contributors and monitoring;
3. Process all industrial SAC applications received;
4. Administer the strength charge and industrial cost recovery systems;
5. Conduct 150 industry investigations;
6. Conduct 15 treatment plant investigations;
7. Administer the Commission pre-treatment system;
8. Attend 4 conferences on industrial waste treatment technology;
9. Prepare an annual industrial wastes report by March 15.

### Performance Criteria:

1. Comparison of objectives met and resources used;
2. Number of industries delinquent in reporting and those properly inventoried;
3. Number of SAC applications processed in 10 days and total number received;
4. Number and dollar amounts of bills prepared;
5. Number of industry investigations conducted;
6. Number of treatment plant investigations conducted;
7. Number of problems resolved and total number of problems assigned;
8. Assessment of value of conferences to the Commission;
9. Date of completion.



## INDUSTRIAL WASTES (continued)

Resources Required: \$ 262,114

Work Hours Required: 20,890

## RESEARCH & DEVELOPMENT (013)

Description: To provide support for and conduct in-house research, external research, plant operations research, and pilot plant studies.

1. Sponsor research projects at U of M which address the long-term needs of the MWCC in terms of treatment performance and analytical procedures;
2. Review R & D activities of other agencies;
3. Continue funding of joint USDA/MWCC study of sludge disposal on agricultural lands;
4. Conduct short-term special studies as requested by Engineering and Operations Departments;
5. Continue investigation of alternative disinfection methods and associated effects on receiving waters;
6. Continue investigation of alternative disinfection methods and associated effects on receiving waters;
7. Conduct pilot scale investigation of nutrient removal schemes for Metro Plant flows;
8. Continue investigation of methods to characterize, condition, stabilize, and dewater treatment plant sludges;
9. Design and construct bioassay facility by December 31, 1980;
10. Complete evaluation of sampling system of Metro by December 31, 1980;

## RESEARCH & DEVELOPMENT (continued)

### Performance Criteria:

1. Quality of project reports in terms of MWCC needs;
2. Number of books, reports, and papers reviewed and technical meetings attended;
3. Value to MWCC for planning and operation of land disposal facilities and as operating sludge disposal system;
4. Time required to provide requested information and quality of reports;
5. Quality of project reports;
6. Quality of data collected and report prepared;
7. Quality of project reports;
8. Quality of project reports;
9. Date bioassay facility completed;
10. Date evaluation completed.

Resources Required: \$ 251,170

Work Hours Required: 12,820

## WATER QUALITY MONITORING (014)

Description: To monitor the quality of Metropolitan Area rivers and lakes through the MWCC Comprehensive Water Quality Monitoring System which includes the MWCC Routine River Sampling Network, the MWCC Routine Lake Sampling Network, the MWCC-USGS Cooperative Grab Sampling Network, and the MWCC-USGS Cooperative Automatic Monitor Surveillance Network.

1. Direct the operation of the MWCC Comprehensive Water Quality Monitoring System;

#### WATER QUALITY MONITORING (continued)

2. Conduct the MWCC Routine Grab Sampling Program at 30 river locations, bi-weekly to monthly for 25 parameters;
3. Conduct the MWCC-USGS Grab Sampling Program at 20 river locations, monthly, for metals, radiochemical, and inorganic parameters;
4. Conduct the MWCC-USGS Automatic Monitoring Program at 12 river locations;
5. Conduct the MWCC Lake Monitoring Program at 8 lakes, for 25 parameters;
6. Prepare an Annual Report of area water quality by June 1, 1980;
7. Attend one conference on Water Resource Management; attend one conference on Limnology; attend one training session on Automatic Monitor Maintenance;
8. Develop computer applications to water quality data management, analysis, and interpretation;
9. Conduct special studies as required.

#### Performance Criteria:

1. Total number of rivers and lakes sampled versus the number planned;
2. Total number of samples obtained versus the number planned;
3. Total number of samples obtained versus the number planned;
4. Total number of Automatic monitors in operation;
5. Total number of lakes sampled semi-monthly;
6. Compare completion date with scheduled completion date;
7. Written assessment of conferences;

#### WATER QUALITY MONITORING (continued)

8. Number of computer applications developed;
9. Number of required special studies completed.

Resources Required: \$ 199,130

Work Hours Required: 13,120

#### LABORATORY SERVICES (015)

Description: To conduct routine sampling of wastewater treatment plant and to provide laboratory services for all Commission programs by conducting and reporting of analyses performed on samples originating from treatment plants, rivers, industries, special studies and research and development programs.

1. Collect samples from all treatment plants operated by the Commission as required for NPDES permits and operational control;
2. Conduct 181,000 laboratory analyses and prepare appropriate reports immediately upon completion of analyses as follows:
  - a) 50,000 analyses for NPDES monitoring of treatment plants
  - b) 17,000 analyses for area rivers and lakes
  - c) 55,000 analyses for treatment plant control
  - d) 20,000 analyses for support of special studies projects
  - e) 17,000 analyses for industrial wastes
  - f) 17,000 analyses for internal laboratory quality control
3. Prepare monthly NPDES summary report by the 7th day of the month;



#### LABORATORY SERVICES (continued)

4. Prepare monthly NPDES compliance monitoring reports by the 15th day of each month;
5. Prepare an annual report on laboratory activity by March 1;
6. Prepare an annual report on treatment plant performance by April 15;
7. Maintain professional stature through attendance at conferences on analytical chemistry and biological analyses and review of technical publications;
8. Maintain a laboratory equipment and supplies inventory system;
9. Maintain laboratory instrumentation and continuous monitoring equipment used for operational plant control;
10. Increase laboratory capabilities to monitor and quantitate pathogenic bacteria for support to sludge disposal, and water quality monitoring programs;
11. Increase laboratory capabilities to assess toxicity and biodegradability of effluents and industrial wastes in support of the industrial waste and water quality monitoring programs.

#### Performance Criteria:

1. Number of samples requiring resampling compared to number of samples scheduled;
2. Compare number of analyses conducted to number planned in program;
3. Number completed by the 7th day of the month to the total reports required;

#### LABORATORY SERVICES (continued)

4. Number completed by the 15th day of the month to the total reports required;
5. Compare time of completion to scheduled date;
6. Compare time of completion to scheduled date;
7. Assess value of conferences and publication to program activities;
8. Assess value of inventory system;
9. Percentage of time laboratory instrumentation and monitoring equipment not functioning;
10. Number of request processed compared to number requested;
11. Number of request processed compared to number requested.

Resources Required: \$ 806,963

Work Hours Required: 73,455

#### AIR QUALITY MONITORING (016)

Description: To monitor ambient air quality and gaseous emissions resulting from sludge incineration for particulate, gaseous, odororous and hazardous materials at all Commission facilities and assist in evaluation of potential air pollution abatement equipment.

1. Conduct quarterly stack emission tests at the Seneca and Metropolitan Plants for the following parameters and prepare report:
  - a) Particulates
  - b) SO<sub>x</sub>
  - c) NO<sub>x</sub>
  - d) Hydrocarbons
  - e) PCB's
  - f) Heavy metals



#### AIR QUALITY MONITORING (continued)

2. Conduct continuous H<sub>2</sub>S monitoring at the Metropolitan, Seneca, and Blue Lake Treatment Plants and report results to plant superintendent daily;
3. Conduct weekly opacity monitoring on incinerator stacks at the Metropolitan and Seneca Treatment Plants and report results to the plant superintendent;
4. Conduct odor compliance tests at lift stations as required by regulatory agency;
5. Conduct documentation studies on all odor complaints received by the Commission;
6. Conduct continuous ambient air monitoring for particulates, oxidants, SO<sub>x</sub>, and NO<sub>x</sub> at the Metropolitan and Seneca Plants and prepare quarterly reports;
7. Prepare an annual air quality report by April 15;
8. Attend conferences on air quality monitoring;
9. Institute a quality assurance program for all air quality monitoring equipment by July 15.

#### Performance Criteria:

1. Number of stack emission tests completed as compared to the number scheduled;
2. Number of reports completed as compared to the number scheduled;
3. Number of tests completed as compared to the number scheduled;
4. Number of compliance tests completed as compared to the number required by regulatory agency;
5. Number of studies completed as compared to the number of odor complaints received;
6. Number of reports completed as compared to the number of odor complaints received;
7. Compare time of completion to scheduled date;

#### AIR QUALITY MONITORING (continued)

8. Assess value of conference to program activities;
9. Compare time of completion to scheduled date.

Resources Required: \$ 71,396

Work Hours Required: 6,025

#### PROCESS AUTOMATION (017)

Description: To demonstrate the cost effectiveness of automatic control schemes developed for the vacuum filtration and incineration processes at the Seneca WWTP through MWCC/EPA demonstration project.

1. Maintain all monitoring and control hardware and software;
2. Implement 1979-80 project work plan which is scheduled for EPA approval in June, 1979;
3. Prepare final project report (s) for EPA publication by December 31, 1980;
4. Present project results at WPCF conference;
5. Prepare preliminary design for operator interface modifications to facilitate use of control systems by Seneca operations personnel by October 31, 1980.

#### Performance Criteria:

1. Down time;
2. Progress as per quarterly reports submitted to EPA;
3. Date final report (s) submitted to EPA;
4. Acceptance on 1980 program;
5. Date design complete.



## PROCESS AUTOMATION (continued)

Resources Required: \$ 144,574

Work Hours Required: 6,894

## CONSTRUCTION ADMINISTRATION (018)

Description: To provide overall administration by the Construction Department of an estimated 25 capital improvement contracts.

1. Maintain and utilize current project files, plans, and specifications; review and evaluate testing and schedule management services; review and evaluate Construction Department personnel performance and needs; review all program budgets prepared by the Construction Department; maintain and ongoing training program for all Construction Department personnel; and maintain a current Construction Department Policy Manual and organizational Structure;
2. Review and evaluate an estimated 100 change orders and prepare current change order tabulations and process them through the Commission for an estimated 25 capital improvement projects;
3. Review and process contract payments through the Commission for an estimated 25 capital improvement projects.

### Performance Criteria:

1. Complete construction in accordance with the contract plans and specifications at a cost for all Construction Administration not to exceed 2½%. The construction administration cost includes material testing costs, schedule management cost, MWCC Construction Department personnel costs and field office and equipment costs;

## CONSTRUCTION ADMINISTRATION (continued)

2. Process Change Orders and Resolutions through the MWCC Engineering Department and MWCC Administration Department with 90% of these provided to the Chief Administrator three (3) days prior to mailing to the Commission;
3. Process monthly construction payments and other disbursements through the MWCC Engineering Department, Comptroller's Department and Administration Department with 90% of these provided to the Chief Administrator three (3) days prior to mailing to the Commission.

Resources Required: \$ 42,663

Work Hours Required: 2,500

## BUSINESS ADMINISTRATION (019)

### Description:

1. Manage central office business functions including central file system, telephone system mail distribution, office allocations and security;
2. Provide paper copying reproduction services on a daily basis for central office;
3. Maintain an effective Central File system for communications and paid invoices;
4. Oversee and supervise purchasing activities;
5. Prepare business item for presentation at committee meetings as they relate to labor, personnel and purchasing matters;
6. Conduct monthly staff meetings to inform staff about Commission activities and to discuss problem areas;



## BUSINESS ADMINISTRATION (continued)

7. Hold individual meetings with staff to critique work performance;
8. Develop the 1981 Business Service Department budget.

### Performance Criteria:

1. Institute study to determine necessity and feasibility of changing telephone system; review office space allocations with view towards utilizing more partitions in order to provide additional space;
2. 90% of copy requests to be filled the day requested; institute program to insure two-sided copying is more widely utilized;
3. Re-do central file system to update title index; remove all 1979 paid invoices by end of February;
4. Assist in design of computerizing certain purchasing functions and make recommendation for implementation if feasible;
5. All business items to be prepared timely;
6. Conduct 12 department staff meetings;
7. Hold at least one meeting with each employee of the department to discuss work performance;
8. Meet budget calendar.

Resources Required:     ↓   170,106

Work Hours Required:         5,740

## PERSONNEL SERVICES (020)

### Description:

1. Maintain and evaluate current recruitment and placement procedures in accordance with EEOC, Minnesota

## PERSONNEL SERVICES (continued)

1. (cont.) Department of Human Rights and the MWCC Affirmative Action Program keeping abreast of regulation changes within the field of human rights. Initiate needed policy or procedure changes. Insure a reflective applicant pool based on our service area for all job vacancies by continued and new contacts with private and public agencies that assist protected class members in seeking employment;
2. Maintain adequate personnel files on all employees providing review services for supervisory personnel as well as the employees themselves. Review selected employee personnel records for promotional and other job opportunities. Counsel employees, as needed, regarding their career inquiries and provide relevant educational opportunity information as requested by individual employees;
3. Maintain and update personnel procedures regarding recruitment, job analysis, benefits administration, testing and other related areas through awareness and familiarity of comparable local or state agencies. Maintain and initiate additional cooperative information sharing relationships with such agencies;
4. Provide job analysis procedures, review duties, responsibilities and classification of selected positions. Make recommendations for change determined by these studies;
5. Maintain and update all employee lists including address and seniority as well as initiate same for retired employees; Provide list of retirees addresses to all retired employees;



PERSONNEL SERVICES (continued)

6. Investigate and provide, if needed, necessary tests for selected job classifications including studies evaluating comparable jobs in other local or state agencies;
7. Maintain, evaluate and change as needed application procedures. Acknowledge, in writing, applications. Insure proper exposure to Department Directors of applications for all openings. If applicant appears multi-disciplined insure total MWCC coverage for adequate screening and evaluation of application;
8. Provide Directors with evaluation and probationary forms reviewing and recommending that each and every is filled out with adequate information for Administration Department review;
9. Continue and expand Employee Assistance Program and EAP Advisory Committee through informational meeting, written or oral presentations on selected topics, timely EAP bulletins and additional supervisory training especially in the areas of how the program applies to chemical/alcohol abuse;
10. Expand Business Services library facilities and circulate list of new publications, seminars, and meetings regarding all areas under department responsibility to insure current information is available regarding maximum utilization of personnel, services, and budget, as they relate to Business Services Department.

Performance Criteria:

1. 80% of employees hired in four weeks or less from date position was authorized to be filled;
2. 20 personnel files reviewed monthly;

PERSONNEL SERVICES (continued)

3. Meet with and discuss overall personnel and benefits administration with four state or local governmental units sharing ideas and procedures related to innovations in the field;
4. Provide job analysis for Laboratory Technician and Sampler positions with recommendations related to findings. Update job descriptions for these two classes;
5. Quarterly provide address lists and make seniority list changes 2 days from date hired or promotion;
6. As requested, initiate necessary tests for specific job classes. Contact 4 state or local governmental units regarding testing procedures for all comparable clerical positions we have;
7. Acknowledge all applications within 3 days. Initiate control and routing method for various departmental reviews;
8. The number of probationary forms completed timely to number of employees completing probationary status insuring adequate information is provided for administrative action;
9. Provide six EAP Bulletins dealing with available services or programs. Initiate on line informational programs re: use of the program at one out lying plant;
10. Initiate control and distribution system for circulation of printed material to pertinent departments.

Resources Required: \$ 105,681

Work Hours Required: 5,500



## LABOR RELATIONS (021)

### Description:

1. Negotiate to a mutual agreement 7 labor contracts within 45 days of their expiration;
2. Produce contract documents for supervisory staff;
3. Develop new methods and techniques and establish a system that will provide basic bargaining unit data through attendance at the National Public Employers Labor relations meeting and through publications and journals;
4. Hold labor/management meetings with union representatives to resolve any general differences as they relate to the labor contract.

### Performance Criteria:

1. Labor agreements with AFSCME, Local 668; IUOE, Local 35; IAM, Lodge 77; IBEW, Local 110; UAP, Local 455, Painters, Local 61 and Bricklayers, Local 1 completed within 90 days from beginning of negotiations;
2. Hold supervisory meetings to explain new contract where language changes dictate an explanation;
3. Begin design on a computer program that will provide basic bargaining unit data for costing our proposals;
4. Hold 3 meetings with union representatives to discuss labor/management problems.

Resources Required:      \$ 28,598

Work Hours Required:      950

## PROPERTY, CASUALTY AND EMPLOYEE BENEFITS INSURANCE (022)

### Description:

1. To Process all property and casualty damage claims so all claims are expidited, all parties receive prompt service, and to review all pending claims to ensure that they are being serviced properly;
2. To administer the Workers Compensation program to ensure all claims are processed on a timely basis and that the insurance carrier is properly servicing the claim;
3. To maintain update to assure that all risks are properly covered and that the premiums reflect the insurance in force;
4. To give new employees complete explanation of the fringe benefit program, eligibility and term, to complete necessary forms at enrollment, and at termination provide information on conversion privileges, with counseling of retiring employees concerning retirement benefits and procedures;
5. To answer employee questions on policies and assist employees in processing claims and act as liaison between insurance carriers and the Commission employees. To maintain all insurance files, records, updating on a daily basis.

### Performance Criteria:

1. 90% of casualty and property damage claims will be acknowledged or processed within three days of notification;
2. 90% of Worker's Compensation claims will be processed in two days. 90% of time-loss claims will be followed up within five days;



PROPERTY, CASUALTY AND EMPLOYEE BENEFITS  
INSURANCE (continued)

3. All new insurable risks will be reported to insurance company within two days of notification;
4. Every new employee signed up for fringe benefits within one day of their starting date, and deleted coverage for employees terminating prior to retirement within a seven day period;
5. 80% of medical claims problems and questions will be handled or answered directly without referring employee to the insurance company.

Resources Required:      \$ 1,180,567

Work Hours Required:              2,090

PURCHASING DEPARTMENT (023)

Description:

1. To provide a centralized purchasing system with a proper set of checks and balances on orders;
2. To administer a purchasing program that assures the best prices available are being received for the quantities ordered;
3. To maintain a bid calendar for all items to be carried through the bidding process and administer bidding procedures;
4. Design and implement a multiple choice, vendor supplier system which is totally computerized for competitive pricing purposes;
5. In conjunction with the Comptroller, design and carryout a program to computerize the Commission's total inventory;
6. To coordinate with Comptroller all purchases against budget allocations;

PURCHASING DEPARTMENT (continued)

7. To manage a central motor pool so that utilization of all Central Office based vehicles can be coordinated and maximized;
8. To seek out minority vendors and insure that they participate in the purchasing program;
9. Provide quarterly communications reports to all requisitioning personnel.

Performance Criteria:

1. 90% of all purchase orders processed completely within three days from date requisition is received;
2. Evaluate and update quarterly report that shows that best prices from responsive vendors are being received;
3. Report to the Commission on all contracts, and make recommendations in new areas when potential savings could be attained by public competitive bidding, also follow through with contract documents on all Commission approved contracts;
4. Evaluate three computerized systems and recommend a program;
5. Present design for program;
6. Evaluate the number of purchase requisitions rejected because of lack of budget allocation to total purchase order and suggest two days to eliminate problem areas;
7. Institute a notice to all drivers when vehicles are in need of major or minor maintenance service;
8. Help two new minority vendors with the bidding process and get them involved and active in the Commission Purchasing Program;



PURCHASING DEPARTMENT (continued)

9. Write report quarterly and write consumer article for Commission monthly newsletter from Purchasing Department.

Resources Required: \$101,484

Work Hours Required: 9,720

COMPTROLLER ADMINISTRATION (024)

Description:

1. To improve present computer systems and applications in order to provide needed management information through visitation at both local government and industrial computer installations and by attendance at the national Municipal Finance Officers Assn. Conference and at appropriate seminars where information and displays of the latest management information systems are available;
2. Prepare cost effectiveness studies within 30 days of request;
3. File all Commission items and documents within 30 days of receipt;
4. Invest Federal and State grant funds on the same day received;
5. Prepare a budget calendar and perform all budget related functions within that calendar;
6. Manage and evaluate personnel annually and conduct 12 staff meetings;
7. Devote time to creative thinking as to how Commission activities and procedures can be improved;
8. To broaden my vision of Commission needs thru 6 planned conferences with plant and interceptor personnel.

COMPTROLLER ADMINISTRATION (continued)

Performance Criteria:

1. Improve computer systems in order to provide needed management information by 12-31-79;
2. Cost effectiveness studies prepared within 30 days of request;
3. Commission items filed within 3 days of receipt;
4. Investments made on the same day of receipt of Federal & State Grant monies;
5. Budget prepared in accordance with the budget calendar;
6. Number of annual personnel evaluations made to number of personnel and number of staff meetings held;
7. 120 hours spent in creative thinking as to how to improve activities and procedures of the Commission;
8. Six planned conferences held with plant and interceptor personnel;
9. Objectives met, manhours complied with and budget adhered to.

Resources Required: \$ 78,106

Work Hours Required: 5,280

ACCOUNTING AND COLLECTIONS (025)

Description:

1. Maintain a Commission-wide fixed asset system satisfactory to the State Auditor;
2. Forward data to the computer center in a timely manner so that reports are forwarded to the Dept. Directors 7 days before the Commission meeting;



### ACCOUNTING AND COLLECTIONS (continued)

3. Properly account for all transactions so that the State Auditor's opinion states that the balance sheet & other financial statements present fairly the financial position of the MWCC;
4. Conduct Service Availability Charge (SAC) audits of 60 communities;
5. Collect & record SAC monies for 100 communities to be received by the end of the month following the month for which remitted;
6. Bill, collect and record Sewer Service Charge (SSC) monies for 100 communities to be received by the end of the month following the month for which remitted;
7. Record and post to a subsidiary ledger all monies received from State & Federal grants & reconcile balances with the grants administration section by the 5th day after the end of the month;
8. Bill, collect and record Industrial Strength Charge (ISC) monies for industrial firms to be received within 30 days from date of billing;
9. To respond to 90% of all Program Managers request for financial information within 1 day of the request.

#### Performance Criteria:

1. Fixed asset system maintained to satisfaction of State Auditor;
2. Number of months financial report not forwarded 7 days prior to Commission meeting;
3. Did State Auditor give the opinion that the reports presented fairly the financial position of MWCC;

### ACCOUNTING AND COLLECTIONS (continued)

4. Number of SAC audits not made by the end of 1979;
5. Number of SAC monies not received by the end of the month;
6. Number of SSC monies not received by the end of the month;
7. Number of months government grants not reconciled by the 5th day of the month;
8. Number of ISC monies not received within 30 days of billing;
9. Number replied to within 1 day divided by total requests equal to 90%;
10. Objectives met, manhours complied with and budget adhered to.

Resources Required: \$119,789

Work Hours Required: 6,780

### DISBURSEMENTS (026)

#### Description:

1. Remit vendor's invoices & utility bills within 30 days;
2. Remit all discount invoices within a 10 day period;
3. Verify and prepare all disbursements to be approved by the Commission and forward these items to the Chief Administrator by noon on the 1st Wednesday of each month.

#### Performance Criteria:

1. Number of past due reminders received to total taken;
2. Number of discounts missed to total taken;



DISBURSEMENTS (continued)

3. Number of times disbursement list for Commission not forwarded to Chief Administrator by noon on the 1st Wednesday of each month;
4. Objectives met, manhours complied with and budget adhered to.

Resources Required: \$ 62,288

Work Hours Required: 7,880

PAYROLL (027)

Description:

1. Furnish data to compute payroll checks 3 days before payroll day;
2. Remit deductions taken on payroll checks to proper entities within 10 days after payroll day;
3. Balance all payroll general ledger accounts by the end of the month;
4. Generate quarterly sick leave and vacation reports within 30 days after end of quarter.

Performance Criteria:

1. Number of times payroll data not forwarded 3 days before payroll date;
2. Number of remittances for deductions not forwarded within 10 days after payroll;
3. Number of account not balanced by 20th of the month;
4. Number of times sick leave and vacation reports not forwarded within 30 days;
5. Objectives met, manhours complied with and budget adhered to.

PAYROLL (continued)

Resources Required: \$ 77,929

Work Hours Required: 7,060

DEBT SERVICE & ACQUISITION COSTS (028)

Description: To provide funds for the following:

1. Local government debt service;
2. Metropolitan Council debt-service;
3. Local government equity in treatment works and/or interceptors acquired by the Commission.

Performance Criteria:

1. Grant all credits for local government debt service assumed by Commission by 12-31-80;
2. Meet October 1, 1980 Metropolitan deb service payment required;
3. Grant all credits for acquisition cost assumed by Commission by 12-31-80.

Resources Required: \$ 17,696,130

Work Hours Required: -0-

OPERATIONS ADMINISTRATION (029)

Description: To manage and oversee operation of all Commission Wastewater Treatment Plants and conveyance and apparatus support systems in a timely and effective manner.

1. To attain 94% compliance with NPDES effluent limitations at the Metropolitan Wastewater Treatment Plant during 1980;
2. To attain an average of 96% compliance with NPDES effluent limitations at Wastewater Treatment Plants other than the Metro Plant during 1980;



### OPERATIONS ADMINISTRATION (continued)

3. To attain effluent quality performance at the Metro Plant equal to 93% frequency and 33% severity and at other treatment plants an average equal to 91% frequency and 35% severity;
4. Monitor financial status to assure compliance with 1980 Operating Budget.

#### Performance Criteria:

1. The NPDES Permit Compliance at the Metropolitan Wastewater Treatment Plant in 1980 compared to 94%;
2. The Average NPDES Permit Compliance at plants other than the Metropolitan Plant in 1980 compared to 96%;
3. The actual frequency and severity rates of effluent quality for the Metro Plant and for the other treatment plants;
4. Quarterly report of percent compliance with 1980 Operating Budget.

Resources Required: \$ 228,138

Work Hours Required: 13,640

### PROCESS ASSURANCE (030)

#### Description:

1. To ensure that the most effective, economical, practical, and environmentally sound operation of all Commission wastewater treatment plants;
2. To maintain 95% Compliance with NPDES Permit effluent limitations at all Commission wastewater treatment plants; and

### PROCESS ASSURANCE (continued)

3. To provide technical and administrative assistance to Commission wastewater treatment plants for the purpose of process control, planning coordination, report preparation, and MPCA and other communications.

#### Performance Criteria:

1. Percent compliance with NPDES Permit effluent limitations;
2. Management of allotted funds within the program budget.

Resources Required: \$138,699

Work Hours Required: 10,760

### SLUDGE UTILIZATION ON LAND (031)

#### Description:

1. Provide for disposition of excess sludge filter cake from the Metro Plant as part of the Interim Sludge Disposal Program by obtaining permits for sludge application, transportation sludge to land application sites, monitoring the land application sites and assisting in the spreading of the sludge;
2. Investigate alternative methods for the disposition of digested sludge, and obtain permits for land application and monitor the sites;
3. Investigate composting as a potential method of sludge stabilization by conducting tests of the static method of sludge composting, the aerated pile method of composting, reviewing alternative composting methods, and conduct demonstrations and investigate market potential for the use of compost for horticultural purposes;



#### SLUDGE UTILIZATION ON LAND (continued)

4. Plan, conduct, and supervise the silviculture activities of the Commission through the use of the services of the Tree Trust Program and the DNR, and by providing a master plan for tree planting at MWCC facilities and plant seedlings at selected MWCC sites;
5. Plan for the use of filter press sludge cake from the Metro plant in a land spreading program;
6. Conduct test plots of sod growing with sludge on MWCC property;
7. Keep the MWCC staff informed of new developments in the sludge land utilization field through technical conferences and publications.

##### Performance Criteria:

1. Sufficiency of permits for sludge produced, minimizing hauling costs and adequacy of the monitoring program;
2. Adequacy of permits obtained for sludge application accomplishment of monitoring program, and use of land application by Operations;
3. Number of methods studies and potential for use;
4. Completion of master silviculture plan, progress implementing plan, and value of Tree Trust Program;
5. Status of sludge press cake study;
6. Feasibility of growing sod with sludge;
7. Value of conferences to MWCC.

Resources Required: \$ 402,280

Work Hours Required: 6,400

#### MANAGEMENT INFORMATION SYSTEMS (032)

##### Description:

1. Review and Modify Plant Information System where needed.

##### Performance Criteria:

1. Is Review complete and modifications done?
2. Quarterly financial report.

Resources Required: \$ 90,000

Work Hours Required: 3,600

#### MAJOR EMERGENCY REPAIRS (033)

##### Description:

1. Respond to and provide major emergency repairs of an unforeseeable nature in excess of \$5000 for operational facilities and interceptor systems at a total cost of \$400,000;
2. Manage within the limits of the 1980 Operating Budget.

##### Performance Criteria:

1. Complete major emergency repairs in an expeditious manner;
2. Quarterly reports of percent compliance with the 1980 Operating Budget.

Resources Required: \$ 200,000

Work Hours Required: 625

INTERCEPTOR SYSTEM ADMINISTRATION  
(034)

Description:

1. To direct and report in a timely manner, the financial and performance status of 1980 Interceptor Programs;
2. To develop and review plans for new facilities and programs;
3. To manage within the limits of 1980 Operating Budget.

Performance Criteria:

1. Forward status reports by the 15th of each month;
2. Review Engineering Department plans on schedule; detect program deficiencies and include them in the 1981 budget;
3. Quarterly report of percent compliance with 1980 Operating Budget.

Resources Required:     \$ 161,358

Work Hours Required:     10,200

INTERCEPTOR SYSTEM MAINTENANCE  
(035)

Description:

1. To review costs and monitor performance of Interceptor Maintenance and Rental Agreements;
2. To inspect and repair as needed 100 miles of gravity sewer;
3. Manage within the limits of the 1980 Operating Budget.

Performance Criteria:

1. Review maintenance and rental agreements for cost and performance;
2. Complete inspections and prepare

INTERCEPTOR SYSTEM MAINTENANCE (continued)

2. Complete inspections and prepare reports on time;
3. Quarterly report of percent compliance with 1980 Operating Budget.

Resources Required:     \$535,479

Work Hours Required:     8,200

LIFT STATIONS (036)

Description:

1. To continuously keep in good operating order 60 lift stations by means of a first and second echelon maintenance program;
2. To continuously keep in good working order the alarm system for 60 lift stations and 8 treatment plants;
3. To continue a preventive maintenance program for 8 treatment plants;
4. Manage within the limits of the 1980 Operating Budget.

Performance Criteria:

1. All stations in good operating condition and adhere to preventive maintenance schedules;
2. Keep alarm system continuously operational;
3. Keep preventive maintenance on schedule,
4. Quarterly report of percent compliance with 1980 Operating Budget.

Resources Required:     \$ 1,243,097

Work Hours Required:     40,520



## METER STATIONS (037)

### Description:

1. To keep 139 flow meters in good working order through a preventive maintenance and quarterly calibration schedule;
2. To prepare and forward to the Engineering Department monthly metered flow reports by the 20th of the following month;
3. To keep in good working order all meter system computer components by means of a complete preventive maintenance program;
4. Manage within the limits of the 1980 Operating Budget.

### Performance Criteria:

1. Keep maintenance and calibration schedules up-to-date;
2. Prepare and submit flow reports on time;
3. Keep computer maintenance schedule up-to-date;
4. Quarterly report of percent compliance with 1980 Operating Budget.

Resources Required: \$ 401,100

Work Hours Required: 20,500

## REGULATOR SYSTEM (038)

### Description:

1. To keep in good working order 17 instrumented and 120 noninstrumented combined sewer regulator installations through a complete inspection and preventive maintenance program;

## REGULATOR SYSTEM (continued)

2. To prepare and submit to Engineering Department monthly overflow summaries;
3. Manage within the limits of the 1980 Operating Budget.

### Performance Criteria:

1. Keep maintenance schedule current;
2. Submit reports on time;
3. Quarterly report of percent compliance with 1980 Operating Budget.

Resources Required: \$ 242,154

Work Hours Required: 11,760

## OPERATIONS, METRO PLANT (039)

### Description:

1. Attain 94% compliance with NPDES permit effluent limitations during 1980;
2. Attain effluent quality performance of 93% frequency and 33% severity;
3. Comply with MPCA stack gas quality limitations 98% of the time within the limits of available scrubbing equipment;
4. Manage operations with the limits of the 1980 budget;
5. Maintain satisfactory labor relations.

### Performance Criteria:

1. Actual percentage compliance during 1980;
2. Actual frequency and severity;



OPERATIONS, METRO PLANT (continued)

3. Hours of inadequate control of stack gas quality due to operational or maintenance deficiencies;
4. Comparison of actual expenditures to budget amounts;
5. The number of grievances to Step 2 procedure and 4 beyond. Resolution of all grievances which will establish a good working atmosphere between management and labor.

Resources Required: \$ 14,821,166

Work Hours Required: 464,605

MAINTENANCE, METRO PLANT (040)

Description:

1. Provide maintenance services to assure that operational units of the plant meet 94% compliance effluent limitations during 1980;
2. Provide maintenance services to assure that operational units of the plant meet effluent quality performance of 93% frequency and 35% severity;
3. Respond to emergency work orders without delay;
4. Manage maintenance services within the limits of the maintenance 1980 budget;
5. Maintain satisfactory labor relations.

Performance Criteria:

1. Hours of downtime of equipment directly interrupting the process and affecting the NPDES permit effluent limitations for 1980;

MAINTENANCE, METRO PLANT (continued)

2. Hours of downtime of equipment interrupting the process and affecting effluent quality. These hours to be recorded monthly;
3. Number of emergency work orders responded to and completed in a timely manner. These numbers to be recorded monthly;
4. Comparison of actual expenditures to budgeted amounts;
5. The number of grievances to Step 2 procedure and beyond.

Resources Required: \$ 3,292,146

Work Hours Required: 138,080

SENECA TREATMENT PLANT (041)

Description:

1. To achieve a minimum annual average compliance with NPDES permit effluent limitations of 97%;
2. To attain effluent quality performance equal to 93% frequency and 33% severity;
3. To manage operations within the limits of the 1979 Operating Budget.

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly Report of percent compliance with the 1979 Operating Budget.

Resources Required: \$ 2,568,718

Work Hours Required: 11,650



## BLUE LAKE PLANT (042)

### Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 99%;
2. To attain effluent quality performance equal to 95% frequency and 25% severity;
3. Manage operations within the limits of the 1979 Operating Budget.

### Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$ 1,382,094

Work Hours Required: 61,916

## CHASKA (043)

### Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitation of 97%;
2. To attain effluent quality performance equal to 93% frequency and 33% severity;
3. Manage operations within the limits of the 1980 Operating Budget.

### Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;

## CHASKA (continued)

2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1980 Operating Budget.

Resources Required: \$ 210,128

Work Hours Required: 8,690

## ANOKA (044)

### Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 96%;
2. To attain effluent quality performance equal to 93% frequency and 33% severity;
3. Manage operations within the limits of the 1980 Operating Budget.

### Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1980 Operating Budget.

Resources Required: \$176,264

Work Hours Required: 8,920

## BAYPORT (045)

### Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 98%;



BAYPORT (continued)

2. To attain effluent quality performance equal to 93% frequency and 33% severity;
3. Manage operations within the limits of the 1980 Operating Budget.

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1980 Operating Budget.

Resources Required: \$130,913

Work Hours Required: 6,410

COTTAGE GROVE (046)

Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 97%;
2. To attain effluent quality performance equal to 93% frequency and 33% severity;
3. Manage operations within the limits of the 1980 Operating Budget.

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1980 Operating Budget.

COTTAGE GROVE (continued)

Resources Required: \$ 209,211

Work Hours Required: 11,960

HASTINGS PLANT (047)

Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 95%;
2. To attain effluent quality performance equal to 85% frequency and 33% severity;
3. Manage operations within the limits of the 1980 Operating Budget.

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1980 Operating Budget.

Resources Required: \$ 199,895

Work Hours Required: 11,744

STILLWATER (048)

Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 98%;
2. To attain effluent quality performance equal to 95% frequency and 33% severity;
3. Manage operations within the limits of the 1980 Operating Budget.



STILLWATER (continued)

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1980 Operating Budget.

Resources Required: \$ 257,966

Work Hours Required: 12,944

LONG LAKE PLANT (049)

Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 85%;
2. To attain effluent quality performance equal to 75% frequency and 33% severity;
3. Manage operations within the limits of the 1980 Operating Budget.

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1980 Operating Budget.

Resources Required: \$ 42,226

Work Hours Required: 3,020

MAPLE PLAIN PLANT (050)

Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 93%;
2. To attain effluent quality performance equal to 85% frequency and 45% severity;
3. Manage operations within the limits of the 1980 Operating Budget.

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1980 Operating Budget.

Resources Required: \$ 55,912

Work Hours Required: 3,280

MEDINA PLANT (051)

Description:

1. To operate so that there is no treated wastewater discharge to surface waters and to attain annual average effluent quality prior to seepage disposal of less than 25 mg/l BOD and 30 mg/l TSS;
2. To attain effluent quality performance equal to 70% frequency and 50% severity based on 25 mg/l BOD and 30 mg/l TSS;
3. Manage operations within the limits of the 1979 Operating Budget.



## MEDINA PLANT (continued)

### Performance Criteria:

1. Annual average percentage of effluent quality prior to seepage disposal of less than 25 mg/l BOD and 30 mg/l TSS;
2. Actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$ 17,864

Work Hours Required: 704

## ORONO PLANT (052)

### Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 96%;
2. To attain effluent quality performance equal to 92% frequency and 45% severity;
3. Manage operations within the limits of the 1980 Operating Budget.

### Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1980 Operating Budget.

Resources Required: \$ 54,776

Work Hours Required: 3,620

## ROSEMOUNT (053)

### Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 97%;
2. To attain effluent quality performance equal to 95% frequency and 25% severity;
3. Manage operations within the limits of the 1980 Operating Budget.

### Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1980 Operating Budget.

Resources Required: \$ 586,105

Work Hours Required: 20,906

## SAVAGE PLANT (054)

### Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 94%;
2. To attain effluent quality performance equal to 93% frequency and 33% severity;
3. Manage operations within the limits of the 1980 Operating Budget.

### Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;

SAVAGE PLANT (continued)

2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1980 Operating Budget.

Resources Required:     \$ 89,581

Work Hours Required:         5,660

SOUTH ST. PAUL TREATMENT PLANT (055)

Description:

1. To provide efficient treatment of wastewater prior to its conveyance on a continuous basis to the Metropolitan Wastewater Treatment Plant;
2. To manage operations within the limits of the 1980 Operating Permit.

Performance Criteria:

1. Occurance of emergency discharge;
2. Quarterly report of percent compliance with 1980 Operating Budget.

Resources Required:     \$ 716,195

Work Hours Required:         28,648

EMPIRE (056)

Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 97%;
2. To attain effluent quality performance equal to 93% frequency and 50% severity;
3. Manage operations within the limits of the 1980 Operating Budget.

EMPIRE (continued)

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1980 Operating Budget.

Resources Required:     \$ 873,593

Work Hours Required:         45,990



## Summary of Debt Service

	<u>Proposed 1980</u>	<u>Budget 1979</u>	<u>Actual 1978</u>
Treatment Works	\$ 10,066,294	\$ 9,340,485	\$ 9,982,972
Interceptor System			
Service Areas:			
1. Minneapolis-St. Paul	1,179,396	1,386,726	1,481,697
2. North Suburban	569,518	599,348	683,248
3. Anoka	124,719	108,132	16,697
4. Southwest	770,107	869,480	929,781
5. Bloomington-Eagan-Burnsville	530,152	361,246	404,788
6. Southeast	<u>359,699</u>	<u>408,151</u>	<u>417,823</u>
	<u>\$13,599,885</u>	<u>\$13,073,568</u>	<u>\$13,917,006</u>

# METROPOLITAN COUNCIL SEWER BOND FUND DEBT SERVICE

Estimated Fund Balance - October 1, 1979	\$ 14,963,001
Less - Debt Service Payments November 1, 1979 through October 1, 1980	12,636,909
Add - Interest to be earned November 1, 1979 through October 1, 1980	<u>650,000</u>
Balance	2,976,092
Required Balance - October 1, 1980	<u>14,763,185</u>
Program Budget Requirement	<u>\$ 11,787,093</u>

## Apportioned to:

<u>Cost Pool</u>	<u>Capital Improvements</u>	<u>% of Debt Service</u>	<u>Amount</u>
Treatment Works	\$376,374,422	80.00%	\$ 9,429,675
SA 1	30,081,845	6.39	753,195
SA 2	10,812,594	2.30	271,103
SA 3	4,807,998	1.02	120,228
SA 4	27,305,053	5.80	683,652
SA 5	7,695,121	1.64	193,308
SA 6	<u>13,403,386</u>	<u>2.85</u>	<u>335,932</u>
	<u>\$470,480,419</u>	<u>100.00%</u>	<u>\$11,787,093</u>



Local Government Debt Service

Service Area 1 - Minneapolis - St. Paul

	<u>Treatment Works</u>	<u>Interceptors</u>	<u>Total</u>
Birchwood	\$	\$ 736.00	
Dellwood		5,505.60	
Forest Lake Township	2,631.00		
Landfall		1,018.00	
Little Canada		89,102.27	
Mahtomedi		8,745.09	
Oakdale		61,898.00	
Plymouth		8,513.00	
Roseville		44,878.00	
St. Paul		94,924.85	
Shoreview *		63,085.88	
Vadnais Heights		3,032.36	
White Bear Lake		8,896.00	
White Bear Township		7,586.00	
Woodbury		28,280.00	
	<u>\$ 2,631.00</u>	<u>\$ 426,201.05</u>	<u>\$ 428,832.05</u>

Service Area 2 - North Suburban

Shoreview *		38,665.54	
Brooklyn Park		145,858.00	
Circle Pines		3,273.27	
Coon Rapids		59,872.00	
New Brighton		47,548.00	
Spring Lake Park		3,198.00	
	<u>\$ -0-</u>	<u>\$ 298,414.81</u>	<u>\$ 298,414.81</u>

\* Located in 2 Service Areas

Service Area 3 - Anoka

	<u>Treatment Works</u>	<u>Interceptors</u>	<u>Total</u>
Anoka	\$ 41,300.00	\$	
Champlin		4,491.08	
	<u>\$ 41,300.00</u>	<u>\$ 4,491.08</u>	<u>\$ 45,791.08</u>

Service Area 4 - Southwest

Deephaven		23,621.06	
Excelsior	11,940.00		
Greenwood		4,047.73	
Long Lake	10,200.00		
Maple Plain	5,847.00		
Medina	5,350.00		
Minnetrista		25,789.88	
Mound	24,663.05	23,398.97	
Orono		3,009.00	
Prior Lake	10,312.62	565.00	
Savage	13,199.00		
Shakopee	18,237.50		
Spring Park	2,812.14	2,701.86	
Tonka Bay	5,905.28	3,321.72	
Victoria	3,272.30		
	<u>\$111,738.89</u>	<u>\$ 86,455.22</u>	<u>\$ 198,194.11</u>

Service Area 5 - Bloomington-Eagan-Burnsville

Bloomington		83,925.68	
Burnsville	23,679.00	199,953.00	
Eagan	4,633.98	52,965.00	
	<u>\$ 28,312.98</u>	<u>\$ 336,843.68</u>	<u>\$ 365,156.66</u>



Service Area 6 - Southeast

	<u>Treatment Works</u>	<u>Interceptors</u>	<u>Total</u>
Apple Valley	\$ 13,958.25	\$ 23,766.75	\$
Cottage Grove	34,553.81		
Hastings	44,002.00		
Inver Grove Heights	14,023.00		
Lakeville	6,567.00		
Newport	5,403.00		
Oak Park Heights	16,638.00		
South St. Paul	272,910.00		
Stillwater	44,581.00		
	<u>\$452,636.06</u>	<u>\$ 23,766.75</u>	<u>\$ 476,402.81</u>
 GRAND TOTAL	 <u>\$636,618.93</u>	 <u>\$1,176,172.59</u>	 <u>\$1,812,791.52</u>

## Summary of Acquisition Costs

Treatment Works	\$ 579,985
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### Interceptor System

#### Service Areas:

1. Minneapolis - St. Paul	2,976,783
2. North Suburban	137,070
3. Anoka	489
4. Southwest	74,057
5. Bloomington-Eagan-Burnsville	323,931
6. Southeast	<u>3,930</u>

TOTAL	\$ <u><u>4,096,245</u></u>
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Local Government Current Value Credit

Anoka	\$ 15,901	Excelsior	\$ 3,521
Apple Valley	6,083	Falcon Heights	2,204
Arden Hills	11,924	Farmington	10,999
Bayport	7,673	Forest Lake	8,807
Birchwood	257	Forest Lake Township	53
Blaine	7,352	Fridley	26,965
Bloomington	200,659	Golden Valley	131,187
Brooklyn Center	14,581	Greenwood	1,401
Brooklyn Park	60,157	Hastings	14,284
Burnsville	130,280	Hilltop	42
Champlin	1,025	Hopkins	27,454
Chanhassen	1,858	Inver Grove Heights	1,435
Chaska	7,075	Lakeville	8,255
Circle Pines	1,006	Landfall	354
Columbia Heights	22,272	Lauderdale	1,222
Coon Rapids	25,209	Lexington	586
Cottage Grove	5,537	Little Canada	2,345
Crystal	42,343	Long Lake	1,028
Deephaven	11,620	Mahtomedi	2,870
Eagan	27,418	Maple Plain	6,818
Eden Prairie	3,494	Maplewood	23,902
Edina	61,020	Medicine Lake	1,408

Local Government Current Value Credit (continued)

Medina	\$ 38	St. Louis Park	\$ 78,231
Mendota Heights	3,926	St. Paul	1,033,404
Minneapolis	1,426,356	St. Paul Park	7,394
Minnetonka	16,639	Savage	1,872
Minnetrista	543	Shakopee	9,064
Mound	10,344	Shoreview	20,680
Moundsview	3,561	Shorewood	391
New Brighton	2,192	South St. Paul	44,632
New Hope	46,523	Spring Lake Park	3,183
Newport	595	Spring Park	2,926
North St. Paul	30,968	Stillwater	10,511
Oakdale	1,150	Tonka Bay	1,684
Oak Park Heights	39	Vadnais Heights	195
Orono	33,988	Victoria	2,535
Osseo	14,928	Waconia	15,245
Plymouth	217	Wayzata	22,674
Prior Lake	2,459	West St. Paul	7,376
Richfield	133,042	White Bear Lake	41,047
Robbinsdale	5,150	White Bear Township	2,173
Rosemount	4,372	Willernie	1,053
Roseville	99,636	Woodbury	2,647
St. Anthony	8,778		
		TOTAL	<u>\$4,096,245</u>



## Allocation of Current Use Costs

<u>Local Government</u>	<u>Est. Flow (MG)</u>	<u>Treatment Works</u>	<u>Service Area</u>	<u>Total</u>
Andover	72	28,737.29	6,512.61	35,249.90
Anoka	700	279,484.99	57,457.67	336,942.66
Apple Valley	640	255,561.94	39,134.24	294,696.18
Arden Hills	376	150,130.14	27,965.92	178,096.06
Bayport	180	71,880.27	-0-	71,880.27
Birchwood	31	12,368.88	2,307.89	14,676.77
Blaine	712	284,299.23	64,404.83	348,704.06
Bloomington	2,820	1,125,976.05	330,489.17	1,456,465.22
Brooklyn Center	1,160	463,166.66	86,277.29	549,443.95
Brooklyn Park	1,360	543,045.97	123,020.45	666,066.42
Burnsville	1,100	439,206.57	128,913.98	568,120.55
Centerville	17	6,776.96	1,537.73	8,314.69
Champlin	84	33,551.53	6,894.93	40,446.46
Chanhassen	235	93,803.57	44,841.29	138,644.86
Chaska	410	163,721.10	-0-	163,721.10
Circle Pines	96	38,328.73	8,683.83	47,012.56
Columbia Heights	750	299,482.60	55,783.43	355,266.03
Coon Rapids	1,000	399,285.44	90,455.80	489,741.24
Cottage Grove	520	207,604.72	-0-	207,604.72
Crystal	935	373,325.59	69,543.80	442,869.39
Deephaven	140	55,919.22	26,714.30	82,633.52
Eagan	960	383,324.39	112,506.75	495,831.14
Eden Prairie	470	187,644.15	89,683.54	277,327.69
Edina	2,660	1,062,094.82	197,844.16	1,259,938.98
Empire Township	14	5,591.92	702.11	6,294.03
Excelsior	112	44,735.38	21,371.06	66,106.44
Falcon Heights	370	147,723.02	27,520.71	175,243.73
Farmington	192	76,657.47	9,628.31	86,285.78
Forest Lake	256	102,209.96	19,041.39	121,251.35
Forest Lake Township	110	43,920.66	8,182.53	52,103.19
Fridley	1,260	503,124.83	101,591.37	604,716.20
Gem Lake	18	7,184.32	1,340.73	8,525.05
Golden Valley	1,260	503,087.80	93,717.81	596,805.61
Greenwood	23	9,184.09	4,388.99	13,573.08
Hastings	520	207,641.76	-0-	207,641.76
Hilltop	22	8,776.73	1,632.41	10,409.14



<u>Local Government</u>	<u>Est. Flow (MG)</u>	<u>Treatment Works</u>	<u>Service Area</u>	<u>Total</u>
Hopkins	740	295,483.07	55,975.02	351,458.09
Hugo	37	14,776.00	2,753.09	17,529.09
Inver Grove Heights	370	147,723.02	18,554.52	166,277.54
Lake Elmo	2	814.72	148.40	963.12
Laketown Township	20	7,962.01	3,816.05	11,778.06
Lakeville	460	183,681.68	23,738.34	207,420.02
Landfall	22	8,776.72	1,632.41	10,409.13
Lauderdale	55	21,960.33	4,093.82	26,054.15
Lexington	47	18,775.52	4,251.50	23,027.02
Lilydale	21	8,406.40	1,560.77	9,967.17
Lino Lakes	14	5,591.92	1,266.46	6,858.38
Little Canada	285	113,801.16	21,195.76	134,996.92
Long Lake	88	35,143.94	16,791.42	51,935.36
Mahtomedi	115	45,920.41	8,556.09	54,476.50
Maple Grove	470	187,644.16	42,514.40	230,158.56
Maple Plain	80	31,959.13	-0-	31,959.13
Maplewood	1,540	614,889.21	114,540.01	729,429.22
Medicine Lake	8	3,184.80	593.60	3,778.40
Medina	48	19,182.88	-0-	19,182.88
Mendota Heights	380	151,722.54	28,267.84	179,990.38
Minneapolis	23,900	9,542,929.36	1,777,629.42	11,320,558.78
Minnetonka	1,450	578,967.58	276,682.71	855,650.29
Minnetonka Beach	24	9,591.44	4,579.65	14,171.09
Minnetrista	39	15,590.73	7,442.41	23,033.14
Mound	435	173,682.87	83,004.72	256,687.59
Mounds View	410	163,684.07	37,086.87	200,770.94
New Brighton	800	319,443.16	72,365.28	391,808.44
New Hope	960	383,324.39	71,406.48	454,730.87
Newport	112	44,698.34	5,616.44	50,314.78
North Oaks	14	5,591.92	1,038.80	6,630.72
North St. Paul	470	187,681.19	34,956.12	222,637.31
Oakdale	540	215,603.77	40,165.51	255,769.28
Oak Park Heights	80	31,922.09	4,011.87	35,933.96
Orono	170	67,880.75	32,438.87	100,319.62
Osseo	118	47,142.49	10,673.68	57,816.17
Plymouth	1,680	670,808.43	124,953.67	795,762.10
Prior Lake	262	104,580.04	49,992.91	154,572.95
Richfield	1,015	405,284.72	75,495.18	480,779.90
Robbinsdale	506	202,049.84	37,637.57	239,687.41



<u>Local Government</u>	<u>Est. Flow (MG)</u>	<u>Treatment Works</u>	<u>Service Area</u>	<u>Total</u>
Rosemount	123	49,105.22	6,167.96	55,273.18
Roseville	1,690	674,807.94	125,695.68	800,503.62
St. Anthony	400	159,684.55	29,751.85	189,436.40
St. Bonifacius	27	10,776.49	5,151.63	15,928.12
St. Louis Park	2,250	898,410.75	167,350.30	1,065,761.05
St. Paul	20,500	8,185,351.46	1,524,748.94	9,710,100.40
St. Paul Park	145	57,918.98	7,271.43	65,190.41
Savage	150	59,881.70	-0-	59,881.70
Shakopee	735	293,483.32	140,250.35	433,733.67
Shoreview	645	257,524.66	49,904.46	307,429.12
Shorewood	190	75,879.79	36,254.92	112,134.71
South St. Paul	2,550	1,018,174.16	127,875.91	1,146,050.07
Spring Park	106	42,328.25	20,226.15	62,554.40
Spring Lake Park	189	75,472.43	17,096.40	92,568.83
Stillwater	750	299,445.56	-0-	299,445.56
Stillwater Township	2	814.72	-0-	814.72
Tonka Bay	70	27,959.61	13,357.63	41,317.24
Vadnais Heights	220	87,841.31	16,359.94	104,201.25
Victoria	39	15,553.69	7,441.45	22,995.14
Wayzata	250	99,839.88	47,704.05	147,543.93
West St. Paul	880	351,365.25	65,455.09	416,820.34
White Bear Lake	730	291,483.56	54,294.31	345,777.87
White Bear Lake Township	130	51,882.66	9,666.53	61,549.19
Willernie	16	6,406.64	1,192.33	7,598.97
Woodbury	460	183,681.67	34,214.11	217,895.78
Waconia	128	51,104.99	24,424.48	75,529.47
Total	<u>92,747</u>	<u>\$37,032,594.79</u>	<u>\$7,489,374.59</u>	<u>\$44,521,969.38</u>

## Construction Fund – Revenues & Expenditures

Total  
Program

FUND BALANCE - December 31, 1978

\$ 30,088,546

### REVENUES:

Certified Federal Grants	(Schedule 8)	\$ 82,787,561
Certified State Grants	(Schedule 9)	16,557,514
Anticipated Grants	(Schedule 10)	23,579,522
Investment Income	(Schedule 11)	2,535,000
Miscellaneous		<u>10,000</u>

Total Estimated Revenues

125,469,597

### EXPENDITURES:

Previously Authorized Projects		
Encumbered Balance	(Schedule 12)	\$ 88,460,928
Unencumbered Balance	(Schedule 12)	66,402,865
Additional Requests 1980	(Schedule 12)	<u>(10,223,142)</u>

Total Previously Authorized Projects

\$144,640,651

Total Estimated Expenditures

\$144,640,651

ESTIMATED FUND BALANCE

\$ 10,917,492



## Certified Federal Grants

<u>Project No.</u>	<u>Grant</u>	<u>Project</u>	<u>Total Grant Amount</u>	<u>Earned As of 12/31/78</u>	<u>Balance Due</u>	<u>Estimated Amount 1979</u>	<u>Estimated Amount 1980</u>
74-01							
(400)	000-01	MWWTP - Sludge Thickening	\$ 21,944,397	\$ 21,468,126	\$ 476,271	\$ 384,826	\$ 91,445
(401&402)	000-02	MWWTP - Sludge Thermal Cond.	25,667,570	15,258,165	10,409,405	8,205,190	2,204,215
(404&406)	000-03	MWWTP - Roll Type Presses	9,239,410	5,367,731	3,871,679	2,899,658	972,021
(403)	000-04	MWWTP - Digital Control System	5,716,200	1,528,014	4,188,186	893,591	952,907
(407)	000-05	MWWTP - Sludge Incin. Equip.	6,900,586	579,820	6,320,766	4,541,765	1,382,957
(408)	000-06	MWWTP - Sludge Processing	53,985,000	10,793,847	43,191,153	20,603,980	9,618,620
(409)	000-07	MWWTP - Computer Guilding	1,510,275	4,956	1,505,319	1,183,996	321,323
71-13	012-01	Orono-Long Lake Interceptor	2,814,390	-0-	2,814,390	2,250,202	564,188
74-09	049-02	Apple Valley Interceptor	2,369,625	1,202,707	1,166,918	1,166,918	-0-
71-03	050-02	Lakeville-Farmington	13,684,575	11,203,737	2,480,838	2,480,838	-0-
71-09	666-02	Metro Compressors	2,268,075	1,589,441	678,634	210,740	366,361
77-01	094-01	Riverview Siphon	1,381,650	-0-	1,381,650	620,000	761,650
78-03	095-01	MWWTP - Interim Sludge Disp.	468,075	-0-	468,075	235,000	233,075
201	999-01	Facilities Planning Study	4,063,650	2,449,973	1,613,677	1,613,677	-0-
201	999-02	Facilities Planning Study	2,004,600	-0-	2,004,600	1,191,799	812,801
201	999-03	Facilities Planning Study	216,000	-0-	216,000	-0-	216,000
75-05	927-01	Coincineration of Sludge	<u>372,622</u>	<u>372,622</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
TOTALS			<u>\$154,606,700</u>	<u>\$ 71,819,139</u>	<u>\$ 82,787,561</u>	<u>\$48,482,180</u>	<u>\$18,497,563</u>



# Certified State Grants

<u>Project No.</u>	<u>Grant</u>	<u>Project</u>	<u>Total Grant Amount</u>	<u>Earned As of 12/31/78</u>	<u>Balance Due</u>	<u>Estimated Amount 1979</u>	<u>Estimated Amount 1980</u>
74-01							
(400)	000-01	MWWTP - Sludge Thickeners	\$ 4,388,879	\$ 4,293,625	\$ 95,254	\$ 81,604	\$ 13,650
(401&402)	000-02	MWWTP - Sludge Thermal Cond.	5,133,514	3,051,633	2,081,881	1,671,038	410,843
(404&406)	000-03	MWWTP - Roll Type Presses	1,847,882	1,073,546	774,336	579,931	194,405
(403)	000-04	MWWTP - Digital Control System	1,143,240	305,603	837,637	178,718	190,581
(407)	000-05	MWWTP - Sludge Incin. Equip.	1,380,117	115,964	1,264,153	908,353	276,591
(408)	000-06	MWWTP - Sludge Processing	10,797,000	2,158,769	8,638,231	4,120,796	1,923,724
(409)	000-07	MWWTP - Computer Building	302,055	991	301,064	236,799	64,265
71-13	012-01	Orono-Long Lake Interceptor	562,878	-0-	562,878	450,040	112,838
74-09	049-02	Apple Valley Interceptor	473,925	240,541	233,384	233,384	-0-
71-03							
(410-413)	050-02	Lakeville-Farmington	2,736,915	2,240,747	496,168	496,168	-0-
71-09	666-02	Metro Compressors	453,615	317,888	135,727	42,148	73,272
77-01	094-01	Riverview Siphon	276,330	-0-	276,330	124,000	152,330
77-03	095-01	MWWTP - Interim Sldg, Disp.	93,615	-0-	93,615	47,000	46,615
201	999-01	Facilities Planning Study	812,730	489,994	322,736	322,736	-0-
201	999-02	Facilities Planning Study	400,920	-0-	400,920	238,359	162,561
201	999-03	Facilities Planning Study	<u>43,200</u>	<u>-0-</u>	<u>43,200</u>	<u>-0-</u>	<u>43,200</u>
			<u>\$ 30,846,815</u>	<u>\$ 14,289,301</u>	<u>\$ 16,557,514</u>	<u>\$ 9,731,074</u>	<u>\$ 3,664,875</u>



## Anticipated Grants

(Federal & State Combined)

<u>Project</u>	<u>Name</u>	<u>Grant Income</u>
72-02	MWWTP-Compressor Building	\$ 15,606,451
72-07	Seneca Maintenance & Dispatch	202,500
76-07	MWWTP Retrofit Process Control Step II	1,350,000
77-06	Seneca Sludge Dewatering	702,355
77-29	Metro Warehouse	4,598,954
79-05	Metro Plant Secondary Power Source - Step II	225,000
79-06	Hastings Plant Expansion - Step II	444,262
79-07	MWWTP - Pilot Plant Studies	<u>450,000</u>
	TOTAL	<u>\$ 23,579,522</u>

## Summary of Investment Income

Investment earnings for period January through December, 1979 \$17 million x .065	\$ 1,105,000
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Investment earnings for period January through December, 1980 based on average investment balance of \$12 million and yield of 6.50%	780,000
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Investment earnings for period January through December, 1981 based on average investment balance of \$7 million and yield of 6.50%	455,000
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Investment earnings for period January through December, 1982 based on average investment balance of \$3 million and yield of 6.50%	<u>195,000</u>
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TOTAL	\$ <u><u>2,535,000</u></u>
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# Financial Status – Current Projects

Program No.	Project	Step Approval	Previously Appropriated	Additional Appropriations	Total Appropriations	Expenditures As of 12/31/78	Encumbered Balance	Unencumbered Balance
71-03	Lakeville-Farmington	III	\$ 19,680,000	\$ (350,000)	\$ 19,330,000	\$16,028,145	\$ 1,747,903	\$ 1,553,952
71-09	MWWTP - Compressors	III	3,215,000	(100,000)	3,115,000	2,229,300	420,401	465,299
71-13	Orono-Long Lake Intcp.	III	4,258,600	-0-	4,258,600	445,776	42,393	3,770,431
71-29	MWWTP - Warehouse	III	3,200,000	1,910,000 <sup>1</sup>	5,110,000	152,788	29,840	4,927,372
72-02	MWWTP - Compressor Bldg.	III	13,600,000	3,740,000 <sup>1</sup>	17,340,000	414,784	53,272	16,871,944
72-04	Cottage Grove Expansion	III	1,300,000	-0-	1,300,000	1,160,258	26,368	113,374
72-07	Maint. & Dispatch Bldg.	II	225,000	-0-	225,000	4,434	-0-	220,566
73-06	Chaska Plant Expansion	III	825,000	-0-	825,000	551,590	220,566	52,844
74-01	MWWTP - Sludge Disposal	III						
(400)	Sludge Thickening Facilities	III	29,359,196	(300,000)	29,059,196	28,606,978	215,910	236,308
(401)	Sludge Thermal Cond. & Dewatering Equip.	III	18,510,747	(1,350,000)	17,160,747	5,447,948	10,400,690	1,312,109
(402)	Sludge Cond. & Storage Facilities	III	17,962,680	(1,000,000)	16,962,680	15,143,725	1,573,144	245,811
(403)	Digital Acquisition & Control System	III	7,621,600	-0-	7,621,600	2,178,182	4,461,305	982,113
(404)	Roll Typ Cont. Presses & Accessories for Sludge Dewatering	III	4,079,880	(250,000)	3,829,880	3,187,692	433,636	208,552
(406)	Sludge Dewatering Bldg.	III	8,989,333	(700,000)	8,289,333	4,012,654	3,654,771	621,908
(407)	Sludge Processing Equip.	III	11,200,781	(1,500,000)	9,700,781	812,182	8,049,157	839,442
(408)	Sludge Processing Bldg.	III	70,380,000	1,600,000 <sup>1</sup>	71,980,000	16,522,980	50,238,443	5,118,577
(409)	Computer Building	III	1,500,000	600,000 <sup>1</sup>	2,100,000	19,751	24,461	2,055,788
74-01	TOTAL		169,604,217	(2,900,000)	166,704,217	76,032,092	79,051,517	11,620,608

<sup>1</sup>See Schedule 12-32 & 12-33



Program No.	Project	Step Approval	Previously Appropriated	Additional Appropriations	Total Appropriations	Expenditures As of 12/31/78	Encumbered Balance	Unencumbered Balance
74-07	Blue Lake Sludge	II	\$ 15,750,393	\$(13,175,354)	\$ 2,575,039	\$ 2,146,143	\$ 192,120	\$ 236,776
74-09	Apple Valley Intcp.	III	3,488,000	-0-	3,488,000	1,662,056	1,516,929	309,015
74-10	Metro Disposal System Improvements	III	1,696,000	-0-	1,696,000	738,509	31,590	925,901
75-01	Ultimate Disposal Site	I	1,136,285	-0-	1,136,285	746,707	79,921	309,657
75-05	Seneca - Coal Handling	III	430,000	-0-	430,000	397,751	-0-	32,249
75-10	Engineering Services - NPDES Permits	I	120,000	-0-	120,000	50,104	316	69,580
75-50	Metro Planning	I	667,488	-0-	667,488	323,901	-0-	343,587
76-05	Metro System Emergency	III	1,500,000	-0-	1,500,000	299,635	790,721	409,644
76-07	MWWTP Retrofit Process Control	II	568,000	932,000 <sup>1</sup>	1,500,000	-0-	-0-	1,500,000
76-10	Industrial Waste Studies	I	255,407	218,119 <sup>1</sup>	473,526	134,315	-0-	339,211
76-13	Environmental Inventory & Assessment	I	553,732	-0-	553,732	223,613	150,144	179,975
76-17	Air Quality Monitoring	I	235,976	38,012 <sup>1</sup>	273,988	69,552	3,000	201,436
76-19	Management Information & Process Control System	I	22,760	-0-	22,760	454	-0-	22,306
76-21	CAB Study	I	246,643	-0-	246,643	9,600	194,159	42,884
76-25	Southeast Area Study	I	604,477	-0-	604,477	60,233	294,596	249,648
76-26	Southwest Suburban Area	I	591,982	-0-	591,982	107,116	406,492	78,374
76-28	MWWTP Tertiary Treatment Facilities	I	742,013	-0-	742,013	103,657	467,132	171,224

<sup>1</sup>See Schedule 12-33



Program No.	Project	Step Approval	Previously Appropriated	Additional Appropriations	Total Appropriations	Expenditures As of 12/31/78	Encumbered Balance	Unencumbered Balance
76-55	Combined Sewer Study	I	\$ 2,907,600	\$ -0-	\$ 2,907,600	\$ 1,647,743	\$ 639,906	\$ 619,951
76-56	Alternative Waste Management Systems	I	263,182	-0-	263,182	145,631	52,986	64,565
77-01	Riverivew Siphon System	III	2,200,000	(200,000)	2,000,000	91,957	4,662	1,903,381
77-02	Metro Intcp. Impr.	III	395,000	-0-	395,000	59,039	-0-	335,961
77-03	EPA 208 Match	I	300,000	175,000 <sup>1</sup>	475,000	328,676	-0-	146,324
77-04	Savage Plant Expansion	III	615,000	-0-	615,000	386,493	216,828	11,679
77-05	Beltline Reg./Intcp. Impr.	II	1,817,400	(1,517,400)	300,000	779	-0-	299,221
77-06	Seneca Sludge Dewatering	III	600,000	250,000 <sup>1</sup>	850,000	28,895	36,257	784,848
77-07	Anoka Interceptor	III	4,223,000	-0-	4,223,000	86,561	71,153	4,065,286
78-01	Future System Configuration	I	428,882	56,481 <sup>1</sup>	485,363	18,010	362,500	104,853
78-02	F & I #1 Scrubbers	III	1,237,700	-0-	1,237,700	497,793	691,491	48,416
78-03	Interim Sludge Disposal	III	750,000	-0-	750,000	21,673	24,001	704,326
78-04	Bloomington Intcp. Reloc.	III	756,086	-0-	756,086	14,892	641,764	99,430
79-05	MWWTP Secondary Power Source	II	250,000	-0-	250,000	-0-	-0-	250,000
79-06	Hastings Plant Improve.	II	493,625	-0-	493,625	-0-	-0-	493,625
79-07	MWWTP Pilot Plant Studies	I	-0-	500,000	500,000	-0-	-0-	500,000
79-08	Minneapolis East & West Metering Stations	III	530,000	-0-	530,000	-0-	-0-	530,000

<sup>1</sup>See Schedule 12-33 & 12-34

<u>Program No.</u>	<u>Project</u>	<u>Step Approval</u>	<u>Previously Appropriated</u>	<u>Additional Appropriations</u>	<u>Total Appropriations</u>	<u>Expenditures As of 12/31/78</u>	<u>Encumbered Balance</u>	<u>Unencumbered Balance</u>
79-10	201 Facilities Plan- ning	I	\$ <u>-0-</u>	\$ <u>200,000</u>	\$ <u>200,000</u>	\$ <u>-0-</u>	\$ <u>-0-</u>	\$ <u>200,000</u>
	TOTALS		<u>\$262,284,448</u>	<u>\$(10,223,142)</u>	<u>\$252,061,306</u>	<u>\$107,420,655</u>	<u>\$88,460,928</u>	<u>\$56,179,723</u>



## Previously Funded

### Project 71-03 Lakeville-Farmington T.P. & Interceptor

Description: This project consists of a new wastewater treatment plant and Interceptors. Plants in Lakeville, Farmington and Apple Valley are nearing capacity, and expansion of these facilities is not feasible. The new plant will treat sewage from the three communities which will be conveyed by the Lakeville-Farmington Interceptor and result in the phasing out of the Lakeville and Farmington treatment plants. The authorized funds for this project include planning, detail engineering and construction.

Status: Construction commenced June 1977. Completion is anticipated in November 1979 and will be put into operation in December 1979.

#### Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	11,203,737	2,240,747	2,583,661	16,028,145
During 1979	<u>2,480,838</u>	<u>496,168</u>	<u>324,849</u>	<u>3,301,855</u>
Totals	<u>13,684,575</u>	<u>2,736,915</u>	<u>2,908,510</u>	<u>19,330,000</u>

### Project 71-09 Metro Compressors

Description: This project consists of providing supplementary aeration compressor capacity as required to accomplish the treatment of the wastewater at the Metro Treatment Plant.

Based upon the successful experience at MMWTP with the large size multi-stage compressors, aeration requirements will be met with two units of 100,000 cubic feet per minute capacity or three units of 65,000 cubic feet per minute capacity, depending upon the economics of the application and other factors.

Status: This project was awarded in the fall of 1976. The equipment will be delivered and installed in 1981 in the Compressor Building.

#### Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	1,589,441	317,888	321,971	2,229,300
During 1979	210,740	42,148	14,765	267,653
During 1980	366,361	73,272	48,849	488,482
During 1981	<u>101,533</u>	<u>20,307</u>	<u>7,725</u>	<u>129,565</u>
Totals	<u>2,268,075</u>	<u>453,615</u>	<u>393,310</u>	<u>3,115,000</u>



### Project 71-13 Orono-Long Lake Interceptor

Description: The Orono-Long Lake Interceptor will phase out the Orono and the Long Lake Sewage Treatment Plants and carry the sewage from these locations to the Wayzata Interceptor with ultimate destination of the sewage being the Blue Lake Plant.

Status: Construction commenced late in 1978 with completion in December 1979.

#### Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	-0-	-0-	445,776	445,776
During 1979	2,250,202	450,040	360,332	3,060,574
During 1980	<u>564,188</u>	<u>112,838</u>	<u>75,224</u>	<u>752,250</u>
Total	<u>2,814,390</u>	<u>562,878</u>	<u>881,332</u>	<u>4,258,600</u>

### Project 71-29 MWWTP Warehouse & Machine Shop

Description: The project will consist of the construction of a central warehouse distribution center and maintenance shop to serve all treatment plants, located at Metropolitan Wastewater Treatment Plant. The facility will be constructed in conjunction with the existing vehicle maintenance garages and warehouse at the north end of the Metro Plant. The eastern portion of the new structure would house the controlled access warehouse with truck dock facilities. An addition to the south of the existing warehouse, as well as the existing warehouse space, will be used for the new maintenance shop. The existing vehicle maintenance garages will be unaffected by the new construction. The warehouse will be provided with shelving, bins, and pallets for storage, a loading and unloading dock at the eastern end of the warehouse, an office for records and inventory control, a freight elevator providing access to the plant tunnel system. The maintenance shop will consist principally of the machine shop, electric shop, weld area, and sand blast areas.

Status: This project has been designed and is scheduled for bids in the fall of 1979. Completion is scheduled for fall of 1980.

#### Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	-0-	-0-	152,788	152,788
During 1979	509,418	101,884	25,471	636,773
During 1980	2,790,703	558,141	275,446	3,624,290
During 1981	<u>532,341</u>	<u>106,467</u>	<u>57,341</u>	<u>696,149</u>
Total	<u>3,832,462</u>	<u>766,492</u>	<u>511,046</u>	<u>5,110,000</u>



### Project 72-02 Metro Compressor Building

Description: The project consists of an addition to the Compressor Building at the Metropolitan Wastewater Treatment Plant to provide the space for the two new compressors, as well as room for one additional compressor. The project also includes the necessary intake and discharge silencers for the compressors, flow metering tubes, check valves and butterfly valves; intake and discharge piping, air filtering system, and electrical and control work for the complete installation and operation of the two compressors.

Status: Bids are scheduled for fall of 1979 with estimated completion and operational date May, 1981.

#### Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	-0-	-0-	414,783	414,783
During 1979	1,044,000	208,800	52,201	1,305,001
During 1980	8,410,692	1,682,139	1,089,030	11,181,861
During 1981	3,550,684	710,136	177,535	4,438,355
Total	<u>13,005,376</u>	<u>2,601,075</u>	<u>1,733,549</u>	<u>17,340,000</u>

### Project 72-04 Cottage Grove Treatment Plant

Description: The Cottage Grove Plant Expansion consists of an expansion of the existing Cottage Grove Plant on an interim basis to a capacity of 1.8 mpd and to meet anticipated secondary treatment standards of 25 MG/1 BOD and 30 MG/1 SS.

Status: The construction will be completed by July, 1979.

#### Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	1,160,258	1,160,258
During 1979	<u>139,742</u>	<u>139,742</u>
Total	<u>1,300,000</u>	<u>1,300,000</u>

### Project 72-07 Maintenance & Dispatch Building

Description: As part of its responsibilities for operating and maintaining the Metropolitan Disposal System, the Metropolitan Waste Control Commission owns approximately 140 metering stations and about 55 sewage lift stations spread throughout the six service areas presently comprising the Metropolitan Disposal System.

The proposed project consists of a maintenance and dispatch building to be constructed at the Seneca Plant, in order to properly service and maintain the flow metering stations, from a centralized location. The location of the facilities at the Seneca Plant is compatible with the presence of the metering station data collection center. In addition, the Seneca Plant location provides a satisfactory point from which to dispatch service vehicles and personnel to the facilities to be maintained and serviced.



Project 72-07 Maintenance & Dispatch Building (continued)

Status: Step I Planning is completed. Step II, Plans and Specifications, will be completed in 1980 with construction in 1981-1982.

Annual Expenditures and Sources of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	-0-	-0-	4,434	4,434
During 1979	40,000	7,500	2,500	50,000
During 1980	<u>128,750</u>	<u>26,250</u>	<u>15,566</u>	<u>170,566</u>
Total	<u>168,750</u>	<u>33,750</u>	<u>22,500</u>	<u>225,000</u>

Project 73-06 Chaska Treatment Plant:

Description: The project consists of additions to the Chaska Wastewater Treatment Plant to augment the capacity of the facility from .75 mgd to 1.4 mgd to meet increasing wastewater flows and to upgrade the treatment process in compliance with applicable effluent standards.

Status: Construction will be completed in September, 1979.

Annual Expenditures and Sources of Funds:

<u>Year</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	551,590	551,590
During 1979	<u>273,410</u>	<u>273,410</u>
Total	<u>825,000</u>	<u>825,000</u>

Project 74-01 (400) Sludge Thickening Facilities, MWWTP

Description: This project consists of sixteen circular flotation sludge thickening tanks each 55 ft. in diameter; two thickener galleries; one main service area; return liquor treatment facilities; pipe equipment tunnels; interconnecting piping systems and service for other projects.

Status: The project is complete and undergoing start up and performance testing.

Annual Expenditures and Sources of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	21,468,126	4,293,625	2,845,227	28,606,978
During 1979	234,826	51,604	10,396	484,826
During 1980	<u>91,445</u>	<u>13,650</u>	<u>50,297</u>	<u>155,392</u>
Total	<u>21,794,397</u>	<u>4,358,879</u>	<u>2,905,920</u>	<u>29,059,196</u>



Project 74-01 (401) Sludge Thermal Conditioning & Dewatering Equipment Systems, MWWTP

Description: Equipment includes eight or ten thermal conditioning units, four circular decant tank mechanisms and eight sludge dewatering presses. Project includes all piping, controls and odor control equipment.

Status: Project awarded in 1977, estimated completion in 1979 and will be operational in 1979-1980.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	3,950,625	790,125	707,198	5,447,948
During 1979	6,890,678	1,378,136	918,756	9,187,570
During 1980	<u>2,029,257</u>	<u>405,851</u>	<u>90,121</u>	<u>2,525,229</u>
Totals	<u>12,870,560</u>	<u>2,574,112</u>	<u>1,716,075</u>	<u>17,160,747</u>

Project 74-01 (402) Sludge Conditioning & Storage Facilities, MWWTP

Description: This project consists of eight concrete storage tanks 135 ft. by 30 ft.; a 275 ft. by 103 ft. three story building for conditioning equipment; and four circular 60 ft. diameter decant tanks.

Status: Project awarded in February, 1977; estimated completion September 1979 and will be operational in 1979/1980.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	11,307,540	2,261,508	1,574,676	15,143,724
During 1979	1,239,512	277,902	1,935	1,519,349
During 1980	<u>174,958</u>	<u>4,992</u>	<u>119,657</u>	<u>299,607</u>
Total	<u>12,722,010</u>	<u>2,544,402</u>	<u>1,696,268</u>	<u>16,962,680</u>

Project 74-01 (403) Distributed Digital Acquisition & Control System for Sludge Processing, MWWTP

Description: Six process computer subsystems are included in the project along with one central computer in addition to a building to house the computer and peripheral equipment (see new location 409).

Status: Awarded in February 1978; estimated completion in 1982; Operations in 1982.



Project 74-01 (403) Distributed Digital Acquisition & Control System for Sludge Processing, MWWTP (continued)

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	1,528,014	305,603	344,564	2,178,181
During 1979	893,591	178,718	119,145	1,191,454
During 1980	952,907	190,581	127,055	1,270,543
During 1981	895,059	179,012	119,341	1,193,412
During 1982	<u>1,446,629</u>	<u>289,326</u>	<u>52,055</u>	<u>1,788,010</u>
Total	<u>5,716,200</u>	<u>1,143,240</u>	<u>762,160</u>	<u>7,621,600</u>

Project 74-01 (404) Roll Type Continuous Presses & Accessories for Primary Sludge Dewatering, MWWTP

Description: Equipment consisting of four twin roll variable nip continuous discharge sludge presses. Units would replace four existing vacuum filters to increase capacity.

Status: Contract awarded in 1977; Estimate completion December 1980; will be operational upon completion and coordination with Project 74-01 (406).

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	2,440,000	488,000	259,691	3,187,691
During 1979	62,327	12,465	8,391	83,183
During 1980	<u>370,083</u>	<u>74,017</u>	<u>114,906</u>	<u>559,006</u>
Total	<u>2,872,410</u>	<u>574,482</u>	<u>382,988</u>	<u>3,829,880</u>

Project 74-01 (406) Sludge Dewatering Building, MWWTP

Description: This project consists of a building to house plate type presses and associated equipment for dewatering sludge such as conveyors, pumps and compressors. The building is designed to become a part of the sludge processing complex.

Status: Project awarded December 1977; estimated completion date in April, 1980.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	2,927,731	585,546	498,764	4,012,041
During 1979	2,787,331	537,466	249,911	3,474,708
During 1980	<u>601,938</u>	<u>120,388</u>	<u>80,258</u>	<u>802,584</u>
Total	<u>6,217,000</u>	<u>1,243,400</u>	<u>828,933</u>	<u>8,289,333</u>



Project 74-01 (407) Sludge Processing Equipment, MWWTP

Description: This project consists of two sludge incinerators. This contract will be for the incinerators furnished and installed in the sludge processing building.

Status: Project awarded July of 1978. Completion date August 1981. Operational date fall of 1981.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	579,820	115,964	116,397	812,181
During 1979	4,541,765	908,353	1,066,481	6,516,599
During 1980	1,382,957	276,591	184,394	1,843,942
During 1981	<u>396,044</u>	<u>79,209</u>	<u>52,806</u>	<u>528,059</u>
Total	<u>6,900,586</u>	<u>1,380,117</u>	<u>1,420,078</u>	<u>9,700,781</u>

Project 74-01 (408) Sludge Processing Building, MWWTP

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 sludge processing building includes rotary sludge dryers, gas cleaning systems, waste heat boilers, and incinerator modifications.

Status: Project awarded December 1977. Estimated completion and operational date to be January, 1982.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	10,793,847	2,158,769	3,670,364	16,622,980
During 1979	20,603,980	4,120,796	516,014	25,240,790
During 1980	9,618,620	1,923,724	1,282,482	12,824,826
During 1981	8,725,749	1,745,150	1,163,433	11,634,332
During 1982	<u>4,242,804</u>	<u>848,561</u>	<u>565,707</u>	<u>5,657,072</u>
Total	<u>53,985,000</u>	<u>10,797,000</u>	<u>7,198,000</u>	<u>71,980,000</u>

Project 74-01 (409) Computer Rooms for Digital Acquisition and Control Systems, MWWTP

Description: Includes a building adjacent to the Administration Building to house the central computer. Also includes finish of computer rooms in Pretreatment Facilities and Secondary Control Buildings.

Status: Project was awarded in February 1979 with an estimated completion date of June 1980.



Project 74-01 (409) Computer Rooms for Digital Acquisition and Control Systems, MWWTP  
(continued)

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	4,956	991	13,804	19,751
During 1979	1,183,996	236,799	144,724	1,565,519
During 1980	<u>321,323</u>	<u>64,265</u>	<u>129,142</u>	<u>514,730</u>
Totals	<u>1,510,275</u>	<u>302,055</u>	<u>287,670</u>	<u>2,100,000</u>

Project 74-07 Blue Lake Sludge

Description: The project consists of on-site solids processing facilities and an ultimate disposal site for the existing Blue Lake Wastewater Treatment Plant, Phase II. On-site processing facilities include gravity thickeners, anaerobic digesters, dewatering units, waste liquor treatment system, odor control system, and related support structures. Ultimate disposal will be to agricultural land for fertilization and soil conditioning. The land spreading site will have sludge storage facilities and an equipment storage area.

Status: The plans and specifications have been submitted to MPCA for approval.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	2,146,143	2,146,143
During 1979	102,952	102,952
During 1980	174,780	174,780
During 1981	<u>151,164</u>	<u>151,164</u>
Total	<u>2,575,039</u>	<u>2,575,039</u>

Project 74-09 Apple Valley Interceptor

Description: The proposed project consist of the elimination of the Apple Valley Plant, completely, with the construction of a gravity interceptor southward about 3.5 miles to a connection with the proposed Lakeville-Farmington Interceptor. Treatment of the wastewater would then be provided at the proposed new Lakeville-Farmington Treatment Plant.

Status: Project is 79% completed. Final inspection will be completed by August, 1979.

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	1,202,707	240,541	218,808	1,662,056
During 1979	<u>1,166,918</u>	<u>233,384</u>	<u>425,642</u>	<u>1,825,944</u>
	<u>2,369,625</u>	<u>473,925</u>	<u>644,450</u>	<u>3,488,000</u>



### Project 74-10 Metro Disposal System Improvements

Description: Implementation of major improvements to the Metropolitan Disposal System have been delayed beyond original scheduling by reduced Federal funds, the Federal Water Pollution Control Act Amendments of 1972, and the uncertainty of applicable water quality standards. As a result of these factors, as well as the enactment of the OSHA requirements, it is necessary to provide improvements not originally planned in the previously mentioned improvements projects. The project consists of numerous improvements to the interceptor system and the waste treatment plants to aid in the future effective operation of the Metropolitan Disposal System.

Status: The engineering and construction is an on-going process and is presently about 50% completed. The design and construction of the improvements will be completed in 1980.

#### Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	738,509	738,509
During 1979	345,000	345,000
During 1980	612,491	612,491
Total	<u>1,696,000</u>	<u>1,696,000</u>

### Project 75-01 Residual Solids Management

Description: The objective of the study is to develop a technically, economically, and environmentally acceptable system for reuse or disposal of the residual solids (ash, grit, screenings, and sludge) from all of the Commission's wastewater treatment plants. Immediate ash and sludge disposal needs will be analyzed. Alternatives for a long-range system will be analyzed, including solids processing, transport, and refuse/disposal.

Status: Initiated study spring of 1977 with completion in June, 1980.

#### Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	560,030	112,006	74,671	746,707
During 1979	276,281	55,256	36,837	368,374
During 1980	15,903	3,181	2,120	21,204
Total	<u>852,214</u>	<u>170,443</u>	<u>113,628</u>	<u>1,136,285</u>

### Project 75-05 Seneca Auxiliary Fuel Research (Co-incineration)

Description: The project is an in-plant study supported by a grant of 95% participation by the United States EPA. Purpose is to determine the feasibility in full scale tests of adding coal or other combustible matter such as solid waste to eliminate the major share of need for gas or oil fuels in the sludge incineration process. The grant is for a two year study period. Construction of temporary storage and conveying facilities and purchase of items of instrumentation and control are required.



Project 75-05 Seneca Auxiliary Fuel Research (Co-incineration) (continued)

Status: Construction and installation of the equipment is scheduled by June, 1979.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	372,622	-0-	25,129	397,751
During 1979	<u>-0-</u>	<u>-0-</u>	<u>32,249</u>	<u>32,249</u>
Total	<u>372,622</u>	<u>-0-</u>	<u>57,378</u>	<u>430,000</u>

Project 75-10 Engineering Services - NPDES Permits

Description: The Minnesota Pollution Control Agency in accordance with the terms of PL 92-500, Water Pollution Control Act amendments, 1972 is issuing NPDES Permits for each of the treatment plants under the jurisdiction of the Metropolitan Waste Control Commission. Those plants which remain as permanent plants will require updating, revision or replacement in order to accomplish objectives. Each plant has its individual problems and requirements, and it will be necessary to determine the extent of revision before proceeding with any improvements. This item will be accomplished by retaining the services of a qualified engineer to make a detailed analysis of each plant and recommend procedures for complying with the requirements of the NPDES permits.

Status: Analysis is being accomplished in-house.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	50,104	50,104
During 1979	30,000	30,000
During 1980	<u>39,896</u>	<u>39,896</u>
Total	<u>120,000</u>	<u>120,000</u>

Project 76-05 Metro System Emergency & Power Factor Correction

Description: An adequate number of emergency electric generators of various sizes will be acquired so they can be used throughout the Metropolitan Disposal System wherever power outages occur.

The system includes 19 wastewater treatment plants and 50 major sewage pumping stations which require a continuous supply of electricity. Many of these locations do not have emergency electric generating facilities. Portable emergency electric generating facilities are needed to prevent major pollution problems when there is a public power failure. This project (purchase of generators) will supplement the project in the 1974 Capital Budget which provided for the telemetry and switch gear at many of the sites.



Project 76-05 Metro System Emergency & Power Factor Correction (continued)

Status: The plans and specifications are essentially completed and all work should be completed in 1980.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	299,635	299,635
During 1979	910,721	910,721
During 1980	289,644	289,644
Total	<u>1,500,000</u>	<u>1,500,000</u>

Project 76-07 MWWTP Retrofit Process Control

Description: Conduct the engineering to provide controls to alleviate instrumentation and control problems with the existing and expanded facility and meet standards. It is planned to initiate a project which consists of the furnishing and installation of a highly instrumented and direct digital control system for the Metro Treatment Plant. The control system will tie the existing portions of the plant into the new single centralized system provided under the sludge disposal project and allow the utmost in efficient operation.

Status: Coordinate the preparation of the plans and specifications during 1979 and should be completed in 1980.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	-0-	-0-	-0-	-0-
During 1979	262,500	52,500	35,000	350,000
During 1980	862,500	172,500	115,000	1,150,000
Total	<u>1,125,000</u>	<u>225,000</u>	<u>150,000</u>	<u>1,500,000</u>

Project 76-10 Industrial Waste Studies

Description: To comply with industrial cost recovery provisions of the Act, Metropolitan Waste Control Commission efforts are necessary in addressing problems and design criteria required for the industrial contributors. Also development of rules and regulations for Local Pretreatment Program.

Status: To be completed in May 1980.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	100,736	20,147	13,432	134,315
During 1979	75,000	15,000	10,000	100,000
During 1980	179,408	35,882	23,921	239,211
Total	<u>355,144</u>	<u>71,029</u>	<u>47,353</u>	<u>473,526</u>



### Project 76-13 Environmental Program

Description: To establish a base line inventory of environmental characteristics of the Metropolitan Area as a basis for project planning and preparation of environmental assessments. The study will provide a framework by which to evaluate the cumulative impacts of the facilities planned in the program. Emphasis is on water resources, community growth patterns, land use trends and questions of re-service capacity. Also to prepare an environmental impact statement for the residual solids management and combined sewer study elements of facilities planning.

Status: The study will be completed in 1980.

#### Annual Expenditures and Source of Funds.

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	167,710	33,542	22,361	223,613
During 1979	135,000	27,000	18,000	180,000
During 1980	112,589	22,518	15,012	150,119
Total	<u>415,299</u>	<u>83,060</u>	<u>55,373</u>	<u>553,732</u>

### Project 76-17 Facilities Planning to Comply with Air Quality Standards

Description: To obtain sufficient data on particulate and gas emissions from sewage incinerators to be used for future design of Systems and Optimization of improvements and to consider Ambient Air Quality in the evaluation of future facility design.

Status: The study will be completed in December 1979. Equipment will be purchased in 1980.

#### Annual Expenditures and Source of Funds

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	52,164	10,433	6,955	69,552
During 1979	61,415	12,283	8,188	81,886
During 1980	91,913	18,383	12,254	122,550
Total	<u>205,492</u>	<u>41,099</u>	<u>27,397</u>	<u>273,988</u>

### Project 76-19 Management Information & Process Control System

Description: The study generally reviews current potential for application of data processing, data acquisition and process control as part of the Metropolitan Disposal System. The additional study will be undertaken to analyze needs outlined in the Management Information/Process Control System Study and formulate an implementation plan for the complete automation of treatment plant process control.

Status: To be completed by June 1980.



Project 76-19 Management Information & Process Control System (continued)

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	341	68	45	454
During 1979	15,056	3,011	2,008	20,075
During 1980	<u>1,673</u>	<u>335</u>	<u>223</u>	<u>2,231</u>
Total	<u>17,070</u>	<u>3,414</u>	<u>2,276</u>	<u>22,760</u>

Project 76-21 CAB Study

Description: This program constitutes an area of study for purposes of developing alternative solutions for transmission and treatment of sewage within the north area, Champlin, Anoka, Brooklyn Park and also the Blain-Ham Lake area.

Status: To be completed by 1980.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	7,200	1,440	960	9,600
During 1979	101,367	20,273	13,516	135,156
During 1980	<u>76,415</u>	<u>15,283</u>	<u>10,189</u>	<u>101,887</u>
Total	<u>184,982</u>	<u>36,996</u>	<u>24,665</u>	<u>246,643</u>

Project 76-25 Southeast Area Study

Description: This program constitutes an area of study for purposes of developing alternative solutions for transmission and treatment of sewage within the Dakota and Washington County area.

Status: To be completed in March 1980.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	45,175	9,035	6,023	60,233
During 1979	337,500	67,500	45,000	450,000
During 1980	<u>70,684</u>	<u>14,137</u>	<u>9,423</u>	<u>94,244</u>
Total	<u>453,359</u>	<u>90,672</u>	<u>60,446</u>	<u>604,477</u>

Project 76-26 Southwest Suburban Area Study

Description: This program constitutes an area of study for purposes of developing alternative solutions for transmission and treatment of sewage within the Southwest area.

Status: Study to be done by 1980.



Project 76-26 Southwest Suburban Area Study (continued)

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	80,337	16,067	10,712	107,116
During 1979	335,183	67,037	44,691	446,911
During 1980	<u>28,466</u>	<u>5,693</u>	<u>3,796</u>	<u>37,955</u>
Total	<u>443,986</u>	<u>88,797</u>	<u>59,199</u>	<u>591,982</u>

Project 76-28 MWWTP Tertiary Treatment Facilities

Description: This program constitutes an area of study for purposes of developing alternative solutions for transmission and treatment of sewage within the Metro area. Study will include planning for the digital control system of the existing plant at MWWTP. It will also include a study of an alternate power source and access road above the higher river levels at MWWTP.

Status: To be completed in April, 1980.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	77,743	15,549	10,365	103,657
During 1979	385,017	77,003	51,336	513,356
During 1980	<u>93,750</u>	<u>18,750</u>	<u>12,500</u>	<u>125,000</u>
Total	<u>556,510</u>	<u>111,302</u>	<u>74,201</u>	<u>742,013</u>

Project 76-55 Combined Sewer Study

Description: The study will determine the environmental impact of the combined sewer overflow on the Mississippi River and will formulate an abatement program leading towards the reduction or elimination of combined sewer overflows. The study will include an assessment of combined sewer overflows, general planning of the abatement program and preliminary engineering of the required abatement facilities.

Status: To be completed in June 1980.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	1,235,807	247,161	164,775	1,647,743
During 1979	737,444	147,489	98,325	983,258
During 1980	<u>207,449</u>	<u>41,490</u>	<u>27,660</u>	<u>276,599</u>
Total	<u>2,180,700</u>	<u>436,140</u>	<u>290,760</u>	<u>2,907,600</u>



### Project 76-56 Alternative Waste Management Systems

Description: Wastewater Management and Facilities Planning required by the "201" process directs evaluation of alternative systems leading toward the selection of a plan. This element is designed to investigate a principle alternative dealing with onsite disposal feasibility related to hydrological, geological, physiographical and other factors which influence the suitability of this method of sewage disposal. This element will address the feasibility of onsite disposal and will be incorporated into segment two of the contemplated 201 grant application. During that time the results of this study will be included amongst the many alternatives then under consideration.

Status: To be completed in September 1979.

#### Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	109,223	21,845	14,563	145,631
During 1979	<u>88,163</u>	<u>17,633</u>	<u>11,755</u>	<u>117,551</u>
Total	<u>197,386</u>	<u>39,478</u>	<u>26,318</u>	<u>263,182</u>

### Project 77-01 Riverview Siphon System

Description: The Riverview Siphon System serves the entire City of West St. Paul and a portion of the City of St. Paul's west side. The project involves replacing the existing river crossing which has been plagued with problems for some time. The alternatives, which have been analyzed, include converting the river crossing to a forcemain system using the Riverview Pump Station; diverting flow directly to the South St. Paul river crossing; and replacing the existing three pipes with three new pipes.

Status: We anticipate this improvement will be accomplished in April 1980 and operational in May 1980.

#### Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	-0-	-0-	91,957	91,957
During 1979	620,000	124,000	118,000	862,000
During 1980	<u>761,650</u>	<u>152,330</u>	<u>132,063</u>	<u>1,046,043</u>
Total	<u>1,381,650</u>	<u>276,330</u>	<u>342,020</u>	<u>2,000,000</u>

### Project 77-02 Metro Interceptor Improvements

Description: This project consists of corrective measures for the elimination of restrictions, structural deficiencies, equipment replacement and to achieve conformance with codes in the Metropolitan Disposal System.



Project 77-02 Metro Interceptor Improvements (continued)

Status: Planning has started on the improvements and detailed plans will be conducted in 1979 and 1980. Equipment will be replaced in 1981.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	59,039	59,039
During 1979	40,000	40,000
During 1980	175,000	175,000
During 1981	<u>120,961</u>	<u>120,961</u>
Total	<u>395,000</u>	<u>395,000</u>

Project 77-03 Matching Funds by the MWCC for an EPA 208 Program

Description: The 208 Program will produce a 20 year plan, staged in five-year interval to provide the Metropolitan Area of the Twin Cities with an adequate wastewater handling plan. The plan will deal with the location and general sizing of trunkline interceptors and wastewater treatment plants plus the handling of plant residuals. An appropriate management and financial program will also be prepared.

In addition to the 20 year plan, the current 208 grant will allow for a substantial amount of "verification" work on a river load allocation model applicable to the Mississippi River below downtown St. Paul.

Status: This work is being conducted by the Metro Council staff. It appears the work will be completed in 1980.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	328,676	328,676
During 1979	75,000	75,000
During 1980	<u>71,324</u>	<u>71,324</u>
Total	<u>475,000</u>	<u>475,000</u>

Project 77-04 Savage Plant Expansion

Description: The proposed project is to consist of an expansion of the existing wastewater treatment plant through the addition of a new biological unit and the modification of raw and intermediate pumping stations, chlorination facilities and piping systems. The proposed plant expansion will allow the design capacity to increase from 0.36 mgd to 0.86 mgd and thus fulfill Metropolitan Council policy objectives by enabling urban expansion in Savage to continue.

Status: The above described project was designed in 1977 and will be constructed by September 1979.



Project 77-04 Savage Plant Expansion (continued)

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	386,493	386,493
During 1979	<u>228,507</u>	<u>228,507</u>
Total	<u>615,000</u>	<u>615,000</u>

Project 77-05 Beltline Regulator/Interceptor Improvements

Description: The project consists of replacement of the Lower Beltline Regulator located near the intersection of Warner Road and TH No. 61 in St. Paul and replacement of the sanitary interceptor from that structure to the MWCC joint interceptor.

Status: Plans and specifications will be completed in 1980 and construction will start in 1980.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Local Funds</u>	<u>Total</u>
During 1980	100,000	100,000
During 1981	<u>200,000</u>	<u>200,000</u>
Total	<u>300,000</u>	<u>300,000</u>

Project 77-06 Seneca Sludge Dewatering

Description: The dewatering improvement will consist of an additional vacuum filter unit. The unit will be similar to the existing vacuum filters and will consist of a 14 foot long, 12 foot diameter filter and associated appurtenances. A dewatering capacity of 4-5 wet tons/hour will be provided and will result in an adequate match between the dewatering and incineration capacity. In addition to the vacuum filter, there will also be modifications to the sludge feed system, chemical conditioning feed system, chemical conditioning tank, chemical storage facilities, dewatered sludge conveyance system, structural modifications and miscellaneous piping.

Status: It is anticipated that the furnishing and installing of the above described equipment will be accomplished in 1980.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	-0-	-0-	28,895	28,895
During 1979	194,467	38,893	66,640	300,000
During 1980	<u>390,829</u>	<u>78,166</u>	<u>52,110</u>	<u>521,105</u>
Total	<u>585,296</u>	<u>117,059</u>	<u>147,645</u>	<u>850,000</u>



### Project 77-07 Anoka Interceptor

Description: The upper segment (Anoka Interceptor) to alleviate a shortage of sewer capacity in the west side where service cannot be provided for development in an industrial area. The City of Anoka has documented their problems on the west side through submission of a report on their system.

Status: The plans and specifications are being prepared with construction during 1980.

#### Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	86,561	86,561
During 1979	200,000	200,000
During 1980	2,000,000	2,000,000
During 1981	1,936,439	1,936,439
Total	<u>4,223,000</u>	<u>4,223,000</u>

### Project 78-01 Future System Configuration/Central Cities and Contiguous Communities Study

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.

The program consists of two parts:

1. An analysis of the cost estimates and environmental impediments resulting from financial and environmental study outputs attributable to seven particular study areas, e.g., "Southwest Suburban Area Study, 76-26". This part will cost approximately \$422,341.
2. The second part of this program is that of coordinating and supplementing the work assigned to and within the capability of the "208" planning agency in conformance with federal guidelines at an approximate cost of \$6,541.

Status: Studies were initiated in 1978 and completed by June, 1980.

#### Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	13,507	2,701	1,802	18,010
During 1979	258,050	51,610	34,407	344,067
During 1980	92,465	18,493	12,328	123,286
Total	<u>364,022</u>	<u>72,804</u>	<u>48,537</u>	<u>485,363</u>



### Project 78-02 MWTP F & I No. 1 Air Pollution Control Equipment

Description: This project consists of the installation of impingement type scrubbers and appurtenant equipment for each of the four incinerators in Filtration and Incineration Building No. 1 at the Metropolitan Wastewater Treatment Plant.

On December 7, 1977 the U.S. Environmental Protection Agency (EPA) issued a Notice of Violation in which they alleged that the incinerator operations of F & I No. 1 did not comply with Minnesota Air Pollution Control Regulations APC-7 and APC-11. The effect of installing the proposed air pollution equipment will be to bring the incinerator operation of F & I No. 1 in compliance with the state standards as set forth by the Minnesota Pollution Control Agency (MPCA).

Status: Bids have been received for purchase of the four scrubbers and induced draft fans and contracts are in the process of being executed. Bids were received on June 22, 1978 for the installation of the scrubber, fans and other appurtenant equipment. Construction will be completed by July 1979.

#### Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	497,793	497,793
During 1979	<u>739,907</u>	<u>739,907</u>
Total	<u>1,237,700</u>	<u>1,237,700</u>

### Project 78-03 Interim Sludge Disposal

Description: The Minnesota Pollution Control Agency has initiated proceedings to require the MWCC to implement an "interim" sewage sludge disposal program to overcome existing sludge disposal deficiencies until the Metro Plant expansion is finished. Based on a report by CED/CH2M Hill, the Metropolitan Council amended its Waste Management Policy Plan to enable the MWCC to develop a detailed program. This was developed, and the Development Program amendment and Capital Budget request was forwarded to the Metropolitan Council in June, 1978.

Status: The bidding for the site will be advertised in July and project completed by June, 1980.

#### Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	-0-	-0-	21,673	21,673
During 1979	235,000	47,000	93,000	375,000
During 1980	<u>233,075</u>	<u>46,615</u>	<u>73,637</u>	<u>353,327</u>
Total	<u>468,075</u>	<u>93,615</u>	<u>188,310</u>	<u>750,000</u>



Project 78-04 Bloomington Interceptor Relocation

Description: The project consists of two segments: (1) the relocation of 4600 feet of interceptor from the existing lift station and a long and within the right-of-way of the proposed freeway T.H. 36; and (2) 1400 foot relocation off from Minnesota Department of Transportation's right-of-way south of Old Shakopee Road.

Status: Placed under construction in August 1978 and will be completed in November 1979.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Local Funds</u>	<u>Total</u>
Prior to 12/31/78	14,892	14,892
During 1979	<u>741,194</u>	<u>741,194</u>
Total	<u>756,086</u>	<u>756,086</u>

Project 79-05 MWWTP Secondary Power Source

Description: A 201 "segmented" project to provide the MWWTP with a second source of electrical power should the primary source fail as per EPA criteria to provide uninterrupted sewage treatment.

Status: Plans and specs will be completed in early 1980.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
During 1979	75,000	15,000	10,000	100,000
During 1980	<u>112,500</u>	<u>22,500</u>	<u>15,000</u>	<u>150,000</u>
Total	<u>187,500</u>	<u>37,500</u>	<u>25,000</u>	<u>250,000</u>

Project 79-06 Hastings Plant Improvements and Expansion

Description: Engineering Design Services for the design of wastewater treatment facilities at the existing Hastings plant site in accordance with the Hastings Service Area Segmented Facilities Plan as prepared by Henningson, Durham & Richardson and dated May, 1979.

Status: Plans and specs will be completed in early 1980.

Annual Expenditures and Source of Funds:

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
During 1979	67,500	13,500	9,000	90,000
During 1980	<u>302,719</u>	<u>60,543</u>	<u>40,363</u>	<u>403,625</u>
Total	<u>370,219</u>	<u>74,043</u>	<u>49,363</u>	<u>493,625</u>



### Project 79-07 MWWTP Pilot Plant Studies

Description: A 201 segmented project (76-28 MWWTP Tertiary Treatment Facilities) to provide data to optimize secondary treatment and investigate advanced forms of treatment at the MWWTP.

Status: Pilot Plant Studies will be conducted during 1980.

#### Annual Expenditures and Source of Funds

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
During 1979	75,000	15,000	10,000	100,000
During 1980	<u>300,000</u>	<u>60,000</u>	<u>40,000</u>	<u>400,000</u>
Total	<u>375,000</u>	<u>75,000</u>	<u>50,000</u>	<u>500,000</u>

### Project 79-08 Minneapolis East & West Metering Stations

Description: The project consists of improvements to the electrical, structural and mechanical system for both metering stations plus the Grand Avenue Lift Station located in South St. Paul. These improvements will correct the existing personnel safety hazards and bring the facilities up to code.

Status: Construction will be completed in late 1980.

#### Annual Expenditures and Source of Funds

<u>Year</u>	<u>Local Funds</u>	<u>Total</u>
During 1979	100,000	100,000
During 1980	<u>430,000</u>	<u>430,000</u>
Total	<u>530,000</u>	<u>530,000</u>

### Project 79-10 201 Facilities Planning - Public Participation

Description: Public Participation Program is designed to encourage and provide for public involvement in governmental decisions. This involves identifying particular segments of the public and becoming aware of their attitudes. Once aware of the attitudes of both general and specific publics the public participation staff provides ample opportunities for interested and affected parties to communicate their views. Along with providing access to the decision making process the public participation staff seeks out opportunities to encourage dialogue and input. The public is communicated the status of various studies and programs at an early stage. Thus the public is able to understand and comprehend issues and they are able to see the possible long term and short term impacts on their daily life. There must be ample consideration of public feelings before the decision is reached. To accomplish this the public participation staff makes use of all legitimate informational devices and targets this information to specific segments of the public. Supports 201 studies 76-25 Southeast Area Study and 76-26, Southwest Suburban Area Study.

Status: Will be completed during 1980.

Project 79-10 201 Facilities Planning - Public Participation (continued)

Annual Expenditures and Source of Funds

<u>Year</u>	<u>Federal Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
During 1979	93,750	18,750	12,500	125,000
During 1980	<u>56,250</u>	<u>11,250</u>	<u>7,500</u>	<u>75,000</u>
Total	<u>150,000</u>	<u>30,000</u>	<u>20,000</u>	<u>200,000</u>



## SOURCE OF AUTHORIZATION FOR PROJECTS

### Project 71-03 Lakeville-Farmington T.P. & Intcp.

Source of Authorization: Included in the Waste Management Policy Plan as a previously approved System Improvement Project.

### Project 71-09 MWWTP - Compressors

Source of Authorization: Included in the Waste Management Policy Plan as a previously approved System Improvement Project.

### Project 71-13 Orono-Long Lake Intcp.

Source of Authorization: Included in the Waste Management Policy Plan as a previously approved System Improvement Project.

### Project 71-29 MWWTP - Warehouse

Source of Authorization: Included in the Waste Management Policy Plan as a previously approved System Improvement Project.

### Project 72-02 MWWTP - Compressor Bldg.

Source of Authorization: Included in the Waste Management Policy Plan as a previously approved System Improvement Project.

### Project 72-04 Cottage Grove Expansion

Source of Authorization: Included in the Development Program for years 1977-1981.

### Project 72-07 Maint. & Dispatch Bldg.

Source of Authorization: Included in the Waste Management Policy Plan as a project to be constructed during the period from 1977-1980.

### Project 73-06 Chaska Plant Expansion

Source of Authorization: Included by an Amendment to the Waste Management Policy Plan.

Included by an Amendment to the Development Program for years 1978-1982.



Project 74-01    MWWTP - Sludge Disposal  
                  (400)    Sludge Thickening Facilities  
                  (401)    Sludge Thermal Cond. & Dewatering Equip.  
                  (402)    Sludge Cond. & Storage Facilities  
                  (403)    Digital Acquisition & Control System  
                  (404)    Roll Type Cont. Pressed & Accessories for Sludge Dewatering  
                  (406)    Sludge Dewatering Bldg.  
                  (407)    Sludge Processing Equip.  
                  (408)    Sludge Processing Bldg.

Source of Authorization: Included in the Waste Management Policy Plan as a previously approved System Improvement Project.

(409)    Computer Building

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

Included by an Amendment to the Waste Management Polciy Plan.

Project 74-07    Blue Lake Sludge

Source of Authorization: Included in the Waste Management Policy Plan as a previously approved System Improvement Project.

Project 74-09    Apple Valley Inctp.

Source of Authorization: Included in the Waste Management Polciy Plan as a previously approved System Improvement Project.

Project 74-10    Metro Disposal System Improvements

Source of Authorization: Included in the Waste Management Policy Plan as a previously approved System Improvement Project.

Project 75-01    Ultimate Disposal Site

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 75-05    Seneca - Coal Handling

Source of Authorization: Included in the Waste Management Policy Plan as a previously approved System Improvement Project.



Project 75-10 Engineering Serv. - NPDES Permits

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 75-50 Metro Planning

Source of Authorization: Included in previous capital budget prior to requirements of M.R.A.

Project 76-05 Metro System Emergency

Source of Authorization: Included in previous capital budget prior to requirements of M.R.A.

Project 76-07 MWWTP Instrumentation

Source of Authorization: Included in the Waste Management Policy Plan as a previously approved System Improvement Project.

Project 76-10 Industrial Waste Studies

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-13 Enviromental Inventory & Assessment

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-14 Cottage Grove-Woodbury-Lake Elmo Area Study

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-17 Air Quality Monitoring

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-18 Expansion of the Water Quality Monitoring Program

Source of Authorization: Included in the Waste Management Policy Plan as a project to be constructed during the period from 1977-1980.



Project 76-19 Management Information & Porcess Control Syst.

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-21 CAB Study

Source of Authorization: Included in the Waste Management Policy Plan as a project to be constructed during the period from 1977-1980.

Included by an Amendment to the Development Program for years 1978-1982.

Project 76-25 Southeast Area Study

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-26 Southwest Suburban Area

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-28 MWWTP Tertiary Treatment Facilities

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-55 Combined Sewer Study

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-56 Alternative Waste Management Systems

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 77-01 Riverview Siphon System

Source of Authorization: Included in the Waste Management Policy Plan as a project to be constructed during the period from 1977-1980.

Included in the Development Program for years 1977-1981.

Project 77-02 Metro Intcp. Impr.

Source of Authorization: Included in the Waste Management Policy Plan as a project to be constructed during the period from 1977-1980.



Project 77-03 EPA 208 Match

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 77-04 Savage Plant Expansion

Source of Authorization: Included by an Amendment to the Development Program for years 1978-1982.

Project 77-05 Beltline Reg./Intcp. Impr.

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

Project 77-06 Seneca Sludge Dewatering

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

Project 77-07 Anoka Interceptor

Source of Authorization: Included in the Development Program for years 1977-1981.

Included in the Development Program for years 1978-1982.

Project 78-01 Future System Configuration

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 78-02 F & I #1 Scrubbers

Source of Authorization: Included by an Amendment to the Waste Management Policy Plan.

Included by an Amendment to the Development Program for years 1978-1982.

Project 78-03 Interim Sludge Disposal

Source of Authorization: Included by an Amendment to the Waste Management Policy Plan.

Included by an Amendment to the Development Program for years 1978-1982.

Project 78-04 Bloomington Intcp. Reloc.

Source of Authorization: Included in the Waste Management Policy Plan as a project to be constructed during the period from 1977-1980.

Included by an Amendment to the Development Program for years 1978-1982.

Project 79-05 MWWTP Secondary Power

Source of Authorization: Included in the Waste Management Policy Plan and was included in the Development Program by amendment in 1979.

Project 79-06 Hastings Plant Improvements

Source of Authorization: Included in the Waste Management Policy Plan and was included in the Development Program by amendment in 1979.

Project 79-07 MWWTP Pilot Plant Studies

Source of Authorization: Included in the Waste Management Policy Plan. A 201 segmented project source, 76-28 MWWTP Tertiary Treatment Facilities.

Project 79-08 Minneapolis East & West Metering Station Improvements

Source of Authorization: Included in the Waste Management Policy Plan and was included in the Development Program by amendment in 1979.

Project 79-10 Facilities Planning Public Participation

Source of Authorization: Included in the Waste Management Policy Plan. Required by EPA as part of the 201 projects, including 76-25, Southeast Area Study and 76-26 Southwest Suburban Area Study.



## **Request For Additional Funding**

### Project 71-03 Lakeville-Farmington Treatment Plant and Interceptor

Reason for Decrease: The decrease of \$350,000 is due to firm construction costs and progress of construction work is at the point that any subsequent change orders would not materially affect the cost of the project.

### Project 71-09 MWWTP - Compressors

Reason for Decrease: The decrease of \$100,000 is due to firm construction costs and progress of construction work is at the point that any subsequent change orders would not materially affect the cost of the project.

### Project 71-29 MWWTP Warehouse and Maintenance Building

Reason for Increase: The increase of \$1,910,000 is due to inflation and increased scope of the project.

1. Inflation	\$641,000
2. Industrial Shop Equipment	997,000
3. Fuel System	40,000
4. Furniture and Storage Equipment	232,000

### Project 72-02 MWWTP Compressor Building

Reason for Increase: The increase of \$3,740,000 is due to the following:

1. Additional building space to accomodate loading area for maintenance and space for 3 future compressors.	\$ 754,000
2. Additional work associated with installation of service well water.	393,300
3. Installation of new overhead piping system.	200,500
4. Provision of redundancy of substation and switchgear and comply with revised design standards of EPA.	897,000
5. Additional electrical facilities required for the synchronous motor drives.	276,000
6. Inflation	1,219,200

### Project 74-01 (400) MWWTP - Sludge Thickening Facilities

Reason for Decrease: The decrease of \$300,000 is due to firm construction costs and progress of construction work is at the point that any subsequent change orders would not materially affect the cost of the project.

### Project 74-01 (401) Sludge Thermal Condition and Dewatering Equipment

Reason for Decrease: The decrease of \$1,350,000 is due to firm construction costs and progress of construction work is at the point that any subsequent change orders would not materially affect the cost of the project.



Project 74-01 (402) Sludge Condition and Storage Facilities

Reason for Decrease: The decrease of \$1,000,000 is due to firm construction costs and progress of construction work is at the point that any subsequent change orders would not materially affect the cost of the project.

Project 74-01 (404) Roll Type Cont. Presses and Accessories for Sludge Dewatering

Reason for Decrease: The decrease of \$250,000 is due to firm construction costs and progress of construction work is at the point that any subsequent change orders would not materially affect the cost of the project.

Project 74-01 (406) Sludge Dewatering Building

Reason for Decrease: The decrease of \$700,000 is due to firm construction costs and progress of construction work is at the point that any subsequent change orders would not materially affect the cost of the project.

Project 74-01 (408) Sludge Processing Building

Reason for Increase: The increase of \$1,600,000 is due to firm construction costs and a contingency for change orders.

Project 74-01 (409) MWWTP Digital Control Building

Reason for Increase: The budget is amended to reflect firm construction costs.

Project 76-07 MWWTP Retrofit Process Control

Reason for Increase: To revise and increase the project to provide for a distributed digital process control to the majority of treatment operations at the Metro Plant, those not controlled by MDDAC, and computerize selected plant-wide and maintenance functions. This is a 201 segmented project.

Project 76-10 Industrial Waste Studies

Reason for Increase: The increase of \$218,119 is due to the proposed purchase of analytical equipment required to analyze a wide variety of toxic pollutants for the Industrial Waste Pretreatment Program.

Project 76-17 Facilities Planning Air Quality Study

Reason for Increase: The increase of \$38,012 is due to the proposed purchase of equipment for the monitoring of ambient air quality.

Project 77-01 Riverview Siphon System

Reason for Decrease: The decrease of \$200,000 is to reflect firm construction costs.

Project 77-03 EPA 208 Match

Reason for Increase: To provide additional funds for matching of 25% of 208 costs.



Project 77-06 Seneca Sludge Dewatering Equipment

Reason for Increase: The increase of \$250,000 is due to a change in scope in the project which increases the cost of the equipment but substantially lowers the operating and maintenance costs and is cost effective.

Project 78-01 Systemwide Analysis and Alternative Assessments Study/Critical Path Schedule

Reason for Increase: The increase of \$56,481 is due to the extension of contract services and for the provision of funds to provide overall staff coordination of the Critical Path Schedule.

Project 79-07 MWWTP Pilot Plan Studies

Reason for Increase: The additional funds of \$500,000 are required as a result of of the 201 project, 76-28 MWWTP Tertiary Treatment Facilities and is to provide data to optimize Secondary Treatment and investigate advanced forms of treatment at the MWWTP.

Project 79-10 201 Facilities Planning - Plublic Participation

Reason for Increase: The additional funds of \$200,000 are required as a result of the 201 projects, 76-25 Southeast Area Study and 76-26, Southwest Suburban Area Study. It is to encourage and provide for public involvement in governmental decisions.

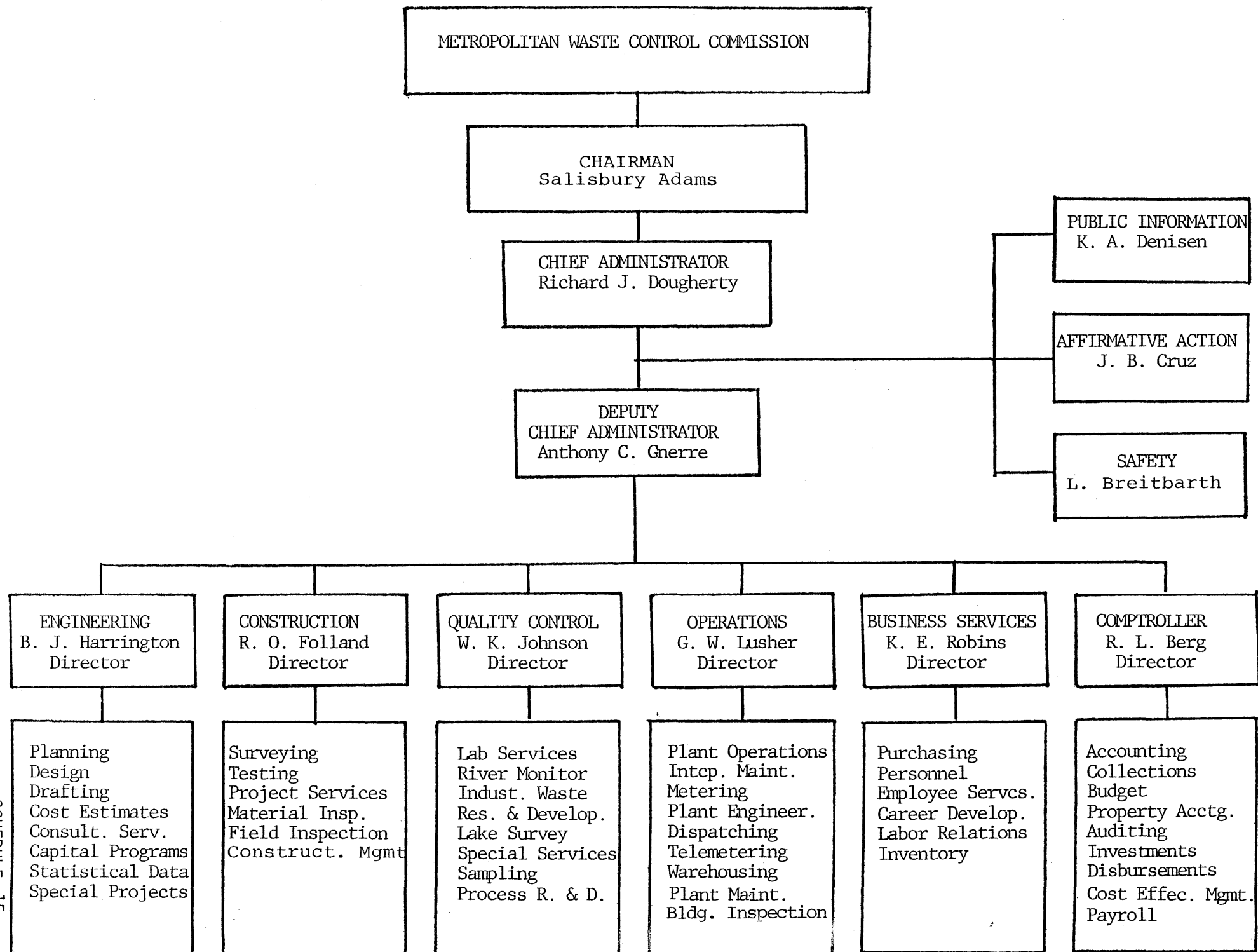
SCHEDULE OF  
PROJECTS COMPLETED OR TO BE COMPLETED IN 1979

<u>Project Number</u>	<u>Name of Project</u>
72-04	Cottage Grove Expansion
73-06	Chaska Plant Expansion
74-09	Apple Valley Interceptor
75-05	Seneca Coal Handling
77-04	Savage Plant Expansion



## Status of Authorized Personnel

<u>Department/Plant</u>	<u>Proposed 1980</u>	<u>Actual 1979</u>
Administration	16	16
Engineering	37	30
Quality Control	77	73
Construction		
Central Office	3	3
Field Office	68	68
Operations		
Central Office	14	14
Metro Plant	308	279
Seneca Plant	47	47
Blue Lake Plant	30	28
Anoka	3	3
Maple Plain	1	1
Savage	2	2
Cottage Grove	4	4
Chaska	3	3
Orono	1	1
Stillwater	5	5
Rosemount	10	10
So. St. Paul	12	12
Hastings	5	5
Long Lake	1	1
Bayport	1	1
Interceptor System	52	52
Lakeville-Farmington	24	24
Business Services	13	12
Comptroller	<u>15</u>	<u>15</u>
TOTAL	<u>752</u>	<u>709</u>





APENDIX A  
ESTIMATED STRENGTH CHARGES  
1980 BUDGET YEAR

<u>CITY</u>	<u>COMPANY</u>	<u>EST. CHARGE</u>
Arden Hills	Apache Container Corporation	\$ 2,000
	International Paper Co.	3,400
Bayport	Andersen Corporation	500
Blaine	Jet Pak International	5,200
Bloomington	Getchell Steel Treating	1,100
	National School Studios	2,000
	Thermo King Corporation	700
	Ziegler, Inc.	200
Burnsville	Pepsi Cola	3,100
Chaska	American Crystal Sugar	1,300
	Minnetonka, Inc.	800
Columbia Heights	Cargill, Inc.	50,000
	Monarch Co.	400
Eagan	Associated Citrus Ent.	4,000
	Coca-Cola Bottling	9,100
	Contract Beverage	18,000
	Economics Laboratories	100
	Univac	800
Eden Prairie	Fuller Labs	700
Falcon Heights	Mando Photo	100
Farmington	Mid-American Dairymen	5,100
Fridley	Burlington Northern	6,700
	CEA Carter Day	300
	Honeymead Products	11,000
	LaMaur, Inc.	900
	Onan	100
	Totino's Finer Foods	3,600
Golden Valley	Continental-Minnesota	100
	Farwell, Ozmun, Kirk	400
	Lyon Food Products	8,400
	St. Regis Paper	1,200
	Shumacher Wholesale Meats	800
	Tennant Co.	400

<u>CITY</u>	<u>COMPANY</u>	<u>EST. CHARGE</u>
Hastings	Hastings Co-op Creamery Master, Inc.	1,200 12,000
Hopkins	Powells, Inc. Red Owl, Inc. Spicer Heavy Axel	7,500 4,400 800
Lakeville	Grist Mill Menasha Corp. Crown, Cork & Seal	700 1,300 800
Maplewood	Schroeder Milk Co.	500
Minneapolis	Ambassador Sausage American Linen Supply Brooks & Co. Brown Photo Bureau of Engraving Clover Leaf Creamery Coca-Cola Bottling Consolidated Container Ekco Products Ewald Brothers, Inc. Fleischmann Malting H. B. Fuller Grace Lee Products Great Northern Warehouse Gresen Manufacturing Gross Industrial Hoerner Waldorf Corporation Holden Printing Home Brands, Inc. ITT Continental Baking Interplastic Corporation Sunstar Foods Leef Brothers Laundry Midwest Printing Munsingwear Nabisco National Purity Soap Norris Creamery Northwest Engineering Lab Northwest Linen Olfisco, Inc. Packaging Corp. of America Pillsbury Co., Hydro Process. Pillsbury Co. Pillsbury Co. Processed Potatoes Reuben Meat Co. Schweigert Meat Seven Up Bottling	700 2,800 100 600 700 6,000 2,800 2,000 100 500 9,100 3,400 100 100 400 1,400 600 300 1,600 9,200 1,600 20,000 40,000 100 3,000 50,000 400 200 500 4,900 100 4,000 90,000 30,000 2,600 283,000 10,000 2,600 7,600



<u>CITY</u>	<u>COMPANY</u>	<u>EST. CHARGE</u>
	Shasta Beverages	500
	Spencer Kellogg	52,000
	Superior Dairy Fresh Milk	3,400
	Valspar	7,000
	Warden Oil	1,000
	Shafer Metal Recycles	100
Minnetonka	Advance Circuits	600
	Culligan Soft Water	600
	RA Rambug Printing	100
New Brighton	Gordon Rendering	100
	Mengelkoch Co.	400
	Minneapolis Hide & Tallow	1,600
Newport	Dahlen Transport	600
Plymouth	Precision Electrical Manufacturing	100
Richfield	Barrel Finish	700
	North Central Airlines	1,100
Roseville	Boise Cascade	500
	National Packaging	1,300
	Old Dutch Foods	64,000
St. Anthony	Happys Potato Chip	6,200
St. Louis Park	Delmark Co.	1,400
	Food Producers	6,200
	Gopher Motor Rebuilding	100
	Northland Aluminum	2,300
St. Paul	American Bakeries	14,000
	Computype	400
	American Linen Supply	3,300
	Bartusch Packing	14,000
	Buckbee Mears	5,000
	Cultured Foods	1,400
	Ecolotech	200
	H. B. Fuller	5,000
	Multi Clean Products	1,200
	Gillette	5,400
	Gold Medal Beverage	7,500
	Gould	600
	Hoerner Waldorf	1,270,000
	Land O Lakes	1,600
	Marigold Foods	5,500
	Metalcote	100
	3M Company	2,400
	John Morrell & Co.	3,800

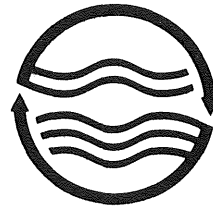
<u>CITY</u>	<u>COMPANY</u>	<u>EST. CHARGE</u>
	Northwest Airlines	16,000
	Olympia Brewing	200,000
	Pearson Candy	10,000
	Rayette	100
	St. Paul Dispatch	1,000
	Schmidt Brewing	60,000
	HM Smith Co.	800
	Tom Sawyer Meats	5,400
	Van Waters & Rogers	100
	Van Waters & Rogers	100
	Webb Publishing	2,200
	West Publishing	3,100
Savage	Cargill	200
Shakopee	Certain-Teed	75,000
	Conklin	5,500
	Fremont Industries	900
	Rahr Malting	18,000
South St. Paul	Iowa Pork	7,600
	Rifkin & Sons	2,400
	Stockyard Wash Rack	10,000
	Sunstar Foods	10,000
	Thru-Blu	140,000
	Twin City Hide	14,000
	Van Hoven	4,000
	Viking Beverage	200
	Waterous Co.	100
White Bear Lake	Kohler Mix Specialties	200
	TOTAL	<hr/> \$2,850,000



# Commission Members and Precincts



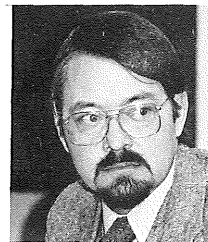
Chairman Salisbury Adams



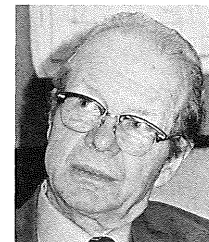
**METROPOLITAN  
WASTE  
CONTROL  
COMMISSION**  
Twin Cities Area



William T. Wallrich



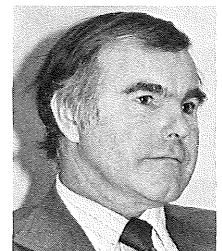
Richard A. Beens



W. Glen Wallace



Carol M. Flynn



Frank A. Horak



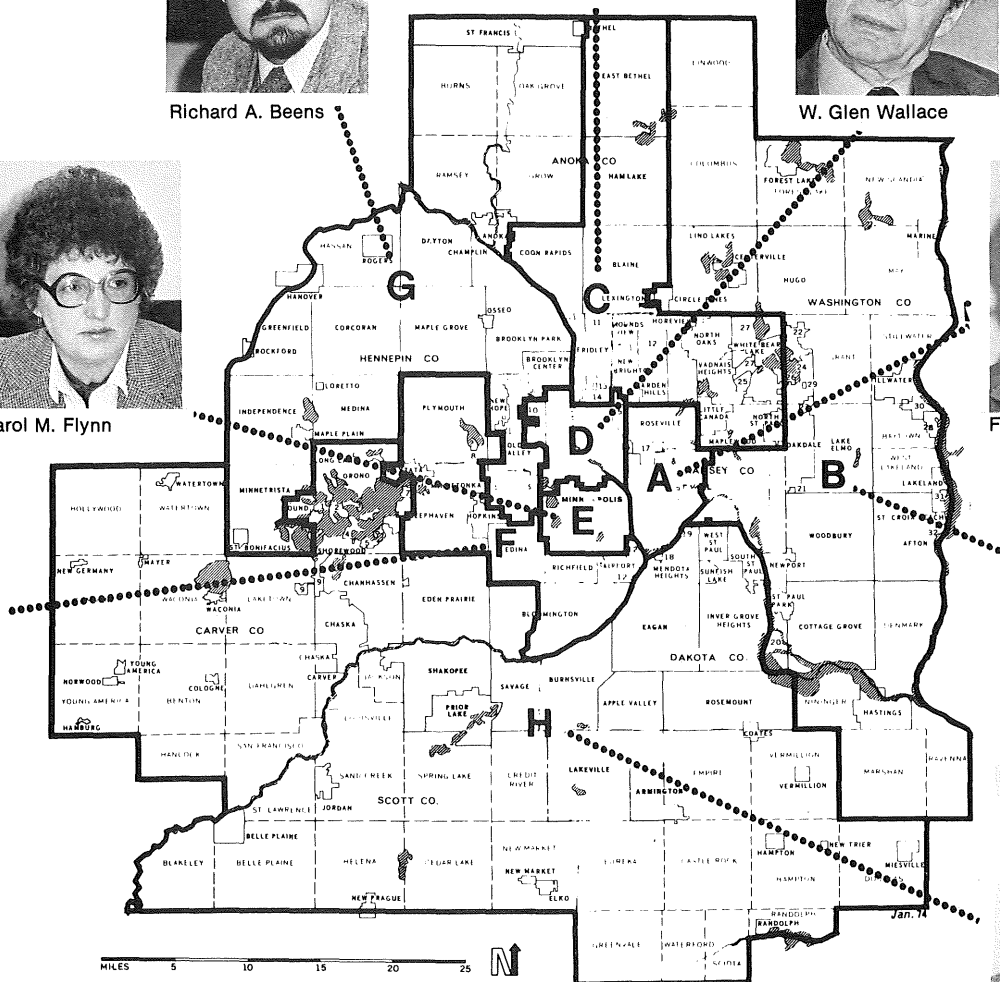
C. Wayne Courtney



Calvin J. Brookman



M. Edward Ramsdell



METROPOLITAN WASTE CONTROL COMMISSION MEMBERS & PRECINCTS  
Salisbury Adams, Chairman

Precinct A: Frank A. Horak	Precinct E: Carol M. Flynn
Precinct B: Calvin J. Brookman	Precinct F: C. Wayne Courtney
Precinct C: William T. Wallrich	Precinct G: Richard A. Beens
Precinct D: W. Glen Wallace	Precinct H: M. Edward Ramsdell