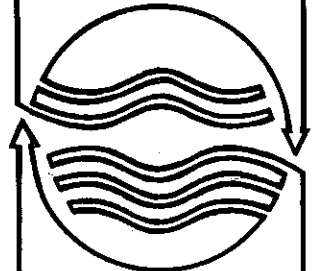


**METROPOLITAN  
WASTE  
CONTROL  
COMMISSION**  
Twin Cities Area



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1987

**METROPOLITAN WASTE CONTROL COMMISSION**

**1987 PROGRAM BUDGET**

**OFFICIALLY APPROVED AUGUST 19, 1986**

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**METROPOLITAN  
WASTE  
CONTROL  
COMMISSION**  
Twin Cities Area

June 17, 1986

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

Dear Chairman Meintsma and Commissioners:

Enclosed for your review and consideration in accordance with Minnesota Statute 473.163, is the Proposed 1987 Program Budget for the Metropolitan Waste Control Commission covering the period January 1 through December 31, 1987.

The procedure followed in the preparation of the Program Budget was initiated by the Program Managers preparing their budget requests based upon their objectives in 1987. These requests were then reviewed with their Department Director. Budgets were reduced by a joint decision of the Department Director and Program Manager, and the total Budget as presented to the Budget Committee totalled approximately a 6.50% increase. The Budget Committee, consisting of the Deputy Chief Administrator, Director of Administrative Services, Director of Quality Control, and the Comptroller, met with each Department Director and Program Manager, conducted two informational workshops with the Commission, and then further reduced the total budget increase to 4.18%. This budget increase will cause rates to go up an average 2.84%, the second lowest in MWCC history.

The total proposed expenditures of \$99,550,000 are detailed and described in 53 program budgets as indicated on Schedules 3 through 3-33. Each program budget indicates a description of the program, performance objectives and total resources required. You will find that program budgets and objectives, which emphasize results, not dollars spent, will tell you a great deal more about our activities and whether they meet community needs and requirements than the traditional line-item budgeting. In addition, this budgeting concept outlines a considerable amount of information in an understandable manner.

Some of the significant items in the Proposed 1987 Budget are as follows:

Sewer Service Charges - Allocation of current use charges to local governments being served by the Metropolitan Disposal System is estimated to cost \$84.69 per 100,000 gallons (per family) based on flow volume of 101,380 million gallons. This is an increase of 2.84% from 1986. Our Metropolitan Area sewer charges continue to be below the median (and also the mean) for the larger Metropolitan Areas of the United States.

Sewer Rates for 1987 Compared to 1986 per 100,000 gallons:

<u>Typical Community</u>	<u>Cost Center</u>	<u>1986 Rate</u>	<u>1987 Rate</u>	<u>Percent Increase</u>
Hastings	T.W.	\$ 71.11	72.39	1.80
Minneapolis	S.A. #1	80.68	82.59	2.37
Coon Rapids	S.A. #2	87.56	90.16	2.97
Anoka	S.A. #3	104.58	109.08	4.30
Deephaven	S.A. #4	97.90	101.38	3.55
Bloomington	S.A. #5	82.45	84.83	2.89
Newport	S.A. #6	78.79	83.96	6.56

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

<u>Cost Center</u>	<u>Current Use %</u>	<u>Current Use Debt Service</u>	<u>Reserve Capacity %</u>	<u>Reserve Cap. Debt Service</u>
T.W.	.787326	\$16,139,886	.212674	\$4,359,737
S.A. #1	.709449	2,100,957	.290551	860,436
S.A. #2	.384918	685,792	.615082	1,095,865
S.A. #3	.366961	231,727	.633039	399,749
S.A. #4	.309946	445,228	.690054	991,242
S.A. #5	.271209	179,397	.728791	482,074
S.A. #6	.192860	111,453	.80714	466,443
<b>TOTAL</b>		<b>\$19,894,440</b>		<b>\$8,655,546</b>

The total Reserve Capacity requirement is \$8,655,546. Based on the assumption that communities will receive rebates for buildings that have paid SAC but have not or will not be connected to a sewer system in the near future, we are proposing that the present SAC charge increase to \$525 except that communities who do not have interceptor service will pay \$310 SAC fee per unit. Any deficit occurring during the year due to reduced construction and housing activities will be made up from the surplus balance in the SAC Fund, which at the end of 1985 was \$27,500,000.

Industrial Strength Charges - This system determines fees to be collected from an estimated 200 companies located in 31 units of government for discharging high strength wastewaters. We are proposing to increase the rates by 2.70% to 7.6 cents per pound of suspended solids above 250 mg/l and 3.8 cents per pound of chemical oxygen demand above 500 mg/l. These strength charge rates result in an estimated revenue of \$4,560,000.

The Honorable Peter E. Meintsma, Chairman  
Members of the Commission  
June 17, 1986  
Page Three

The 1987 Proposed Operating Budget of \$99,550,000 is an increase of \$3,990,121 or 4.18% over the 1986 Budget. This proposed increase is attributed to the following:

(A) Increase in insurance costs	.28%
(B) Permits required by MPCA	.26%
(C) Additional Debt Service Cost	1.97%
(D) Ash Disposal	.36%
(E) All other costs	<u>1.31%</u>
Total Increase	<u>4.18%</u>

#### Capital Budget

The Capital Improvements Program contains 68 projects for which \$387,561,284 has been appropriated during the past several years.

It is anticipated that seven (7) of these will be closed out during the current year and the remaining authorized projects will require total expenditures of \$169,013,242. Of this amount, \$43,772,508 has been encumbered and the balance of \$125,240,734 will be encumbered during the next years. A detailed financial status of these projects is shown on Schedule 11.

Revenues to finance these projects include certified federal grants (net) \$24,333,541; certified state grants \$19,462,568; investment earnings \$1,300,000; due from local governments \$60,000; and miscellaneous income of \$50,000, and fund balance as of December 31, 1985 of \$15,416,164, resulting in total resources of \$60,622,273. Proposed expenditures for previously approved projects total \$169,013,242 which results in a deficit fund balance of \$109,934,969, which will require sales of bonds to completely finance these projects. Over one-half of these expenditures will occur after 1987. To finance the funds required in 1987, bond sales will be required in 1987 totalling approximately \$42 million.

The Honorable Peter E. Meinstma, Chairman  
Members of the Commission  
June 17, 1986  
Page Four

In submitting the 1987 Program Budget to the Commission, I wish to point out that many members of the staff have contributed significantly to the preparation of the budget. Their expertise experience and judgment have been exceedingly valuable. The task, at this point, is for the Commission to review the objectives and programs contained in this Budget and thereafter in subsequent public meetings to hear and consider input from the Council, local government officials and other interested parties. The staff, as usual, will provide you our complete cooperation and assistance in the review process.

Very truly yours,

A handwritten signature in cursive script, reading "Louis J. Breimhurst". The signature is written in dark ink and is positioned above the printed name and title.

Louis J. Breimhurst  
Chief Administrator

LJB:RLB:pt



# GENERAL FUND - REVENUES & EXPENDITURES

	<u>Budget 1987</u>	<u>Budget 1986</u>	<u>Actual 1985</u>
<b><u>ESTIMATED REVENUES:</u></b>			
Sewer Service Charges-Communities	\$85,859,454	\$82,385,675	\$76,419,257
Industrial Strength	4,560,000	4,440,000	4,372,333
Service Availability Charges	8,655,546	8,124,204	7,443,160
Investment Earnings	375,000	525,000	946,480
Industrial Discharge Permits	25,000	10,000	30,348
Other	<u>75,000</u>	<u>75,000</u>	<u>77,523</u>
<b>TOTAL ESTIMATED REVENUES</b>	<b><u>\$99,550,000</u></b>	<b><u>\$95,559,879</u></b>	<b><u>\$89,289,101</u></b>

## **ESTIMATED EXPENDITURES:**

Program	\$66,836,523	\$64,729,548	\$ 55,776,167
Debt Service	28,549,986	26,663,920	24,722,352
Acquisition Costs	<u>4,163,491</u>	<u>4,166,411</u>	<u>4,063,411</u>
<b>TOTAL ESTIMATED EXPENDITURES</b>	<b><u>\$99,550,000</u></b>	<b><u>\$95,559,879</u></b>	<b><u>\$84,561,930</u></b>
Transfer to SAC Reserve			\$ 3,115,161
Due to Local Government			<u>4,727,171</u>
<b>GRAND TOTAL</b>			<b><u>\$92,404,262</u></b>

## 1987 PROGRAMS

### ADMINISTRATION AND MANAGEMENT (001)

#### Description:

This program provides overall leadership and direction to all MWCC staff through the Office of the Chief Administrator. In addition, internal auditing of selected activities is conducted. Two major costs of MWCC operations, central office rent and payments to the Metropolitan Council for staff services, are included in this program.

#### Performance Criteria:

The overall objective is to assure that MWCC policies are carried out and objectives are met.

1. Maintain operational efficiency of all Commission water pollution control facilities within effluent and water quality standards.
2. Fulfill all statutory responsibilities in an environmentally sensitive and economically sound manner that will continue to enhance water quality and benefit systems users.

Renewal emphasis and priority will include the following:

1. Ensuring that adequate resources are properly allocated.
2. Making substantial progress toward achieving parity for women and minorities in our work force.
3. Creating employee alignment on, and commitment to, the MWCC purpose.
4. Establishing a strong and effective Planning Department.

Resources Required: \$817,683

Work Hours Required: 10,200

### COMMISSION ADMINISTRATION (002)

#### Description:

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

#### Performance Criteria:

Major emphasis in 1987 include:

1. Preparing a framework for long-range policy planning.
2. Promoting an aggressive affirmative action policy.
3. Improving financial management policy.
4. Securing legislative approval of a major change in the rate setting system.
5. Increasing public visibility of the Commission and its programs.

Resources Required: \$230,853

Work Hours Required: 2,700

### LEGAL SERVICES (003)

#### Description:

1. To provide general in-house legal services to Commission and staff.
2. Provide in-house services for Commission.
3. Attend Commission and committee meetings to provide legal advice to Commission.
4. Arrange for and supervise contracted out-legal services provided to the Commission.

Performance Criteria:

1. To improve response time for routine legal services requests from Commission staff. Measurement: survey department heads at end of 1987 to determine if they feel response time has been decreased over 1986.
2. To acquire increased knowledge and expertise in the environmental law area, specifically hazardous waste regulation, superfund, and pre-treatment. Measurement: survey staff individuals involved in these areas to determine if response to inquiries has been prompt and useful.

Resources Required: \$154,865

Work Hours Required: 5,400

PUBLIC AND COMMUNITY RELATIONS (004)

Description:

The Office of the Director of Public and Community Relations supports the goals of the Metropolitan Waste Control Commission by conducting a comprehensive information and communication program about the MWCC's activities for all MWCC audiences — commissioners, employees, the media, governmental organizations, plus local officials and the public in the 103 communities of the Metropolitan Area.

Objectives:

1. To enhance the MWCC's public image by: publishing an annual report, publishing the LINK (4 issues), writing and distributing news releases (12), placing significant stories about the Commission in the media (4), and obtaining speaking engagements for top management (3).
2. To improve communications between MWCC and the communities it serves by: distributing MWCC's external publications to mayors and city managers in 103 communities, and holding gatherings for community leaders and MWCC officials to discuss their shared concerns, including the budget (5 or more).

3. To improve internal communications at MWCC by regularly publishing THE MWCC CONNECTION (6 issues), and by taking steps in the newsletter to develop employee alignment on the Commission's purpose and objectives, especially affirmative action and productivity.

Resources Required: \$249,714

Work Hours Required: 6,300

OFFICE OF HEALTH AND SAFETY (005)

Description:

Maintains safe and healthy work environment for all employees through site audits of treatment plants, lift stations, meter vaults, and Commission projects to ensure compliance with safety policies and OSHA regulations.

Manages a loss control system through trend analysis of injury reports to reduce frequency and loss time rates.

Serves special needs of program managers including analysis of air contaminants, noise levels, construction design, work procedures, and policy interpretations.

Provides all employees with safety training and information relative to on-the-job training and home, health and safety issues.

Performance Criteria:

1. To comply with site audits schedules and to issue an audit report to site managers within 7 days after a site audit is conducted in 1987. Performance will be measured by meeting site audit schedules and by documenting responses to site managers to verify conformance to the established 7-day reporting period.
2. To work towards a 5% reduction in accident frequency, accident severity rates, and accident costs in 1987. Performance will be measured by reviewing accident statistics and accident costs to verify reductions.

## OFFICE OF HEALTH AND SAFETY (005) --(Cont.)

### Performance Criteria: - (Cont.)

3. To provide accident statistics and accident costs quarterly to program managers/directors. These reports will aid in the effort to reduce accidents and accident costs in 1987. Performance will be measured by the issuance of these reports on a quarterly basis.
4. To respond within 10 days to requests made by program managers/employees for information or assistance on topics or problems related to health and safety during 1987. Performance will be measured by comparing the number of responses made to the number of requests made.

	<u>1985</u>	<u>1986</u>	<u>1987</u>
% Compliance	33	95	97
% Towards Desired Reduction	N/A	60	95
No. of Quarterly Reports	N/A	2	4
% Requests Answered	90	92	95

Resources Required: \$980,798

Work Hours Required: 9,000

### PLANNING DEPARTMENT (006)

#### Description:

The program provides supervision of the broad-scale planning activities of the Commission to help assure that facilities continue to meet environmental standards and user needs, and that programs and policies are in place for efficient and cost-effective operations.

#### Resources Required:

1. To manage the Planning Department to accomplish departmental program objectives within budget.
2. To establish long-range planning to produce a revised Development Program and frameworks for financial and strategic planning by December, 1987.
3. To maintain continuous and effective liaison with the Metropolitan Council such that all critical time schedules are met.

4. To complete the recruitment of staff for the department.
5. To establish a program for professional development within the department.
6. To establish a plan by December, 1987 to help in maximizing construction grants and seeking alternative funding sources.

Resources Required: \$124,041

Work Hours Required: 2,560

### CAPITAL PROJECTS PLANNING (007)

#### Description:

Budget through coordinating, preparing, and processing the Commission's Implementation Plan (formerly Development Program); by coordinating, conducting, or managing studies to update or review facility planning for Commission facilities; by reviewing and assessing the Commission's capital improvements program implementation; and by coordinating with the Metropolitan Council in providing information and studies for formulation of revisions or amendments to the MRMDG Policy Plan, Implementation Plan, or Capital Budget.

#### Performance Criteria:

1. To coordinate, prepare, and process the Commission's Implementation Plan in accordance with the Metropolitan Council's Policy Plan and Minnesota Statutes.
2. To develop by March 15, 1987 all facility planning projects necessary for inclusion in the Commission's 1988 Capital Budget.
3. To coordinate, review, comment on, and/or provide project management of 10 facility planning studies in the Commission's 1987 Capital Budget.
4. To coordinate, develop, and/or prepare necessary capital planning information and studies for revisions and amendments to the Metropolitan Council's WRMDG Policy Plan.

## CAPITAL PROJECTS PLANNING (007) - (Cont.)

### Performance Criteria: - (Cont.)

5. To review and/or update in nine (9) studies the existing facility plans for wastewater treatment plants, interceptor system facilities, residual solids management, and water quality considerations.
6. To review and comment on 20 studies, design reports, contract documents, R & D reports, and other matters of a capital planning nature done by other departments.
7. Provide 80 hours of applicable training for personnel.

	<u>1985</u>	<u>1986</u>	<u>1987</u>
Compliance with time schedules	N/A	N/A	100
Time Schedule Met	N/A	N/A	Yes
No. of projects managed	N/A	N/A	17
% timeliness of info.	N/A	N/A	95
No. of studies completed	N/A	N/A	15
Hrs. training/employee	N/A	N/A	80

Resources Required: \$50,564

Work Hours Required: 2,560

## MUNICIPAL SERVICES PLANNING (008)

### Description:

The program involves the interaction of the Commission with municipalities served as follows: The review and approval of comprehensive sewer plans and sanitary sewer improvements as required by State Statutes; the determination and assignment of estimated and actual wastewater flows by community, interceptor and treatment facility; and Service Availability Charge assignments as part

of the Cost Allocation program. The Program also reviews projects proposed for the Metropolitan Area as to whether their construction or use will impact the Metropolitan Disposal System.

### Performance Criteria:

1. To review and recommend for approval comprehensive sewer plans (csp's) in a timely manner and revise and approve within one week, 90% of the approximately 250 sewer extensions received each year.
2. To provide review and comment on 90% of the approximately 200 Metropolitan Council referrals within the time period specified in the request.
3. To furnish oral and/or written Service Availability Charge (SAC) assignments to the communities on 90% of the requests within one week.
4. To provide an estimate of all community wastewater flows for inclusion in the proposed 1988 Budget and provide assignments of actual flows for the 1986 Final Cost Allocation in early February.
5. To review and evaluate program work product and personnel achievement.

	<u>1987</u>
% SAC assignments on time	90
% Referral responses on time	90
% Sewer extensions on time	90

Resources Required: \$213,894

Work Hours Required: 9,500

## SPECIAL PROJECTS (009)

### Description:

The special projects program of the Planning Department provides for coordinated planning studies of non-routine projects dealing with new concepts, innovative technologies or other special projects requiring inter-departmental coordination. The special projects program may affect each of the MWCC departments depending upon the subject of the study.

## SPECIAL PROJECTS (009) - (Cont.)

### Performance Criteria:

1. To perform studies of projects/ideas and prepare timely documentation thereon in the form of memoranda and reports to inter and intra department personnel.
2. To perform field studies and applications as required and to make timely reports thereon.
3. To coordinate interdepartmental work initiating projects through appropriate agenda memoranda, reporting on progress and preparing appropriate interim and final reports.
4. To review Professional Journals and Publications and establish current topical files on ideas and concepts which may be of use in the efficient management of the MWCC.

Resources Required: \$76,363

Work Hours Required: 2,080

## COMPREHENSIVE PLANNING (010)

### Description:

The program participants in planning coordination and liaison with the Metropolitan Council; prepares study and research descriptions as guides to detailing study designs for financial, program and strategic planning; administers the Construction Grants Program and researches mapping and inventory techniques. These activities affect the process of management at the Commission and the users of the service.

### Performance Criteria:

1. Provide Management and Administration of programs and produce quarterly reports documenting activity.
2. Prepare study description of Financial Planning to be undertaken and produce a report by November, 1987.

3. Prepare study descriptions to conduct Program Analysis to unify inter-departmental activities, and produce such study report by November, 1987.
4. Produce process description to undertake strategic planning as an organizational planning tool and complete and report by November, 1987.
5. Prepare study descriptions to pursue additional sources of financial assistance and to streamline administrative processes.
6. Organize, implement and complete mapping and inventory preparation of 25% of the Commission's interceptor system by November, 1987.

Resources Required: \$192,601

Work Hours Required: 5,640

## QUALITY CONTROL ADMINISTRATION (011)

### Description:

The purpose of the Quality Control Administration Program is to plan, direct and coordinate the activities of the Quality Control Department in order to achieve department and Commission objectives. The program is staffed by six full or part-time staff involved in managing or in providing clerical and data processing support.

### Performance Criteria:

1. Provide direction and coordination to departmental managers for accomplishing program and budgetary objectives.
2. Coordinate departmental objectives with other departments, the Chief Administrator, and the Commission to achieve a common purpose.
3. Prepare the annual budget request by April 1 and the annual department report by June 1.

## QUALITY CONTROL ADMINISTRATION (011) -(Cont.)

### Performance Criteria: (Cont.)

4. Review department personnel records annually, and conduct manager reviews quarterly.
5. Provide clerical, statistical, and data processing support to department programs.
6. Provide training opportunities to department staff to promote career development and participation in professional organizations.

	<u>Actual</u> <u>1985</u>	<u>Proj.</u> <u>1986</u>	<u>Prop.</u> <u>1987</u>
1. % budget expended		100	100
% object. achieved	90	95	98
# prog. mgr. mtgs.	9	12	12
2. # staff mtgs. held	NA	34	36
# director mtgs.			
attended	NA	11	12
# Commission Mtgs.			
represented	10	11	12
3. Date budget request			
submitted	4/15	4/5	4/1
Date annual report			
completed	7/1	7/1	6/1
4. % personnel records			
reviewed	NA	80	95
% personnel mgr.			
reviews conducted	NA	50	95
5. % avail. to depart-			
ment	NA	60	90
6. # training exper.	NA	70	100
% of staff partic.			
in training exper.	NA	40	60

Resources Required: \$123,355

Work Hours Required: 4,086

## INDUSTRIAL WASTES (012)

### Description:

The purpose of the Industrial Wastes Program is to control industrial users of

the MDS through the permitting, monitoring and enforcement functions to insure the protection of MWOC operations and personnel, the public, and the environment; respond as necessary to discharge-related problems; and carry out regulatory requirements and other program activities.

The current program has 19 full-time staff, plus support, at two locations; administers approximately 625 Industrial Discharge Permits (which involve over 1300 routine reports), conducts necessary enforcement actions, monitors and/or inspects over 200 industrial users per year, responds to over 60 treatment plant, collection system and spill problems per year, and administers Strength Charges for 250 permittees which will total over \$4.4 million for 1986.

### Performance Criteria:

1. Manage, plan and coordinate the activities of the Industrial Wastes Program.
2. Administer the Industrial Discharge Permits for the 625 current permittees, and issue permits for all newly identified significant industrial users of the MDS within 60 days of application receipt.
3. Enforce the Waste Discharge Rules for the MDS in a consistent, equitable and timely manner.
4. Comply with and/or implement all necessary MPCA/EPA requirements related to the Industrial Wastes Program.
5. Inspect 275 industrial users.
6. Conduct 200 Industrial User monitoring projects.
7. Conduct 60 treatment plant, collection system and spill investigations.
8. Administer the Strength Discharge System to insure that accurate assessments are made for the 250 permittees involved.

# INDUSTRIAL WASTES (012) - (Cont.)

## Performance Criteria: (Cont.)

9. Maintain and update the industrial waste data base on a quarterly basis, and provide data and information as requested.
10. Attend conferences, seminars and training to enhance staff understanding and performance of program activities.

	Actual 1985	Proj. 1986	Prop. 1987
1. % of budget spent	101	100	100
% of prog. object. achieved	*	*	*
2. % of permits issued within 60 days	*	50	50
% of permits renewed before expiration	(90)	98	100
3. # Notices of Violat.	145	190	240
# of stip. agree. in effect	41	50	60
# of litig. actions commenced	0	2	2
4. Req'd reports submit. on time	YES	YES	YES
% of Categorical Pretreatment Stand. implemented properly	(70)	85	95
% other require. set	*	*	*
5. # of indust. users inspected	235	205	275
6. # of monitor. proj. conducted	166	160	200
7. # of investigations conducted	65	60	60
8. Amt. of strength charges billed (in millions of dollars)	4.67	4.44	NA
% of proj. actually billed	115	100	100
# of unresolved dis- crepancies	*	*	*
9. Data base updated quarterly	YES	YES	YES
Field monit. data entered	NO	PARTIAL	YES

	ACTUAL 1985	PROJ 1986	PROP 1987
10. Conf./Seminars:			
Local	12	11	12
National	4	3	2
Other	*	*	20

\* New measurement criteria, data not currently available. Actual 1985 items in parentheses are estimates.

Resources Required: \$860,717

Work Hours Required: 42,500

## RESEARCH AND DEVELOPMENT (013)

### Description:

The purpose of this program is to identify solutions to existing problems facing MWOC and to identify future problem areas and initiate data collection and analysis tasks so that informed decisions may be made. At the present time, program staff consists of 6 full-time positions and three major projects are being conducted as follows: (1) Evaluation of oxygen transfer efficiency - quantification of O<sub>2</sub> transfer efficiency for both coarse and fine bubble aeration systems at Metro. (2) H<sub>2</sub>S and odor control using compost reactors - identification of mechanisms of H<sub>2</sub>S removal and development of design data for reactor to treat RBS offgas. (3) Incinerator ash characterization - evaluation of physical and chemical characteristics of Metro ash that impact disposal and potential use. Each of the above has a potential to substantially impact the cost of operation at Metro and other facilities. In addition, four smaller projects also have a potential to decrease the cost of meeting current standards as follows. (4) Anaerobic digestion of Zimpro return liquor - evaluate alternative to RBS process at Metro. (5) DO control at Metro - eliminate current impediments to automatic DO control in Metro aeration basins. (6) Odor characterization - develop methods for obtaining precise measure of odor strength. (7) Oxygen bioassay - conduct initial experiments necessary to consider river aeration as an alternative to tertiary treatment at Blue Lake and Seneca.



## RESEARCH AND DEVELOPMENT (013) - (Cont.)

### Performance Criteria:

1. Fund external research projects to fulfill MWCC information needs in the areas of flow measurement in sewers and residuals disposal.
2. Upgrade the technical competence of program staff by reviewing the research activities of other environmental agencies by means of attending conferences, classes, and symposia as well as by reading research documents and actively participating in professional organizations.
3. Characterize the emissions from Metro and Seneca incinerators by planning and initiating comprehensive analyses of the gas, liquid, and solid phase discharges.
4. Develop a strategy to improve the sludge settling characteristics at Metro east, Metro west, Blue Lake, and Seneca by identifying and characterizing the filamentous microorganisms present and relating these data to environmental conditions in the aeration basins.
5. Plan and initiate a pilot scale quality assurance reporting program which will provide laboratory data users with precision and accuracy information on a routine basis.
6. Continue investigation of ash utilization methods which were identified as being potentially cost effective, long term alternatives to ash land filling as per MWCC Resolution 86-87.
7. Evaluate, on a plant scale, the use of an organism selector to control bulking at Metro by designing the minor modifications required and by initiating data collection after modifications have been completed by others.
8. Complete the task of collecting oxygen transfer and diffuser fouling data and prepare a comprehensive project report which will include a recommendation on the future use of fine bubble aeration at Metro.
9. Prepare a comprehensive report, describing the pilot scale evaluation of compost reactors to remove  $H_2S$  and odor removal at Metro.
10. Based on expected results of 1986 bench scale study, construct and place into operation pilot scale (100 gal. volume) anaerobic reactor(s) to treat the Zimpro return liquor generated at Metro.
11. Based on the expected 1986 accomplishments of the dissolved oxygen control task force, assist the Operations Department in implementing a dissolved oxygen control strategy for all Metro aeration basins.
12. Prepare memo reports summarizing special short term projects as requested.

Resources Required: \$1,004,218

Work Hours Required: 18,932

## WATER QUALITY MONITORING AND ANALYSIS (014)

### Description:

The Water Quality Monitoring and Analysis Division measures the effectiveness of treatment plant operations by documenting compliance with standards and detecting trends in the quality of area receiving waters, by conducting toxicity testing of plant effluents, and by monitoring ground-water in MWCC wells. The Division also provides support for facility planning and regional management activities. The Division, staffed by four environmental scientists, six technicians, and a part-time manager who reports to the Director of the Quality Control Department, replies

WATER QUALITY MONITORING AND ANALYSIS (014)  
(Cont.)

Description: (Cont.)

additionally on seasonal temporaries, staff in the trades and from other agencies. Staff interact primarily with other Quality Control programs, the Planning Department and several federal and state agencies. Tasks performed include field collections and surveys, data interpretations and reporting, and mathematical modeling.

Performance Criteria:

1. Coordinate the water quality program to ensure that cost-effective, quality services that measure the effectiveness of treatment plant operations and that provide facility planning support are achieved by using generally recognized field, laboratory, and data management techniques documented in a procedures manual, by remaining within budget, and by attending water quality related conferences.
2. Monitor the quality of area rivers to document compliance with standards and to detect trends in water quality, by:
  - a) Maintaining continuous, automatic monitors at 8 stations and 4 parameters;
  - b) Collecting and processing 820 conventional water samples, from 22 stations for up to 32 parameters by a hierarchical schedule.
  - c) Collecting and processing 150 bi-monthly water, and annual sediment and fish samples from up to 14 sites for analysis of toxics.
  - d) Collecting and processing 140 annual samples for analysis of aquatic organisms and up to 14 sites.
3. Conduct toxicity testing of MWOC plant effluents to determine compliance with state regulations against acute toxicity and to identify likely causes of toxicity by performing 13 screening

tests, 3 plant flow-thru and static tests, and 2 ambient tests.

4. Collect and process 126 groundwater samples from 28 Commission wells to comply with MPCA permit requirements.
5. Provide support for facilities planning and regional management activities by conducting special studies, including:
  - a) Participation in 1987 water quality standards revision process by preparing testimony for public hearing.
  - b) Participation in 1987 Metro Plant permit process by finalizing waste-load allocation and river assessment documents and preparing testimony.
  - c) Collection and processing of semi-monthly samples from area lakes per Metro Council cooperative agreement.
  - d) Conducting synoptic field surveys, as requested, to identify sources of pollution problems, assist other departments, or to comply with permit requirements.
6. Prepare reports, using computer techniques, to comply with permit requirements and to provide information to MWOC planning and operations groups, and to regulatory, consulting, and citizen groups, including:
  - a) Automatic monitor reports by the 20th of each month.
  - b) Quarterly and annual groundwater monitoring reports by the end of the second month of each quarter;
  - c) Annual report of river water quality by November 1.
  - d) Annual report of effluent toxicities by November 1.
  - e) Annual report of program activities by November 1.

**WATER QUALITY MONITORING & ANALYSIS (014)**  
(Continued)

**Performance Criteria: (Cont.)**

f) Special studies, reports as needed.				1985	1986	1987	
	1985	1986	1987				
1a) Status of proced. manual	NA	Prel. Draft	Manual update	6b) Date of complet. of groundwater reports to satis. of Dept. Dir.	NA	2/28; 5/31; 8/31; 11/30	2/28 5/1 8/31 11/30
1b) % Budget expended	99	<100	<100	6c) Date of complet. of annual river reports to satisf. of Dept. Dir.	11/29	10/1	11/1
1c) Eval. of conferences attended	NA	NA	Writ. memos shared	6d) Date of complet. of annual toxicity report to satisf. of Dept. Dir.	Not Compl.	10/1	11/1
2a) % Automonitor days reporting	76	100	80	6e) Date of complet. of annual prog. activ. report	3/15	3/1	3/1
2b) % Sched. convent. samples collected	95	100	96	6f) Special studies re- port issued with content to satisf. of requestor	NA	NA	Panel Feed- back
2c) % Sched. toxics samples collected	100	100	100				
2d) % Sched. biota samples collected	88	100	90				
3. % Sched. bioassays completed	>100	100	100				
4. % Sched. groundwater samples collected	NA	100	98				
5a) Testimony prepared as necessary for stand. revisions hearing to satisfy MWCC attorney	NA	NA	Test. sub- mitted	<u>Resources Required:</u>	\$542,063		
5b) Testim. prepared as necessary for Metro permit hearing to satisfy MWCC attorney	NA	NA	Test. sub- mitted	<u>Work Hours Required:</u>	22,845		
5c) Lakes contract terms completed to satisf. Lakes of Met Council within Sur. specified time.	No.	No.	MWCC reimb. for serv.	<u>LABORATORY SERVICES</u>	(015)		
5d) % requested surveys conducted to safis. of requestor	NA	NA	NA	<u>Description:</u>			
6a) Day of mo. automonitor reports compl. to satisf. of Dept. Dir.	20th	20th	20th	The Laboratory Service program exists to provide required and requested analytical laboratory services to other Commission programs to aid the Commission in determining and achieving compliance with permit standards. In addition, the program staff performs sample pick-up and collection tasks and provides technical input to other programs. To accomplish these functions, the program utilizes a staff of forty and performs approximately 180,000 analyses annually.			

# LABORATORY SERVICES (015) - (Cont.)

## Performance Criteria:

1. To demonstrate the degree of Commission compliance with permit discharge limits and to assist other Commission programs in achieving discharge limits by providing sample collection and laboratory analyses within requested turnaround times as required by regulatory permits or requested by other programs.			
2. To assure users confidence in data by demonstrating use of regulatory certified methods, providing data quality indicators, using error-free reporting procedures, and generating analytical results within established holding times.			
3. To maintain an efficient utilization of allocated resources and a high level of worker productivity as measured by comparison with historical indices: cost per analysis and analyses per staff year.			
4. To annually inform the Commission about treatment plant performance. This information will include details about permit compliance and discharge characteristics. This information will be presented in a two part report: the first part will be a summary of the data, to be presented at the April Commission meeting; the second part will be a data compilation for each department plant to be available at the same time.			
5. To maintain laboratory analytical capabilities at a level sufficient to meet new analytical needs of requestors by sending the staff to training programs and conducting method development studies and literature surveys.			
6. To maintain employee safety awareness and a low level of loss time accidents by participation on appropriate safety committees and attendance at monthly safety meetings of all program staff.			
7. To assist other programs in designing and conducting special studies requiring chemical or biological data by providing professional staff time.			
	Actual 1985	Proj. 1986	Proj. 1987
% of requested/req'd. lab. anal. compl.	NA	NA	97
Analy. turn-around serv. rating from other prog. (0-100)	NA	NA	100
% of NPDES permit samples collected	99	99	99
Sampling serv. rating from other prog. (0-100)	NA	NA	90
% of analy. methods in compliance	NA	NA	99
% qual. indices supplied	NA	NA	95
% of questioned data found to be error-free	NA	NA	95
% of analyses done within estab. holding times	NA	NA	99.5
% monthly NPDES reports not reissued	NA	NA	98
% historical cost	NA	NA	95
% average historical anal./staff years	NA	NA	90
Date report submitted	NA	NA	4/1
# of train. prog. attended	NA	NA	21
Analy. capabil. serv. rating from other prog. (1-100)	NA	NA	90
# Safety commit. mtgs. attended	NA	NA	11
% of empl. attending required meetings	NA	NA	90

## LABORATORY SERVICES (015) - (Cont.)

### Performance Criteria: (Cont.)

	Actual 1985	Proj. 1986	Proj. 1987
# of loss-time accidents	NA	NA	2
Service rating from other programs	NA	NA	90

Resources Required: \$1,490,329

Work Hours Required: 71,960

## AIR QUALITY MONITORING (016)

### Description:

The Air Quality Monitoring Program exists to provide required and requested air quality and gaseous emission monitoring services to other Commission programs to aid the Commission in determining and achieving compliance with air quality and gaseous emission standards. In addition, the program provides technical input to other Commission programs. To accomplish these functions, the program employs a staff of four and performs approximately 1,500 tests annually.

### Performance Criteria:

1. To determine the degree of Commission compliance with air quality and gaseous emission permit discharge limits and to assist other Commission programs in achieving discharge limits by providing stack sampling, odor panel testing, H<sub>2</sub>S monitoring, opacity monitoring, instrument calibration, and coordination of contracted analytical services as required by regulatory permits or requested by other programs.
2. To maintain an efficient utilization of allocated resources and a high level of worker productivity as indicated by achieving projected goals for completed work within the 1987 budget.

3. To maintain program capabilities at levels adequate to meet services requested by other programs by sending staff to training programs and conducting method development studies and literature reviews.
4. To assist other programs in designing and conducting special studies relating to air pollution control by providing professional staff time.

	Actual 1985	Proj. 1986	Proj. 1986
% requested and required stack tests conducted	74	96	95
% requested and required H <sub>2</sub> S monitor. tests cond.	100	100	100
% requested and required odor tests conducted	33	95	95
% requested and required opacity tests conducted	47	95	95
% of requested projects conducted	96	100	95
% of requested and required opacity monitor calib. tests conducted	96	95	95
% projected budget expended	NA	NA	100
Serv. rating of monitor. capabilities from other prog. (0-100)	NA	NA	90
General service rating from other programs (0-100)	NA	NA	90

Resources Required: \$224,082

Work Hours Required: 7,750

## PERMITS ADMINISTRATION AND MONITORING (017)

### Description:

The Permits Administration and Monitoring Division administers and monitors all permits for air emissions, effluent discharges, and residual solids generated by the Commission, in an environmentally, technically, financially, and legally sound manner. The Division, staffed by two environmental scientists and a part-time manager who reports to the Director of the Quality Control Department, interacts with

PERMITS ADMINISTRATION AND MONITORING (017)  
(Cont.)

Description: (Cont.)

all segments of the Commission, and represents the Commission's interests before regulatory agencies on permitting issues. Tasks performed include: (1) applying for, negotiating, and tracking compliance of air permits, NPDES permits, ash landfill and utilization permits, and sludge landspreading site and facility permits; (2) processing miscellaneous hazardous waste forms and requirements; (3) coordinating permit requirements with the Quality Control Department monitoring divisions, and the Operations, Engineering/Construction, and Planning Department; and (4) monitoring federal and state publications as they relate to permitting matters.

Performance Criteria:

1. Coordinate the permits program to ensure cost-effective services from an informed staff by remaining within budget, by conducting monthly staff meetings to define priorities and exchange information, by attending public meetings, and by coordinating public hearing comments on permits and related issues.
2. Avoid penalties and ensure timely payment of regulatory fees by maintaining an inventory of permit fees due and paid.
3. Obtain necessary air, water, and residual solids permits by:
  - a) Completing applications, 6 months prior to permit expiration or as specified by the regulatory agency, that contain accurate information obtained by conferring with the Quality Control Department monitoring divisions, and the Operations, Engineering/Construction, and Planning Departments.
  - b) Negotiate with regulatory agencies the terms and conditions of permits and consent decrees, acceptable to the Chief Administrator, that

minimize costs to the MWOC, optimize environmental benefits and operating flexibility, include innovative approaches, and minimize legal risks.

4. Ensure timely transmittal of reports and correspondence to regulatory agencies by:
  - a) Maintaining a computerized tracking system of permit terms and conditions that are reviewed monthly.
  - b) Apprising the various Commission departments of their responsibilities under the permit.
  - c) Assisting the responsible departments, as needed and feasible, with implementation of and compliance with permit requirements.
5. Reduce the risk of regulatory sanctions and detect systemic non-compliance problems by:
  - a) Visiting treatment plants monthly and making monthly review of files related to plant performance.
  - b) Conducting site inspections of active landspreading sites and facilities during the sludge application season.
  - c) Meeting at least monthly with the various departments to keep current on technical aspects of permits.
  - d) Developing computerized capabilities for detecting trends in data that warn of impending exceedances.
6. Ensure compliance with residual solids management rules by collecting and having analyzed soil and crop samples for regulated constituents from sludge landspreading sites and facilities, at least quarterly during the application/harvest seasons.

PERMITS ADMINISTRATION AND MONITORING (017)  
(Cont.)

Performance Criteria: (Cont.)

7. Ensure compliance with requirements of rules relating toxic and hazardous substances by transmitting, for example, inventories and manifest forms completed by operating and monitoring groups, with no notice received of failure to comply.
8. Enhance permit negotiate positions and provide support for facility planning by conducting weekly reviews of selected federal and state publications such as the environmental Reporter, State Register, Minn. Rules, CFR, and maintaining a log of revelent comments to be shared with other Commission Programs.

Objective-Criteria:

- 1a) Percent budget expended

1985 = N/A  
1986 = <100  
1987 = <100

- b) Percent monthly meetings held

1985 = NA  
1986 = 50  
1987 = 100

- c) Evaluation of conferences/public meetings attended

1985 = NA  
1986 = Written Memos  
1987 = Written Memos Shared

- d) Comments represent MWOC consensus

1985 = NA  
1986 = Panel  
1987 = Panel Feedback

2. Percent fees incurred penalty

1985 = NA  
1986 = 0  
1987 = 0

- 3a) Percent permits obtained on time, with no substantial errors:

1985 = NA  
1986 = 100  
1987 = 100

- b) Percent permits negotiated acceptable to Chief Administrator

1985 = NA  
1986 = 100  
1987 = 100

- 4a) Percent months data base reviewed and updated

1985 = NA  
1986 = 100  
1987 = 100

- b) Log kept of meetings/memos for apprising groups of permit responsibilities

1985 = NA  
1986 = Log Kept  
1987 = Log Kept

- c) % Permit requirements untimely submitted

1985 = NA  
1986 = <10  
1987 = <5

- 5a) Percent treatment plants visited monthly and plant performance files reviewed

1985 = NA  
1986 = 50  
1987 = 100

- b) Percent active landspreading sites and facilities inspected

1985 = NA  
1986 = 75  
1987 = 100

- c) Log kept of monthly technical informational meetings

1985 = Na  
1986 = Log Kept  
1987 = Log Kept

PERMITS ADMINISTRATION AND MONITORING (017)  
(Cont.)

Objective-Criteria: (Cont.)

5d) Progress on computer permit exceedance alarm system

1985 = NA  
1986 = Research computer systems  
1987 = Implement preliminary software

6) Percent soil and crop landspreading samples collected vs scheduled

1985 = NA  
1986 = 98  
1987 = 98

7) Number of notices of failure to comply with hazardous/toxic waste requirements

1985 = NA  
1986 = 0  
1987 = 0

8) Log kept of weekly literature reviews

1985 = NA  
1986 = Log Kept  
1987 = Log kept

Resources Required: \$245,263

Work Hours Required: 4,460

ADMINISTRATIVE SERVICES (018)

Description:

To ensure the accomplishment of goals and objectives of the Administrative Services Department within schedule and budget.

1. To provide human resource and labor relations support to other Commission departments and offices.
2. Provide the support necessary for the achievement of MWCC Affirmative Action goals.

3. Provide a centralized procurement system which appropriately balances service and control.
4. Provide leadership in setting information system goals and strategies and provide resources necessary to procure and support management information systems for the Commission.
5. Plan, direct and coordinate the financial activities of the Commission.
6. Ensure effective administration of the MWCC Central Office space and support services. Serve as a resource for the Commission to conduct analytic studies in the areas of organizational design or effectiveness.

Performance Criteria:

1. To bring the MWCC workforce into parity with the SMSA labor force by December 31, 1991.
2. To develop an information systems implementation plan for the MWCC which addresses the management and technical issues necessary to define the scope and characteristics of the new systems, and should provide a mechanism for management to monitor the progress and performance of systems-related activities.
3. To identify Commission-wide productivity measures and, in concert with department staff, productivity measures and improvement goals for each Commission function. The measures and goals are to be acceptable to the Chief Administrator's Office.
4. Deliver services in a manner and time frame which meets the needs of the clients of the Department of Administrative Services (as defined by the clients) and provides necessary and sufficient administrative controls.

Resources Required: \$153,034

Work Hours Required: 3,600



## BUSINESS SERVICES ADMINISTRATION (019)

### Description:

Provide space, communications equipment, xerographic services, furniture and furniture repair/replacement, and postage services for all Central Office personnel; Administer the Employee Assistance Program. Design special projects relating to cost benefit analysis/productivity as requested from various Department Directors; in so doing analyse departmental communications systems.

### Performance Criteria:

1. Once "Move" calendar is established, fulfill all necessary obligations relative to adherence to established dates.
2. Have telecommunications system in place at new office allowing for no interruption of services to customers.
3. Establish, within the next four months, a Central Office complaint form regarding the move and respond within 24 hours to any employee complaint as it applies to his or her ability to perform job duties.
4. Respond as required to requests, based on established time requirements, for special studies from other Central Office departments.
5. Provide Employee Assistance Program introduction seminar to Metro Plant Maintenance personnel and provide four E.A.P. bulletins to all employees, including two articles for the "Connection".
6. Establish within three months a program based by program charge back system for xeroxing.

Resources Required: \$327,321

Work Hours Required: 6,250

## HUMAN RESOURCES (020)

### Description:

The Human Resources section provides a range of services for all MWOC departments. These include administering such areas as recruitment, selection, orientation, performance appraisal, job descriptions (including job analysis and job evaluation), wage and salary administration as well as the Commission's Wellness Program. The staff of three full-time equivalent employees coordinate its efforts with all other departments and works particularly close with the Commission's Labor Relations, Insurance, Affirmative Action and Payroll components.

### Performance Criteria:

1. Make job offers to 75% of new hires in three weeks or less from closing date on job posting.
2. Respond in writing to requests for job evaluations for new job classifications or reclassifications within three weeks of request.
3. Review 30 personnel files per month, monitoring standard list of contents to be contained in each file and purging files of extraneous data.
4. Respond in writing to all job applicants within three days of receipt of application.
5. Maintain timely receipt of written probationary and annual performance appraisal forms so that no more than 5% of employees' wages adjustments require backpay.
6. Establish a recruiting system that provides representative protected class applications for all openings by 4/1/87 to be measured by comparing recruiting and census statistics.

Resources Required: \$242,787

Work Hours Required: 6,150

## LABOR RELATIONS (021)

### Description:

This program provides for the funding of all labor relations services provided to the various Commission departments. Activities include the negotiation of seven labor agreements; mediations and arbitration proceedings as necessary; grievance handling; labor/management committees and supervisory training in related activities.

### Performance Criteria:

1. To negotiate labor contracts with two unions whose contracts are open and to get mutual agreement within thirty days of the expiration dates.
2. To establish a formal labor/management committee structure with at least one union and to hold at least one meeting with an advance agenda.
3. To hold at least one training session for supervisory personnel in a labor related area.
4. To meet with each department director to ascertain labor relations services which are required.

	1985	1986	1987
1. Timely agreements	NA	2	2
2. Committee meetings	NA	0	1
3. Training sessions	NA	0	1
4. Director meetings	NA	1	6

Resources Required: \$65,864

Work Hours Required: 1,400

## PURCHASING (022)

### Description:

This program is to provide a centralized purchasing system with a proper set of check and balances on orders, to obtain Commission materials and services for all operating departments. Its function is to purchase all products/services, at the

"very best" balance of cost for quality, delivery and services, keeping in mind all laws of the State of Minnesota, Reference 1974, Chapter 473C, Subdivision 1 and 2.

This department consists of five full-time personnel, although a need exists from time to time for consulting services and temporary personnel during extremely busy times.

### Performance Criteria:

1. To maintain a bid calendar, estimate of 40 large bids and all items to be carried through the bidding process and administer bid procedures.
2. Manage a centralize/decentralize fleet of vehicles so that purchase and utilization of all vehicles can be evaluated for cost effectiveness and usage.
3. Provide semi-annual purchasing reports relating to expenditures to managers from computer system.
4. Prepare a 1988 budget forecast of cost of materials and supplies for all departments to use in preparing their annual program budget.
5. Coordinate disposal of all surplus or obsolete equipment as the need arises.
6. Attend a minimum of three production shows covering new items and ideas in computer functions, services, purchasing procedures, minority supplier, etc. Review staff education requirements.
7. Increase expenditures with minorities MBE/WBE for products and services.
8. Review and improve purchasing procedures.

Resources Required: \$208,288

Work Hours Required: 9,100

## PROPERTY & CASUALTY INSURANCE (023)

### Description:

To assess risks inherent in the operation of the Metropolitan Disposal System and secure coverage for those risks that will adversely affect the operations of the Metropolitan Disposal System through the lowest medium available.

### Performance Criteria:

1. Participate in professional conferences in order to ascertain risks that are self/co-insurable.
2. To solicit quotes from vendors for various coverage at least 30 days prior to anniversary date(s) or premium(s).
3. Process all property and damage claims so that the claims are processed within three days of notification.

Resources Required: \$922,552

Work Hours Required: 4,100

## COMPTROLLER ADMINISTRATION (024)

### Description:

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.

### Performance Criteria:

1. Provide direction and coordination to division managers for accomplishing program and budgetary objectives.
2. Prepare the annual request for the Comptroller's Division by April 1.
3. Prepare a budget calendar and perform all budget related functions within the budget calendar year.
4. Invest federal and state grant funds on same day as received.

5. Provide Commissioners and staff with monthly financial reports by the 8th day of the following month.

6. Project cash needs for periods up to five years, updating quarterly or sooner, if needed.

	Actual 1985	Proj. 1986	Proj. 1987
% budget expended	98	100	100
% objectives achieved	90	95	98
Date budget request submitted	4/10	4/5	4/1
Budget in accord.	4	3	2
Fed. & State grants	0	0	0
Monthly financ. reports	0	2	0
Cash projections	2	3	4

Resources Required: \$179,430

Work Hours Required: 3,790

## ACCOUNTING AND COLLECTIONS (025)

### Description:

This program exists to properly account for all MWCC transactions so that all accounting regulations and policies are followed. The result will be that the State Auditor's opinion states that the balance sheet and other financial statements present fairly the financial position of the MWCC. A major purpose of the program is to provide accurate, useful and up-to-date financial data to management and staff for their use in management and operation of the Commission. Proper receipt and accounting for all Commission revenue is a function of this program as is maintenance of the Commission-wide fixed asset system. Development and utilization of data processing techniques and equipment to accomplish the program functions is necessary.

## ACCOUNTING AND COLLECTIONS (025) - (Cont.)

### Performance Criteria:

1. Maintain a Commission-wide fixed asset system satisfactory to the State Auditor.
2. Properly account for all transactions so that the State Auditor's opinion states that the balance sheet and other financial statements present fairly the financial position of the MWCC.
3. Conduct Service Availability Charge (SAC) audits of communities.
4. Collect and record SAC monies for all communities to be received by the end of the month following the month permitted by the community.
5. Bill, collect and record Sewer Service Charge (SSC) monies for communities to be received by the end of the month for the month due.
6. Record and post to a subsidiary ledger all monies received from state and federal grants and reconcile balances with the Grants Administration section by the 5th day after the end of the month.
7. Bill, collect and record Industrial Strength Charge (ISC) monies for industrial firms to be received within 30 days from the date of billing.
8. To respond to 90% of all program managers requests for financial information within one (1) day of the request.

	Act. 1985	Proj. 1986	Prop. 1987
Satis. to fixed asset sys.	yes	yes	yes
Fairly presented financ. statements	yes	yes	yes
# of SAC audits conducted	30	35	40
% collected within 30 days	95	95	97
% collected within 30 days	94	95	97
Balances reconciled as scheduled	50	90	95
% collected within 30 days	94	95	97
Responses within one day	86	90	95

Resources Required: \$161,577

Work Hours Required: 4,540

## DISBURSEMENTS (026)

### Description:

This program exists to properly pay all vendors and contractors utilized by the MWCC. Includes are many large disbursements to engineering, construction and other firms under contract to the MWCC where care must be followed to determine that contract provisions are met before payment is made.

### Performance Criteria:

1. Remit 97% of vendor's invoices and utility bills within 30 days.
2. Remit 97% of discount invoices within discount period.
3. Verify and prepare all disbursements to be approved by the Commission and forward these items to the Chief Administrator as per schedule established.

	Act. 1985	Proj. 1986	Prop. 1987
% paid within 30 days	95	95	97
% of discount utilized	95	96	97
% to Chief Adm. as scheduled	100	100	100

Resources Required: \$126,232

Work Hours Required: 9,420

## PAYROLL (027)

### Description:

The Payroll Program is responsible for preparing all Commission payroll checks, distributing labor to respective programs, and remitting all necessary payroll deductions to appropriate agencies. This program pays approximately 1,000 bi-weekly and currently requires five employees to accomplish all necessary responsibilities.

PAYROLL (027) (Cont.)

Performance Criteria:

1. To prepare approximately 1,000 payroll checks and distribute appropriate labor on a bi-weekly basis.
2. To forward all remittances of payroll deductions within 10 days of pay day.
3. Generate and distribute Leave Balance reports of all applicable employees within 30 days following each quarter end.
4. Forward appropriate Labor Distribution Reports to program managers within 10 days following each pay day.
5. Include travel expense, educational assistance reimbursement, mileage, and auto allowance and fringe on appropriate W-2 tax forms.

	1985	1986	1987
% timely payroll checks	100	95	100
% remittance checks 10 days	85	93	93
% Leave Balance reports	100	85	90
% Labor distribution reports	85	85	90
% Additional expense on W-2's	100	95	100

Resources Required: \$156,643

Work Hours Required: 9,300

DEBT SERVICE & ACQUISITION COSTS (028)

Description:

To credit local government for local debt and current value credits and forward monies to the Metropolitan Council on a scheduled basis prior to October 1, 1987.

Performance Criteria:

1. Grant all credits for local government debt service assumed by the Commission by December 31, 1985.
2. Meet October 1, 1985 Metropolitan Council debt service payment required.

3. Grant all credits for acquisition costs assumed by the Commission by December 31, 1985.

Resources Required: \$32,713,477

Work Hours Required: -0-

AFFIRMATIVE ACTION (029)

Description:

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

1. Carry out the complete requirements of the Commission's Affirmative Action Program.
2. Comply with all regulations of the State of MN 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 Affirmative Action, sexual harassment and gender based training.
5. Recruit minorities and females for professional and managerial job categories.
6. Recruit handicapped individuals for positions in the organization.
7. Carry out complete requirements of the Commission's Minority and Women Business Enterprise Programs.
8. Certify Minority and Women Businesses for participation in MBE/WBE Programs.
9. Monitor the progress of MBE/WBE Programs.
10. Monitor contract compliance provisions.

## AFFIRMATIVE ACTION (029) (Cont.)

### Performance Criteria:

1. To strengthen Affirmative Action in the Commission hiring process so that minority and female employment reflect their availability in the local SMSA, and publish quarterly Affirmative Action Reports.
2. Increase management accountability for implementing equal opportunity policies and procedures and Affirmative Action objectives within their work units by the end of 1986.
3. Maintain a job classification system which is based on job qualifications, by reviewing job descriptions in the third quarter of 1986.
4. Increase the utilization of minority and women businesses so that contracted services and procurement of goods and other services average 3.5% to 10%.

Resources Required: \$107,829

Work Hours Required: 3,600

## EDUCATIONAL ASSISTANCE/TRAINING (030)

### Description:

The purpose of this program is to promote and provide assistance to Commission employees for education that prepares them for advancement and other career opportunities within the Commission. This part of the program is administered through the Educational Assistance Committee. Additionally, the program provides the vehicle for generic training in such topics as organizational development, productivity improvement, etc., for all employees.

### Performance Criteria:

1. Coordinate and implement the Educational Assistance program within budget.
2. Monitor female and minority participation in department training.

3. Accomplish a network of resource information available at all facilities.
4. Submit three articles in 1987 to the "Connection" for publication.

	<u>1985</u>	<u>1986</u>	<u>1987</u>
Budget %	NA	95	95
Monitor	NA	Approp %	Approp %
Resources	NA	50	50
Publications	NA	2	3

Resources Required: \$53,443

Work Hours Required: -0-

## INFORMATION TECHNOLOGY DIVISION (031)

### Description:

Ensure the accomplishment of the goals and objectives of the Information Technology Division within schedule and budget. The division is a new organization within the Department of Administrative Services. Its primary mission is to procure and support management information systems for the Commission.

1. Select and procure the computer hardware, software, data communication equipment and associated support services to meet the information needs of the Commission.
2. Provide consulting and systems analysis services for new information system applications.
3. Maintain and enhance current information system applications.
4. Select and direct consulting firms to provide needs analysis and implementation plans to meet immediate and long range information system requirements.
5. Maintain and enhance procedure specifications for information security, equipment security, disaster recovery, programming methodologies and documentation, and selection of use of personal computer (PC) software packages.

INFORMATION TECHNOLOGY DIVISION (031)  
(Cont.)

Description: (Cont.)

6. Provide training to Commission personnel on the use of information system components to include personal computer software, office automation equipment, service bureau applications and new applications on Commission computer systems.
7. Provide maintenance for computer hardware and software, office automation equipment, and data communications equipment.
8. Acquire and train the personnel needed to service the expanding set of information systems equipment and hardware.
9. Monitor and evaluate new areas of technology for applicability to Commission information system needs.

Performance Criteria:

1. Increase the use of computerized information systems to improve the efficiency and responsiveness of Commission management.
2. Integrate the comprehensive information systems plan into the 1988 budget and work plans to ensure the acquisition of resources in 1988 for information system components which will meet the needs of the Commission through 1995 without a major change or upgrade.
3. Implement, upgrade, and support the Information Technology Division policies and procedures standards developed in budget year 1986.
4. Improve the responsiveness of division maintenance staff such that calls are responded to within two hours and on-site assistance is available within four hours.
5. Provide CPT word processing advanced training for approximately 15 users. Provide Personal Computer (PC) software training for around 25 users.

Resources Required: \$972,288

Work Hours Required:

LONG-TERM DISPOSAL OF ASH (032)

Description:

Partial payment of disposal of approximately 230,000 tons of sewage sludge ash.

Performance Criteria:

1. To complete hauling of ash by December 31, 1987.

Resources Required: \$550,000

Work Hours Required: -0-

INTERCEPTOR/OPERATIONS REGULATOR SYSTEM (033)

Description:

Provide resources to operate and maintain 108 Combined Sewer Overflow Regulating sites including 18 major regulators which are instrumented with truck sewer and overflow information telemetered to the Metering System computer. This program is critical to the minimization of overflow to the river and is maintenance intensive to accomplish this. Frequent inspections as required by the NPDES permit, structure maintenance, clearing fouled regulator devices and instrument calibration and maintenance comprise the major program tasks. Maintenance is limited to areas that are accessible without bypassing, and can be entered safely.

At Mpls./St. Paul CSO separation progresses, it should reduce maintenance as regulator sites are taken out of service. no provisions are being incorporated into the program to accommodate increased regulator maintenance on new projects.

INTERCEPTOR/OPERATIONS REGULATOR  
SYSTEM (033) - (Cont.)

Performance Criteria:

1. Manage human and financial program resources.
2. Operate and maintain Regulator System safely in accordance with the NPDES Permit System which requires specific maintenance frequencies to be performed as a function of period and rainfall events.
3. Acquire and report required information to other departments and agencies.
4. Adapt to system changes as CSO program in Mpls./St. Paul become effective.

Resources Required: \$377,776

Work Hours Required: 12,500

INTERCEPTOR/REGIONAL FACILITY  
ADMINISTRATION (034)

Description:

Provide resources necessary for the Administration of the Interceptor System and Regional Maintenance, with emphasis on long-term planning, improving regional maintenance efforts, developing Facilities Engineering capability, and a coordinated operations managing structure.

Performance Criteria:

1. Manage human and financial resources for Interceptor Operations and Regional Maintenance.
2. Develop operational strategy for coordination of Regional Assistant Directors objectives and resources.
3. Implement more efficient methods of maintenance management in regional facilities including micro computer systems and measurement techniques.
4. Provide program resources to Assistant Director, Regional Facilities.

5. Develop 3-5 year strategic plan for Interceptor Infrastructure inspect rehabilitation and Capital Improvement Projects.

Resources Required: \$400,037

Work Hours Required: 13,505

INTERCEPTOR/OPERATIONS MAINTENANCE (035)

Description:

Provide the resources to inventory and document condition of the MWCC Interceptor System Infrastructure components using television and visual inspection, and implementation of a micro computer based on Sewer Information System. Rehabilitation of the system using advanced rehab methods and materials is also accomplished under this program, to reduce or eliminate Inflow/Infiltration into the MWCC Interceptor System. In addition, field crews and managers work with metro communities when requested on a joint basis to share knowledge and reduce I/I. Community maintenance and rental agreements are managed under this program.

Performance Criteria:

1. Manage human and financial resources.
2. Investigate and document condition of MWCC Infrastructure.
3. Reduce Inflow/Infiltration into MWCC Infrastructure.
4. Rehabilitate system components identified in 1 and 2 above.
5. Improve community relations.

Resources Required: \$830,643

Work Hours Required: 13,641



## INTERCEPTOR/OPERATIONS LIFT STATIONS (036)

### Description:

Provides resources to operate and maintain 64 lift stations to convey the wastewater flow in a safe and efficient manner to the regional treatment facilities. Each of the 64 lift stations has a telemetered alarm system, which is kept continuously operational for the purposes of minimizing spills and backups that result in health hazards and damage to personal property. The lift stations are checked 7 days/week and the alarm system monitored 24 hrs./day and 7 days/week.

In addition, maintenance support staff is provided to the River Quality Monitoring program, as well as the Anoka Treatment Plant.

### Performance Criteria:

1. Manage human and financial resources.
2. Maintain continuous conveyance of wastewater flow to the MWOC regional treatment facilities in a safe and efficient manner. Minimize spills and backups and insure public health, safety and maximize protection of environmental resources.
3. Provide adequate operational capacity and operational capability for the future.

Resources Required: \$2,701,348

Work Hours Required: 63,359

## INTERCEPTOR/OPERATIONS METERING (037)

### Description:

Provides the necessary resources to support the flow metering system used for determining annual costs and billing for 101 metro communities, Inflow/Infiltration studies, planning and engineering needs. This program has high public visibility and reliability is a high priority.

Scheduled preventative maintenance and corrective maintenance require technical skills and financial resources to maintain efficiency and reliability. 174 meters are monitored continuously with 24 hour coverage of computer room staff. These monitors are serviced on a daily, weekly, monthly or quarterly basis by Instrumentation personnel.

### Performance Criteria:

1. Manage financial and human resources.
2. Provide accurate flow measurements to Community Services Manager on a monthly and yearly basis.
  - a) Minimize meter downtime.
  - b) Maintain calibration schedules.
  - c) Minimize computer downtime.
  - d) Coordinate efforts with Electrical and Pipefitter Foreman to eliminate chronic meter problems.
3. Modify metering and alarm systems according to MWOC needs.
4. Community and other support services
  - a) Coordinate data acquisition for other MWOC departments and outside consulting firms.
  - b) Coordinate Inflow/Infiltration problem areas with Interceptor Inspection Crew.
5. Participate in new program related projects.
  - a) Meter improvements.
  - b) Replacement of metering and alarm systems.

Resources Required: \$824,186

Work Hours Required: 23,323

## EMPIRE PLANT (038)

### Description:

The Empire Plant has a design capacity of 6.0 mgd and serves the communities of Empire, Farmington, Lakeville and parts of Apple Valley in Service Area No. 6. The Empire Plant provide for effluent ammonia removal. The purpose of the Empire Plant program is to operate and maintain the Empire Wastewater Treatment Plant in a manner that provides safe, continuous, and efficient operations while complying with all applicable operating permit requirements and the following effluent standards.

<u>Parameter</u>	<u>30-Day Average Limit</u>
CBOD <sub>5</sub> , mg/l	10
TSS, mg/l	10
pH	6.0-9.0
Turbidity, NTU	25
Fecal Coliform, Organisms/100 ml	100
Ammonia, mg/l	1

### Performance Criteria:

1. Manage the 1987 Operating Budget to expend no more than 100% of budgeted funds at the end of 1987.
2. Produce effluent quality resulting in at least 98.8% compliance with NPDES Permit effluent limitations throughout 1987.
3. Implement a computerized maintenance management system by the end of 1987.
4. Establish an employee incentive program which includes employee participation by the end of 1987.
5. Conduct monthly safety committee meetings during 1987.
6. Provide timely response to safety deficiencies during 1987. Respond to safety inspection reports within seven days, respond to safety deficiencies within 48 hours.

7. Maintain plant appearance through the year which provides a pleasant, safe, and productive work environment and a good image of the Commission to the general public. Inspect all facilities monthly and take any corrective action necessary.
8. Improve licensing and certification of management personnel. Resolve a total of six deficiencies in management licensing and certification by the end of 1987.

	<u>1985</u>	<u>1986</u>	<u>1987</u>
Expended Funds	96.1%	100%	100%
NPDES Permit Compl.	99%	98%	98.8%
Maint. Management	NA	NA	90% Compl
Employee Incentive	NA	NA	Prog. in Place
Safety Meetings	12%	11 of 12	12 of 12
Safety Def. Response	NA	95%	95%
Montly Plant Inspect.	NA	11 of 12	12 of 12
Mgmt. Improv. Steps	NA	NA	5 of 6

Resources Required: \$1,774,169

Work Hours Required: 47,400

## METRO PLANT OPERATIONS (039)

### Description:

To safely and economically ensure uninterrupted operation of all necessary facilities at the Metro Plant to provide high quality effluent and protect the health and environment of the effected public.

### Performance Criteria:

1. Attain 98.5% compliance with NPDES limits through 1987 at the Metro Plant. This means no more than 4 single violations during the entire year.
2. To develop a system of accountability and responsibility for the "non-relieving" operational personnel at the Metro Plant during 1987.

## METRO PLANT OPERATIONS (039) - (Cont.)

### Performance Criteria: (Cont.)

3. To initiate timely, necessary and appropriate board items which will be informative to Commission members and procure the necessary equipment and/or services for the Metro Plant. These reports and board items will be completed during 1987.
4. Accommodate and coordinate the efforts of Engineering/Construction and Quality Control Departments for success in our joint missions at the Metro Plant during 1987.
5. To build relationships among the essential team of operators, maintenance personnel, managers, and staff at the Metro Plant. This effort will focus on monthly "quality circles", overlap training for job enhancement, and personal involvement in safety tours during 1987.

Resources Required: \$26,503,573

Work Hours Required: 744,594

## METRO PLANT MAINTENANCE (040)

### Description:

1. To provide services for the Metro Plant. The Maintenance Department services 40,500 pieces of equipment. One hundred and eighty (180) people complete 20,000 work orders each year.
2. To provide warehouse services for the Metro Plant. The Metro Plant warehouse contains 19,000 different kinds of items in inventory. Each year the warehouse receives 21,000 different items at the receiving dock and issues 17,000 out of inventory.
3. To provide a safe work environment for employees. People are one of the most important resources of the Commission.

4. To provide necessary training to accomplish program objectives. Training is needed to meet new challenges; to find out new ways of doing jobs; to prepare people to continue the organization.

### Performance Criteria:

1. Maintenance services:
  - a) Operate within budget-measurement +0/-10% budget at year end.
  - b) Emergency work - 90% completion within four days.
2. Warehouse services. Provide 95% availability of inventory in warehouse to all requesters.
3. Safety - 98% scheduled safe work days.
4. Training - provide at least 90% of budgeted training for employees as detailed in budget.

Resources Required: \$12,116,941

Work Hours Required: 357,740

## SENECA PLANT (041)

### Description:

The Seneca Plant has a design capacity of 24.0 mgd and serves the communities of Burnsville, Eagan, and Bloomington in Service Area No. 5. The Seneca Plant program is established to ensure: that the Seneca Plant operates within all State and Federal Regulations; meets all the requirements set forth in the Seneca Air and Liquid Operating Permits; maintains an environmentally safe, healthy, and productive work experience for the plant employees; and accomplishes the above while operating within the parameters established by the 1987 Operating Budget. Air and water standards applicable to this plant are as follows:

SENECA PLANT (041) - (Cont.)

Description: (Cont.)

Plant Effluent Standards

<u>Parameter</u>	<u>30 day Average Limit</u>
CBOD <sub>5</sub> , mg/l	25
TSS, mg/l	30
pH	6.0 - 9.0
Turbidity, NTU	25
Fecal Coliform, Organisms/100 ml	200

Incinerator Stack Discharge Standards:

<u>Parameter</u>	<u>Limit</u>
Particulate Matter, grain/ dscf at 12% CO <sub>2</sub>	0.1
Opacity, %	20
Odors, Odor Concentration Units	150
Odor Emission Rate, Odor Concentration Units/minute	1,000,000
Mercury, grams/24 hours period	3,200

Performance Criteria:

1. To achieve a minimum annual average compliance with NPDES Permits effluent limitation of 98 percent.
2. To operate within the limits of the MPCA Operating Permit for sludge incinerator stack discharge 90 percent of the time.
3. To manage the operation within the limits of the 1987 Operating Budget.
4. To develop a schedule and install a computerized maintenance management system by December 31, 1987.
5. To develop a schedule to train, and delegate to a staff member the responsibilities of daily monitoring the rate of usage of consumable inventories by December 31, 1987.
6. To organize and establish a program to insure the availability of meaningful training topics for monthly training sessions and conduct monthly training schedules.

7. To develop a schedule to purchase and install a computerized personnel time and record keeping system to monitor work schedules, employee leave, over-time, etc. and to monitor the cost effectiveness of the present schedule and leave procedures by December 31, 1987.
8. To organize and establish a system to routinely monitor and examine safety related items, i.e, by December 31, 1987.
  1. Accident and Injury Reports
  2. Safety Deficiency Issues
  3. Accident Related Lost Time Hours
  4. Monthly Safety Inspection Items
9. To improve employee morale, program commitment, and productivity by providing training and educational assistance and by developing and implementing an Employee Incentive Program by June, 1987.

Performance Criteria: \$3,656,232

Work Hours Required: 81,900

BLUE LAKE PLANT (042)

Description:

The Blue Lake Plant has a design capacity of 20.0 mgd and treats wastewater originating from Service Area No. 4. The purpose of the Blue Lake Plant is to operate and maintain the plant in a manner that provides safe, continuous, and efficient operation, while complying with all applicable operating permit requirements and the following effluent standards:

<u>Parameter</u>	<u>30-Day Average Limit</u>
CBOD <sub>5</sub> , mg/l	25
TSS, mg/l	30
pH	6.0-9.0
Turbidity, NTU	25
Fecal Coliform, Organisms/100 ml	200

## BLUE LAKE PLANT (042) - (Cont.)

### Performance Criteria:

1. Achieve a minimum annual percentage compliance with NPDES Permit effluent limitations of 98.5%.
2. Manage operations within limits of the 1987 operating budget.
3. Perform plant maintenance on a timely basis such that all major treatment processes are in operation 98% of the time.
4. Maintain safe conditions for all plant personnel responding to all safety deficiency reports within 48 hours and conducting monthly safety meeting for plant employees.
5. Maintain good labor relations responding to all employee stage-one grievances within a 7-day period resolving at least 50% of them.

Resources Required: \$2,020,550

Work Hours Required: 62,240

## CHASKA PLANT (043)

### Description:

The Chaska Plant has a design capacity of 1.4 mgd and serves the community of Chaska in Service Area No. 4. The plant provides secondary treatment by pure oxygen activated sludge. The purpose of this program is to operate and maintain the Chaska Waste Water Treatment Plant in a manner than provides safe, continuous, and efficient operations, while complying with all applicable operating permit requirements and the following effluent standards:

Parameter	30 day Average Limit
CBOD <sub>5</sub> , mg/l	25
TSS, mg/l	30
pH	6.0 - 9.0
Turbidity, NTU	25
Fecal Coliform.	
Organisms/100 ml	200

### Performance Criteria:

1. Achieve a minimum annual percentage compliance with NPDES Permit effluent limitations of 97%.
2. Manage operations within limits of the 1987 operating budget.
3. Perform plant maintenance on a timely basis such that all major treatment processes are in operation 98% of the time excluding down time for construction.
4. Maintain safe conditions for all plant personnel responding to all safety deficiency reports within 48 hours and conducting safety meetings for plant employees.
5. Maintain good labor relations responding to all employee stage one grievances within a 7-day period resolving at least 50% of them.

	1985	1986	1987
Annual % compl./NPDES	99	98	97
% budget expended	89	100	100
% of time maj			
units in operation	NA	NA	98
% of safety defic. responded to in 48 hrs.	NA	NA	100
# of monthly safety mtgs. conducted	NA	NA	11
% employee griev. responded to within 7 days	NA	NA	100
% resolved at step 1 level	NA	NA	50

Resources Required: \$252,576

Work Hours Required: 6.036

## ANOKA PLANT (044)

### Description:

The Anoka Plant has a design capacity of 2.46 mgd and serves the communities of Anoka, Champlin, and Ramsey in Service Area No. 3. The purpose of the Anoka Plant program is to operate and maintain the Anoka Plant in a manner that provides safe.

ANOKA PLANT (044) - (Cont.)Description: - (Cont.)

continuous, and efficient operations while complying with all applicable operating permit requirements and the following effluent standards.

<u>Parameter</u>	<u>30 day Average Limit</u>
CBOD <sub>5</sub> , mg/l	25
TSS, mg/l	30
pH	6.0 - 9.0
Turbidity, NTU	25
Fecal Coliform, Organisms/100 ml	200

Performance Criteria:

1. To achieve a minimum annual percentage compliance with NPDES Permit effluent limitation of 98%.
2. To operate and maintain the Anoka Plant, during 1987, within allocated budget resources.
3. To comply with Commission Safety Policy by participation on appropriate Safety Committees and attendance of all plant personnel at monthly safety meetings.
4. To maintain employee certification level by encouraging participation in applicable training programs.
5. To maintain the plant equipment, buildings, roads, and grounds in good repair and appearance.

	<u>1985</u>	<u>1986</u>	<u>1987</u>
Annual % compl. NPDES	98	97	98
% budget expended	99	95	100
# meetings held	3	5	10
% of plant empl. attend. meetings	NA	NA	75
# of train. session compl.	0	1	2
# of incr. certif. levels	NA	NA	1
Inspect. rating by Dir. of Operations	NA	NA	8

Resources Required: \$313,791

Work Hours Required: 8,640

BAYPORT PLANT (045)Description:

The Bayport Plant has a design capacity of 0.65 mgd and provides phosphorus removal by chemical precipitation. The plant serves the community of Bayport in Service Area No. 6. The purpose of the Bayport Plant is to operate and maintain the plant in a manner that provides safe, continuous and efficient operation while complying with all applicable operating permit requirements and the following effluent standards:

<u>Parameter</u>	<u>30 day Average Limit</u>
CBOD <sub>5</sub> , mg/l	25
TSS, mg/l	30
pH	6.0 - 9.0
Turbidity, NTU	25
Phosphorus, mg/l	1
Fecal Coliform, organisms/100 ml	200

Performance Criteria:

1. Achieve a minimum annual percentage compliance with NPDES Permit effluent limits of 98%.
2. To operate and maintain the Bayport Plant during 1987, within allocated budget resources.
3. To comply with Commission Safety Policy by participation on appropriate safety committees and attendance of all plant personnel at weekly safety meetings.
4. To maintain employee certification level by encouraging participation in applicable training programs.
5. To maintain plant equipment, buildings, road, and grounds in good repair and appearance.

	<u>1985</u>	<u>1986</u>	<u>1987</u>
Annual % compl. NPDES	100	98	98
% budget expended	91	100	100
# of safety mtgs. held	52	52	52
% empl. attend. mtgs.	NA	NA	100
# train. sess. compl.	NA	1	1
Insect. rating by Dir. of Oper. (1-10)	NA	NA	8

BAYPORT PLANT (045) - (Cont.)

Resources Required: \$264,639

Work Hours Required: 5,525

COTTAGE GROVE PLANT (046)

Description:

The Cottage Grove Plant has a design capacity of 1.8 mgd and serves the community of Cottage Grove in Service Area No. 6. The purpose of the Cottage Grove Plant program is to operate and maintain the plant in a manner that provides safe, continuous, and efficient operation while complying with all applicable operating permit requirements and the following effluent standards.

<u>Parameter</u>	<u>30 day Average Limit</u>
CBOD <sub>5</sub> , mg/l	25
TSS, mg/l	30
pH	6.0 - 9.0
Turbidity, NTU	25
Fecal Coliform, Organisms/100 ml	200

Performance Criteria:

1. To achieve a minimum annual percentage compliance with NPDES Permit effluent limitation of 98%.
2. To operate and maintain the Anoka Plant, during 1987, within allocated budget resources.
3. To comply with Commission Safety Policy by participation on appropriate Safety Committees and attendance of all plant personnel at monthly safety meetings.
4. To maintain employee certification level by encouraging participation in applicable training programs.
5. To maintain the plant equipment, buildings, roads, and grounds in good repair and appearance.

	<u>1985</u>	<u>1986</u>	<u>1987</u>
Annual % compl. NPDES	98	97	98
% budget expended	90	100	100
# meetings held	52	52	52
% of plant empl. attend. meetings	NA	NA	80
# of train. session compl.	NA	NA	2
# of incr. certif. levels	NA	NA	1
Inspect. rating by Dir. of Operations (1-10)	NA	NA	8

Resources Required: \$408,201

Work Hours Required: 10,925

HASTINGS TREATMENT PLANT (047)

Description:

The Hastings Plant has a design capacity of 3.00 mgd and serves the community of Hastings in Service Area No. 6. The purpose of the Hastings Plant program is to operate and maintain the plant in a manner that provides safe, continuous, and efficient operation while complying with all applicable operating permit requirements and the following effluent standards.

<u>Parameter</u>	<u>30 day Average Limit</u>
CBOD <sub>5</sub> , mg/l	25
TSS, mg/l	30
pH	6.0 - 9.0
Turbidity, NTU	25
Fecal Coliform, Organisms/100 ml	200

Performance Criteria:

1. To achieve a minimum annual percentage compliance with NPDES Permit effluent limitation of 98%.
2. To operate and maintain the Hastings Plant, during 1987, within allocated budget resources.

HASTINGS PLANT (047) - (Cont.)Performance Criteria: - (Cont.)

3. To comply with Commission Safety Policy by participation on appropriate Safety Committees and attendance of all plant personnel at monthly safety meetings.
4. To maintain employee certification level by encouraging participation in applicable training programs.
5. To maintain the plant equipment, buildings, roads, and grounds in good repair and appearance.

	1985	1986	1987
Annual % compl. NPDES	95	98	98
% budget expended	97	100	100
# meetings held	52	52	52
% of plant empl. attend. meetings	NA	NA	80
# of train. session compl.	NA	2	4
# of incr. certif. levels	NA	NA	1
Inspect. rating by Dir. of Operations (1-10)	NA	NA	8

Resources Required: \$434,692

Work Hours Required: 11,425

STILLWATER PLANT (048)Description:

The Stillwater Plant has a design capacity of 3.0 mgd and provides phosphorus removal by chemical precipitation. The plant serves the communities of Stillwater and Oak Park Heights in Service Area No. 6. The purpose of the Stillwater Plant program is to operate and maintain the plant in a manner that provides safe, continuous and efficient operation while complying with all applicable operating permit requirements and the following effluent standards:

STILLWATER PLANT (048) - (Cont.)Description: (Cont.)

Parameter	30 day Average Limit
CBOD <sub>5</sub> , mg/l	25
TSS, mg/l	30
pH	6.0 - 9.0
Turbidity, NTU	25
Fecal Coliform, Organisms/100 ml	200

Performance Criteria:

1. To achieve a minimum annual percentage compliance with NPDES Permit effluent limitation of 98%.
2. To operate and maintain the Stillwater Plant, during 1987, within allocated budget resources.
3. To comply with Commission Safety Policy by participation on appropriate Safety Committees and attendance of all plant personnel at monthly safety meetings.
4. To maintain employee certification level by encouraging participation in applicable training programs.
5. To maintain the plant equipment, buildings, roads, and grounds in good repair and appearance.

	1985	1986	1987
Annual % compl. NPDES	95	98	98
% budget expended	97	100	100
# meetings held	52	52	52
% of plant empl. attend. meetings	NA	NA	80
# of train. session compl.	NA	2	4
# of incr. certif. levels	NA	NA	1
Inspect. rating by Dir. of Operations (1-10)	NA	NA	8

Resources Required: \$514,683

Work Hours Required: 12,025



## SAVAGE PLANT (049)

### Description:

The Savage Plant has a design capacity of 0.86 mgd and serves the community of Savage in Service Area No. 4. The purpose of the Savage Plant Program is to operate and maintain the Savage Plant in a manner that provides safe, continuous, and efficient operations, while complying with all applicable operating permit requirements and the following effluent standards:

<u>Parameter</u>	<u>30 day Average Limit</u>
CBOD <sub>5</sub> , mg/l	25
TSS, mg/l	30
pH	6.0 - 9.0
Turbidity, NTU	25
Fecal Coliform, Organisms/100 ml	200

### Performance Criteria:

1. To achieve a minimum annual percentage compliance with NPDES Permit effluent limitation of 98.4%.
2. Manage operations within limits of the 1987 operating budget.
3. Perform plant maintenance on a timely basis such that all major treatment processes are in operation 98% of the time.
4. To maintain safe conditions for all plant personnel responding to all safety deficiency reports within 48 hrs. and conducting monthly safety meetings for plant employees.
5. Maintain good labor relations responding to all employee stage 1 grievances within a 7 day period resolving at least 50% of them.

	<u>1985</u>	<u>1986</u>	<u>1987</u>
Annual % Compl. NPDES	99	98	99.4
% Budg. expended	98	100	100
% time major process units in operation	NA	NA	98
% safety defic. responded to within 48 hrs.	NA	NA	100
% monthly safety mtgs.	NA	NA	11
% empl. griev. responded to within 7 days	NA	NA	100
% resolved at step 1 level	NA	NA	50

Resources Required: \$122,070

Work Hours Required: 3,840

## ROSEMOUNT PLANT (050)

### Description:

The Rosemount Plant has a design capacity of 0.6 mgd and serves the communities of Rosemount and Apple Valley in Service Area No. 6. The Rosemount Plant provides for effluent phosphorus removal.

The purpose of the Rosemount Plant program is to operate and maintain the Rosemount Wastewater Treatment Plant in a manner that provides safe, continuous, and efficient operations while complying with all applicable operating permit requirements and the following effluent standards.

<u>Parameter</u>	<u>30 day Average Limit</u>
CBOD <sub>5</sub> , mg/l	25
TSS, mg/l	30
pH	6.0 - 9.0
Turbidity, NTU	25
Fecal Coliform, Organisms/100 ml	200
Phosphorus, mg/l	1

### Performance Criteria:

1. Manage the 1987 Operating Budget to expend no more than 100% of budgeted funds at the end of 1987.
2. Product Effluent Quality resulting in at least 97.5% compliance with NPDES Permit effluent limitations throughout 1987.
3. Establish an employee incentive program which includes employee participation by the end of 1987.
4. Conduct monthly safety committee meetings during 1987.
5. Provide timely response to safety deficiencies during 1987. Respond to safety inspection reports within 7 days, respond to safety deficiencies within 48 hours.

## ROSEMOUNT PLANT (050) - (Cont.)

### Performance Criteria: - (Cont.)

6. Maintain plant appearance throughout the year which provides a pleasant, safe, and productive work environment and a good image of the Commission to the general public. Inspect all facilities monthly and take any corrective action necessary.

	1985 Actual	1986 Goal	1987 Goal
Expended funds	91.1%	100%	100%
NPDES Per. Compl.	97%	98%	97.5%
Empl. Incentive	NA	NA	Prog. in Place
Safety Mtgs.	12	11/12	12/12
Safety Defic. Resp.	NA	95%	95%
Monthly Plant Insp.	NA	11/12	12/12

Resources Required: \$677,579

Work Hours Required: 17,400

### OPERATIONS ADMINISTRATION (051)

#### Description:

To administer and oversee operation and maintenance of all Commission wastewater treatment plants, conveyance systems, and operational support systems in a timely manner to insure safe, continuous, environmentally sound, and efficient operation in compliance with applicable operating permits and codes, and in conformity with allocated operating funds.

#### Performance Criteria:

1. To achieve 98.3% compliance with NPDES Permit effluent limits.
2. To recruit and begin training of three new engineering graduates in concert with affirmative action goals.
3. To establish maintenance management programs for all regional facilities.
4. To provide timely and accurate information for the Chief Administrator's Report.

5. To encourage the continued use and improve upon the management by objectives systems established within the Operations Department.

	1985	1986	1987
Permit Compliance	98.8%	97.4%	98.3%

Resources Required: \$306,987

Work Hours Required: 11,100

### PROCESS ASSURANCE (052)

#### Description:

Process Assurance is a technical services section of the Operations Department. Process Assurance works with managers and technical staff within the Operations Department and Planning, Engineering/Construction and Quality Control Departments. Technical services provided include: (1) permit compliance assistance for Operations Department; (2) process control engineering services to wastewater treatment plants to insure permit compliance and practical, cost-effective, and environmentally sound operation; (3) residual solids management program implementation; and (4) planning, design, and construction coordination of capital improvements projects between the Operations Department and the Planning and Engineering/Construction Departments.

#### Performance Criteria:

1. To achieve 98.3% compliance with NPDES Permit effluent limits.
2. To submit reports, comments, and correspondence required by operating permits by the required submittal dates.
3. To obtain operating permits for MWCC facilities such that MWCC operating program objectives can be met with the available resources.

PROCESS ASSURANCE (052) - (Cont.)

Performance Criteria: - (Cont.)

4. To manage and direct the land application program for regional plants to meet their sludge disposal needs and to comply with applicable permits.
5. To assist the Metro and Seneca Plants with implementation of ash utilization and ash landfill programs.
6. To lead and coordinate the Operations Department input on identification and prioritization of capital improvements projects and on development of design guidelines for projects.
7. To coordinate Operations Department input on planning, design and construction of regional treatment plant projects.
8. To provide technical services to the Operations Department as requested by the Director.

Resources Required: \$200,224

Work Hours Required: 9,520

ENGINEERING/CONSTRUCTION SERVICES (053)

Description:

Engineering Services

Provide engineering assistance to other departments in an effective manner.

1. To prepare plans and specifications in-house for system improvements;
2. To provide engineering support to other departments, including start-up assistance, troubleshooting, investigations and general engineering support.
3. To prepare and recommend approval of special agreements, including the coordination of site investigations and design review.

Construction Administration

1. Insure that any 3rd party construction projects that affect MWOC property or operation is performed in a manner that best protects that property and maintains the integrity of the operation of the affected facility.
2. Insure that any connections to MWOC interceptor system are performed in accordance with MWOC requirements.

Performance Criteria:

1. Enhance personnel management capability to increase the effectiveness of employees.
2. Facilitate day-to-day operations of the department.
3. Design and construct projects on schedule and within budget.

	<u>1985</u>	<u>1986</u>	<u>1987</u>
% Perf. apprais. completed on time	90	90	95
% Empl. participating in MBO programs	NA	10	60
Hrs. of training provided per employee	NA	NA	30
% Dept. procedures develop. and implemented	NA	40	100
% Proj. designed & constructed within budget	NA	NA	80
% Proj. designed and constructed on schedule	NA	NA	80

Resources Required: \$326,935

Work Hours Required: 27,275

**SUMMARY STATEMENT OF PROGRAM EXPENDITURES**

		<u>Proposed 1987</u>	<u>Budget 1986</u>	<u>Actual 1985</u>
5010	Salaries & Wages	\$31,816,866	\$29,830,765	\$28,088,366
5020	Employee Benefits	6,988,097	6,562,767	5,944,137
5040	Travel - Out State	29,748	15,947	52,554
5041	Travel - Local	19,238	14,763	11,681
5042	Auto Allowance	9,950	10,800	9,117
5045	Recruitment	15,000	3,090	7,589
5046	Public Hearings	8,787	8,787	553
5050	Commission-Per Diem	38,800	38,800	27,150
5051	Commission-Other	2,678	2,575	4,110
5060	Office Rent	336,200	271,650	271,502
5070	Educational Assistance	335,659	287,280	28,121
5080	Safety	32,000	32,000	17,061
5085	Medical Aids	13,463	12,523	17,122
5090	Cont. Serv. - Data Proc.	101,287	67,636	67,850
5091	Cont. Serv. - Admin.	62,900	57,960	268,151
5092	Cont. Serv. - Auditing	31,452	30,242	30,907
5093	Cont. Serv. - Engin.	55,000	220,000	4,582
5094	Cont. Serv. - Lab.	162,316	69,543	46,813
5095	Cont. Serv. - Laundry	113,929	113,286	110,773
5096	Cont. Serv. - Legal	61,660	59,289	32,874
5097	Cont. Serv. - Maint.	2,199,020	1,563,785	1,447,199
5098	Cont. Serv. - Oper.	720,295	208,458	317,570
5099	Cont. Serv. - Xerox	107,182	92,848	89,194
5100	Cont. Serv. - Sldg. Rem.	361,039	345,809	328,467
5101	Cont. Serv. - Janit.	117,144	33,190	41,513
5102	Cont. Serv. - Other	1,066,246	870,484	568,452
5200	Materials & Supplies	1,097,612	1,098,750	811,019
5210	Maint. Materl. & Supp.	2,959,564	2,764,549	2,337,623
5300	Office Supplies	114,686	95,705	85,297
5310	Publications	42,408	49,430	16,567
5320	Postage	43,146	41,316	26,405
5330	Office Equip. Repair	9,894	8,500	4,924
5340	Advertising	16,200	6,800	12,880
5350	Dues & Subscriptions	22,653	18,381	17,986
5370	Flood Control	10,000	10,000	
5390	Council Participation	115,000	103,000	75,033
5500	Motor Vehicle Expense	659,614	1,212,877	505,749
5620	Intcp. Rental Contract	236,927	128,427	64,868
5630	Intcp. Maint. Contract	135,700	142,700	121,016

		<u>Proposed 1987</u>	<u>Budget 1986</u>	<u>Actual 1985</u>
5630	Intcp. Maint. Contract	\$ 135,700	\$ 142,700	\$ 121,016
5700	Insurance - Auto	241,518	112,812	93,699
5701	Insurance - Blanket Bond	1,600	2,000	929
5702	Insurance - Bldg. & Prop.	384,275	248,100	198,576
5703	Insurance - Gen. Liab.	132,965	45,000	43,418
5704	Insurance - Work. Comp.	664,271	784,627	882,833
5705	Insurance - Exc. Liab.	90,000	57,750	43,299
5706	Insurance - Other	2,800	2,430	2,494
5800	Utilities - Elec.	8,794,116	9,701,424	7,237,483
5801	Utilities - Fuel	162,359	290,863	98,004
5802	Utilities - Gas	1,434,802	2,298,524	1,414,251
5803	Utilities - Water	138,441	122,859	127,361
5850	Telephone Service	299,284	232,127	241,961
5851	Leased Lines	179,758	173,743	153,806
5900	Chemicals - Ferr. Chlor.	11,848	68,796	26,762
5901	Chemicals - Potassium	139,000	80,000	
5902	Chemicals - Lime	44,652	126,150	53,025
5903	Chemicals - Other	703,741	781,300	671,600
5904	Polymers	1,019,283	1,344,407	1,128,146
5905	Chemicals - Acid	21,450	26,000	0
5940	Chlorine	358,436	381,748	289,164
5999	Miscellaneous	26,007	24,152	24,449
6010	Debt Serv.-Loc. Gov't.	1,167,682	1,301,433	1,318,981
6020	Debt Serv.-Met. Coun.	27,382,304	25,362,487	23,403,371
6100	Acquisition Costs	4,163,491	4,166,411	4,063,411
6200	Capital Outlay	<u>1,602,978</u>	<u>1,320,024</u>	<u>1,132,132</u>
		<u>\$99,550,000</u>	<u>\$95,559,879</u>	<u>\$84,561,930</u>

# PROGRAM DETAIL COSTS

## ADMINISTRATION & MANAGEMENT (001)

5010	Salaries & Wages	\$270,849
5020	Employee Benefits	47,963
5041	Travel - Local	4,200
5042	Auto Allowance	6,350
5046	Public Hearings	3,000
5060	Office Rent	320,000
5070	Educational Assistance	2,041
5091	Cont. Serv. - Admin.	30,900
5200	Materials & Supplies	1,400
5350	Dues & Subscriptions	7,480
5390	Council Participation	115,000
5999	Miscellaneous	500
6200	Capital Outlay	8,000
Total		<u>\$817,683</u>

## COMMISSION ADMINISTRATION (002)

5010	Salaries & Wages	\$ 50,405
5020	Employee Benefits	11,089
5040	Travel - Out of State	3,000
5041	Travel - Local	2,500
5042	Auto Allowance	3,600
5046	Public Hearings	5,015
5050	Commission - Per Diem	38,800
5051	Commission - Other	2,678
5070	Educational Assistance	11,150
5102	Cont. Serv. - Other	100,000
5999	Miscellaneous	1,545
6200	Capital Outlay	1,071
Total		<u>\$230,853</u>

## LEGAL SERVICES (003)

5010	Salaries & Wages	\$ 72,974
5020	Employee Benefits	16,054
5040	Travel - Out of State	2,558
5041	Travel - Local	200
5070	Educational Assistance	300
5096	Cont. Serv. - Legal	61,660
5200	Materials & Supplies	100
5310	Publications	753
5350	Dues & Subscriptions	166
5999	Miscellaneous	100
Total		<u>\$154,865</u>

## PUBLIC AND COMMUNITY RELATIONS (004)

5010	Salaries & Wages	\$116,262
5020	Employee Benefits	25,578
5041	Travel - Local	1,030
5046	Public Hearings	772
5070	Educational Assistance	3,803
5102	Cont. Serv. - Other	25,000
5200	Materials & Supplies	22,000
5310	Publications	25,000
5320	Postage	15,000
5350	Dues & Subscriptions	1,500
5999	Miscellaneous	3,000
6200	Capital Outlay	10,769
Total		<u>\$249,714</u>

## SAFETY (005)

5010	Salaries & Wages	\$175,879
5020	Employee Benefits	38,693
5070	Educational Assistance	1,163
5085	Medical Aids	10,964
5090	Cont. Serv. - Data Proc.	832
5102	Cont. Serv. - Other	48,642
5200	Materials & Supplies	16,800
5350	Dues & Subscriptions	4,905
5500	Motor Vehicle Expense	5,780
5704	Insurance - Wkrs. Comp.	664,271
6200	Capital Outlay	12,869
Total		<u>\$980,798</u>

## PLANNING DEPARTMENT (006)

5010	Salaries & Wages	\$ 80,899
5020	Employee Benefits	17,798
5040	Travel - Out of State	900
5070	Educational Assistance	13,144
5200	Materials & Supplies	500
5350	Dues & Subscriptions	500
5500	Motor Vehicle Expense	1,300
6200	Capital Outlay	9,000
Total		<u>\$124,041</u>

**CAPITAL PROJECT PLANNING (007)**

5010	Salaries & Wages	\$29,120
5020	Employee Benefits	6,406
5040	Travel - Out of State	600
5041	Travel - Local	230
5999	Miscellaneous	200
6200	Capital Outlay	<u>14,008</u>
Total		<u>\$50,564</u>

**MUNICIPAL SERVICES PLANNING (008)**

5010	Salaries & Wages	\$171,387
5020	Employee Benefits	37,705
5041	Travel - Local	230
5200	Materials & Supplies	2,322
5350	Dues & Subscriptions	150
5999	Miscellaneous	200
6200	Capital Outlay	<u>1,900</u>
Total		<u>\$213,894</u>

**SPECIAL PROJECTS PLANNING (009)**

5010	Salaries & Wages	\$52,191
5020	Employee Benefits	11,482
5040	Travel - Out of State	1,100
5330	Office Equipment Repair	1,000
6200	Capital Outlay	<u>10,590</u>
Total		<u>\$76,363</u>

**COMPRHENSIVE PLANNING (010)**

5010	Salaries & Wages	\$130,577
5020	Employee Benefits	28,727
5040	Travel - Out of State	600
5041	Travel - Local	230
5090	Cont. Serv. - Data Proc.	8,000
5350	Dues & Subscriptions	2,700
5999	Miscellaneous	200
6200	Capital Outlay	<u>21,567</u>
Total		<u>\$192,601</u>

**QUALITY CONTROL ADMINISTRATION (011)**

5010	Salaries & Wages	\$ 90,293
5020	Employee Benefits	19,864
5040	Travel - Out of State	900
5070	Educational Assistance	1,163
5200	Materials & Supplies	600
5310	Publications	2,184
5350	Dues & Subscriptions	520
6200	Capital Outlay	<u>7,831</u>
Total		<u>\$123,355</u>

**INDUSTRIAL WASTES (012)**

5010	Salaries & Wages	\$626,493
5020	Employee Benefits	137,828
5041	Travel - Local	100
5070	Educational Assistance	3,998
5090	Cont. Serv. - Data Proc.	4,885
5097	Cont. Serv. - Maint.	2,357
5200	Materials & Supplies	17,650
5500	Motor Vehicle Expense	4,756
5999	Miscellaneous	250
6200	Capital Outlay	<u>62,400</u>
Total		<u>\$860,717</u>

**RESEARCH & DEVELOPMENT (013)**

5010	Salaries & Wages	\$ 358,012
5020	Employee Benefits	78,763
5040	Travel - Out of State	6,990
5041	Travel - Local	115
5060	Office Rent	16,200
5070	Educational Assistance	9,188
5090	Cont. Serv. - Data Proc.	2,850
5094	Cont. Serv. - Lab.	69,600
5097	Cont. Serv. - Maint.	1,450
5102	Cont. Serv. - Other	284,750
5200	Materials & Supplies	18,350
5300	Office Supplies	1,900
5310	Publications	6,650
5500	Motor Vehicle Expense	1,750
6200	Capital Outlay	<u>147,650</u>
Total		<u>\$1,004,218</u>

WATER QUALITY MONITORING AND ANALYSIS (014)

5010	Salaries & Wages	\$334,808
5020	Employee Benefits	73,658
5070	Educational Assistance	2,250
5090	Cont. Serv. - Data Proc.	6,427
5097	Cont. Serv. - Maint.	7,020
5102	Cont. Serv. - Other	57,000
5200	Materials & Supplies	19,900
5210	Maint. Materials & Supplies	6,700
5500	Motor Vehicle Expense	4,800
5851	Leased Lines	13,000
6200	Capital Outlay	<u>16,500</u>
Total		<u>\$542,063</u>

LABORATORY SERVICES (015)

5010	Salaries & Wages	\$ 947,129
5020	Employee Benefits	208,368
5041	Travel - Local	592
5070	Educational Assistance	5,445
5090	Cont. Serv. - Data Proc.	1,285
5094	Cont. Serv. - Lab.	91,031
5097	Cont. Serv. - Maint.	23,903
5099	Cont. Serv. - Xerox	12,420
5101	Cont. Serv. - Janitorial	21,840
5200	Materials & Supplies	106,995
5300	Office Supplies	5,253
5310	Publications	1,874
5350	Dues & Subscriptions	1,035
5500	Motor Vehicle Expense	3,906
6200	Capital Outlay	<u>59,253</u>
Total		<u>\$1,490,329</u>

AIR QUALITY MONITORING (016)

5010	Salaries & Wages	\$122,531
5020	Employee Benefits	26,956
5070	Educational Assistance	1,215
5097	Cont. Serv. - Maint.	2,353
5102	Cont. Serv. - Other	42,136
5200	Materials & Supplies	14,392
5500	Motor Vehicle Expense	649
6200	Capital Outlay	<u>13,850</u>
Total		<u>\$224,082</u>

PERMITS ADMINISTRATION AND MONITORING (017)

5010	Salaries & Wages	\$ 76,577
5020	Employee Benefits	16,847
5070	Educational Assistance	1,275
5090	Cont. Serv. - Data Proc.	832
5094	Cont. Serv. - Lab.	1,685
5102	Cont. Serv. - Other	25,000
5200	Materials & Supplies	460
5300	Office Supplies	442
5310	Publications	565
5500	Motor Vehicle Expense	1,080
5620	Intcp. Rental Contract	108,500
6200	Capital Outlay	<u>12,000</u>
Total		<u>\$245,263</u>

ADMINISTRATIVE SERVICES ADMINISTRATION (018)

5010	Salaries & Wages	\$103,962
5020	Employee Benefits	22,872
5040	Travel - Out of State	6,000
5041	Travel - Local	200
5070	Educational Assistance	7,500
5102	Cont. Serv. - Other	10,000
5200	Materials & Supplies	500
5310	Publications	1,000
5350	Dues & Subscriptions	500
5999	Miscellaneous	<u>500</u>
Total		<u>\$153,034</u>

BUSINESS SERVICES ADMINISTRATION (019)

5010	Salaries & Wages	\$107,730
5020	Employee Benefits	23,701
5070	Educational Assistance	1,500
5099	Cont. Serv. - Xerox	55,000
5300	Office Supplies	46,640
5320	Postage	27,750
5330	Office Equipment Repair	5,000
5850	Telephone Service	<u>60,000</u>
Total		<u>\$327,321</u>



**HUMAN RESOURCES (020)**

5010	Salaries & Wages	\$ 94,975
5020	Employee Benefits	20,895
5045	Recruitment	15,000
5070	Educational Assistance	1,560
5102	Cont. Serv. - Other	92,500
5200	Materials & Supplies	500
5310	Publications	2,000
5340	Advertising	15,000
5999	Miscellaneous	357
Total		<u>\$242,787</u>

**LABOR RELATIONS (021)**

5010	Salaries & Wages	\$26,077
5020	Employee Benefits	5,737
5070	Educational Assistance	1,650
5091	Cont. Serv. - Admin.	32,000
5999	Miscellaneous	400
Total		<u>\$65,864</u>

**PURCHASING (022)**

5010	Salaries & Wages	\$146,222
5020	Employee Benefits	32,169
5070	Educational Assistance	2,254
5102	Cont. Serv. - Other	6,460
5200	Materials & Supplies	312
5340	Advertising	1,200
5350	Dues & Subscriptions	400
5500	Motor Vehicle Expense	7,020
6200	Capital Outlay	12,251
Total		<u>\$208,288</u>

**PROPERTY AND CASUALTY INSURANCE (023)**

5010	Salaries & Wages	\$ 56,880
5020	Employee Benefits	12,514
5700	Insurance - Auto	241,518
5701	Insurance - Blanket Bond	1,600
5702	Insurance - Bldg. & Prop.	384,275
5703	Insurance - General Liab.	132,965
5705	Insurance - Exc. Liab.	90,000
5706	Insurance - Other	2,800
Total		<u>\$922,552</u>

**COMPTROLLER ADMINISTRATION (024)**

5010	Salaries & Wages	\$129,961
5020	Employee Benefits	28,591
5070	Educational Assistance	4,276
5090	Cont. Serv. - Data Proc.	4,285
5350	Dues & Subscriptions	857
5500	Motor Vehicle Expense	1,391
5999	Miscellaneous	428
6200	Capital Outlay	9,641
Total		<u>\$179,430</u>

**ACCOUNTING AND COLLECTIONS (025)**

5010	Salaries & Wages	\$ 77,851
5020	Employee Benefits	17,127
5041	Travel - Local	332
5090	Cont. Serv. - Data Proc.	33,851
5092	Cont. Serv. - Auditing	31,452
6200	Capital Outlay	964
Total		<u>\$161,577</u>

**DISBURSEMENTS (026)**

5010	Salaries & Wages	\$103,469
5020	Employee Benefits	22,763
Total		<u>\$126,232</u>

**PAYROLL (027)**

5010	Salaries & Wages	\$105,820
5020	Employee Benefits	23,280
5070	Educational Assistance	750
5090	Cont. Serv. - Data Proc.	26,000
5350	Dues & Subscriptions	150
6200	Capital Outlay	643
Total		<u>\$156,643</u>

**DEBT SERVICE AND ACQUISITION COSTS (028)**

6010	Debt Serv.- Loc. Gov't.	\$1,167,682
6020	Debt Serv.- Met Council	27,382,304
6100	Acquisition Costs	4,163,491
Total		<u>\$32,713,477</u>

**AFFIRMATIVE ACTION (029)**

5010	Salaries & Wages	\$ 78,779
5020	Employee Benefits	17,331
5040	Travel - Out of State	2,000
5041	Travel - Local	483
5070	Educational Assistance	2,303
5102	Cont. Serv. - Other	3,300
5350	Dues & Subscriptions	1,040
5500	Motor Vehicle Expense	1,200
5999	Miscellaneous	857
6200	Capital Outlay	536
	<b>Total</b>	<b>\$107,829</b>

**CAREER DEVELOPMENT (030)**

5041	Travel - Local	\$ 300
5070	Educational Assistance	9,750
5102	Cont. Serv. - Other	40,532
5200	Materials & Supplies	2,500
5310	Publications	258
5999	Miscellaneous	103
	<b>Total</b>	<b>\$53,443</b>

**MANAGEMENT INFORMATION SYSTEMS (031)**

5010	Salaries & Wages	\$287,724
5020	Employee Benefits	63,299
5041	Travel - Local	2,300
5070	Educational Assistance	54,236
5093	Cont. Serv. - Engineering	40,000
5097	Cont. Serv. - Maint.	170,875
5102	Cont. Serv. - Other	2,000
5200	Materials & Supplies	81,634
5300	Office Supplies	1,500
5310	Publications	1,000
5500	Motor Vehicle Expense	2,500
5850	Telephone Service	51,600
5999	Miscellaneous	104
6200	Capital Outlay	213,516
	<b>Total</b>	<b>\$972,288</b>

**ASH REMOVAL - (PRIOR) (032)**

5102	Cont. Serv. - Other	\$550,000
	<b>Total</b>	<b>\$550,000</b>

**REGULATOR SYSTEM (033)**

5010	Salaries & Wages	\$209,067
5020	Employee Benefits	46,006
5041	Travel - Local	162
5070	Educational Assistance	390
5085	Medical Aids	77
5095	Cont. Serv. - Laundry	2,184
5097	Cont. Serv. - Maint.	13,905
5200	Materials & Supplies	5,000
5210	Maint. Materials & Suppl.	24,380
5300	Office Supplies	409
5500	Motor Vehicle Expense	21,817
5800	Utilities - Electric	7,437
5851	Leased Lines	16,799
5999	Miscellaneous	139
6200	Capital Outlay	30,004
	<b>Total</b>	<b>\$377,776</b>

**INTERCEPTOR SYSTEM ADMINISTRATION (034)**

5010	Salaries & Wages	\$240,970
5020	Employee Benefits	53,013
5041	Travel - Local	50
5070	Educational Assistance	5,925
5095	Cont. Serv. - Laundry	167
5097	Cont. Serv. - Maint.	12,650
5098	Cont. Serv. - Operations	1,000
5099	Cont. Serv. - Xerox	1,000
5101	Cont. Serv. - Janitorial	9,600
5300	Office Supplies	1,500
5310	Publications	1,124
5330	Office Equip. Repair	1,537
5500	Motor Vehicle Expense	3,680
5800	Utilities - Electric	12,000
5802	Utilities - Gas	27,000
5850	Telephone Service	16,956
5851	Leased Lines	2,505
6200	Capital Outlay	9,360
	<b>Total</b>	<b>\$400,037</b>

**INTERCEPTOR SYSTEM MAINTENANCE (035)**

5010	Salaries & Wages	\$275,571
5020	Employee Benefits	60,625
5041	Travel - Local	1,000
5070	Educational Assistance	1,500
5085	Medical Aids	200
5095	Cont. Serv. - Laundry	1,820
5097	Cont. Serv. - Maint.	46,800
5102	Cont. Serv. - Other	6,200
5200	Materials & Supplies	27,000
5210	Maint. Materials & Suppl.	20,800
5300	Office Supplies	5,000
5500	Motor Vehicle Expense	21,400
5620	Intcp. Rental Contract	128,427
5630	Intcp. Maint. Contract	135,700
5999	Miscellaneous	100
6200	Capital Outlay	<u>98,500</u>
Total		<u>\$830,643</u>

**LIFT STATIONS (036)**

5010	Salaries & Wages	\$1,137,244
5020	Employee Benefits	250,194
5041	Travel - Local	1,200
5070	Educational Assistance	3,450
5085	Medical Aids	800
5095	Cont. Serv. - Laundry	10,900
5097	Cont. Serv. - Maint.	116,700
5100	Cont. Serv. - Sldg. Rem.	3,900
5102	Cont. Serv. - Other	11,400
5200	Materials & Supplies	84,500
5210	Maint. Materials & Suppl.	139,400
5300	Office Supplies	10,000
5500	Motor Vehicle Expenses	59,160
5800	Utilities - Elec.	630,800
5802	Utilities - Gas	51,600
5803	Utilities - Water	6,000
5850	Telephone Service	15,000
5851	Leased Lines	42,100
5905	Chemicals - Acid	2,500
5940	Chlorine	3,000
6200	Capital Outlay	<u>121,500</u>
Total		<u>\$2,701,348</u>

**METERING STATIONS (037)**

5010	Salaries & Wages	\$390,485
5020	Employee Benefits	85,907
5041	Travel - Local	500
5070	Educational Assistance	2,625
5085	Medical Aids	200
5095	Cont. Serv. - Laundry	3,434
5097	Cont. Serv. - Maint.	45,500
5102	Cont. Serv. - Other	3,000
5200	Materials & Supplies	28,990
5210	Maint. Materials & Suppl.	48,855
5300	Office Supplies	500
5500	Motor Vehicle Expense	25,000
5800	Utilities - Electric	35,190
5851	Leased Lines	98,700
5940	Chlorine	750
6200	Capital Outlay	<u>54,550</u>
Total		<u>\$824,186</u>

**EMPIRE PLANT (038)**

5010	Salaries & Wages	\$ 981,135
5020	Employee Benefits	215,850
5041	Travel - Local	1,454
5070	Educational Assistance	2,912
5085	Medical Aids	309
5090	Cont. Serv. - Data Proc.	11,000
5095	Cont. Serv. - Laundry	5,781
5097	Cont. Serv. - Maint.	77,000
5098	Cont. Serv. - Operations	7,200
5099	Cont. Serv. - Xerox	1,250
5100	Cont. Serv. - Sldg. Rem.	5,000
5102	Cont. Serv. - Other	1,800
5200	Materials & Supplies	26,000
5210	Maint. Materials & Suppl.	56,000
5300	Office Supplies	2,000
5330	Office Equip. Repair	1,000
5500	Motor Vehicle Expense	14,920
5800	Utilities - Electric	221,021
5801	Utilities - Fuel	39,050
5802	Utilities - Gas	7,725
5850	Telephone Service	4,585
5903	Chemicals - Other	4,000
5904	Polymers	40,933
5940	Chlorine	5,229
5999	Miscellaneous	515
6200	Capital Outlay	<u>40,500</u>
Total		<u>\$1,774,169</u>

**OPERATIONS - METRO (039)**

5010	Salaries & Wages	\$11,926,781
5020	Employee Benefits	2,623,892
5041	Travel - Local	1,000
5070	Educational Assistance	70,280
5080	Safety	32,000
5090	Cont. Serv. - Data Proc.	1,040
5095	Cont. Serv. - Laundry	70,967
5098	Cont. Serv. - Operations	625,859
5099	Cont. Serv. - Xerox	31,200
5100	Cont. Serv. - Sldg. Rem.	246,180
5101	Cont. Serv. - Janitorial	15,704
5102	Cont. Serv. - Other	277,433
5200	Materials & Supplies	500,000
5300	Office Supplies	23,000
5330	Office Equipment Repair	800
5370	Flood Control	10,000
5500	Motor Vehicle Expense	87,205
5800	Utilities - Electrical	6,936,400
5801	Utilities - Fuel	86,000
5802	Utilities - Gas	865,132
5803	Utilities - Water	92,400
5850	Telephone Service	119,600
5902	Chemicals - Lime	18,530
5903	Chemicals - Other	506,918
5904	Polymers	883,350
5905	Chemicals - Acid	21,450
5940	Chlorine	188,452
5999	Miscellaneous	5,000
6200	Capital Outlay	237,000
Total		<u>\$26,503,573</u>

**OPERATIONS - METRO MAINTENANCE (040)**

5010	Salaries & Wages	\$ 6,802,243
5020	Employee Benefits	1,496,494
5041	Travel - Local	1,000
5070	Educational Assistance	73,212
5097	Cont. Serv. - Maint.	1,059,500
5099	Cont. Serv. - Xerox	1,000
5101	Cont. Serv. - Janitorial	50,000
5102	Cont. Serv. - Other	2,000
5210	Maint. Materials & Suppl.	2,347,650
5300	Office Supplies	12,000
5500	Motor Vehicle Expense	43,500
5999	Miscellaneous	1,000
6200	Capital Outlay	227,342
Total		<u>\$12,116,941</u>

**SENECA PLANT (041)**

5010	Salaries & Wages	\$1,635,149
5020	Employee Benefits	359,733
5041	Travel - Local	350
5070	Educational Assistance	5,900
5085	Medical Aids	600
5095	Cont. Serv. - Laundry	5,200
5097	Cont. Serv. - Maint.	156,350
5098	Cont. Serv. - Operations	85,000
5099	Cont. Serv. - Xerox	2,000
5101	Cont. Serv. - Janitorial	20,000
5200	Materials & Supplies	43,000
5210	Maint. Materials & Suppl.	150,000
5300	Office Supplies	3,000
5330	Office Equipment Repair	300
5350	Dues & Subscriptions	250
5500	Motor Vehicle Expense	5,700
5800	Utilities - Electrical	370,000
5801	Utilities - Fuel	22,000
5802	Utilities - Gas	375,000
5803	Utilities - Water	6,500
5850	Telephone Service	16,000
5900	Chemicals - Ferr. Chlor.	4,000
5901	Chemicals - Potassium	139,000
5902	Chemicals - Lime	3,500
5903	Chemicals - Other	5,200
5904	Polymers	95,000
5940	Chlorine	116,000
5999	Miscellaneous	3,000
6200	Capital Outlay	28,500
Total		<u>\$3,656,232</u>

**BLUE LAKE PLANT (042)**

5010	Salaries & Wages	\$1,129,808
5020	Employee Benefits	248,558
5041	Travel - Local	460
5070	Educational Assistance	2,805
5085	Medical Aids	107
5095	Cont. Serv. - Laundry	4,724
5097	Cont. Serv. - Maint.	18,320
5099	Cont. Serv. - Xerox	2,100
5102	Cont. Serv. - Other	4,400
5200	Materials & Supplies	29,129
5210	Maint. Materials & Suppl.	41,200
5300	Office Supplies	685
5320	Postage	396
5330	Office Equipment Repair	257
5350	Dues & Subscriptions	500
5500	Motor Vehicle Expense	188,950
5800	Utilities - Electrical	251,000
5801	Utilities - Fuel	312
5802	Utilities - Gas	24,275
5803	Utilities - Water	17,500
5850	Telephone Service	6,240

**BLUE LAKE PLANT (042) - (Cont.)**

5903	Chemicals - Other	312
5940	Chlorine	18,300
5999	Miscellaneous	312
6200	Capital Outlay	<u>29,900</u>
	Total	<u>\$2,020,550</u>

**CHASKA PLANT (043)**

5010	Salaries & Wages	\$102,688
5020	Employee Benefits	22,591
5041	Travel - Local	124
5070	Educational Assistance	225
5095	Cont. Serv. - Laundry	941
5097	Cont. Serv. - Maint.	7,500
5102	Cont. Serv. - Other	1,236
5200	Materials & Supplies	3,090
5210	Maint. Materials & Suppl.	8,500
5500	Motor Vehicle Expense	1,430
5800	Utilities - Electric	36,115
5801	Utilities - Fuel	450
5803	Utilities - Water	3,250
5850	Telephone Service	842
5851	Leased Lines	827
5903	Chemicals - Other	54,907
5940	Chlorine	1,560
5999	Miscellaneous	300
6200	Capital Outlay	<u>6,000</u>
	Total	<u>\$252,576</u>

**ANOKA PLANT (044)**

5010	Salaries & Wages	\$159,669
5020	Employee Benefits	35,127
5070	Educational Assistance	312
5095	Cont. Serv. - Laundry	778
5097	Cont. Serv. - Maint.	4,120
5100	Cont. Serv. - Sldg. Rem.	515
5102	Cont. Serv. - Other	618
5200	Materials & Supplies	4,120
5210	Maint. Materials & Suppl.	10,403
5500	Motor Vehicle Expense	10,716
5800	Utilities - Electric	67,138
5801	Utilities - Fuel	3,677
5803	Utilities - Water	3,000
5850	Telephone Service	896
5851	Leased Lines	800
5903	Chemicals - Other	536
5940	Chlorine	11,160
5999	Miscellaneous	<u>206</u>
	Total	<u>\$313,791</u>

**BAYPORT PLANT (045)**

5010	Salaries & Wages	\$104,052
5020	Employee Benefits	22,891
5070	Educational Assistance	1,028
5095	Cont. Serv. - Laundry	528
5097	Cont. Serv. - Maint.	8,740
5099	Cont. Serv. - Xerox	300
5100	Cont. Serv. - Sldg. Rem.	2,000
5102	Cont. Serv. - Other	3,043
5200	Materials & Supplies	2,308
5210	Maint. Materials & Suppl.	11,910
5500	Motor Vehicle Expense	14,211
5800	Utilities - Electrical	39,426
5801	Utilities - Fuel	1,545
5802	Utilities - Gas	7,471
5803	Utilities - Water	6,215
5850	Telephone Service	623
5851	Leased Lines	1,235
5903	Chemicals - Other	21,971
5940	Chlorine	1,240
5999	Miscellaneous	412
6200	Capital Outlay	<u>13,490</u>
	Total	<u>\$264,639</u>

**COTTAGE GROVE PLANT (046)**

5010	Salaries & Wages	\$ 197,954
5020	Employee Benefits	43,550
5070	Educational Assistance	1,090
5095	Cont. Serv. - Laundry	853
5097	Cont. Serv. - Maint.	14,881
5099	Cont. Serv. - Xerox	300
5100	Cont. Serv. - Sldg. Rem.	25,750
5102	Cont. Serv. - Other	1,860
5200	Materials & Supplies	3,633
5210	Maint. Materials & Suppl.	22,426
5500	Motor Vehicle Expense	16,480
5800	Utilities - Electrical	40,148
5801	Utilities - Fuel	2,000
5802	Utilities - Gas	17,058
5850	Telephone Service	904
5851	Leased Lines	556
5903	Chemicals - Other	785
5940	Chlorine	3,968
5999	Miscellaneous	515
6200	Capital Outlay	<u>13,490</u>
	Total	<u>\$ 408,201</u>

**HASTINGS PLANT (047)**

5010	Salaries & Wages	\$204,999
5020	Employee Benefits	45,100
5070	Educational Assistance	2,280
5095	Cont. Serv. - Laundry	1,440
5097	Cont. Serv. - Maint.	10,834
5099	Cont. Serv. - Xerox	312
5100	Cont. Serv. - Sldg. Rem.	25,750
5102	Cont. Serv. - Other	1,923
5200	Materials & Supplies	4,084
5210	Maint. Materials & Suppl.	18,803
5500	Motor Vehicle Expense	18,740
5800	Utilities - Electrical	54,727
5801	Utilities - Fuel	2,000
5802	Utilities - Gas	18,058
5803	Utilities - Water	1,106
5850	Telephone Service	1,202
5851	Leased Lines	1,418
5903	Chemicals - Other	4,566
5940	Chlorine	3,324
5999	Miscellaneous	536
6200	Capital Outlay	13,490

Total \$434,692

**STILLWATER PLANT (048)**

5010	Salaries & Wages	\$217,307
5020	Employee Benefits	47,808
5070	Educational Assistance	1,792
5095	Cont. Serv. - Laundry	1,165
5097	Cont. Serv. - Maint.	19,282
5099	Cont. Serv. - Xerox	300
5100	Cont. Serv. - Sldg. Rem.	5,000
5102	Cont. Serv. - Other	3,660
5200	Materials & Supplies	2,972
5210	Maint. Materials & Suppl.	32,257
5500	Motor Vehicle Expense	29,340
5800	Utilities - Electrical	40,000
5801	Utilities - Fuel	2,000
5802	Utilities - Gas	18,249
5850	Telephone Service	958
5851	Leased Lines	1,128
5903	Chemicals - Other	68,380
5940	Chlorine	2,520
5999	Miscellaneous	515
6200	Capital Outlay	20,050

Total \$ 514,683

**SAVAGE PLANT (049)**

5010	Salaries & Wages	\$ 74,735
5020	Employee Benefits	16,442
5041	Travel - Local	92
5070	Educational Assistance	150
5095	Cont. Serv. - Laundry	547
5097	Cont. Serv. - Maint.	1,500
5102	Cont. Serv. - Other	496
5200	Materials & Supplies	964
5210	Maint. Materials & Suppl.	1,560
5800	Utilities - Electrical	13,923
5801	Utilities - Fuel	125
5802	Utilities - Gas	5,722
5803	Utilities - Water	2,470
5850	Telephone Service	835
5851	Leased Lines	690
5903	Chemicals - Other	312
5940	Chlorine	1,307
5999	Miscellaneous	200

Total \$122,070

**ROSEMOUNT PLANT (050)**

5010	Salaries & Wages	\$355,257
5020	Employee Benefits	78,157
5041	Travel - Local	300
5070	Educational Assistance	1,335
5085	Medical Aids	206
5095	Cont. Serv. - Laundry	2,500
5097	Cont. Serv. - Maint.	12,480
5098	Cont. Serv. - Oper.	1,236
5100	Cont. Serv. - Sldg. Rem.	46,944
5102	Cont. Serv. - Other	750
5200	Materials & Supplies	23,300
5210	Maint. Materials & Suppl.	18,720
5500	Motor Vehicle Expense	1,545
5800	Utilities - Electrical	38,791
5801	Utilities - Fuel	3,200
5802	Utilities - Gas	17,512
5850	Telephone Service	3,043
5900	Chemicals - Ferr. Chlor.	7,848
5902	Chemicals - Lime	22,622
5903	Chemicals - Other	35,854
5940	Chlorine	2,876
5999	Miscellaneous	103
6200	Capital Outlay	3,000

Total \$677,579

OPERATIONS ADMINISTRATION (051)

5010	Salaries & Wages	\$226,741
5020	Employee Benefits	49,883
5040	Travel - Local	900
5041	Travel - Out of State	230
5070	Educational Assistance	10,294
5102	Cont. Serv. - Other	7,500
5500	Motor Vehicle Expense	3,267
5999	Miscellaneous	500
6200	Capital Outlay	<u>7,672</u>
	Total	<u>\$306,987</u>

PROCESS ASSURANCE (052)

5010	Salaries & Wages	\$153,654
5020	Employee Benefits	33,804
5041	Travel - Local	474
5070	Educational Assistance	6,240
5102	Cont. Serv. - Other	1,607
5200	Materials & Supplies	1,607
5300	Office Supplies	857
5999	Miscellaneous	160
6200	Capital Outlay	<u>1,821</u>
	Total	<u>\$200,224</u>

ENGINEERING & CONSTRUCTION SERVICES (053)

5010	Salaries & Wages	\$265,521
5020	Employee Benefits	58,414
5041	Travel - Local	2,000
5200	Materials & Supplies	<u>1,000</u>
	Total	<u>\$326,935</u>

# SUMMARY OF DEBT SERVICE

	<u>Proposed 1987</u>	<u>Budget 1986</u>	<u>Actual 1985</u>
Treatment Works	\$20,499,623	\$20,040,627	\$19,003,706
Interceptor System			
Service Areas:			
1. Minneapolis-St. Paul	2,961,392	2,281,221	2,007,305
2. North Suburban	1,781,657	1,503,422	957,310
3. Anoka	631,475	617,616	523,509
4. Southwest	1,436,470	1,178,731	1,143,668
5. Bloomington-Eagan-Burnsville	661,472	527,798	565,449
6. Southeast	<u>577,897</u>	<u>514,505</u>	<u>521,406</u>
TOTALS	<u>\$28,549,986</u>	<u>\$26,663,920</u>	<u>\$24,722,353</u>



# METROPOLITAN COUNCIL SEWER BOND FUND DEBT SERVICE

Required Fund Balance 10/1/86	\$40,349,900
Less: Debt service payments 10/2/86 - 10/1/87	<u>24,162,900</u>
Balance (Debt Service payments 11/1/87 - 1/1/88)	16,187,000
Required Balance 10/1/87	<u>42,144,500</u>
Balance due Metropolitan Council by 10/1/87	<u>\$25,957,500</u>
Less: Interest to be earned October 1, 1987 through September 30, 1988	<u>3,600,000</u>
	\$22,357,500
Add: Required payment on \$45.8 million bond sale of May, 1986	<u>3,960,190</u>
	\$26,317,690
Add: 1987 payment due SAC funds: Advance #1 to the Metropolitan Council	
Principal	866,667
Interest (11.42%)	<u>197,947</u>
	<u>1,064,614</u>
Program Budget Requirement	<u>\$27,382,304</u>

## Apportioned to:

<u>Cost Pool</u>	<u>Capital Improvements</u>	<u>% Of Debt Service</u>	<u>Amount</u>
Treatment Works	\$ 524,251,000	73.46	\$ 20,115,040
SA #1	69,724,000	9.77	2,675,251
SA #2	42,106,000	5.90	1,615,556
SA #3	16,343,000	2.29	627,055
SA #4	35,611,000	4.99	1,366,377
SA #5	11,062,000	1.55	424,426
SA #6	<u>14,558,000</u>	<u>2.04</u>	<u>558,599</u>
 TOTALS	 <u>\$713,655,000</u>	 <u>100.00</u>	 <u>\$27,382,304</u>

# Local Government Debt Service 1987

## Service Area 1 - Minneapolis/St. Paul

	<u>Treatment Works</u>	<u>Interceptors</u>	<u>Total</u>
Birchwood	\$	\$ 614.00	\$
Forest Lake Township	2,618.00		
Little Canada		75,000.91	
Mendota Heights		10,000.00	
Oakdale		52,722.00	
Plymouth		10,176.00	
St. Paul		72,151.14	
Shoreview*		29,010.38	
White Bear Lake		7,244.00	
Woodbury		<u>29,223.00</u>	
	\$ <u>2,618.00</u>	\$ <u>286,141.43</u>	\$ <u>288,759.43</u>

## Service Area 2 - North Suburban

Shoreview*	\$	\$ 17,351.52	\$
Circle Pines		2,470.65	
Coon Rapids		33,213.00	
New Brighton		110,411.00	
Spring Lake Park		<u>2,655.00</u>	
	\$	\$ <u>166,101.17</u>	\$ <u>166,101.17</u>

## Service Area 3 - Anoka

Anoka	\$ 45,467.00	\$	\$
Champlin		<u>4,420.48</u>	
	\$ <u>45,467.00</u>	<u>4,420.48</u>	<u>49,887.48</u>

\* Located in 2 Service Areas

# Service Area 4 - Southwest

	<u>Treatment Works</u>	<u>Interceptors</u>	<u>Total</u>
Deephaven	\$	\$ 17,857.90	\$
Greenwood		3,189.08	
Long Lake	9,680.00		
Medina	4,602.00		
Minnetrista		28,916.26	
Mound	21,216.72	20,129.42	
Savage	<u>10,881.00</u>		
	\$ <u>46,379.72</u>	\$ <u>70,092.66</u>	<u>\$116,472.38</u>

# Service Area 5 - Bloomington/Eagan/Burnsville

Bloomington	\$	\$ 8,415.51	\$
Burnsville	13,346.00	190,592.00	
Eagan	<u>3,873.02</u>	<u>38,038.00</u>	
	\$ <u>17,219.02</u>	<u>\$237,045.51</u>	<u>\$254,264.53</u>

# Service Area 6 - Southeast

Apple Valley	\$ 11,333.47	\$ 19,297.53	\$
Cottage Grove	34,463.95		
Hastings	43,790.00		
Inver Grove Heights	15,194.00		
Lakeville	5,064.00		
Newport	5,217.00		
Oak Park Heights	13,862.00		
South St. Paul	<u>143,975.00</u>		
	<u>\$272,899.42</u>	<u>\$ 19,297.53</u>	<u>\$292,196.95</u>
GRAND TOTAL	<u>\$384,583.16</u>	<u>\$783,098.78</u>	<u>\$1,167,681.94</u>

1987  
SUMMARY OF ACQUISITION COSTS

Treatment Works	\$	577,065
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Interceptor System

Service Areas:

1. Minneapolis - St. Paul	2,999,106
2. North Suburban	212,070
3. Anoka	489
4. Southwest	74,057
5. Bloomington-Eagan-Burnsville	296,774
6. Southeast	<u>3,930</u>

TOTAL	<u>\$4,163,491</u>
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1987  
LOCAL GOVERNMENT CURRENT VALUE CREDIT

Anoka	\$15,901	Forest Lake Twp.	\$ 53
Apple Valley	6,083	Fridley	26,965
Arden Hills	11,924	Golden Valley	131,187
Bayport	7,673	Greenwood	1,401
Birchwood	257	Hastings	14,284
Blaine	7,352	Hilltop	42
Bloomington	200,659	Hopkins	27,454
Brooklyn Center	14,581	Inver Grove Heights	1,435
Brooklyn Park	60,157	Lakeville	8,255
Burnsville	103,123	Landfall	354
Champlin	1,025	Lauderdale	1,222
Chanhassen	1,858	Lexington	586
Chaska	7,075	Little Canada	2,345
Circle Pines	1,006	Long Lake	1,028
Columbia Heights	22,272	Mahtomedi	2,870
Coon Rapids	25,209	Maple Plain	6,818
Cottage Grove	5,537	Maplewood	23,902
Crystal	42,343	Medicine Lake	1,408
Deephaven	11,620	Medina	38
Eagan	27,418	Mendota Heights	28,926
Eden Prairie	3,494	Minneapolis	1,426,356
Edina	61,020	Minnetonka	16,639
Excelsior	3,521	Minnetrista	543
Falcon Heights	2,204	Mound	10,344
Farmington	10,999	Mounds View	3,561
Forest Lake	8,807		

Local Government Current Value Credit (continued)

New Brighton	\$ 77,192	Tonka Bay	\$ 1,684
New Hope	46,523	Vadnais Heights	195
Newport	595	Victoria	2,535
North St. Paul	30,968	Waconia	15,245
Oakdale	1,150	Wayzata	22,674
Oak Park Heights	39	West St. Paul	7,376
Orono	33,988	White Bear Lake	41,047
Osseo	14,928	White Bear Township	2,173
Plymouth	217	Willernie	1,053
Prior Lake	2,459	Woodbury	<u>2,647</u>
Richfield	133,042		
Robbinsdale	5,150	TOTAL	<u>\$4,163,491</u>
Rosemount	4,372		
Roseville	93,959		
St. Anthony	8,778		
St. Louis Park	78,231		
St. Paul	1,033,404		
St. Paul Park	7,394		
Savage	1,872		
Shakopee	9,064		
Shoreview	23,680		
Shorewood	391		
South St. Paul	41,712		
Spring Lake Park	3,183		
Spring Park	2,926		
Stillwater	10,511		

**ALLOCATION OF CURRENT USE COSTS**

<u>Local Government</u>	<u>Est. Flow (MG)</u>	<u>Lake Overflow Adjustments</u>	<u>Treatment Works</u>	<u>Service Area</u>	<u>Total</u>
Andover	112		\$ 81,016.47	\$ 19,902.83	\$ 100,919.30
Anoka	760		550,163.48	278,834.29	828,997.77
Apple Valley	855		618,851.36	99,358.01	718,209.37
Arden Hills	450		325,753.72	45,891.54	371,645.26
Bayport	190		137,522.53	.00	137,522.53
Birchwood	31		22,455.65	3,160.24	25,615.89
Blaine	980		709,334.42	174,156.12	883,490.54
Bloomington	3,520		2,547,982.69	437,802.91	2,985,785.60
Brooklyn Center	1,195		865,056.30	121,873.41	986,929.71
Brooklyn Park	1,740		1,259,497.90	309,215.21	1,568,713.11
Burnsville	1,715		1,241,371.94	213,304.39	1,454,676.33
Centerville	40		28,986.87	7,108.68	36,095.55
Champlin	270		195,496.27	75,412.31	270,908.58
Chanhassen	365		264,184.14	105,799.47	369,983.61
Chaska	395		285,905.95	.00	285,905.95
Circle Pines	110		79,622.17	19,547.77	99,169.94
Columbia Heights	520		376,389.02	53,036.12	429,425.14
Coon Rapids	1,230		890,373.94	218,583.55	1,108,957.49
Cottage Grove	520		376,389.03	.00	376,389.03
Crystal	910		658,699.13	92,800.65	751,499.78
Deephaven	140		101,343.97	40,580.17	141,924.14
Eagan	1,490		1,078,531.77	185,319.53	1,263,851.30
Eden Prairie	1,190		861,387.07	344,933.49	1,206,320.56
Edina	2,690		1,947,183.91	274,345.98	2,221,529.89
Empire Township	20		14,456.74	2,313.96	16,770.70
Excelsior	115		83,291.39	33,335.18	116,626.57
Falcon Heights	395	6	290,248.83	40,892.36	331,141.19
Farmington	395		285,905.95	45,702.26	331,608.21
Forest Lake	320		231,674.82	32,634.30	264,309.12
Forest Lake Twp.	135		97,674.75	13,773.20	111,447.95
Fridley	1,390		1,006,174.66	209,148.56	1,215,323.22
Gem Lake	11		7,998.91	1,125.08	9,123.99
Golden Valley	1,350		977,187.80	137,681.78	1,114,869.58
Greenfield	5		3,595.84	1,451.06	5,046.90
Greenwood	23		16,658.27	6,667.04	23,325.31
Hastings	630		456,084.57	.00	456,084.57
Hilltop	31		22,382.27	3,160.23	25,542.50
Hopkins	795		575,481.13	82,578.01	658,059.14
Hugo	51		36,912.39	5,202.57	42,114.96

<u>Local Government</u>	<u>Est. Flow (MG)</u>	<u>Lake Overflow Adjustments</u>	<u>Treatment Works</u>	<u>Service Area</u>	<u>Total</u>
Independence	8		\$ 5,797.37	\$ 2,317.98	\$ 8,115.35
Inver Grove Heights	495		358,336.44	57,272.05	415,608.49
Lake Elmo	1		733.85	100.32	834.17
Lakeville	840		608,063.84	97,292.71	705,356.55
Landfall	23		16,584.89	2,343.31	18,928.20
Lauderdale	80		57,973.74	8,162.16	66,135.90
Lexington	49		35,444.71	8,707.96	44,152.67
Laketown Township	21		15,190.59	6,087.02	21,277.61
Lilydale	21		15,190.59	2,142.65	17,333.24
Lino Lakes	175		30,381.18	7,463.75	37,844.93
Little Canada	315	121	315,588.69	44,465.79	360,054.48
Long Lake	110		79,622.17	31,884.13	111,506.30
Mahtomedi	144		104,279.35	14,683.29	118,962.64
Maple Grove	960		694,877.68	170,601.03	865,478.71
Maple Plain	130		94,078.91	37,682.17	131,761.08
Maplewood	1,710	408	\$ 1,533,196.02	\$ 216,003.26	\$ 1,749,199.28
Medicine Lake	14		10,127.06	1,426.05	11,553.11
Medina	120		86,813.85	23,569.03	110,382.88
Mendota	15		10,860.91	1,526.37	12,387.28
Mendota Heights	575		416,236.79	58,647.15	474,883.94
Minneapolis	24,900		18,024,036.59	2,539,420.11	20,563,456.70
Minnetonka	2,020		1,462,185.85	585,518.56	2,047,704.41
Minnetonka Beach	26		18,786.43	7,536.02	26,322.45
Mound	415		300,436.08	120,291.51	420,727.59
Minnetrista	70		50,635.29	20,290.08	70,925.37
Mounds View	480		347,475.53	85,301.25	432,776.78
New Brighton	900		651,434.07	159,938.75	811,372.82
New Hope	1,040		752,851.43	106,065.06	858,916.49
Newport	112		81,016.47	12,958.63	93,975.10
North Oaks	16		11,594.75	1,633.86	13,228.61
North St. Paul	590	75	481,389.78	67,822.71	549,212.49
Oakdale	675	80	546,501.31	76,995.79	623,497.10
Oak Park Heights	130		94,078.91	15,041.01	109,119.92
Orono	225		162,913.56	65,219.31	228,132.87
Osseo	112		81,016.47	19,902.84	100,919.31
Plymouth	2,260		1,635,960.31	230,482.44	1,866,442.75
Prior Lake	395		285,905.95	114,495.51	400,401.46
Ramsey	8		5,797.37	2,934.99	8,732.36
Richfield	990		716,599.49	100,969.98	817,569.47



<u>Local Government</u>	<u>Est. Flow (MG)</u>	<u>Lake Overflow Adjustments</u>	<u>Treatment Works</u>	<u>Service Area</u>	<u>Total</u>
Robbinsdale	500		\$ 361,932.27	\$ 50,993.78	\$ 412,926.05
Rosemount	150		108,609.04	17,354.97	125,964.01
Roseville	1,880	58	1,402,825.30	197,643.33	1,600,468.63
St. Anthony	420		304,031.92	42,831.62	346,863.54
St. Louis Park	2,460		1,780,674.51	250,884.25	2,031,558.76
St. Paul	18,700	(915)	12,873,728.25	1,813,805.50	14,687,533.75
St. Paul Park	142		102,811.66	16,429.86	119,241.52
Savage	275		199,092.11	.00	199,092.11
Shakopee	870		629,712.26	252,179.12	881,891.38
Shoreview	795		575,481.12	98,117.36	673,598.48
Shorewood	255		184,561.98	73,913.28	258,475.26
South St. Paul	1,990		1,440,464.05	230,244.86	1,670,708.91
Spring Park	112		81,089.85	32,464.14	113,553.99
Spring Lake Park	230		166,509.40	40,872.35	207,381.75
St. Bonifacius	32		23,189.49	9,276.05	32,465.54
Stillwater	890		644,169.01	.00	644,169.01
Stillwater Twp.	1		733.84	.00	733.84
Tonka Bay	70		50,708.68	20,290.09	70,998.77
Vadnais Heights	260	54	227,236.75	32,021.32	259,258.07
Victoria	66		47,773.30	19,132.12	66,905.42
Waconia	175		126,661.62	50,725.21	177,386.83
Wayzata	255		184,635.36	73,913.29	258,548.65
West St. Paul	980		709,334.43	99,945.23	809,279.66
White Bear Lake	840	113	689,862.89	97,195.13	787,058.02
White Bear Township	250		180,966.14	25,489.72	206,455.86
Willernie	16		11,594.75	1,633.87	13,228.62
Woodbury	645		466,872.09	65,784.56	532,656.65
<b>TOTAL</b>			<u>\$73,384,484.36</u>	<u>\$12,474,969.86</u>	<u>\$85,859,454.22</u>

# Construction Fund - Revenues & Expenditures

Total  
Program

FUND BALANCE - December 31, 1985

\$ 15,416,164

## REVENUES:

Certified Federal Grants (Schedule 8)	\$25,083,541	
Less:		
Contingency Reserve for Final Audits	<u>750,000</u>	
Net Certified Federal Grants		\$24,333,541
Certified State Grants (Schedule 9)		19,462,568
Investment Income (Schedule 10)		1,300,000
Miscellaneous		50,000
Due from Local Governments		<u>60,000</u>
Total Estimated Revenues		\$45,206,109

## EXPENDITURES:

Previously Authorized Projects		
Encumbered Balance (Schedule 11)		43,772,508
Unencumbered Balance (Schedule 11)		113,655,388
Approp. Adjustments (Schedule 11)		<u>11,585,346</u>
Total Previously Authorized Projects		169,013,242
Total New Projects (Schedule 13)		1,544,000
Total Estimated Expenditures		170,557,242
Local Funds Applied (Expenditures-Revenues)		125,351,133

\*ESTIMATED FUND BALANCE

\$(109,934,969)

\*This amount has been reduced in the amount of \$40,399,000 received 6/25/86 which was the proceeds on the May 21, 1986 \$45,800,000 Bond Sale.

**CERTIFIED FEDERAL GRANTS**

<u>Project No.</u>	<u>Grant</u>	<u>Project</u>	<u>Total Grants Receivable</u>	<u>Earned As Of 12/31/85</u>	<u>Balance Due</u>	<u>Estimated Amount 1986</u>	<u>Estimated Amount 1987</u>
74-01 (403)	000-04	MMWTP - Digital Control System	\$ 6,641,439	\$ 6,584,272	\$ 57,167	\$ 57,167	\$ 0
74-01(408)	000-06	MMWTP - Sludge Processing	56,653,725	56,652,975	750	750	0
201	999-01	Facilities Planning Study	4,427,550	4,239,258	188,292	188,292	0
201	999-02	Facilities Planning Study	2,692,725	2,608,869	83,856	83,856	0
76-07	100-02	MMWTP Retrofit Process Control Step III	10,194,600	3,494,939	6,699,661	3,317,859	2,130,000
79-06	008-02	Hastings Plant Improvements Step III	6,233,400	5,843,075	390,325	225,000	60,000
79-79	999-04	Metro Area I/I Analysis	3,055,479	2,594,272	461,207	461,207	0
79-80	103-02	MMWTP Add'l. Secondary Treat. Facility - Step III	15,167,250	13,992,971	1,174,279	925,000	249,279
77-05	134-01	Lower Beltline Intcp.	2,490,300	1,447,163	1,043,137	711,500	331,637
82-56	097-01	MMWTP Screen & Grit Rehab.	3,836,910	0	3,836,910	2,100,000	1,736,910
82-57	097-02	MMWTP Primary Sett'l. Tank Rehab.	7,278,920	0	7,278,920	3,150,000	2,000,000
82-58	097-03	MMWTP Secondary Treat. Rehab.	2,168,925	1,200,385	968,540	665,500	303,040
82-59	005-01	Blue Lake Sludge Thick. Facil.	2,205,115	0	2,205,115	1,150,000	850,000
83-52	051-01	Maple Plain Plant Improv.	1,274,020	578,638	695,382	493,000	202,382
		<b>TOTALS</b>	<b>\$124,320,358</b>	<b>\$99,236,817</b>	<b>\$25,083,541</b>	<b>\$13,529,131</b>	<b>\$ 7,863,248</b>

CERTIFIED STATE GRANTS

<u>Project No.</u>	<u>Grant</u>	<u>Project</u>	<u>Total Grants Receivable</u>	<u>Earned As Of 12/31/85</u>	<u>Balance Due</u>	<u>Estimated Amount 1986</u>	<u>Estimated Amount 1987</u>
74-01 (403)	000-04	MMWTP - Digital Control System	\$ 1,328,288	\$ 1,316,854	\$ 11,434	\$ 11,434	\$ -0-
74-01(408)	000-06	MMWTP - Sludge Processing	11,330,745	11,330,595	150	150	-0-
201	999-01	Facilities Planning Study	885,510	847,852	37,658	37,658	-0-
201	999-02	Facilities Planning Study	538,545	521,774	16,771	16,771	-0-
76-07	100-02	MMWTP Retrofit Process Control Step III	2,038,920	698,988	1,339,932	663,572	420,000
79-06	008-02	Hastings Plant Improvements Step III	1,246,680	1,168,615	78,065	45,000	12,000
79-79	999-04	Metro Area I/I Analysis	611,096	518,854	92,242	92,242	-0-
79-80	103-02	MMWTP Add'l. Secondary Treat. Facility - Step III	3,033,450	2,798,594	234,856	155,000	79,856
77-05	134-01	Lower Beltline Intcp.	498,060	289,433	208,627	142,300	66,327
82-55	150-01	Mpls. East Interceptor	17,829,098	579,973	17,249,125	1,500,000	2,000,000
82-58	097-03	MMWTP Secondary Treat. Rehab.	433,785	240,077	193,708	133,100	60,608
<b>TOTALS</b>			<u>\$39,774,177</u>	<u>\$20,311,609</u>	<u>\$19,462,568</u>	<u>\$2,797,227</u>	<u>\$ 2,638,791</u>

SUMMARY OF INVESTMENT INCOME

Investment earnings for period January through December, 1986 \$10 million X .07	\$ 700,000
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Investment earnings for period January through December, 1987 based on average investment balance of \$10 million and yield of .06%.	<u>600,000</u>
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TOTAL	<u>\$1,300,000</u>
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Program No.	Project	Step Approval	Previously Appropriated	Additional Appropriations	Total Appropriations	Expenditures as of 12/31/85	Encumbered Balance	Unencumbered Balance
72-07	Maintenance & Dispatch Bldg.	III	\$ 3,350,000	\$ 0	\$ 3,350,000	\$ 997,126	\$ 1,292,118	\$ 1,060,756
74-01	MMWTP - Sludge Disposal							
(403)	Digital Acquisition & Control Sys.	III	10,185,664	0	10,185,664	10,089,970	0	95,694
(406)	Sludge Dewatering Building	III	10,004,333	0	10,004,333	9,868,893	0	135,440
(407)	Sludge Processing Equipment	III	11,800,066	0	11,800,066	11,725,346	0	74,720
(408)	MMWTP Sludge Processing Bldg.	III	101,605,000	0	101,605,000	101,004,618	51,150	549,232
75-01	Residual Solids Management	I	1,774,798	0	1,774,798	1,593,146	0	181,652
75-10	Engineering Services - NPDES Permits	I	195,000	0	195,000	126,621	0	68,379
75-50	Metro Planning	I	3,090,000	(281,797)	2,808,203	2,019,831	0	788,372
76-07	MMWTP Retrofit Process Control	III	17,750,000	0	17,750,000	8,804,776	2,752,954	6,192,270
76-13	Environmental Planning	I	749,202	0	749,202	673,229	0	75,973
76-55	Combined Sewer Study	I	3,058,600	0	3,058,600	2,947,890	6,356	104,354
77-05	Lower Beltline Interceptor	III	4,150,000	0	4,150,000	3,414,547	214,593	520,860
78-01	Future System Configuration	I	524,363	0	524,363	502,989	0	21,374
79-06	Hastings WWTP Expansion	III	9,513,625	0	9,513,625	8,890,853	226,024	396,748
79-79	I/I Analysis & Rehab. Comm. Grants	I	4,113,000	(65,000)	4,048,000	3,325,643	0	722,357
79-80	MMWTP Add'l. Secondary Trt. Facil.	III	21,036,775	0	21,036,775	20,754,785	0	281,990
79-96	Overhead (Not Reimbursable)	I	150,000	0	150,000	104,666	0	45,334
79-97	Grants Administration	I	300,000	65,000	365,000	124,989	0	240,011
79-98	Overhead (Metro Field Office)	I	1,200,000	852,813	2,052,813	590,712	0	1,462,101
81-51	Lake Gervais Interceptor	III	8,325,000	(1,000,000)	7,325,000	5,604,801	713,853	1,006,346
81-63	Planning Prog. Budget Syst.	I	575,000	394,000	969,000	331,797	0	637,203
82-52	CAB Interceptor	III	17,320,000	0	17,320,000	15,876,197	429,487	1,014,316
82-53	Lake Ann Interceptor	III	1,150,000	11,550,000	12,700,000	229,731	172,959	12,297,310
(343)	Excelsior Lift Station Improv.	III	1,500,000	0	1,500,000	0	0	1,500,000
82-54	Interceptor Rehab.	II,III	100,000	0	100,000	4,957	0	95,043
82-55	Minneapolis East Interceptor	III	59,869,670	(18,869,670)	41,000,000	3,717,792	32,400,341	4,881,867
82-56	MMWTP Screen & Grit Rehab.	III	8,750,000	0	8,750,000	675,302	384,518	7,690,180
82-57	MMWTP Primary Treat. Fac. Rehab.	III	13,535,000	0	13,535,000	1,141,045	621,000	11,772,955
82-58	MMWTP Secondary Treat. Fac. Rehab.	III	5,450,000	0	5,450,000	2,545,620	1,416,733	1,487,647
82-59	Blue Lake Plant Sludge Thick. Fac.	III	4,800,000	0	4,800,000	224,704	123,328	4,451,968
83-51	Chaska Plant Improvements	III	4,650,000	0	4,650,000	140,131	5,703	4,504,166
83-52	Maple Plain Interceptor	III	2,625,000	0	2,625,000	1,878,141	538,103	208,756
83-53	Minnesota River Study	I	150,000	25,000	175,000	57,758	0	117,242
83-54	MMWTP Energy Study	I	135,000	100,000	235,000	34,839	0	200,161
83-55	MMWTP Fire Detection & Alarm Study	II,III	25,000	600,000	625,000	4,993	0	620,007
83-56	Lift Station Elec. Syst. Rehab.	II	75,000	100,000	175,000	966	0	174,034
83-57	Metering & Lift Station Alarm Sys.	II,III	2,250,000	2,750,000	5,000,000	224,093	532,598	4,243,309
83-58	MMWTP Disinfection	III	5,500,000	0	5,500,000	3,882,061	9,117	1,608,822

Program No.	Project	Step Approval	Previously Appropriated	Additional Appropriations	Total Appropriations	Expenditures as of 12/31/85	Encumbered Balance	Unencumbered Balance
83-59	Medina Interceptor	III	\$ 1,625,000	\$ 0	\$ 1,625,000	\$ 1,447,619	\$ 102,749	\$ 74,632
83-61	Lino Lakes Second. Intcp. Conn.	III	390,000	60,000	450,000	19,271	4,572	426,157
83-62	Ramsey Second Intcp. Connection	III	535,000	0	535,000	527,813	944	6,243
83-65	Miscellaneous Capital Improvments	I,II,III	3,300,188	0	3,300,188	2,286,515	277,609	736,064
84-51	New Brighton Interceptor	III	1,135,000	0	1,135,000	35,333	7,132	1,092,535
85-51	Rosemount Plant Replacement	III	5,300,000	0	5,300,000	33,943	132,755	5,133,302
85-52	Seneca Sludge Handling Improv.	III	2,300,000	1,600,000	3,900,000	26,098	272,658	3,601,244
85-53	Metro Plant Water Improvements	III	450,000	0	450,000	8,157	0	441,843
85-54	Blue Lake Plant Expansion	II	750,000	0	750,000	2,453	95,993	651,554
85-55	Empire Plant Expansion	II	850,000	0	850,000	72,591	21,219	756,190
85-56	Metro Plant Studies	I	800,000	300,000	1,100,000	288,830	24,990	786,180
85-57	Seneca Plant Study for Advanced Treatment & Plant Expansion	I	100,000	25,000	125,000	3,181	0	121,819
85-58	Service Area 1 Study for Regulator System Improvements	I	100,000	0	100,000	0	0	100,000
85-59	Metering Station Improv.	III	250,000	2,000,000	2,250,000	48,323	0	2,201,677
85-60	Savage Interceptor	III	4,170,000	1,830,000	6,000,000	66,113	132,120	5,801,767
85-61	Metro Laboratory Modifications	III	821,000	0	821,000	450,167	263,938	106,895
85-62	Metro Plant Ash Basin	III	500,000	300,000	800,000	12,114	0	787,886
85-63	Lakeville Lift Station	III	750,000	350,000	1,100,000	37,431	37,411	1,025,158
85-65	Miscellaneous Capital Improv.	I,II,III	1,200,000	0	1,200,000	184,526	44,055	971,419
85-66	Middle Beltline Interceptor	III	11,850,000	0	11,850,000	446,444	313,228	11,090,328
85-67	Orono Interceptor Improvements	III	1,600,000	0	1,600,000	201	150,200	1,449,599
85-68	Eagan Interceptor	III	1,000,000	0	1,000,000	707	0	999,293
86-53	Stillwater Plant Expansion	II	500,000	0	500,000	0	0	500,000
86-54	Mpls. 38th Street Interceptor	III	1,500,000	0	1,500,000	0	0	1,500,000
86-55	Plymouth Interceptor	III	350,000	0	350,000	0	0	350,000
86-56	Blaine Interceptor	III	300,000	1,400,000	1,700,000	0	0	1,700,000
86-58	Joint Interceptor Rehab.	II	50,000	200,000	250,000	0	0	250,000
86-59	Joint Interceptor Access	I	100,000	0	100,000	0	0	100,000
86-60	Trout Brook Interceptor	III	650,000	6,300,000	6,950,000	0	0	6,950,000
86-65	Misc. Capital Improvements	I,II,III	3,000,000	1,000,000	4,000,000	0	0	4,000,000
TOTALS			<u>\$387,561,284</u>	<u>\$11,585,346</u>	<u>\$399,146,630</u>	<u>\$230,133,388</u>	<u>\$ 43,772,508</u>	<u>\$125,240,734</u>

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

Project Description: There is a need to have a centralized service center to dispatch the maintenance crews to the smaller plants and other facilities to provide timely and reliable maintenance. Such a facility will have a very possible effect on meeting the plant standards and to convey the sewage in the system. The proposed project will consist of a building near the Seneca Plant to dispatch service vehicles and personnel to properly maintain all outlying facilities. The project also includes local streets, storm sewer assessments, equipment, and furnishings such as shelvings, desks, file cabinets, equipment and phone system.

Project Status and Objectives:

1. Current Status (Step II & III)

The design/construction was initiated in mid-1985.

2. Objectives for 1987 - Finalize the project.

3. Annual Objectives for future years -

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation \$ \$3,350,000

Actual Expenditures 997,126

Balance (12-31-85) 2,352,874

Additional Funding NONE  
(Step)

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ _____	\$ _____	\$ 997,126	\$ 997,126
1986	_____	_____	1,782,118	1,782,118
First Quarter 1987	_____	_____	10,000	10,000
Second Quarter 1987	_____	_____	_____	0
Third Quarter 1987	_____	_____	_____	0
Fourth Quarter 1987	_____	_____	_____	0
1988	_____	_____	_____	_____
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
Est. Proj. Cost	_____	_____	_____	_____
Contingency	_____	_____	560,756	560,756
Total	\$ _____	\$ _____	\$ 3,350,000	\$ 3,350,000



Project Number 74-01-403

Title MWWTP Digital Acquisition and Control System

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

Project Description: Six process computer subsystems are included in the project along with one central computer.

Project Status and Objectives:

1. Current Status (Step III) - Complete demonstration for MPCA.

2. Objectives for 1987 - NA

3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation \$ 10,185,664

Actual Expenditures 10,089,970

Balance (12-31-85) 95,694

Additional Funding -0-  
(Step)

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>6,584,272</u>	\$ <u>1,316,854</u>	\$ <u>2,188,844</u>	\$ <u>10,089,970</u>
1986	<u>57,167</u>	<u>11,434</u>	<u>27,093</u>	<u>95,694</u>
First Quarter 1987				
Second Quarter 1987				
Third Quarter 1987				
Fourth Quarter 1987				
1988				
1989				
1990				
Est. Proj. Cost Contingency				
Total	\$ <u>6,641,439</u>	\$ <u>1,328,288</u>	\$ <u>2,215,937</u>	\$ <u>10,185,664</u>

Project Number 74-01-406

Title MWWTP Sludge Dewatering Building

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

Project Description: The 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 part of the sludge processing complex.

Project Status and Objectives:

1. Current Status (Step) - The project will be completed in 1986.

2. Objectives for 1987 - NA

3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation \$ 10,004,333

Actual Expenditures 9,868,893

Balance (12-31-85) 135,440

Additional Funding -0-  
(Step)

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>7,153,235</u>	\$ <u>1,430,647</u>	\$ <u>1,285,011</u>	\$ <u>9,868,893</u>
1986			<u>135,440</u>	<u>135,440</u>
First Quarter 1987				
Second Quarter 1987				
Third Quarter 1987				
Fourth Quarter 1987				
1988				
1989				
1990				
Est. Proj. Cost Contingency				
Total	\$ <u>7,153,235</u>	\$ <u>1,430,647</u>	\$ <u>1,420,451</u>	\$ <u>10,004,333</u>

Project Number 74-01-407Title MWWTP Sludge Processing Equipment

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

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

Project Status and Objectives:

1. Current Status (Step III) - The project has been placed into operation.
2. Objectives for 1987 - The project was completed in 1985.

3. Annual Objectives for future years

1988 - Resolve eligibility of for construction grant funds on a claim.

1989 - NA

1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1987 Appropriation \$ 11,800,066

Actual Expenditures 11,725,347

Balance (12-31-85) 74,719

Additional Funding NONE  
(Step)

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>7,195,713</u>	\$ <u>1,439,143</u>	\$ <u>3,090,491</u>	\$ <u>11,725,347</u>
1986	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
First Quarter 1987	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
Second Quarter 1987	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
Third Quarter 1987	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
Fourth Quarter 1987	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
1988	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
1989	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
1990	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
Est. Proj. Cost Contingency	<u>                    </u>	<u>                    </u>	<u>74,719</u>	<u>74,719</u>
Total	\$ <u>                    </u>	\$ <u>                    </u>	\$ <u>3,090,491</u>	\$ <u>11,800,066</u>

Project Number 74-01-408Title MWWTP Sludge Processing Bldg.

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

Project Description: This project consists of a building complex to house sludge incinerators, waste heat recovery facilities, sludge drying facilities and storage and loadout area. Equipment included in the sludge processing building includes rotary sludge dryers, gas cleaning systems, waste heat boilers, and incinerator modifications. Improvements include modifications to the rotary dryers and sludge handling system.

Project Status and Objectives:

1. Current Status (Step III) - The project has been placed into operation.
2. Objectives for 1987 - Resolve pending appeal on grant eligible items for construction grant funding.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation \$ 101,605,000

Actual Expenditures 101,055,768

Balance (12-31-85) 549,232

Additional Funding NONE  
(Step)

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>56,652,975</u>	\$ <u>11,330,595</u>	\$ <u>33,021,048</u>	\$ <u>101,004,618</u>
1986	<u>750</u>	<u>150</u>	<u>80,100</u>	<u>81,000</u>
First Quarter 1987				<u>0</u>
Second Quarter 1987				<u>0</u>
Third Quarter 1987				<u>0</u>
Fourth Quarter 1987				<u>0</u>
1988				
1989				
1990				
Est. Proj. Cost Contingency			<u>519,382</u>	<u>519,382</u>
Total	\$ <u>56,653,725</u>	\$ <u>11,330,745</u>	\$ <u>33,620,530</u>	\$ <u>101,605,000</u>

Project Number 75-01Title Residual Solids Management

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

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

Project Status and Objectives:

1. Current Status (Step I) - The study has been in progress since 1977 and initial steps have been taken to conduct a market study of heat dried sludge. The MWOC has not located a permanent ash landfill site.
2. Objectives for 1987 - To complete the study.
3. Annual Objectives for future years
  - 1988 - NA
  - 1989 - NA
  - 1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation	\$ <u>1,774,798</u>
Actual Expenditures	<u>1,593,146</u>
Balance (12-31-85)	<u>181,652</u>
Additional Funding (Step)	<u>NONE</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>1,150,772</u>	\$ <u>230,154</u>	\$ <u>212,220</u>	\$ <u>1,593,146</u>
1986	<u>75,000</u>	<u>15,000</u>	<u>10,000</u>	<u>100,000</u>
First Quarter 1987	<u>                    </u>	<u>                    </u>	<u>26,025</u>	<u>26,025</u>
Second Quarter 1987	<u>                    </u>	<u>                    </u>	<u>25,000</u>	<u>25,000</u>
Third Quarter 1987	<u>                    </u>	<u>                    </u>	<u>25,000</u>	<u>25,000</u>
Fourth Quarter 1987	<u>                    </u>	<u>                    </u>	<u>5,627</u>	<u>5,627</u>
1988	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
1989	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
1990	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
Est. Proj. Cost Contingency	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
Total	\$ <u>1,225,772</u>	\$ <u>245,154</u>	\$ <u>303,872</u>	\$ <u>1,774,798</u>

Project Number 75-10Title Engineering Services - NPDES Permits

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

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

Project Status and Objectives:

1. Current Status (Step I) - Numerous permits have been reviewed and issued and each NPDES Permit will be revised periodically.
2. Objectives for 1987 - To continue the review and issuance of future permits.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation \$ 195,000Actual Expenditures 126,621Balance (12-31-85) 68,379Additional Funding NONE  
(Step)

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>126,621</u>	\$ <u>126,621</u>
1986	<u>          </u>	<u>          </u>	<u>34,947</u>	<u>34,947</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>8,358</u>	<u>8,358</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>8,358</u>	<u>8,358</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>8,358</u>	<u>8,358</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>8,358</u>	<u>8,358</u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>195,000</u>	\$ <u>195,000</u>

Project Number 75-50 Title Metro Planning

History of Authorization: Included in previous capital budget prior to the requirements of MRA.

Project Description: The Metropolitan Council reviewed our development programs, program budgets and amendments and other data relating to the construction fund.

Project Status and Objectives:

1. Current Status (Step I) The planning will continue by the Metropolitan Council.
2. Objectives for 1987 - This program will be closed out in 1987.
3. Annual Objectives for future years
  - 1988 - Changed to Program 87-D.
  - 1989 - NA
  - 1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$ <u>3,090,000</u>
Actual Expenditures	<u>2,019,831</u>
Balance (12-31-85)	<u>1,070,169</u>
Additional Funding (Step)	<u>(281,797)</u>

Text for the Rationale

Program 87-D will provide funding for 1987.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ _____	\$ _____	\$ <u>2,019,831</u>	\$ <u>2,019,831</u>
1986	_____	_____	<u>788,372</u>	<u>788,372</u>
First Quarter 1987	_____	_____	_____	_____
Second Quarter 1987	_____	_____	_____	_____
Third Quarter 1987	_____	_____	_____	_____
Fourth Quarter 1987	_____	_____	_____	_____
1988	_____	_____	_____	_____
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
Est. Proj. Cost Contingency	_____	_____	_____	_____
Total	\$ <u>_____</u>	\$ <u>_____</u>	\$ <u>2,808,203</u>	\$ <u>2,808,203</u>

Project Number 76-07Title MWWTP Retrofit Process Control

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

Project Description: This project is proposed to consist of the furnishing and installation of sophisticated instruments and direct digital control system for the older portions of the plant and other newer areas not included under the current project. The project will tie these portions of the plant into the new centralized system and allow the utmost efficiency of operations.

Project Status and Objectives:

1. Current Status (Step III) - The project is under construction.
2. Objectives for 1987 - To complete the work in the construction contract.
3. Annual Objectives for future years

1988 - To complete all work in mid-1988.

1989 - NA

1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation \$ 17,750,000

Actual Expenditures 11,557,730

Balance (12-31-85) 6,192,270

Additional Funding NONE  
(Step)

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ 3,494,939	\$ 698,988	\$ 4,610,849	\$ 8,804,776
1986	<u>3,317,859</u>	<u>663,572</u>	<u>1,018,569</u>	<u>5,000,000</u>
First Quarter 1987	<u>710,000</u>	<u>140,000</u>	<u>70,000</u>	<u>920,000</u>
Second Quarter 1987	<u>710,000</u>	<u>140,000</u>	<u>70,000</u>	<u>920,000</u>
Third Quarter 1987	<u>355,000</u>	<u>70,000</u>	<u>(5,000)</u>	<u>420,000</u>
Fourth Quarter 1987	<u>355,000</u>	<u>70,000</u>	<u>(5,000)</u>	<u>420,000</u>
1988	<u>501,802</u>	<u>106,360</u>	<u>(342,938)</u>	<u>265,224</u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>750,000</u>	<u>150,000</u>	<u>100,000</u>	<u>1,000,000</u>
Total	\$ <u>10,194,600</u>	\$ <u>2,038,920</u>	\$ <u>5,516,480</u>	\$ <u>17,750,000</u>



Project Number 76-13Title Environmental Planning

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

Project Description: To establish a base-line inventory of environmental characteristics of the Metropolitan Area as a basis for project planning and preparing 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 reserve capacity. Also, to prepare an environmental impact statement for the residual solids management and combined sewer study elements of facilities planning.

Project Status and Objectives:

1. Current Status (Step I) - To complete the study and furnish the necessary data for planning.
2. Objectives for 1987 - NA
3. Annual Objectives for future years
  - 1988 - NA
  - 1989 - NA
  - 1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation	\$ <u>749,202</u>
Actual Expenditures	<u>673,229</u>
Balance (12-31-85)	<u>75,973</u>
Additional Funding (Step)	<u>-0-</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>504,922</u>	\$ <u>100,984</u>	\$ <u>67,323</u>	\$ <u>673,229</u>
1986	<u>8,856</u>	<u>1,771</u>	<u>65,346</u>	<u>75,973</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>513,778</u>	\$ <u>102,755</u>	\$ <u>132,669</u>	\$ <u>749,202</u>

Project Number 76-55Title Combined Sewer StudyHistory of Authorization: Included in the Waste Management Policy Plan as a study.Project Description: The study had determined the environmental impact of the combined sewer overflow on the Mississippi River and formulated an abatement program leading towards the reduction or elimination of combined sewer overflow. The study included an assessment of combined sewer overflows, general planning of the abatement program and preliminary engineering of the required abatement facilities. Work will continue to develop operation plans for the regulators and effectiveness verification of separated areas and other information to fulfill the permit conditions.Project Status and Objectives:

1. Current Status (Step I) - The basic study was completed in 1985. Additional work and coordination will continue with approval agencies and on monitoring areas.
2. Objectives for 1987 - To complete the coordination with the approval agencies and begin reporting requirements.
3. Annual Objectives for future years
  - 1988 - Satisfy reporting requirements.
  - 1989 - NA
  - 1990 - NA

Support for Appropriation AmendmentsText for the Rationale

1986 Appropriation	\$ <u>3,058,600</u>
Actual Expenditures	<u>2,947,890</u>
Balance (12-31-85)	<u>110,710</u>
Additional Funding (Step)	<u>NONE</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>1,970,676</u>	\$ <u>394,135</u>	\$ <u>583,079</u>	\$ <u>2,947,890</u>
1986	<u>                    </u>	<u>                    </u>	<u>100,000</u>	<u>100,000</u>
First Quarter 1987	<u>                    </u>	<u>                    </u>	<u>1,000</u>	<u>1,000</u>
Second Quarter 1987	<u>                    </u>	<u>                    </u>	<u>1,000</u>	<u>1,000</u>
Third Quarter 1987	<u>                    </u>	<u>                    </u>	<u>1,000</u>	<u>1,000</u>
Fourth Quarter 1987	<u>                    </u>	<u>                    </u>	<u>1,000</u>	<u>1,000</u>
1988	<u>                    </u>	<u>                    </u>	<u>6,710</u>	<u>6,710</u>
1989	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
1990	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
Est. Proj. Cost Contingency	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
Total	\$ <u>1,970,676</u>	\$ <u>394,135</u>	\$ <u>693,789</u>	\$ <u>3,058,600</u>

Project Number 77-05 Title Lower Beltline Interceptor

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

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

Project Status and Objectives:

1. Current Status (Step III) - Construction will be substantially completed in 1986.
2. Objectives for 1987 - Finalize the project.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation	\$ <u>4,150,000</u>
Actual Expenditures	<u>3,629,140</u>
Balance (12-31-85)	<u>520,860</u>
Additional Funding (Step)	<u>NONE</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>1,447,163</u>	\$ <u>289,433</u>	\$ <u>1,677,951</u>	\$ <u>3,414,547</u>
1986	<u>711,500</u>	<u>142,300</u>	<u>(525,800)</u>	<u>328,000</u>
First Quarter 1987	<u>91,637</u>	<u>18,327</u>	<u>(79,964)</u>	<u>30,000</u>
Second Quarter 1987	<u>80,000</u>	<u>16,000</u>	<u>(66,000)</u>	<u>30,000</u>
Third Quarter 1987	<u>80,000</u>	<u>16,000</u>	<u>(66,000)</u>	<u>30,000</u>
Fourth Quarter 1987	<u>80,000</u>	<u>16,000</u>	<u>(66,000)</u>	<u>30,000</u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>287,453</u>	<u>287,453</u>
Total	\$ <u>2,490,300</u>	\$ <u>498,060</u>	\$ <u>1,161,640</u>	\$ <u>4,150,000</u>

Project Number 78-01 Title Future System Configuration

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

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

Project Status and Objectives:

1. Current Status (Step I) The study is in progress.
2. Objectives for 1987 - To complete the study with the recommendations from the CSO Study.
3. Annual Objectives for future years  
1988 - NA  
1989 - NA  
1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation	\$ <u>524,363</u>
Actual Expenditures	<u>502,989</u>
Balance (12-31-85)	<u>21,374</u>
Additional Funding (Step)	<u>NONE</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>352,092</u>	\$ <u>75,448</u>	\$ <u>75,449</u>	\$ <u>502,989</u>
1986	<u>          </u>	<u>          </u>	<u>10,000</u>	<u>10,000</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>5,374</u>	<u>5,374</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>2,000</u>	<u>2,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>2,000</u>	<u>2,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>2,000</u>	<u>2,000</u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>352,092</u>	\$ <u>75,448</u>	\$ <u>96,823</u>	\$ <u>524,363</u>

Project Number 79-06Title Hastings WWTP Expansion

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

Project Description: The project consists of new facilities to increase the plant size up to 2.34 mgd and to improve the degree of treatment.

Project Status and Objectives:

1. Current Status (Step III) - Objective is to substantially complete the project in 1986. However, additional expenditures will be required for related work in 1987 to satisfy the construction grant requirements.
2. Objectives for 1987 - Finalize the project.
3. Annual Objectives for future years
  - 1988 - NA
  - 1989 - NA
  - 1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation	\$ <u>9,513,625</u>
Actual Expenditures	<u>9,116,877</u>
Balance (12-31-85)	<u>396,748</u>
Additional Funding (Step)	<u>NONE</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
Tb 12/31/85	\$ <u>5,843,075</u>	\$ <u>1,168,615</u>	\$ <u>1,879,163</u>	\$ <u>8,890,853</u>
1986	<u>225,000</u>	<u>45,000</u>	<u>30,000</u>	<u>300,000</u>
First Quarter 1987	<u>15,000</u>	<u>3,000</u>	<u>2,000</u>	<u>20,000</u>
Second Quarter 1987	<u>15,000</u>	<u>3,000</u>	<u>2,000</u>	<u>20,000</u>
Third Quarter 1987	<u>15,000</u>	<u>3,000</u>	<u>2,000</u>	<u>20,000</u>
Fourth Quarter 1987	<u>15,000</u>	<u>3,000</u>	<u>2,000</u>	<u>20,000</u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>105,325</u>	<u>21,065</u>	<u>116,382</u>	<u>242,772</u>
Total	\$ <u>6,233,400</u>	\$ <u>1,246,680</u>	\$ <u>2,033,545</u>	\$ <u>9,513,625</u>

Project Number 79-79

Title I/I Analysis & Rehabilitation Community Grants

History of Authorization: The MWOC was required by MPA to administrate the infiltration/inflo analysis for about 30 communities.

Project Description: The MWOC has the responsibility to coordinate the infiltration/inflow grants for about 30 communities. The cost to the MWOC is an administrative cost and the cities pay the local costs.

Project Status and Objectives:

1. Current Status (Step) The projects are essentially complete at this time.
2. Objectives for 1987 - Project will be completed in 1986.
3. Annual Objectives for future years
  - 1988 - NA
  - 1989 - NA
  - 1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$ <u>4,113,000</u>
Actual Expenditures	<u>3,325,643</u>
Balance (12-31-85)	<u>787,357</u>
Additional Funding (Step)	<u>(65,000)</u>

Text for the Rationale

These monies will not be needed.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>2,594,272</u>	\$ <u>518,854</u>	\$ <u>212,517</u>	\$ <u>3,325,643</u>
1986	<u>401,207</u>	<u>92,242</u>	<u>0</u>	<u>553,449</u>
First Quarter 1987			<u>0</u>	<u>0</u>
Second Quarter 1987			<u>0</u>	<u>0</u>
Third Quarter 1987			<u>0</u>	<u>0</u>
Fourth Quarter 1987			<u>0</u>	<u>0</u>
1988				
1989				
1990				
Est. Proj. Cost Contingency			<u>168,908</u>	<u>168,908</u>
Total	\$ <u>3,055,479</u>	\$ <u>611,096</u>	\$ <u>381,425</u>	\$ <u>4,048,000</u>

Project Number 79-80 Title MWWTP Additional Secondary Treatment East Battery

History of Authorization: Included in the Development Program by amendment in 1979 and included in the 1980 Budget.

Project Description: This project will consist of four additional aeration tanks and three additional final clarifiers which are to be constructed on the existing east battery. The facilities are required to meet the 1982 NPDES Permit requirements.

Project Status and Objectives:

1. Current Status (Step III) The project is essentially completed.
2. Objectives for 1987 - To complete the project and satisfy the construction grant requirements.
3. Annual Objectives for future years  
1988 - NA  
1989 - NA  
1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation	\$ <u>21,036,775</u>
Actual Expenditures	<u>20,754,785</u>
Balance (12-31-85)	<u>281,990</u>
Additional Funding (Step)	<u>NONE</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>13,992,971</u>	\$ <u>2,798,594</u>	\$ <u>3,963,220</u>	\$ <u>20,754,785</u>
1986	<u>925,000</u>	<u>155,000</u>	<u>(800,000)</u>	<u>280,000</u>
First Quarter 1987	<u>69,279</u>	<u>19,856</u>	<u>(88,735)</u>	<u>400</u>
Second Quarter 1987	<u>60,000</u>	<u>20,000</u>	<u>(79,600)</u>	<u>400</u>
Third Quarter 1987	<u>60,000</u>	<u>20,000</u>	<u>(79,600)</u>	<u>400</u>
Fourth Quarter 1987	<u>60,000</u>	<u>20,000</u>	<u>(79,600)</u>	<u>790</u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>15,167,250</u>	\$ <u>3,033,450</u>	\$ <u>2,835,685</u>	\$ <u>21,036,775</u>

Project Number 79-96Title Overhead (Not Reimbursable)History of Authorization: Necessary overhead for all construction projects.Project Description: This program will accumulate Construction Department Overhead costs not reimbursable by the Federal Government.Project Status and Objectives:

1. Current Status (Step III) - This is an on-going project.
2. Objectives for 1987 - Provide environmental for all on-going construction projects.
3. Annual Objectives for future years
  - 1988 - NA
  - 1989 - NA
  - 1990 - NA

Support for Appropriation AmendmentsText for the Rationale

1986 Appropriation \$ 150,000

Actual Expenditures 104,666

Balance (12-31-85) 46,334

Additional Funding (Step) NONE

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>104,666</u>	\$ <u>104,666</u>
1986	<u>          </u>	<u>          </u>	<u>25,334</u>	<u>25,334</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>5,000</u>	<u>5,000</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>5,000</u>	<u>5,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>5,000</u>	<u>5,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>5,000</u>	<u>5,000</u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>150,000</u>	\$ <u>150,000</u>



Project Number 79-97Title Grants AdministrationHistory of Authorization: Overhead costs for construction fund.Project Description: To consolidate the grant management functions of the Commission.Project Status and Objectives:

1. Current Status (Step III) - This will be an ongoing program within the Commission.
2. Objectives for 1987 - To administer federal and state construction grants and other financial assistance grants.
3. Annual Objectives for future years
  - 1988 - Continue Program.
  - 1989 - Continue Program.
  - 1990 - Continue Program.

Support for Appropriation Amendments

1986 Appropriation	\$	<u>300,000</u>
Actual Expenditures		<u>124,989</u>
Balance (12-31-85)		<u>175,011</u>
Additional Funding (Step)		<u>65,000</u>

Text for the Rationale

Additional funds are necessary to continue the construction grants program in 1987.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$	\$	\$ 124,989	\$ 124,989
1986			99,611	99,611
First Quarter 1987			35,400	35,400
Second Quarter 1987			35,000	35,000
Third Quarter 1987			35,000	35,000
Fourth Quarter 1987			35,000	35,000
1988				
1989				
1990				
Est. Proj. Cost Contingency				
Total	\$	\$	\$ 365,000	\$ 365,000

Project Number 79-98Title Metro Field Office OverheadHistory of Authorization: Overhead costs for construction fund.Project Description: This program will accumulate all Construction Department Overhead costs at the Metro Field Office that are grant reimburseable.Project Status and Objectives:

1. Current Status (Step III) - This will be an on-going program within the Commission.
2. Objectives for 1987 -
3. Annual Objectives for future years
  - 1988 - NA
  - 1989 - NA
  - 1990 - NA

Support for Appropriation AmendmentsText for the Rationale

1986 Appropriation \$ 1,200,000

Actual Expenditures 590,712

Balance (12-31-85) 609,288

Additional Funding 852,813  
(Step)

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ _____	\$ _____	\$ 590,712	\$ 590,712
1986	_____	_____	609,288	609,288
First Quarter 1987	_____	_____	213,203	213,203
Second Quarter 1987	_____	_____	213,203	213,203
Third Quarter 1987	_____	_____	213,203	213,203
Fourth Quarter 1987	_____	_____	213,204	213,204
1988	_____	_____	_____	_____
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
Est. Proj. Cost Contingency	_____	_____	_____	_____
Total	\$ _____	\$ _____	\$ 2,052,813	\$ 2,052,813

Project Number 81-51Title Lake Gervais InterceptorHistory of Authorization: Included in the Development Program for Years 1978-1982

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

Project Status and Objectives:

1. Current Status (Step III) - The objective is to substantially complete the project in 1986.
2. Objectives for 1987 - Finalize the project.
3. Annual Objectives for future years -
  - 1988 - NA
  - 1989 - NA
  - 1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$ <u>8,325,000</u>
Actual Expenditures	<u>5,604,801</u>
Balance (12-31-85)	<u>2,720,199</u>
Additional Funding (Step)	<u>(1,000,000)</u>

Text for the Rationale

Project will run under budget.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ _____	\$ _____	\$ 5,604,801	\$ 5,604,801
1986	_____	_____	300,000	300,000
First Quarter 1987	_____	_____	40,000	40,000
Second Quarter 1987	_____	_____	20,000	20,000
Third Quarter 1987	_____	_____	0	0
Fourth Quarter 1987	_____	_____	0	0
1988	_____	_____	0	0
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
Est. Proj. Cost Contingency	_____	_____	1,360,199	1,360,199
Total	\$ _____	\$ _____	\$ 7,325,000	\$ 7,325,000

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

Project Description: The program provides for continuation of comprehensive long range Commission planning in coordination with various agencies. The program provides resources for the preparation of the Implementation Plan, amendments, to budgets and plans, and other planning coordination with the Metropolitan Council.

Project Status and Objectives:

1. Current Status (Step I) - The study is in progress.
2. Objectives for 1987 - Continue to update appropriate facility planning; complete and obtain approvals of the 1988-1992 Implementation Plan; and coordinate the Metropolitan Council in planning considerations of mutual interest.
3. Annual Objectives for future years
  - 1988 - Continue the program.
  - 1989 - Continue the program.
  - 1990 - Continue the program.

Support for Appropriation Amendments

1986 Appropriation	\$	<u>575,000</u>
Actual Expenditures		<u>331,797</u>
Balance (12-31-85)		<u>243,203</u>
Additional Funding (Step)		<u>394,000</u>

Text for the Rationale

Additional funds are necessary to provide overall updating of current plans for completion of Implementation Plan requirements, and coordination with Metropolitan Council.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$	\$	\$ 331,797	\$ 331,797
1986			243,203	243,203
First Quarter 1987			94,000	94,000
Second Quarter 1987			100,000	100,000
Third Quarter 1987			100,000	100,000
Fourth Quarter 1987			100,000	100,000
1988				
1989				
1990				
Est. Proj. Cost Contingency				
Total	\$	\$	\$ 969,000	\$ 969,000

Project Number 82-52Title CAB InterceptorHistory of Authorization: Included in the Development Program for Years 1981-1986

Project Description: This project consists of an interceptor from the existing Brooklyn Park Interceptor northwesterly up to Champlin. The interceptor will provide gravity service up to the southwest corner of the old village limits of Champlin and provide a future outlet for the phaseout of the Anoka Plant via a lift station and forcemain.

Project Status and Objectives:

1. Current Status (Step III) - The project has been completed and placed into operation.
2. Objectives for 1987 - To resolve all construction and financial differences on the project.

## 3. Annual Objectives for future years

1988 - NA - To finalize all financial obligations on project.

1989 - NA

1990 - NA

Support for Appropriation AmendmentsText for the Rationale1986 Appropriation \$ 17,320,000Actual Expenditures 15,876,197Balance (1-1-86) 1,443,803Additional Funding NONE  
(Step)Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ _____	\$ _____	\$ 15,876,197	\$ 15,876,197
1986	_____	_____	500,000	500,000
First Quarter 1987	_____	_____	30,000	30,000
Second Quarter 1987	_____	_____	30,000	30,000
Third Quarter 1987	_____	_____	30,000	30,000
Fourth Quarter 1987	_____	_____	30,000	30,000
1988	_____	_____	200,000	200,000
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
Est. Proj. Cost Contingency	_____	_____	623,803	623,803
Total	\$ _____	\$ _____	\$ 17,320,000	\$ 17,320,000

Project Number 82-53Title Lake Ann Interceptor

History of Authorization: The project will be included in the Development Program by amendment in 1985.

Project Description: This project consists of improvements to the Lake Virginia Lift Station and the construction of a new gravity interceptor southeasterly through Chanhassen and connection to the existing Purgatory Creek Interceptor in Eden Prairie. An alternative is for a forcemain alignment on the northerly edge of Chanhassen in lieu of the gravity interceptor. The project also includes the preparation of plans and specifications for improvements to the Excelsior Lift Station.

Project Status and Objectives:

1. Current Status (Step II) - The project is in the planning and design phase.
2. Objectives for 1987 - To complete the design and initiate construction.
3. Annual Objectives for future years
  - 1988 - To continue construction.
  - 1989 - To continue construction.
  - 1990 - To complete construction.

Support for Appropriation Amendments

1986 Appropriation	\$ <u>1,150,000</u>
Actual Expenditures	<u>229,731</u>
Balance (1-1-86)	<u>920,269</u>
Additional Funding (Step III)	<u>11,550,000</u>

Text for the Rationale

To provide funding for Step III Construction.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ _____	\$ _____	\$ 229,731	\$ 229,731
1986	_____	_____	600,000	600,000
First Quarter 1987	_____	_____	200,000	200,000
Second Quarter 1987	_____	_____	200,000	200,000
Third Quarter 1987	_____	_____	1,000,000	1,000,000
Fourth Quarter 1987	_____	_____	1,700,000	1,700,000
1988	_____	_____	1,000,000	1,000,000
1989	_____	_____	4,000,000	4,000,000
1990	_____	_____	3,770,269	3,770,269
Est. Proj. Cost Contingency	_____	_____	_____	_____
Total	\$ _____	\$ _____	\$ 12,700,000	12,700,000

Project Number 82-53-343Title Excelsior Lift Station Improvements

History of Authorization: This project was included in the Development Program by amendment in 1985.

Project Description: The project consists of improvements to the existing lift station. The design is being conducted under the Lake Ann Interceptor project. The improvements consist of additions to the structure, new pumps, mechanical and electrical systems and replacement of a short reach of gravity interceptor. The project will be more reliable with some increase in capacity.

Project Status and Objectives:

1. Current Status (Step II) - The plans and specification will be completed in 1986 under the Lake Ann Interceptor project. Construction to be initiated in 1986.
2. Objectives for 1987 - To continue construction.
3. Annual Objectives for future years
  - 1988 - To complete construction.
  - 1989 - NA
  - 1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation	\$ <u>1,500,000</u>
Actual Expenditures	<u>2,126</u>
Balance (12-31-85)	<u>1,497,874</u>
Additional Funding (Step)	<u>NONE</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ _____	\$ _____	\$ <u>2,126</u>	\$ <u>2,126</u>
1986	_____	_____	<u>197,874</u>	<u>197,874</u>
First Quarter 1987	_____	_____	<u>225,000</u>	<u>225,000</u>
Second Quarter 1987	_____	_____	<u>225,000</u>	<u>225,000</u>
Third Quarter 1987	_____	_____	<u>125,000</u>	<u>125,000</u>
Fourth Quarter 1987	_____	_____	<u>125,000</u>	<u>125,000</u>
1988	_____	_____	<u>200,000</u>	<u>200,000</u>
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
Est. Proj. Cost Contingency	_____	_____	<u>400,000</u>	<u>400,000</u>
Total	\$ _____	\$ _____	\$ <u>1,500,000</u>	\$ <u>1,500,000</u>

Project Number 82-54 Title Interceptor Rehabilitation

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

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

Project Status and Objectives:

1. Current Status (Step II & III) - The design work will continue on several interceptors.
2. Objectives for 1987 - To complete the design and rehabilitate several critical reaches on interceptors.
3. Annual Objectives for future years  
1988 - Complete rehabilitation.  
1989 - NA  
1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation	\$ <u>100,000</u>
Actual Expenditures	<u>4,957</u>
Balance (12-31-85)	<u>95,043</u>
Additional Funding (Step)	<u>NONE</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>4,957</u>	\$ <u>4,957</u>
1986	<u>          </u>	<u>          </u>	<u>15,000</u>	<u>15,000</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>15,000</u>	<u>15,000</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>15,000</u>	<u>15,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>15,000</u>	<u>15,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>15,000</u>	<u>15,000</u>
1988	<u>          </u>	<u>          </u>	<u>20,043</u>	<u>20,043</u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>100,000</u>	\$ <u>100,000</u>



Project Number 82-55Title Minneapolis East InterceptorHistory of Authorization: Included in the Development Program for years 1981-1986.

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

Project Status and Objectives:

1. Current Status (Step IIII) - The construction was initiated in late 1985.
2. Objectives for 1987 - To continue construction.
3. Annual Objectives for future years
  - 1988 - Complete construction.
  - 1989 - NA
  - 1990 - NA

Support for Appropriation Amendments

1986 Appropriation     \$ 59,869,670

Actual Expenditures     3,717,792

Balance (12-31-85)     56,152,878

Additional Funding     (18,869,670)  
(Step)

Text for the Rationale

The project will run under budget.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ _____	\$ 579,973	\$ 3,137,819	\$ 3,717,792
1986	_____	1,500,000	20,250,000	21,750,000
First Quarter 1987	_____	1,000,000	2,800,000	3,800,000
Second Quarter 1987	_____	_____	2,250,000	2,250,000
Third Quarter 1987	_____	_____	1,700,000	1,700,000
Fourth Quarter 1987	_____	1,000,000	300,000	1,300,000
1988	_____	1,000,000	3,650,000	4,650,000
1989	_____	1,000,000	(1,000,000)	0
1990	_____	1,000,000	(1,000,000)	0
Est. Proj. Cost Contingency	_____	10,749,125	(8,916,917)	1,832,208
Total	\$ _____	\$ 17,829,098	\$ 23,170,902	\$ 41,000,000

Project Number 82-56Title MWWTP Screen and Grit Facility RehabilitationHistory of Authorization: Included in the Development Program for years 1981-1986.

Project Description: The MWWTP Screen & Grit Rehab. includes major improvements to the west battery to increase the level of treatment and to increase the reliability of the plant to meet the effluent requirements. The project will consist of improvements to the bar screens, the flow meters, the grit chamber, and the electrical, mechanical and control systems.

Project Status and Objectives:

1. Current Status (Step III) - This project is under construction.
2. Objectives for 1987 - To continue construction.
3. Annual Objectives for future years
  - 1988 - To complete construction.
  - 1989 - NA
  - 1990 - NA

Support for Appropriation AmendmentsText for the Rationale

1986 Appropriation	\$ <u>8,750,000</u>
Actual Expenditures	<u>675,302</u>
Balance (12-31-85)	<u>8,074,698</u>
Additional Funding (Step)	<u>NONE</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>0</u>	\$ <u>          </u>	\$ <u>675,302</u>	\$ <u>675,302</u>
1986	<u>2,100,000</u>	<u>          </u>	<u>515,539</u>	<u>2,615,539</u>
First Quarter 1987	<u>434,910</u>	<u>          </u>	<u>515,090</u>	<u>950,000</u>
Second Quarter 1987	<u>434,000</u>	<u>          </u>	<u>516,000</u>	<u>950,000</u>
Third Quarter 1987	<u>434,000</u>	<u>          </u>	<u>516,000</u>	<u>950,000</u>
Fourth Quarter 1987	<u>434,000</u>	<u>          </u>	<u>516,000</u>	<u>950,000</u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>1,659,159</u>	<u>1,659,159</u>
Total	\$ <u>3,836,910</u>	\$ <u>0</u>	\$ <u>4,913,090</u>	\$ <u>8,750,000</u>

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

Project Description: The MWWTP Primary Treatment Facility Rehab. includes major improvements to the old west battery facilities (minor improvements to the east battery) to increase the level of treatment and reliability of the plant to meet the effluent requirements. The project will consist of improvements to the settling tanks, collection mechanism, scum collection system, old flocculation tanks, the electrical system and the controls.

Project Status and Objectives:

1. Current Status (Step III) - The project is under construction.
2. Objectives for 1987 - To continue construction.
3. Annual Objectives for future years
  - 1988 - To complete construction.
  - 1989 - NA
  - 1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation	\$ <u>13,535,000</u>
Actual Expenditures	<u>1,141,045</u>
Balance (12-31-85)	<u>12,393,955</u>
Additional Funding (Step)	<u>NONE</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>0</u>	\$ <u>          </u>	\$ <u>1,976,045</u>	\$ <u>1,141,045</u>
1986	<u>3,150,000</u>	<u>          </u>	<u>1,085,000</u>	<u>4,235,000</u>
First Quarter 1987	<u>500,000</u>	<u>          </u>	<u>350,000</u>	<u>850,000</u>
Second Quarter 1987	<u>500,000</u>	<u>          </u>	<u>300,000</u>	<u>800,000</u>
Third Quarter 1987	<u>500,000</u>	<u>          </u>	<u>200,000</u>	<u>700,000</u>
Fourth Quarter 1987	<u>500,000</u>	<u>          </u>	<u>100,000</u>	<u>600,000</u>
1988	<u>2,128,920</u>	<u>          </u>	<u>80,035</u>	<u>2,208,955</u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>3,000,000</u>	<u>3,000,000</u>
Total	\$ <u>7,279,920</u>	\$ <u>          </u>	\$ <u>6,256,080</u>	\$ <u>13,535,000</u>

Project Number 82-58Title MWWTP Secondary Treatment Facility RehabilitationHistory of Authorization: Included in the Development Program for years 1981-1986.

Project Description: The MWWTP facilities project includes improvements to the existing west battery treatment units to improve the level of treatment and to increase the reliability of the plant to meet the effluent requirements. The improvements will consist of modifications to the scum collection system facilities, power supply system modifications, improvements to the scum enclosure buildings, flow metering system and the plant process systems.

Project Status and Objectives:

1. Current Status (Step III) - The project will be completed in 1986.
2. Objectives for 1987 - To complete certification and project close-out.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation AmendmentsText for the Rationale

1986 Appropriation	\$ <u>5,450,000</u>
Actual Expenditures	<u>2,545,620</u>
Balance (12-31-85)	<u>2,904,380</u>
Additional Funding (Step)	<u>NONE</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>1,200,385</u>	\$ <u>240,077</u>	\$ <u>1,105,158</u>	\$ <u>2,545,620</u>
1986	<u>665,500</u>	<u>133,100</u>	<u>951,400</u>	<u>1,750,000</u>
First Quarter 1987	<u>153,040</u>	<u>30,608</u>	<u>91,352</u>	<u>275,000</u>
Second Quarter 1987	<u>150,000</u>	<u>30,000</u>	<u>95,000</u>	<u>275,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>604,380</u>	<u>604,380</u>
Total	\$ <u>2,168,925</u>	\$ <u>433,785</u>	\$ <u>2,847,290</u>	\$ <u>5,450,000</u>

Project Number 82-59Title Blue Lake WWTP Sludge Thickening FacilitiesHistory of Authorization: Included in the Development Program for years 1981-1986.

Project Description: The project will provide for additional sludge thickening tanks to allow the current primary tank which is presently being used to store and thicken sludge to be returned to use as a primary tank. The improvements will also provide for the necessary piping, electrical, mechanical and control system to provide for compatible operation of the new and existing facilities. Sludge loadout and odor scrubber facilities are also included.

Project Status and Objectives:

1. Current Status (Step III) - The project is under construction.
2. Objectives for 1987 - To complete construction in late 1987.
3. Annual Objectives for future years-
  - 1988 - To finalize the project.
  - 1989 - NA
  - 1990 - NA

Support for Appropriation AmendmentsText for the Rationale

1986 Appropriation	\$ <u>4,800,000</u>
Actual Expenditures	<u>224,704</u>
Balance (12-31-85)	<u>4,575,296</u>
Additional Funding (Step)	<u>NONE</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>0</u>	\$ <u>          </u>	\$ <u>224,704</u>	\$ <u>224,704</u>
1986	<u>1,150,000</u>	<u>          </u>	<u>1,150,000</u>	<u>2,300,000</u>
First Quarter 1987	<u>250,000</u>	<u>          </u>	<u>250,000</u>	<u>500,000</u>
Second Quarter 1987	<u>250,000</u>	<u>          </u>	<u>250,000</u>	<u>500,000</u>
Third Quarter 1987	<u>200,000</u>	<u>          </u>	<u>200,000</u>	<u>400,000</u>
Fourth Quarter 1987	<u>150,000</u>	<u>          </u>	<u>150,000</u>	<u>300,000</u>
1988	<u>205,115</u>	<u>          </u>	<u>370,181</u>	<u>575,296</u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>2,205,115</u>	\$ <u>0</u>	\$ <u>2,579,885</u>	\$ <u>4,800,000</u>

Project Number 83-51Title Chaska Plant ImprovementsHistory of Authorization: Included in the Development Program for years 1981-1986.

Project Description: The Chaska plant is near capacity and requires an expansion to provide more treatment capabilities. The proposed expansion will consist of improvements to primary and pure oxygen secondary treatment units along with the associated sludge handling facilities at the present site.

Project Status and Objectives:

1. Current Status (Step II,III) - The project has been designed and construction will be initiated in 1986.
2. Objectives for 1987 - To continue construction.
3. Annual Objectives for future years -
  - 1988 - To complete the construction.
  - 1989 - NA
  - 1990 - NA

Support for Appropriation AmendmentsText for the Rationale

1986 Appropriation	\$ <u>4,650,000</u>
Actual Expenditures	<u>145,834</u>
Balance (1-1-86)	<u>4,504,166</u>
Additional Funding (Step)	<u>NONE</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ _____	\$ _____	\$ <u>140,131</u>	\$ <u>140,131</u>
1986	_____	_____	<u>1,900,000</u>	<u>1,900,000</u>
First Quarter 1987	_____	_____	<u>200,000</u>	<u>200,000</u>
Second Quarter 1987	_____	_____	<u>200,000</u>	<u>200,000</u>
Third Quarter 1987	_____	_____	<u>300,000</u>	<u>300,000</u>
Fourth Quarter 1987	_____	_____	<u>300,000</u>	<u>300,000</u>
1988	_____	_____	<u>1,609,869</u>	<u>1,609,869</u>
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
Est. Proj. Cost Contingency	_____	_____	_____	_____
Total	\$ _____	\$ _____	\$ <u>4,650,000</u>	\$ <u>4,650,000</u>

Project Number 83-52Title Maple Plain InterceptorHistory of Authorization: Included in the Development Program for years 1981-1986.Project Description: The proposed project consists of a lift station and forcemain to Long Lake to phase the plant out of service. It includes the demolition of the existing waste water treatment facilities.Project Status and Objectives:

1. Current Status (Step III) - Project is under construction and substantial completion will be accomplished in 1986.
2. Objectives for 1987 - To complete project certification and project close-out.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation AmendmentsText for the Rationale1986 Appropriation \$ 2,625,000Actual Expenditures 2,416,244Balance (12-31-85) 208,756Additional Funding NONE  
(Step)Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ 578,638	\$	\$ 1,299,503	\$ 1,878,141
1986	493,000		77,000	570,000
First Quarter 1987	20,000		0	20,000
Second Quarter 1987	20,000		0	20,000
Third Quarter 1987	20,000		0	20,000
Fourth Quarter 1987	142,382		(122,382)	20,000
1988				
1989				
1990				
Est. Proj. Cost Contingency			96,859	96,859
<b>Total</b>	<b>\$ 1,274,020</b>	<b>\$</b>	<b>\$ 1,350,980</b>	<b>\$ 2,625,000</b>

Project Number 83-53 Title Minnesota River Study

History of Authorization: Approved as a study in the 1983 Capital Budget

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

Project Status and Objectives:

1. Current Status (Step I) - The study will be completed in 1986.
2. Objectives for 1987 - To provide information for use in the NPDES permit process.
3. Annual Objectives for future years  
1988 - NA  
1989 - NA  
1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$ <u>150,000</u>
Actual Expenditures	<u>57,758</u>
Balance (1-1-86)	<u>92,242</u>
Additional Funding (Step)	<u>25,000</u>

Text for the Rationale

Additional funds are needed for staff to provide input for the NPDES permit process.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>57,758</u>	\$ <u>57,758</u>
1986	<u>          </u>	<u>          </u>	<u>92,242</u>	<u>92,242</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>12,500</u>	<u>12,500</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>12,500</u>	<u>12,500</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>175,000</u>	\$ <u>175,000</u>



History of Authorization: Approved as a study in 1983 Capital Budget.

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

Project Status and Objectives:

1. Current Status (Step I) - The study is completed.
2. Objectives for 1987 - To complete study in 1987.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$ <u>135,000</u>
Actual Expenditures	<u>34,839</u>
Balance (12-31-85)	<u>100,161</u>
Additional Funding (Step)	<u>100,000</u>

Text for the Rationale

Project is now in Step II.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>34,839</u>	\$ <u>34,839</u>
1986	<u>          </u>	<u>          </u>	<u>25,000</u>	<u>25,000</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>25,000</u>	<u>25,000</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>50,000</u>	<u>50,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>50,000</u>	<u>50,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>50,161</u>	<u>50,161</u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>235,000</u>	\$ <u>235,000</u>

Project Number 83-55Title MWWTP Fire Detection & Alarm SystemHistory of Authorization: Approved as a study in the 1983 Capital Budget.

Project Description: This project consists of an analysis for fire detection and alarm system for hazardous areas within the plant. The system may consist of smoke detectors, heat detectors, alarm bells, transponders, control processing units to assure intermediate sounding of the alarm at the main control room.

Project Status and Objectives:

1. Current Status (Step I) - The study is completed.
2. Objectives for 1987 - To complete the design and initiate construction.
3. Annual Objectives for future years
  - 1988 - To complete the construction.
  - 1989 - NA
  - 1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$	<u>25,000</u>
Actual Expenditures		<u>4,993</u>
Balance (12-31-85)		<u>20,007</u>
Additional Funding (Step II, III)		<u>600,000</u>

Text for the Rationale

To provide additional funding for Step II, Design and Step III, Construction.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$	\$	\$ 4,993	\$ 4,993
1986			20,000	20,000
First Quarter 1987			100,000	100,000
Second Quarter 1987			100,000	100,000
Third Quarter 1987			100,000	100,000
Fourth Quarter 1987			100,000	100,000
1988			200,007	200,007
1989				
1990				
Est. Proj. Cost Contingency				
Total	\$	\$	\$ 625,000	\$ 625,000

Project Number 83-56Title Lift Station Electrical System RehabilitationHistory of Authorization: Approved as a study in the 1983 Capital Budget.Project Description: This project consists of a survey of electrical, mechanical equipment at the lift stations. This project will provide for the information to determine the need for replacement of existing equipment with with new reliable and efficient equipment.Project Status and Objectives:

1. Current Status (Step I) - The study is complete.
2. Objectives for 1987 - To complete the design.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$	<u>75,000</u>
Actual Expenditures		<u>966</u>
Balance (12-31-85)		<u>74,034</u>
Additional Funding (Step II)		<u>100,000</u>

Text for the Rationale

Additional funds are needed to provide for the design phase and provide for a larger scope project.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$	\$	\$ 966	\$ 966
1986			50,000	50,000
First Quarter 1987			31,000	31,000
Second Quarter 1987			31,000	31,000
Third Quarter 1987			31,000	31,000
Fourth Quarter 1987			31,034	31,034
1988				
1989				
1990				
Est. Proj. Cost Contingency				
Total	\$	\$	\$ 175,000	\$ 175,000

Project Number 83-57Title Metering and Lift Station System ImprovementsHistory of Authorization: Approved as a study in the 1983 Capital Budget.

Project Description: This project is to provide a new computer and associated equipment for the Alarm/Telemetry System for use in monitoring flows through the meters and the alarm system in the lift stations. The existing system has become obsolete and is difficult to maintain and to expand.

Project Status and Objectives:

1. Current Status (Step II, III) - The plans and specifications will be completed in late 1986 and construction begun.
2. Objectives for 1987 - To continue construction.
3. Annual Objectives for future years
  - 1988 - To complete construction.
  - 1989 - NA
  - 1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$ <u>2,250,000</u>
Actual Expenditures	<u>224,093</u>
Balance (12-31-85)	<u>1,025,907</u>
Additional Funding (Step III)	<u>2,750,000</u>

Text for the Rationale

Additional funds are needed to fully fund the construction phase of the project. The project has increased in cost because of revisions to the design. The previous estimate was based on preliminary information was too low.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ _____	\$ _____	\$ <u>224,093</u>	\$ <u>224,093</u>
1986	_____	_____	<u>200,000</u>	<u>200,000</u>
First Quarter 1987	_____	_____	<u>200,000</u>	<u>200,000</u>
Second Quarter 1987	_____	_____	<u>200,000</u>	<u>200,000</u>
Third Quarter 1987	_____	_____	<u>300,000</u>	<u>300,000</u>
Fourth Quarter 1987	_____	_____	<u>600,000</u>	<u>600,000</u>
1988	_____	_____	<u>3,275,907</u>	<u>3,275,907</u>
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
Est. Proj. Cost Contingency	_____	_____	_____	_____
Total	\$ _____	\$ _____	\$ <u>5,000,000</u>	\$ <u>5,000,000</u>

History of Authorization: Included in the Development Program as an amendment in 1984.

Project Description: The NPDES permit requires compliance with stringent effluent chlorine residual standards by June 1, 1986. It also requires construction of such facilities to be started 1/1/85. Engineering design was initiated in Jan., 1984, and was completed in mid-1984. The design provides new dechlorination facilities using sulfur dioxide. The project includes improvements to existing chlorination process to make it compatible with dechlorination and plant-wide practices such as computer control. The project also includes a stormwater outfall and modifications to remove stormwater from the chlorine contact channel.

Project Status and Objectives:

1. Current Status (Step III) - The project will be substantially completed in 1986.
2. Objectives for 1987 - To complete project close-out.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation \$ 5,500,000

Actual Expenditures 3,882,061

Balance (12-31-85) 1,617,939

Additional Funding NONE  
(Step)

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>0</u>	\$ <u>0</u>	\$ <u>3,882,061</u>	\$ <u>3,882,061</u>
1986	<u>188,292</u>	<u>37,658</u>	<u>1,074,050</u>	<u>1,300,000</u>
First Quarter 1987			<u>2,000</u>	<u>2,000</u>
Second Quarter 1987			<u>10,000</u>	<u>10,000</u>
Third Quarter 1987			<u>5,939</u>	<u>5,939</u>
Fourth Quarter 1987				
1988				
1989				
1990				
Est. Proj. Cost Contingency			<u>300,000</u>	<u>300,000</u>
Total	\$ <u>188,292</u>	\$ <u>37,658</u>	\$ <u>5,500,000</u>	\$ <u>5,500,000</u>

Project Number 83-59Title Medina InterceptorHistory of Authorization: Included in the Development Program by amendment in 1983.

Project Description: This project is proposed to provide a new lift station and for-cemain system to allow the phase-out of the existing Medina Plant. The interceptor for-cemain will extend from the existing plant site to an existing Plymouth trunk sewer. The interceptor to phase-out the Medina Plant is necessary in view of the recent failure of the lagoons which has resulted in discharges to Elm Creek. The plant's seepage ponds are located in a low land and a high water table. The pond's capability to function as a seepage pond was seriously altered whenr epairs were made to the dikes. The plant does not have adequate capacity for the current flows and needs to be phased-out of service.

Project Status and Objectives:

1. Current Status (Step III) - The project will be completed in 1986.
2. Objectives for 1987 - NA
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation AmendmentsText for the Rationale1986 Appropriation \$ 1,625,000Actual Expenditures 1,447,619Balance (12-31-85) 177,381Additional Funding -0-  
(Step)Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>0</u>	\$ <u>0</u>	\$ <u>1,447,619</u>	\$ <u>1,447,619</u>
1986			<u>177,381</u>	<u>177,381</u>
First Quarter 1987				
Second Quarter 1987				
Third Quarter 1987				
Fourth Quarter 1987				
1988				
1989				
1990				
Est. Proj. Cost Contingency				
Total	\$ <u></u>	\$ <u></u>	\$ <u>1,625,000</u>	\$ <u>1,625,000</u>

Project Number 83-61Title Lino Lake InterceptorHistory of Authorization: Included in the Development Program by amendment in 1983.

Project Description: The project consists of constructing 2,000 ft. of gravity interceptor extension to serve Lino Lakes' Urban Service District No. 2. The need for the Lino Lakes Interceptor Extension to serve the projected wastewater flow from Lino Lakes' Urban Service District No. 2, is based on Lino Lakes' Comprehensive Plan.

Project Status and Objectives:

1. Current Status (Step III) - This project will be bid in mid-1986. Construction to be substantially complete by late 1986.
2. Objectives for 1987 - To finalize construction.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$	<u>390,000</u>
Actual Expenditures		<u>19,271</u>
Balance (12-31-85)		<u>370,729</u>
Additional Funding (Step III)		<u>60,000</u>

Text for the Rationale

Additional funds are needed to provide funds for the total project based on more detailed construction costs and additions made to the project.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$	\$	\$ 19,271	\$ 19,271
1986			360,000	360,000
First Quarter 1987			50,000	50,000
Second Quarter 1987			20,729	20,729
Third Quarter 1987				
Fourth Quarter 1987				
1988				
1989				
1990				
Est. Proj. Cost Contingency				
Total	\$	\$	\$ 450,000	\$ 450,000

Revised 6/3/86

SCHEDULE 11-41

Project Number 83-62Title Ramsey Second ConnectionHistory of Authorization: Included in the Development Program by amendment in 1983.Project Description: The project consists of constructing a second metropolitan interceptor to serve the eastern portion of Ramsey, within the Rum River Watershed. The proposed 2900' gravity interceptor will extend from the Anoka Interceptor just west of Highway 47 in Anoka, north to the community border of Ramsey near Highway 47 in Anoka.Project Status and Objectives:

1. Current Status (Step III) - Project will be completed in 1986.
2. Objectives for 1987 - NA
3. Annual Objectives for future years
  - 1988 - NA
  - 1989 - NA
  - 1990 - NA

Support for Appropriation AmendmentsText for the Rationale

1986 Appropriation	\$	<u>535,000</u>
Actual Expenditures		<u>527,813</u>
Balance (12-31-85)		<u>7,187</u>
Additional Funding (Step)		<u>-0-</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$	\$	\$ 527,813	\$ 527,813
1986			7,187	7,187
First Quarter 1987				
Second Quarter 1987				
Third Quarter 1987				
Fourth Quarter 1987				
1988				
1989				
1990				
Est. Proj. Cost Contingency				
Total	\$	\$	\$ 535,000	\$ 535,000



Project Number 83-65 Title Miscellaneous Capital Improvements

History of Authorization: Approved as a project in the 1983 Capital Budget.

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

Project Status and Objectives:

1. Current Status (Step II & III) - The miscellaneous projects are essentially complete except for two projects.
2. Objectives for 1987 - The projects will be completed by the end of the first quarter of 1987 with the South St. Paul Plant Demolition Project.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation	\$ <u>3,300,188</u>
Actual Expenditures	<u>2,286,515</u>
Balance (1-1-86)	<u>1,013,673</u>
Additional Funding (Step)	<u>NONE</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>2,286,515</u>	\$ <u>2,286,515</u>
1986	<u>          </u>	<u>          </u>	<u>712,073</u>	<u>712,073</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>301,600</u>	<u>301,600</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>3,300,188</u>	\$ <u>3,300,188</u>

Project 83-65 Miscellaneous Capital Improvements

<u>Project</u>	<u>Capital Project Cost</u>
Administration - Consists of completed projects, general investigations of need for improvements, preliminary engineering and small projects. (001)	\$ 602,862
Lift Stations - Consists of: Coon Rapids Lift Station Improvements (477)	332,000
South St. Paul Plant Demolition - Consists of work necessary to demolish most of the existing structures. (353)	250,000
Trunk Sewer Rehabilitation	249,975
Metro R & D Facility - Provides office and lab improvements for the research and development staff. (474)	110,917
Shoreview Interceptor Improvements - Consists of a new interceptor under the highway to replace our existing section of line. (473)	151,519
Metro ID Fan Room Ventilation Improvements (478)	67,638
Fire Protection Standpipes, Sludge Processing Building - Consists of standpipe system for fire-fighting. (471)	63,307
Compressor Building - Surge Protection - Consists of protection of compressor motors. (350)	107,483
Truck Scale for Sludge Hauling - Consists of scale, pit and electronics to monitor sludge spreading program. (472)	85,468
Savage Meter Station Improvements - Provides for Commission meter to determine flow from a collection system. (479)	30,000
Anoka Plant Improvements - Consists of upgrading raw wastewater pumping, provide additional aeration capacity, chlorination improvements, and miscellaneous minor instrumentation. (475)	165,500
Empire Plant Improvements - Consists of a digester access opening, digester liquid level sensors, centrate line modification, power factor correction, influent sampler flow pacing, digester No. 4 cover improvements, plant flow meter modifications, blower building MCC cooling system, extended aeration modifications, filter building hoist, and bar screen maintenance platforms. (352)	355,200
South St. Paul Phase Out (394)	464,000
Interceptor Improvements (447)	<u>264,319</u>
TOTAL	<u>\$3,300,188</u>

Project Number 84-51Title New Brighton InterceptorHistory of Authorization: Approved as an amendment to the development program in 1984.

Project Description: The proposed project consists of about 3,000 ft. of gravity interceptor to provide metropolitan sewer service to the northern portion of Arden Hills. The proposed interceptor will connect to the Arden Hills collection system at the boundary and convey the flow to the existing trunk sewer of New Brighton which is scheduled to be acquired by the Commission. The alignment will be generally along the north side of I-694 and between I-35W and westerly to the existing trunk sewer near the railroad.

Project Status and Objectives:

1. Current Status (Step III) - The project is to be bid in mid-1986.
2. Objectives for 1987 - To complete the construction.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation AmendmentsText for the Rationale

1986 Appropriation	\$ <u>1,135,000</u>
Actual Expenditures	<u>35,333</u>
Balance (12-31-85)	<u>1,099.667</u>
Additional Funding (Step)	<u>NONE</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ _____	\$ _____	\$ <u>35,333</u>	\$ <u>35,333</u>
1986	_____	_____	<u>750,000</u>	<u>750,000</u>
First Quarter 1987	_____	_____	<u>57,132</u>	<u>57,132</u>
Second Quarter 1987	_____	_____	<u>157,535</u>	<u>157,535</u>
Third Quarter 1987	_____	_____	<u>135,000</u>	<u>135,000</u>
Fourth Quarter 1987	_____	_____	_____	_____
1988	_____	_____	_____	_____
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
Est. Proj. Cost Contingency	_____	_____	_____	_____
Total	\$ _____	\$ _____	\$ <u>1,135,000</u>	\$ <u>1,135,000</u>

Project Number 85-51 Title Rosemount Plant

History of Authorization: Included in the 1984-1988 Development Program.

Project Description: Consists of a project for a new plant to replace the existing facilities. The type of plant will be evaluated in a design study to determine the most cost-effective alternative prior to design. The alternative may be to phase out the plant and convey the flow to the Metro Plant for treatment which will involve a project consisting of a lift station and forcemain to Inver Grove Heights.

Project Status and Objectives:

1. Current Status (Step II) - Design report to be finalized by early 1986.
2. Objectives for 1987 - To complete plans and specifications in early 1987, and begin construction.
3. Annual Objectives for future years  
1988 - To complete construction.  
1989 - NA  
1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation	\$ <u>5,300,000</u>
Actual Expenditures	<u>33,943</u>
Balance (12-31-85)	<u>5,266,057</u>
Additional Funding (Step)	<u>NONE</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>33,943</u>	\$ <u>33,943</u>
1986	<u>          </u>	<u>          </u>	<u>200,000</u>	<u>200,000</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>50,000</u>	<u>50,000</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>200,000</u>	<u>200,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>200,000</u>	<u>200,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>200,000</u>	<u>200,000</u>
1988	<u>          </u>	<u>          </u>	<u>3,216,057</u>	<u>3,216,057</u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>1,200,000</u>	<u>1,200,000</u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>5,300,000</u>	\$ <u>5,300,000</u>

History of Authorization: Included in the 1984-1988 Development Program.

Project Description: Project consists of a two additional belt presses and a waste activated sludge thickening units to handle the average solids loading. The existing units are available to handle the peak loads. Project includes improvements to the existing Diffused Air Flotation Thickeners as necessary to provide for proper operation. Project includes building and all appurtenances.

Project Status and Objectives:

1. Current Status (Step II) - The planning will be continued during 1986 and into 1987. The plans and specifications will be completed by late 1986 for the additional belt presses and the sludge thickening improvements.
2. Objectives for 1987 - To initiate construction for the first improvements and continue planning and design as necessary for the remaining work.
3. Annual Objectives for future years
  - 1988 - To complete construction in 1988 and provide additional capacity and energy conservation for the sludge handling facilities on the first phase.
  - 1989 - NA
  - 1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$ <u>2,300,000</u>
Actual Expenditures	<u>26,098</u>
Balance (12-31-85)	<u>2,273,902</u>
Additional Funding (Step III)	<u>1,600,000</u>

Text for the Rationale

The additional funds are needed to provide for the total cost of the project, based on more refined estimates.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ _____	\$ _____	\$ 26,098	\$ 26,098
1986	_____	_____	500,000	500,000
First Quarter 1987	_____	_____	70,000	70,000
Second Quarter 1987	_____	_____	170,000	170,000
Third Quarter 1987	_____	_____	170,000	170,000
Fourth Quarter 1987	_____	_____	370,000	370,000
1988	_____	_____	1,893,902	1,893,902
1989	_____	_____	700,000	700,000
1990	_____	_____	_____	_____
Est. Proj. Cost Contingency	_____	_____	_____	_____
Total	\$ _____	\$ _____	\$ 3,900,000	\$ 3,900,000

Revised 6/3/86

Project Number 85-53Title Metro Plant Water Supply ImprovementsHistory of Authorization: Included in the 1981-1986 Development Program.

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

Project Status and Objectives:

1. Current Status (Step II) - The plans and specifications have been completed.
2. Objectives for 1987 - To complete the construction in 1987.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation AmendmentsText for the Rationale1986 Appropriation \$ 450,000Actual Expenditures 8,157Balance (12-31-85) 441,843Additional Funding NONE  
(Step)Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>8,157</u>	\$ <u>8,157</u>
1986	<u>          </u>	<u>          </u>	<u>50,000</u>	<u>50,000</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>50,000</u>	<u>50,000</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>50,000</u>	<u>50,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>50,000</u>	<u>50,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>41,843</u>	<u>41,843</u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>200,000</u>	<u>200,000</u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>450,000</u>	\$ <u>450,000</u>

Project Number 85-54Title Blue Lake Plant ExpansionHistory of Authorization: To be included in the 1986-1990 Development Program.Project Description: Consists of a project to provide additional facilities to increase the size of the plant from 20 mgd up to approximately 32 mgd and to provide treatment in accord with the NPDES permit requirements.Project Status and Objectives:

1. Current Status (Step I) - The study will be completed in 1986.
2. Objectives for 1987 - To complete plans and specifications in 1987.
3. Annual Objectives for future years
  - 1988 - Initiate construction.
  - 1989 - Continue construction.
  - 1990 - Complete construction.

Support for Appropriation AmendmentsText for the Rationale

1986 Appropriation	\$ <u>750,000</u>
Actual Expenditures	<u>2,453</u>
Balance (12-31-85)	<u>747,547</u>
Additional Funding (Step III)	<u>-0-</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>2,453</u>	\$ <u>2,453</u>
1986	<u>          </u>	<u>          </u>	<u>145,993</u>	<u>145,993</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>150,000</u>	<u>150,000</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>150,000</u>	<u>150,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>150,000</u>	<u>150,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>151,554</u>	<u>151,554</u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>750,000</u>	\$ <u>750,000</u>

Project Number 85-55

Title Empire Plant Expansion & Modifications

History of Authorization: To be included in the 1986-1990 Development Program.

Project Description: Consists of a project to provide additional treatment capacity from the existing 6 mgd level up to about 9 mgd.

Project Status and Objectives:

1. Current Status (Step I) - The study will be completed in mid-1986.
2. Objectives for 1987 - To complete the design.
3. Annual Objectives for future years
  - 1988 - To initiate construction.
  - 1989 - To continue construction.
  - 1989 - To continue construction.
  - 1990 - To finalize the project.

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation	\$ <u>850,000</u>
Actual Expenditures	<u>72,591</u>
Balance (12-31-85)	<u>777,409</u>
Additional Funding (Step III)	<u>                    </u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>                    </u>	\$ <u>                    </u>	\$ <u>72,591</u>	\$ <u>72,591</u>
1986	<u>                    </u>	<u>                    </u>	<u>50,000</u>	<u>50,000</u>
First Quarter 1987	<u>                    </u>	<u>                    </u>	<u>150,000</u>	<u>150,000</u>
Second Quarter 1987	<u>                    </u>	<u>                    </u>	<u>150,000</u>	<u>150,000</u>
Third Quarter 1987	<u>                    </u>	<u>                    </u>	<u>150,000</u>	<u>150,000</u>
Fourth Quarter 1987	<u>                    </u>	<u>                    </u>	<u>277,409</u>	<u>150,000</u>
1988	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
1989	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
1990	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
Est. Proj. Cost Contingency	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
Total	\$ <u>                    </u>	\$ <u>                    </u>	\$ <u>850,000</u>	\$ <u>850,000</u>



Project Number 85-56-315Title Mississippi River Quality AssessmentHistory of Authorization: The study was approved in the 1985 Capital Budget.

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

Project Status and Objectives:

1. Current Status (Step I) - To be completed in 1986.
2. Objectives for 1987 - Public hearing and other follow-up work.
3. Annual Objectives for future years
  - 1988 - To complete the study.
  - 1989 - NA
  - 1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$ <u>150,000</u>
Actual Expenditures	<u>69,369</u>
Balance (12-31-85)	<u>80,631</u>
Additional Funding (Step I)	<u>50,000</u>

Text for the Rationale

Additional funds are needed to provide more information for the computer model and to complete the overall assessment.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ _____	\$ _____	\$ <u>69,369</u>	\$ <u>69,369</u>
1986	_____	_____	<u>50,000</u>	<u>50,000</u>
First Quarter 1987	_____	_____	<u>20,000</u>	<u>20,000</u>
Second Quarter 1987	_____	_____	<u>20,000</u>	<u>20,000</u>
Third Quarter 1987	_____	_____	<u>20,000</u>	<u>20,000</u>
Fourth Quarter 1987	_____	_____	<u>20,631</u>	<u>20,631</u>
1988	_____	_____	_____	_____
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
Est. Proj. Cost Contingency	_____	_____	_____	_____
Total	\$ _____	\$ _____	\$ <u>200,000</u>	\$ <u>200,000</u>

Project Number 85-56-316Title Metro Plant Performance StudyHistory of Authorization: The study was approved in the 1985 Capital Budget.

Project Description: Consists of a study to define critical factors affecting plant performance. Assess impacts of on-going construction projects and assess routine maintenance needs. Develop treatment capacity models. Select appropriate sets of potential water quality based effluent limits. Project plant performance capability for each set of effluent limits. Define additional process evaluation studies. Evaluate short-term capital improvements, such as flow equalization, chemical feed process modifications, fine bubble aeration equipment, and final settling tanks.

Project Status and Objectives:

1. Current Status (Step I) - The study was completed in 1986.
2. Objectives for 1987 - Public hearing and other follow-up work.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$	<u>300,000</u>
Actual Expenditures		<u>217,693</u>
Balance (12-31-85)		<u>82,307</u>
Additional Funding (Step I)		<u>50,000</u>

Text for the Rationale

Additional funds are required to complete the follow-up work resulting from the study and in coordination with the permit.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$	\$	\$ 217,693	\$ 217,693
1986			25,000	25,000
First Quarter 1987			25,000	25,000
Second Quarter 1987			25,000	25,000
Third Quarter 1987			25,000	25,000
Fourth Quarter 1987			32,307	32,307
1988				
1989				
1990				
Est. Proj. Cost Contingency				
Total	\$	\$	\$ 350,000	\$ 350,000

Project Number 85-56-317Title Residual Solids ManagementHistory of Authorization: The study was approved in the 1985 Capital Budget.

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

Project Status and Objectives:

1. Current Status (Step I) - The formal study has not been initiated.
2. Objectives for 1987 - To initiate and complete the study.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation AmendmentsText for the Rationale

1986 Appropriation	\$	<u>150,000</u>
Actual Expenditures		<u>311</u>
Balance (1-1-86)		<u>149,689</u>
Additional Funding (Step)		<u>NONE</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>311</u>	\$ <u>311</u>
1986	<u>          </u>	<u>          </u>	<u>0</u>	<u>0</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>25,000</u>	<u>25,000</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>25,000</u>	<u>25,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>50,000</u>	<u>50,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>49,689</u>	<u>49,689</u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>150,000</u>	\$ <u>150,000</u>

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

Project Description: Consists of a study to compile and evaluate information on design, construction, and operations of sludge incinerators and other solids processing facilities. Evaluate results from odor monitoring program and operating program for sludge incinerators. Conduct special odor surveys and air dispersion modeling. Evaluate odor control alternatives. Recommend plan of action for odor control, considering various methods of residual solids management, i.e., land application, composting and incineration/energy recovery.

Project Status and Objectives:

1. Current Status (Step I) - The formal study was initiated and will be completed in 1986.
2. Objectives for 1987 - To finalize recommendations for the design phase.
3. Annual Objectives for future years
  - 1988 - NA
  - 1989 - NA
  - 1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$ <u>150,000</u>
Actual Expenditures	<u>1,448</u>
Balance (1-1-86)	<u>148,552</u>
Additional Funding (Step I)	<u>150,000</u>

Text for the Rationale

Additional funds are needed to fund the comprehensive study. The total funding in Program 85-56 is not adequate to conduct all studies.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ _____	\$ _____	\$ <u>1,448</u>	\$ <u>1,448</u>
1986	_____	_____	<u>250,000</u>	<u>250,000</u>
First Quarter 1987	_____	_____	<u>25,000</u>	<u>25,000</u>
Second Quarter 1987	_____	_____	<u>23,552</u>	<u>23,552</u>
Third Quarter 1987	_____	_____	<u>0</u>	<u>0</u>
Fourth Quarter 1987	_____	_____	<u>0</u>	<u>0</u>
1988	_____	_____	<u>0</u>	<u>0</u>
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
Est. Proj. Cost Contingency	_____	_____	_____	_____
Total	\$ _____	\$ _____	\$ <u>300,000</u>	\$ <u>300,000</u>

Project Number 85-56-319Title Metro Plant Pumping Station ImprovementsHistory of Authorization: The study was approved in the 1985 Capital Budget.

Project Description: Evaluate capacity of existing pumps and their operation and maintenance. Analyze cost of providing one standby pump (no standby pump available now) and of providing full 655 mpg pumping capacity (current capacity has been estimated at 585 mgd using all five pumps). Assess impact of bypassing when existing pump capacity is exceeded.

Project Status and Objectives:

1. Current Status (Step I) - To initiate the study.
2. Objectives for 1987 - To complete the study.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$	<u>25,000</u>
Actual Expenditures		<u>7</u>
Balance (12-31-85)		<u>24,993</u>
Additional Funding (Step I)		<u>25,000</u>

Text for the Rationale

Additional funding is required because previous allocated funds are not adequate for the study.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$	\$	\$	\$ <u>7</u>
1986				<u>25,000</u>
First Quarter 1987				<u>12,500</u>
Second Quarter 1987				<u>12,493</u>
Third Quarter 1987				
Fourth Quarter 1987				
1988				
1989				
1990				
Est. Proj. Cost Contingency				
Total	\$	\$	\$	\$ <u>50,000</u>

Project Number 85-56-320Title Metro Plant F & I No. 1 ModificationsHistory of Authorization: The study was approved in the 1985 Capital Budget.Project Description: Evaluate potential uses of F&I No. 1 building, removal of existing equipment and conversion to other uses, such as sludge loadout and/or sludge loading facility, warehouse space, lockers and showers, laboratory, training areas, offices, etc; demolition of unused portions of the building and reserving space for future expansion.Project Status and Objectives:

1. Current Status (Step I) - To initiate and complete the study.
2. Objectives for 1987 - To complete the study.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - Na

Support for Appropriation Amendments

1986 Appropriation	\$	<u>25,000</u>
Actual Expenditures		<u>0</u>
Balance (12-31-85)		<u>25,000</u>
Additional Funding (Step I)		<u>25,000</u>

Text for the Rationale

Additional funds are required because previously allocated funds are not adequate to complete the study.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$	\$	\$	\$ <u>0</u>
1986				<u>25,000</u>
First Quarter 1987				<u>12,500</u>
Second Quarter 1987				<u>12,500</u>
Third Quarter 1987				
Fourth Quarter 1987				
1988				
1989				
1990				
Est. Proj. Cost Contingency				
Total	\$	\$	\$	\$ <u>50,000</u>

Project Number 85-57Title Seneca Plant StudyHistory of Authorization: The study was approved in the 1985 Capital Budget.Project Description: Consists of providing technical and cost evaluations for various treatment limits, in support of MWOC at public hearings on Minnesota River waste load allocation. Revise the facility plan to reflect facilities needed to comply with final water quality based effluent limits and future needs of the area.Project Status and Objectives:

1. Current Status (Step I) - To complete the study in 1986.
2. Objectives for 1987 - To finalize the approval process.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$ <u>100,000</u>
Actual Expenditures	<u>3,181</u>
Balance (12-31-85)	<u>96,819</u>
Additional Funding (Step I)	<u>25,000</u>

Text for the Rationale

Additional Funds are needed to complete the study and to implement the information from the study into the permit.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>3,181</u>	\$ <u>3,181</u>
1986	<u>          </u>	<u>          </u>	<u>100,000</u>	<u>100,000</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>21,819</u>	<u>21,819</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>125,000</u>	\$ <u>125,000</u>

Project Number 85-58Title Service Area #1 Study for Regulator  
System ImprovementsHistory of Authorization: The study was approved in the 1985 Capital Budget.Project Description: Consists of a study to physically inspect all regulators. Document electrical, mechanical, structural, hydraulic and safety deficiencies, such as explosion-proof electrical systems, adequate ventilation, lighting, access, and work space. Update available documentation (record drawings) as necessary. Conduct hydraulic analysis of regulators individually and as a system and assess the condition and operational benefits versus costs of the fabridams versus fixed weirs.Project Status and Objectives:

1. Current Status (Step I) - To initiate the study.
2. Objectives for 1987 - To complete the study.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation AmendmentsText for the Rationale1986 Appropriation \$ 100,000Actual Expenditures 0Balance (12-31-85) 100,000Additional Funding NONE  
(Step)Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>0</u>	\$ <u>0</u>
1986	<u>          </u>	<u>          </u>	<u>0</u>	<u>0</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>10,000</u>	<u>10,000</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>20,000</u>	<u>20,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>30,000</u>	<u>30,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>40,000</u>	<u>40,000</u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>100,000</u>	\$ <u>100,000</u>



Project Number 85-59Title Meter Station ImprovementsHistory of Authorization: The study was approved in the 1985 Capital Budget.

Project Description: Consists of a project to physically inspect all meter stations. Document electrical, mechanical, and hydraulic deficiencies. Evaluate flow meter records and other flow-related information available in MWOC records. Evaluate maintenance history of metering stations. Recommend improvements to each metering station, as necessary. Evaluate unmetered area flows and hydraulic conditions and determine feasibility of metering additional flows. Design for multiple projects will proceed on a systematic, prioritized basis.

Project Status and Objectives:

1. Current Status (Step I) - The study is completed.
2. Objectives for 1987 - To complete the preparation of plans and specifications and initiate construction for the high priority stations.
3. Annual Objectives for future years -
  - 1988 - To continue construction and designs.
  - 1989 - To complete construction on the high priority stations and continue design.
  - 1990 - Continue as needed.

Support for Appropriation Amendments

1986 Appropriation	\$ <u>250,000</u>
Actual Expenditures	<u>48,323</u>
Balance (1-1-86)	<u>201,677</u>
Additional Funding (Step III)	<u>2,000,000</u>

Text for the Rationale

Additional funds are needed for the construction of the improvements.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ _____	\$ _____	\$ 48,323	\$ 48,323
1986	_____	_____	20,000	20,000
First Quarter 1987	_____	_____	40,000	40,000
Second Quarter 1987	_____	_____	40,000	40,000
Third Quarter 1987	_____	_____	40,000	40,000
Fourth Quarter 1987	_____	_____	240,000	240,000
1988	_____	_____	800,000	800,000
1989	_____	_____	1,021,677	1,021,677
1990	_____	_____	_____	_____
Est. Proj. Cost Contingency	_____	_____	_____	_____
Total	\$ _____	\$ _____	\$ 2,250,000	\$ 2,250,000

Project Number 85-60Title Savage Interceptor

History of Authorization: The project was included in the Development Program by amendment in 1985.

Project Description: Consists of an interceptor to phase-out the Savage Plant by the construction of a lift station, forcemain and gravity interceptor. The flow will be diverted to the Seneca Plant.

Project Status and Objectives:

1. Current Status (Step II) - The design is in progress and is schedule for completion in mid 1986. Anticipate begin construction late 1986.
2. Objectives for 1987 - To continue the construction.
3. Annual Objectives for future years
  - 1988 - To complete the construction.
  - 1989 - To finalize the project.
  - 1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$ <u>4,170,000</u>
Actual Expenditures	<u>66,113</u>
Balance (1-1-86)	<u>4,103,887</u>
Additional Funding (Step III)	<u>1,830,000</u>

Text for the Rationale

Additional funds are needed for the total project based on more detailed construction cost estimates.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ _____	\$ _____	\$ 66,113	\$ 66,113
1986	_____	_____	500,000	500,000
First Quarter 1987	_____	_____	500,000	500,000
Second Quarter 1987	_____	_____	500,000	500,000
Third Quarter 1987	_____	_____	500,000	500,000
Fourth Quarter 1987	_____	_____	500,000	500,000
1988	_____	_____	1,733,887	1,733,887
1989	_____	_____	1,700,000	1,700,000
1990	_____	_____	_____	_____
Est. Proj. Cost Contingency	_____	_____	_____	_____
Total	\$ _____	\$ _____	\$ 6,000,000	\$ 6,000,000

Revised 6/3/86

SCHEDULE 11-60

Project Number 85-61Title Metro Plant Laboratory ModificationsHistory of Authorization: The project was approved in the 1984-1988 Development Program.

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

Project Status and Objectives:

1. Current Status (Step III) - The project is in the construction phase.
2. Objectives for 1987 - To Complete the construction.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation AmendmentsText for the Rationale

1986 Appropriation	\$ <u>821,000</u>
Actual Expenditures	<u>450,167</u>
Balance (1-1-86)	<u>370,833</u>
Additional Funding (Step)	<u>NONE</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>450,167</u>	\$ <u>450,167</u>
1986	<u>          </u>	<u>          </u>	<u>370,833</u>	<u>370,833</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>821,000</u>	\$ <u>821,000</u>

Project Number 85-62Title Metro Plant Ash Basin

History of Authorization: To be included in the Development Program  
for Years 1986-1990.

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

Project Status and Objectives:

1. Current Status (Step II & III) - The project is in the plans and specification stage. Construction to be initiated in mid-1986.
2. Objectives for 1987 - Complete construction in early 1987.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$	<u>500,000</u>
Actual Expenditures		<u>12,114</u>
Balance (12-31-85)		<u>487,886</u>
Additional Funding (Step III)		<u>300,000</u>

Text for the Rationale

Additional funds are needed to construct the project based on more detailed cost estimates.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$	\$	\$ 12,114	\$ 12,114
1986			600,000	600,000
First Quarter 1987			50,000	50,000
Second Quarter 1987			137,886	137,886
Third Quarter 1987				
Fourth Quarter 1987				
1988				
1989				
1990				
Est. Proj. Cost Contingency				
Total	\$	\$	\$ 800,000	\$ 800,000

Project Number 85-63Title Lakeville Lift Station

History of Authorization: The project was included in the Development Program by amendment in 1985.

Project Description: Consists of a new lift station adjacent to the existing lift station which is over capacity at times. The existing station cannot be expanded and the only alternative is to replace the facility. The new station is needed to service the needs of Apple Valley and Lakeville.

Project Status and Objectives:

1. Current Status (Step II & III) - The preparation of plans and specifications will be completed in early 1986, and construction will begin in mid-1986.

2. Objectives for 1987 - To complete the construction.

3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$ <u>750,000</u>
Actual Expenditures	<u>37,431</u>
Balance (1-1-86)	<u>712,569</u>
Additional Funding (Step III)	<u>350,000</u>

Text for the Rationale

Additional Funds are needed to fund the construction based on more detailed cost estimates.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>37,431</u>	\$ <u>37,431</u>
1986	<u>          </u>	<u>          </u>	<u>237,411</u>	<u>237,411</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>175,000</u>	<u>175,000</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>275,000</u>	<u>275,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>175,000</u>	<u>175,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>200,158</u>	<u>200,158</u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>1,100,000</u>	\$ <u>1,100,000</u>

Project Number 85-65Title Miscellaneous Capital ImprovementsHistory of Authorization: The project was included in the 1985 Capital Budget.Project Description: This program provides for additional miscellaneous improvements to the wastewater treatment plant and the interceptor systems. The projects are proposed to provide for more effective operations and eliminate deficiencies in the system.Project Status and Objectives:

1. Current Status (Step II & III) - Several designs have been completed and construction of these projects has been initiated.
2. Objectives for 1987 - To initiate and complete the remaining projects in the programs.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation AmendmentsText for the Rationale1986 Appropriation \$ 1,200,000Actual Expenditures 184,525Balance (1-1-86) 1,015,475Additional Funding NONE  
(Step)Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ _____	\$ _____	\$ 184,525	\$ 184,525
1986	_____	_____	668,667	668,667
First Quarter 1987	_____	_____	120,000	120,000
Second Quarter 1987	_____	_____	126,808	126,808
Third Quarter 1987	_____	_____	50,000	50,000
Fourth Quarter 1987	_____	_____	50,000	50,000
1988	_____	_____	_____	_____
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
Est. Proj. Cost Contingency	_____	_____	_____	_____
Total	\$ _____	\$ _____	\$ 1,200,000	\$ 1,200,000

## Project 85-65 Miscellaneous Capital Improvements

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

<u>Project</u>	<u>1985 Capital Project Cost</u>
Pre-design investigation(s) to assess need for Project Development	\$ 56,515
Seneca Plant - Consists of odor control improvements	25,000
Interceptor Improvements - Consists of:	
Chanhassen Lift Station Influent Line Improvements- Consists of adding an 18-inch RCP bypass line to eliminate large drop into wet well.	38,000
Septage Discharge Site Improvements - Consists of improving septage discharge sites as required for safety, aesthetics and maintenance.	20,000
Meter Station Improvements - Consists of improving meter hydraulics, maintenance access and equipment as problems are identified.	100,000
Burnsville Lift Station Study - Consists of evaluation of odor control, flow measurement, pumping capacity, structure.	25,000
Blue Lake Plant - Provides for odor control improvements for Screen Building	80,000
Metro Plant Ventilation and Odor Control Improvements - Consists of gravity thickener ventilation improvements, sludge storage ventilation improvements, and boiler feedwater pump room ventilation modifications	28,000 115,000 55,000
Metro Plant Process Piping and Conveying Improvements - Consists of an effluent water line for Incinerators 5 & 6, effluent water line for roll presses, and Sludge piping/conveyor modifications for incinerator feed .	85,000 25,000 40,000
Metro Plant Building and Grounds - Consists of Maintenance Building locker and shower additions.	475,000
East Grit Dewatering Improvements - Consists of modifications to obtain drier grit for hauling.	<u>32,485</u>
SUBTOTAL:	<u>\$1,200,000</u>

Project Number 85-66Title Middle Beltline Interceptor

History of Authorization: The project was included in the Development Program by amendment in 1985.

Project Description: The project consists of a new sanitary sewer interceptor 25,000 ft. long from Warner Road and South 61 to Beaver Lake and Lake Phalen. Construction of the interceptor will result in elimination of lake overflows in that area and allow the existing combined sewer to be converted to stormwater use.

Project Status and Objectives:

1. Current Status (Step II & III) - The plans and specifications are to be completed in early 1986 and construction started in 1986.
2. Objectives for 1987 - On going construction.
3. Annual Objectives for future years
  - 1988 - To continue construction.
  - 1989 - To completed construction
  - 1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation	\$ <u>11,850,000</u>
Actual Expenditures	<u>446,444</u>
Balance (1-1-86)	<u>11,403,556</u>
Additional Funding (Step III)	<u>-0-</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ _____	\$ _____	\$ 446,444	\$ 446,444
1986	_____	_____	1,000,000	1,000,000
First Quarter 1987	_____	_____	1,500,000	1,500,000
Second Quarter 1987	_____	_____	1,500,000	1,500,000
Third Quarter 1987	_____	_____	1,500,000	1,500,000
Fourth Quarter 1987	_____	_____	1,500,000	1,500,000
1988	_____	_____	4,403,556	4,403,556
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
Est. Proj. Cost Contingency	_____	_____	_____	_____
Total	\$ _____	\$ _____	\$ 11,850,000	\$ 11,850,000



Project Number 85-67Title Orono Interceptor Improvements

History of Authorization: The project has been approved in the 1986-1990 Development Program.

Project Description: This project consists of improvements to the structures, mechanical and electrical systems in four lift stations and improvements to several reaches of the interceptor system. The improvements are needed to handle the increased flow from Orono during wet weather periods.

Project Status and Objectives:

1. Current Status (Step II) - Design is underway and will be completed by late 1986.
2. Objectives for 1987 - Initiate construction in early 1987.
3. Annual Objectives for future years

1988 - Complete construction.

1989 - To finalize the project.

1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation	\$ <u>1,600,000</u>
Actual Expenditures	<u>201</u>
Balance (12-31-85)	<u>1,449,799</u>
Additional Funding (Step)	<u>NONE</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>201</u>	\$ <u>201</u>
1986	<u>          </u>	<u>          </u>	<u>151,000</u>	<u>151,000</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>50,000</u>	<u>50,000</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>150,000</u>	<u>150,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>250,000</u>	<u>250,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>200,200</u>	<u>200,200</u>
1988	<u>          </u>	<u>          </u>	<u>298,599</u>	<u>298,599</u>
1989	<u>          </u>	<u>          </u>	<u>500,000</u>	<u>500,000</u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>1,600,000</u>	\$ <u>1,600,000</u>

Project Number 85-68Title Eagan Interceptor ImprovementsHistory of Authorization: The project is in the 1986-1990 Development Program.Project Description: The project is proposed to consist of partial reconstruction of two existing lift stations. The improvements are needed to handle increased flows from new developments.Project Status and Objectives:

1. Current Status (Step II & III) - Design will be completed by mid-1986, and construction will begin in late 1986.
2. Objectives for 1987 - To continue construction.
3. Annual Objectives for future years
  - 1988 - To complete construction.
  - 1989 - NA
  - 1990 - NA

Support for Appropriation AmendmentsText for the Rationale

1986 Appropriation	\$ <u>1,000,000</u>
Actual Expenditures	<u>707</u>
Balance (1-1-86)	<u>999,293</u>
Additional Funding (Step)	<u>NONE</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>707</u>	\$ <u>707</u>
1986	<u>          </u>	<u>          </u>	<u>200,000</u>	<u>200,000</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>100,000</u>	<u>100,000</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>100,000</u>	<u>100,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>100,000</u>	<u>100,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>10,000</u>	<u>10,000</u>
1988	<u>          </u>	<u>          </u>	<u>489,293</u>	<u>489,293</u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>1,000,000</u>	\$ <u>1,000,000</u>

Project Number 86-53Title Stillwater Plant Expansion

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

Project Description: This project will consist of a design report and plans and specifications for an expansion of the plant to provide for treatment of the increased plan flows. The expansion will be sized for the Stillwater area including Bayport.

Project Status and Objectives:

1. Current Status (Step II) - Design will be initiated in late 1986.
2. Objectives for 1987 - To complete the design.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation Amendments

Text for the Rationale

1986 Appropriation \$ 500,000Actual Expenditures 0Balance (1-1-86) 500,000Additional Funding NONE  
(Step)

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>0</u>	\$ <u>0</u>
1986	<u>          </u>	<u>          </u>	<u>50,000</u>	<u>50,000</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>100,000</u>	<u>100,000</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>100,000</u>	<u>100,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>100,000</u>	<u>100,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>100,000</u>	<u>100,000</u>
1988	<u>          </u>	<u>          </u>	<u>50,000</u>	<u>50,000</u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>500,000</u>	\$ <u>500,000</u>

Project Number 86-54Title Mpls. 38th Street Interceptor SeparationHistory of Authorization: The project is included in the 1986-1990 Development Program.Project Description: The Minneapolis Separation plans assume the use of some existing combined interceptor sewers as future storm water conduits. This project consists of the construction of the sanitary interceptor in the bottom of the existing interceptor and allowing the remaining part to serve as a storm water sewer.Project Status and Objectives:

1. Current Status (Step II, III) - The project has been designed City of Minneapolis.
2. Objectives for 1987 - To complete construction.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation AmendmentsText for the Rationale1986 Appropriation \$ 1,500,000Actual Expenditures 0Balance (1-1-86) 1,500,000Additional Funding NONE  
(Step)Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>0</u>	\$ <u>0</u>
1986	<u>          </u>	<u>          </u>	<u>500,000</u>	<u>500,000</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>250,000</u>	<u>250,000</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>250,000</u>	<u>250,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>250,000</u>	<u>250,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>250,000</u>	<u>250,000</u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>1,500,000</u>	\$ <u>1,500,000</u>

Project Number 86-55Title Plymouth Interceptor ImprovementsHistory of Authorization: The project is in the 1986-1990 Development Program.Project Description: The project consists of improvements to provide additional capacity by installing new pumps and constructing a parallel forcemain to meet increasing capacity needs.Project Status and Objectives:

1. Current Status (Step II) - The project will be under study in mid-1986.
2. Objectives for 1987 - To complete the design and initiate construction.
3. Annual Objectives for future years
  - 1988 - To continue construction.
  - 1989 - To complete construction.
  - 1990 - NA

Support for Appropriation AmendmentsText for the Rationale

1986 Appropriation	\$ <u>350,000</u>
Actual Expenditures	<u>0</u>
Balance (1-1-86)	<u>350,000</u>
Additional Funding (Step III)	<u>-0-</u>

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>0</u>	\$ <u>0</u>
1986	<u>          </u>	<u>          </u>	<u>50,000</u>	<u>50,000</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>75,000</u>	<u>75,000</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>75,000</u>	<u>75,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>150,000</u>	<u>150,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>350,000</u>	\$ <u>350,000</u>

Project Number 86-56Title Blaine InterceptorHistory of Authorization: The project is in the 1986-1990 Development Program.Project Description: The project consists of a gravity interceptor to serve southeastern Blaine and will connect to the existing MWCC interceptor, 4-NS-523, in Mounds View.Project Status and Objectives:

1. Current Status (Step II) - The project will be initiated in mid-1986.
2. Objectives for 1987 - To complete the design and initiate construction.
3. Annual Objectives for future years

1988 - To complete construction.

1989 - NA

1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$	<u>300,000</u>
Actual Expenditures		<u>0</u>
Balance (1-1-86)		<u>300,000</u>
Additional Funding (Step III)		<u>1,400,000</u>

Text for the Rationale

To provide funding for the construction phase.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$	\$	\$ 0	\$ 0
1986			40,000	40,000
First Quarter 1987			65,000	65,000
Second Quarter 1987			65,000	65,000
Third Quarter 1987			265,000	265,000
Fourth Quarter 1987			465,000	465,000
1988			800,000	800,000
1989				
1990				
Est. Proj. Cost Contingency				
Total	\$	\$	\$ 1,700,000	\$ 1,700,000

Project Number 86-58Title Joint Interceptor RehabilitationHistory of Authorization: The project is in the 1986-1990 Development Program.Project Description: The study and design will address rehabilitation between MWWTP and 3rd and Commercial, using the MWWTP rehabilitation facility plan recommendation as a basis. Rehabilitation upstream of 3rd & Commercial will be studied and may be a long-range project.Project Status and Objectives:

1. Current Status (Step I) - The study will be initiated in late 1986.
2. Objectives for 1987 - To complete the study and initiate design.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$	<u>50,000</u>
Actual Expenditures		<u>0</u>
Balance (1-1-86)		<u>50,000</u>
Additional Funding (Step II)		<u>200,000</u>

Text for the Rationale

To provide funding for the design phase.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>0</u>	\$ <u>0</u>
1986	<u>          </u>	<u>          </u>	<u>50,000</u>	<u>50,000</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>20,000</u>	<u>20,000</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>20,000</u>	<u>20,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>50,000</u>	<u>50,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>50,000</u>	<u>50,000</u>
1988	<u>          </u>	<u>          </u>	<u>60,000</u>	<u>60,000</u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>250,000</u>	\$ <u>250,000</u>

Project Number 86-59Title Joint Interceptor Access ImprovementsHistory of Authorization: The project is in the 1986-1990 Development Program.

Project Description: The study will consist of determining viable alternatives and plan for gaining access to the joint interceptor between the Mississippi & Marshall St. and along the interceptor to the east side of the downtown St. Paul area. There are presently no access points. The interceptor carries about 2/3 of the MWWTP flow. There is no opportunity to reroute the flow if a failure on the interceptor occurs. The condition of the interceptor must be documented and this requires a physical inspection via the new access facilities.

Project Status and Objectives:

1. Current Status (Step I) - The study will be initiated in late 1986.
2. Objectives for 1987 - To complete the study.
3. Annual Objectives for future years

1988 - NA

1989 - NA

1990 - NA

Support for Appropriation AmendmentsText for the Rationale1986 Appropriation \$ 100,000Actual Expenditures 0Balance (1-1-86) 100,000Additional Funding NONE  
(Step)Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>0</u>	\$ <u>0</u>
1986	<u>          </u>	<u>          </u>	<u>40,000</u>	<u>40,000</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>15,000</u>	<u>15,000</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>15,000</u>	<u>15,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>15,000</u>	<u>15,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>15,000</u>	<u>15,000</u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>100,000</u>	\$ <u>100,000</u>



Project Number 86-60Title Trout Brook InterceptorHistory of Authorization: The project is in the 1986-1990 Development Program.Project Description: This project consists of construction of a sanitary sewer pipe adjacent to existing interceptors 1-SP-244, 1-SP-222 and 1-SP-220 in St. Paul. The interceptor will allow the existing combined sewer to convey only stormwater flows.Project Status and Objectives:

1. Current Status (Step I) - To initiate design in 1986.
2. Objectives for 1987 - To complete design and initiate construction.
3. Annual Objectives for future years

1988 - To continue construction.

1989 - To complete construction.

1990 - NA

Support for Appropriation Amendments

1986 Appropriation	\$	<u>650,000</u>
Actual Expenditures		<u>0</u>
Balance (1-1-86)		<u>650,000</u>
Additional Funding (Step III)		<u>6,300,000</u>

Text for the Rationale

To provide funds for the construction phase.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>0</u>	\$ <u>0</u>
1986	<u>          </u>	<u>          </u>	<u>210,000</u>	<u>210,000</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>110,000</u>	<u>110,000</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>110,000</u>	<u>110,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>610,000</u>	<u>610,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>610,000</u>	<u>610,000</u>
1988	<u>          </u>	<u>          </u>	<u>3,300,000</u>	<u>3,300,000</u>
1989	<u>          </u>	<u>          </u>	<u>2,000,000</u>	<u>2,000,000</u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>6,950,000</u>	\$ <u>6,950,000</u>

Project Number 86-65Title Miscellaneous Capital ImprovementsHistory of Authorization: This project was included in the 1986 Capital Budget.

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

Project Status and Objectives:

1. Current Status (Step II, III) - Projects will be initiated, designed and constructed during 1986, 1987, 1988 and 1989.
2. Objectives for 1987 - To initiate and construct the initial high priority projects in the programs.
3. Annual Objectives for future years
  - 1988 - To continue design and construction.
  - 1989 - To complete construction.
  - 1990

Support for Appropriation Amendments

1986 Appropriation	\$ <u>3,000,000</u>
Actual Expenditures	<u>0</u>
Balance (4-30-86)	<u>3,000,000</u>
Additional Funding (Step III)	<u>1,000,000</u>

Text for the Rationale

Additional funds are needed to provide for additional projects added to the program.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>0</u>	\$ <u>0</u>
1986	<u>          </u>	<u>          </u>	<u>900,000</u>	<u>900,000</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>200,000</u>	<u>200,000</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>200,000</u>	<u>200,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>350,000</u>	<u>350,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>350,000</u>	<u>350,000</u>
1988	<u>          </u>	<u>          </u>	<u>1,000,000</u>	<u>1,000,000</u>
1989	<u>          </u>	<u>          </u>	<u>1,000,000</u>	<u>1,000,000</u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>4,000,000</u>	\$ <u>4,000,000</u>

## Project 86-65 Miscellaneous Capital Improvements

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

<u>Project</u>	<u>Capital Project Cost</u>
Cherokee Avenue Sewer Contruction	\$ 185,000
Interceptor Reliability Equipment - Additional portable standby generators for lift stations, larger portable pump and piping for handling diversion pumping during emergency repairs.	185,000
Point Douglas Road Lift Station Improvements - Modify/replace pumps to match flow and head conditions.	50,000
Computerized Inventory Interceptor System - Adapt a computerized inventory system to existing interceptors to provide planning and management tool.	50,000
Brooklyn Park Lift Station and Forcemain Improvements - Increase pump capacity and improve odor control and forcemain.	200,000
Blue Lake Plant Improvements - Piping modifications for process control.	20,000
Metro Plant Odor Control Improvements - Improvements to chemical scrubber system ventilation systems for solids processing facilities. Add compost odor control system to supplement chemical scrubber systems.	200,000
Metro Plant Energy Conservation Improvements - Window panel insulation for F & I No. 2 and compressor building. HVAC survey of plant. Energy audit plantwide.	200,000
Point Douglas Road Interceptor Improvements - Relocate approximately 1,500 ft. of dual pipe outside of new highway improvements	250,000
Metro Plant Alternative Power Supply for Gravity Thickening Units - This area does not have dual power supply at present.	150,000
Metro Plant Electronic Access Control System Improvements - Improvements to plant security system by providing electronic access control systems at key locations within plant.	75,000
Reconstruction of 1,000 ft. of 48" pipe MSP 77-73 on State Highway 101 North of Highway 7 in the City of Minnetonka.	200,000
Blue Lake Effluent Pump	75,000
Meter Station Improvements - Consists of improving meter hydraulics, maintenance access and equipment as problems are identified.	290,000

Project 86-65 Miscellaneous Capital Improvements - continued

<u>Project</u>	<u>Capital Project Cost</u>
Shakopee Lift Station Odor Control - Install control facilities, meter improvements and modify ventilation as needed.	\$ 100,000
Burnsville Lift Station Improvements - Install larger pumps, improve ventilation, provide odor control, modify piping, electrical.	250,000
Moundsvew Lift Station - New lift station roof; storage building for equipment, vehicles and standby generators	50,000
France Avenue Interceptor Repair -	165,000
Maple Plain Plant Demolition -	75,000
Long Lake Lift Station Pump - Addition for peak flow.	40,000
Minneapolis East & West Meter House - Communication System	40,000
Vadnais Heights Lift Station Phase-out Study	20,000
 Metro Plant Improvements	
Flow meters, control valves, density meters, sludge blanket sensors for sludge thickening processes.	150,000
Filter Modifications - Include modifying filter press system to achieve uniform feed to incinerators, modifying vacuum filter system to dewater thermally conditioned sludge, and adding dewatering area field laboratory.	200,000
Effluent foam control system Improvements	75,000
 Bio selector piping modifications.	50,000
Scum piping revisions to remove scum from wast activated sludge	40,000
Provide additional administration office space	250,000
Incincerator 9/10 Heat Reclamation - Shaft cooling air	75,000
Steam Flow Meters	40,000
Scum burning system modifications and #5 fuel oil storage tank	35,000
Fuel oil storage tank for emergency generator	50,000
Ash handling improvements	65,000
Zero hearth burners for odor control	<u>100,000</u>
 Total	<u>\$4,000,000</u>

Project 86-65 Miscellaneous Capital Improvements - continued

Reserve List of Projects

Metro Plant Flow Metering Improvements - Consists of improvements to flow metering.

Metro Plant Incineration Facilities - Consists of modifications to combustion air duct, No. 5 fuel oil storage tank.

Interceptors

Oak Street Regulator Rehabilitation - Eliminate structural and safety deficiencies.

Rice and Rondo Regulator Rehabilitation - Replace impact cup at bottom of dropshaft.

North end of Middle Beltline Interceptor - Eliminate structural deficiencies by rehabilitation or improvements to the interceptor as needed.

Relocate Interceptor in Eden Prairie due to highway widening. (Two year delay-1988).

Trout Brook Interceptor Improvement - Improvements to invert and sagging sections along Maryland Avenue.

Portland and Washington Regulator Rehabilitation - Structural rehabilitation of regulator access tunnel and vault, addition of safety facilities, and electrical improvements.

MMWTP - Provide Lighting protection system for the plant.

SCHEDULE OF  
PROJECTS COMPLETED OR TO BE COMPLETED IN 1986

<u>Project Number</u>	<u>Project Description</u>
74-01 (403)	Digital Acquisition and Control System
74-01 (406)	Sludge Dewatering Building
75-50	Metro Planning
76-13	Environmental Planning
79-79	I/I Analysis & Rehab. Comm. Grants
83-59	Medina Interceptor
83-62	Ramsey Second Interceptor Connection

# SUMMARY OF NEW PROJECTS - REQUEST FOR FUNDING

<u>Project No.</u>	<u>Project Name</u>	<u>Step</u>	<u>Estimated Costs</u>
87-51	Anoka WWTP Phaseout	II	\$ 300,000
87-52	MMWTP Effluent Pump	II	200,000
87-53	Planning - Capital	I	<u>1,044,000</u>
			<u>\$1,544,000</u>

Project Number 87-51Title Anoka Plant PhaseoutHistory of Authorization: The project is in the 1986-1990 Development Program.

Project Description: The 201 facility plan recommended construction of the CAB Interceptor and phase-out of the Anoka Plant. The lower segment of the CAB is completed and it provides service to parts of Service Area 2 and 3. The upper segment, or "link" will connect the completed CAB Interceptor to facilities at the Anoka WWTP and allow it to be phased-out of service.

Project Status and Objectives:

1. Current Status (Step II) - The project design will be initiated in early 1987.
2. Objectives for 1987 - To complete the design.
3. Annual Objectives for future years

1988

1989

1990

Support for Appropriation Amendments

1986 Appropriation	\$	<u>0</u>
Actual Expenditures		<u>0</u>
Balance (12-31-85)		<u>0</u>
Additional Funding (Step II)		<u>300,000</u>

Text for the Rationale

To provide funds for design.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>0</u>	\$ <u>0</u>
1986	<u>          </u>	<u>          </u>	<u>0</u>	<u>0</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>75,000</u>	<u>75,000</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>75,000</u>	<u>75,000</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>75,000</u>	<u>75,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>75,000</u>	<u>75,000</u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>300,000</u>	\$ <u>300,000</u>



Project Number 87-52Title MWWTP Effluent Pumping Station ImprovementsHistory of Authorization: The project is in the 1986-1990 Development Program.Project Description: The project will provide the necessary improvements to the existing effluent pumping station to provide additional capacity at the station to be compatible with the capacity of the influent interceptor to the plant.Project Status and Objectives:

1. Current Status (Step I) See Program 85-56-319.
2. Objectives for 1987 - To initiate and complete the design.
3. Annual Objectives for future years

1988

1989

1990

Support for Appropriation Amendments

1986 Appropriation	\$	<u>0</u>
Actual Expenditures		<u>0</u>
Balance (12-31-85)		<u>0</u>
Additional Funding (Step II)		<u>200,000</u>

Text for the Rationale

To provide funds for the design phase.

Annual Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ <u>          </u>	\$ <u>          </u>	\$ <u>0</u>	\$ <u>0</u>
1986	<u>          </u>	<u>          </u>	<u>0</u>	<u>0</u>
First Quarter 1987	<u>          </u>	<u>          </u>	<u>0</u>	<u>0</u>
Second Quarter 1987	<u>          </u>	<u>          </u>	<u>0</u>	<u>0</u>
Third Quarter 1987	<u>          </u>	<u>          </u>	<u>50,000</u>	<u>50,000</u>
Fourth Quarter 1987	<u>          </u>	<u>          </u>	<u>50,000</u>	<u>50,000</u>
1988	<u>          </u>	<u>          </u>	<u>100,000</u>	<u>100,000</u>
1989	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1990	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Est. Proj. Cost Contingency	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Total	\$ <u>          </u>	\$ <u>          </u>	\$ <u>200,000</u>	\$ <u>200,000</u>

Project Number 87-53Title PLANNING - CAPITAL

History of Authorization: Included in the past under authorizations for Project No. 81-63, Planning, Programming, Budget Systems for Commission planning for Project No. 75-50, Metro Planning, for Metropolitan Council planning and review activities relative to Commission programs.

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

Project Status and Objectives:

1. Current Status (Step) To carry out a continuing program of long-range planning for Commission facilities by appropriate planning studies, reviews, development programs, implementation plans, policy plans, and overall planning coordination and cooperation.
2. Objectives for 1987 -
  - 1) Commission to implement facility planning studies, complete Development Program, begin Implementation Plan and coordinate with Council in planning and new Policy Plan development.
  - 2) Council to review Commission planning and budgets and to complete Policy Plan formulation and approval.
3. Annual Objectives for future years
  - 1988 - To continue the program.
  - 1989 - To continue the program.
  - 1990 - To continue the program.

Annual Expenditures and Funding Sources

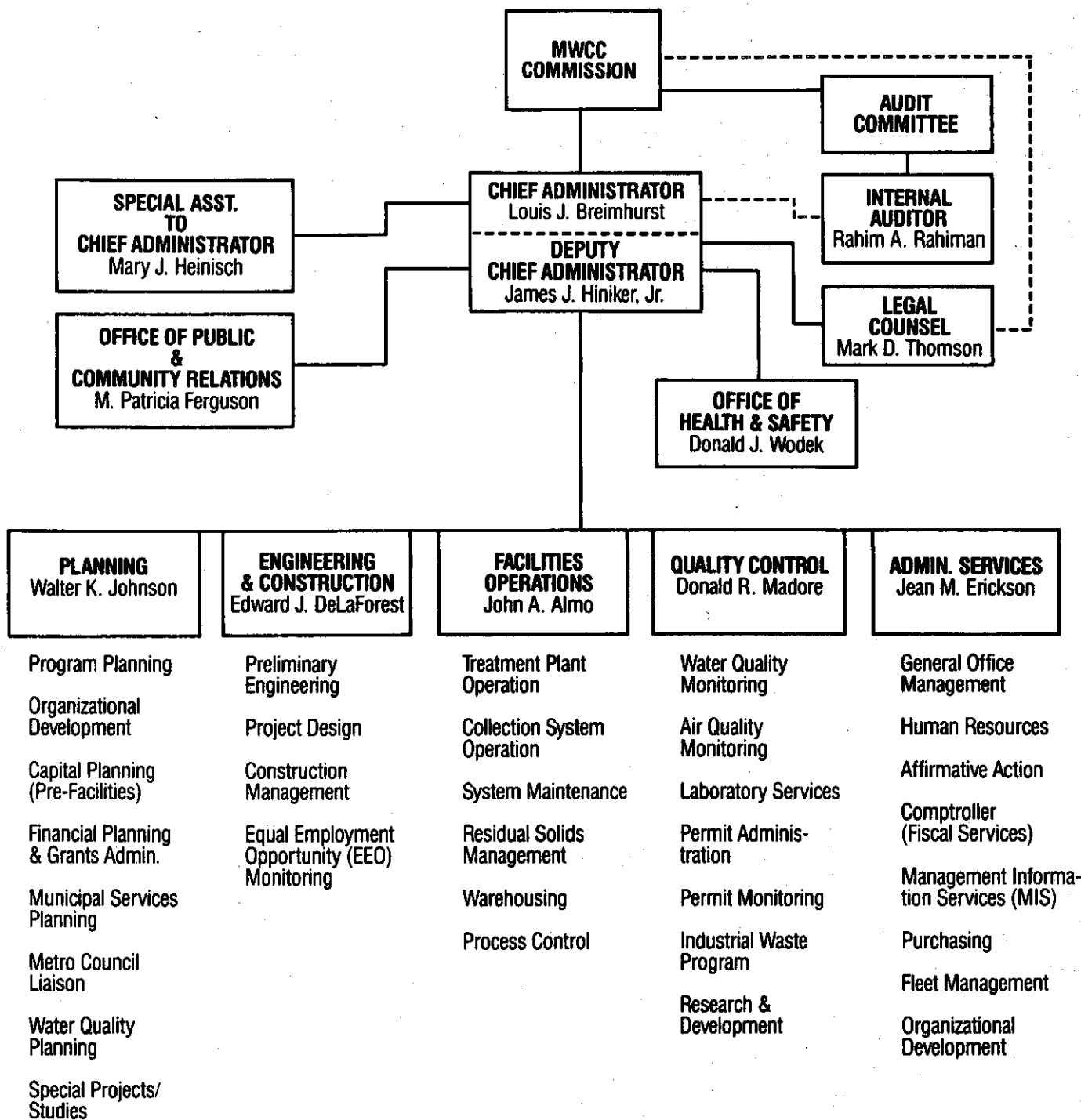
<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Local Funds</u>	<u>Total</u>
To 12/31/85	\$ _____	\$ _____	\$ 259,000	\$ 259,000
1986	_____	_____	265,000	265,000
First Quarter 1987	_____	_____	260,000	260,000
Second Quarter 1987	_____	_____	260,000	260,000
Third Quarter 1987	_____	_____	_____	_____
Fourth Quarter 1987	_____	_____	_____	_____
1988	_____	_____	_____	_____
1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
Est. Proj. Cost Contingency	_____	_____	_____	_____
Total	\$ _____	\$ _____	\$ 1,044,000	\$ 1,044,000

# STATUS OF AUTHORIZED PERSONNEL

<u>Department/Plant</u>	<u>Proposed Budget 1987</u>	<u>Actual 1986</u>
Administration	21	20
Engineering/Construction	77	70
Quality Control	88	84
Planning	19	14
Operations		
Central Office	8	8
Empire	29	29
Metro - Operations	338	337
Metro - Maintenance	177	179
Seneca	46	46
Blue Lake	34	34
Anoka	4	4
Savage	2	2
Cottage Grove	4	4
Chaska	3	3
Bayport	1	1
Stillwater	9	9
Rosemount	7	7
Hastings	6	5
Interceptor	65	66
Administrative Services	<u>43</u>	<u>41</u>
Total	<u>981</u>	<u>963</u>

**PROJECTED AVERAGE COST PER HOME  
YEARS 1986 - 1996  
4% INFLATION AND PROJECTED FLOW INCREASES**

<b>YEAR</b>	<b>AVERAGE HOME RATE</b>	<b>% OF INCREASE</b>
1986	\$ 82.35	2.53
1987	84.69	2.84
1988	88.68	4.71
1989	94.40	6.44
1990	101.01	7.00
1991	106.43	5.37
1992	112.53	5.73
1993	116.80	3.79
1994	121.28	3.83
1995	123.94	2.20
1996	127.28	2.69
<b>Average % Increase</b>		<b>4.28</b>



**MWCC ORGANIZATIONAL CHART**

TD 525 .T9 K4ax 1987  
Metropolitan Waste Control  
Commission (Minn.).  
Program budget

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Commission (Minn.).  
Program budget

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