

SEWERAGE (42)

AGENCY PLAN: MISSION, GOALS AND BUDGET SUMMARY

MISSION:

The Water and Sewerage Department is to exceed our customers' expectations through innovative treatment and transmission of water and wastewater, and the provision of services that promote healthy communities and economic growth.

AGENCY GOALS:

The Sewerage Division is administratively part of the Detroit Water and Sewerage Department while maintained as a separate fund in the City of Detroit Accounting System.

AGENCY FINANCIAL SUMMARY:

2011-12 <u>Requested</u>		2010-11 <u>Budget</u>	2011-12 <u>Recommended</u>	Increase <u>(Decrease)</u>
\$ 228,320,549	Departmental Operations	\$ 220,883,572	\$ 228,320,549	\$ 7,436,977
210,879,500	Debt Service	207,966,300	210,879,500	2,913,200
64,242,000	Capital Appropriations	30,995,800	64,242,000	33,246,200
15,239,000	Project Borrowings	46,640,000	15,239,000	(31,401,000)
<u>\$ 518,681,049</u>	Total Appropriations	<u>\$ 506,485,672</u>	<u>\$ 518,681,049</u>	<u>\$ 12,195,377</u>
\$ 498,534,049	Departmental Revenues	\$ 459,025,472	\$ 498,534,049	\$ 39,508,577
20,147,000	State Revolving Fund	47,460,200	20,147,000	(27,313,200)
<u>\$ 518,681,049</u>	Total Revenues	<u>\$ 506,485,672</u>	<u>\$ 518,681,049</u>	<u>\$ 12,195,377</u>
\$ -	NET TAX COST:	\$ -	<u>\$ -</u>	\$ -

AGENCY EMPLOYEE STATISTICS:

2011-12 <u>Requested</u>		2010-11 <u>Budget</u>	04-1-11 <u>Actual</u>	2011-12 <u>Recommended</u>	Increase <u>(Decrease)</u>
<u>1,050</u>	City Positions	<u>1,050</u>	<u>714</u>	<u>1,050</u>	<u>0</u>
1,050	Total Positions	1,050	714	1,050	0

ACTIVITIES IN THIS AGENCY:

	2010-11 <u>Budget</u>	2011-12 <u>Recommended</u>	Increase <u>(Decrease)</u>
Administrative Services	\$ 18,381,709	\$ 16,071,750	\$ (2,309,959)
Financial Services	6,921,836	6,988,865	67,029
Asset Maintenance	27,768,774	27,705,578	(63,196)
Engineering Services	3,520,957	2,268,895	(1,252,062)
Wastewater Operations	141,035,566	147,746,422	6,710,856
Sewerage - Capital and Debt Service	285,602,100	292,123,800	6,521,700
Info Tech & System Integration	11,162,570	12,997,965	1,835,395
Public Affairs Group	12,092,160	11,480,756	(611,404)
Process & Quality Control Service	-	1,297,018	1,297,018
Total Appropriations	<u>\$ 506,485,672</u>	<u>\$ 518,681,049</u>	<u>\$ 12,195,377</u>

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ADMINISTRATIVE SERVICES ACTIVITY INFORMATION

ACTIVITY DESCRIPTION: ADMINISTRATIVE SERVICES

The role of the Administrative Support Group is to support the mission and goals of the department. The Administrative Support Group is responsible for carrying out the policies of the Board and the business management of the department. This group consists of three major divisions: Administration, Security, and the Contracts and Grants Division.

The Security Division provides a safe and secure working environment for all DWSD personnel. The Division is responsible for the monitoring and securing of multiple facilities, coordinating responsiveness during hazardous and emergency situations. Additional responsibilities include:

- A range of emergency preparedness measures, actions, and processes
- Loss prevention
- Prevention and detection of unlawful activity and offenses on or within facilities
- Conducting investigations

The Print Shop is a full service, in-house printing facility with the primary function of providing comprehensive, timely, effective, and cost efficient printing and print auxiliary services to the various groups within DWSD.

The Contracts and Grants Division is divided into four (4) units: Consultant Contracts, Construction Contracts, Grants/Loans/Audits and Design-Build/Local Economic Development. The Consultant and Construction Units prepare advertisements and contract documents, monitor progress on contract work, including payment and reports, and provide closeout services. The Grants/Loans/Audits Unit provides contract monitoring, closeout, and regular audit functions for construction, consultant services, and construction management projects. Also, the Design-Build/Local Economic Development Unit prepares advertisements and contract documents, monitors progress on contract work, including payment and reports, and provides closeout services. The unit also monitors targeted enterprise participation on contracts, which is mandated by Executive Orders and City Ordinances.

GOALS:

1. To implement the policies of the Board, Charter requirements and Federal mandates for supplying water services.
2. To implement a comprehensive agency-wide reference source.
3. To ensure widespread internal knowledge of key messages and to develop a well informed employee base.
4. To educate and inform both retail and wholesale customers and the community about important DWSD projects, initiatives, and water issues.
5. To continuously carry out proactive public safety measures by enhancing security practices at all facilities. These practices are based on a vulnerability assessment conducted for the Environmental Protection Agency (EPA).
6. To too efficiently and effectively process contracts, grants and loans. Also, to encourage local businesses to participate in the Department's contracting process.
7. To encourage local businesses to participate in the Department's contracting process.

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ADMINISTRATIVE SERVICES MEASURES AND TARGETS

Type of Performance Measure: List of Measures	2008-09 Actual	2009-10 Actual	2010-11 Projection	2011-12 Target
Inputs: Resources Allocated or Service Demands Made:				
Number of grant application/amendments	0	1	0	0
Value of grant applications/amendments	\$0	\$1,433,000	\$0	0
Number of State Revolving Loan Fund applications	1	2	1	1
Value of loan applications	\$167,565,000	\$361,300,000	\$32,200,000	30,000,000
Wholesale meter maintenance (system total-55)	55	55	55	55
Activity Costs	\$39,462,630	\$29,679,946	\$18,381,709	\$16,071,750

CITY OF DETROIT
Sewerage
Financial Detail by Appropriation and Organization

Office of the Director	2010-11		2011-12		2011-12	
	Redbook		Dept Final		Mayor's	
Administration	FTE	AMOUNT	FTE	AMOUNT	FTE	AMOUNT
Request					Budget Rec	
<i>APPROPRIATION</i>						
<i>ORGANIZATION</i>						
00089 - Administration						
421010 - Office of the Director	0	\$451,411	0	\$374,507	0	\$374,507
421030 - Document Management	5	\$130,822	0	\$0	0	\$0
421040 - General Staff Services	0	\$6,615,308	0	\$7,423,949	0	\$8,217,546
421050 - General Departmental Services	0	\$5,790,882	0	\$4,230,287	0	\$4,230,287
421060 - Human Resources	0	\$26,499	0	\$24,433	0	\$24,433
421070 - Safety	3	\$178,507	0	\$0	0	\$0
421080 - Security	0	\$3,218,122	0	\$3,352,670	0	\$2,565,220
421090 - Office of Program Management Assist	9	\$1,175,724	0	\$0	0	\$0
421095 - Capital Management	6	\$63,006	6	\$39,049	6	\$35,872
421100 - Print Shop	2	\$156,807	3	\$155,085	3	\$152,115
421200 - Contracts and Grants	0	\$574,621	0	\$471,770	0	\$471,770
APPROPRIATION TOTAL	25	\$18,381,709	9	\$16,071,750	9	\$16,071,750
ACTIVITY TOTAL	25	\$18,381,709	9	\$16,071,750	9	\$16,071,750

CITY OF DETROIT
Budget Development for FY 2011-2012
Appropriations - Summary Objects

	2010-11 Redbook	2011-12 Dept Final Request	2011-12 Mayor's Budget Rec
AC0542 - Administration Services			
<i>A42000 - Sewerage Department</i>			
SALWAGESL - Salary & Wages	2,543,782	1,819,379	1,819,379
EMPBENESL - Employee Benef	1,864,704	1,900,950	1,107,353
PROFSVCSL - Professional/Cor	2,840,000	1,477,870	1,477,870
OPERSUPSL - Operating Suppli	272,000	212,739	212,739
OPERSVCSL - Operating Servic	8,949,169	8,352,483	9,146,080
OTHEXPSSL - Other Expenses	1,912,054	2,308,329	2,308,329
<i>A42000 - Sewerage Department</i>	<i>18,381,709</i>	<i>16,071,750</i>	<i>16,071,750</i>
AC0542 - Administration Services	18,381,709	16,071,750	16,071,750
Grand Total	18,381,709	16,071,750	16,071,750

SEWERAGE (42)

FINANCIAL SERVICES ACTIVITY INFORMATION

ACTIVITY DESCRIPTION: FINANCIAL SERVICES GROUP

The Financial Services Group consists of seven (7) divisions, which provide general accounting, purchasing, materials management, financial planning, capital management, customer billing and management system support and internal audit services for both Water Supply and Sewage Treatment Operations within the department. The divisions reporting to the Financial Services Group include the following:

The Accounting Division contains several sections which combined are responsible for directing, coordinating, posting, processing and monitoring activities related to cash receipts and disbursements, investments, bank activities, vendor payments, inventory activities and depreciation of property, plant and equipment, year-end closing and financial operation analysis to facilitate preparation of the trial balance and financial statements. In addition, this division coordinates activities related to the annual city audit, provides financial information as processed by the Oracle system, and performs other related tasks.

The Financial Planning Division is responsible for coordination, development, implementation and monitoring activities related to the DWSD operation and maintenance (O&M) budget, water supply and sewage treatment system service rates and charges, coordination of system revenue bond financing, and other related functions for the department.

The Internal Audit Division facilitates the departmental internal efforts to perform operational audits of transactions, procedures, and processes in various areas within DWSD, as well as, analysis and/or other investigative tasks. In addition, this section works with the external auditors to facilitate completion of audit activities. This section reports findings and makes recommendations when necessary to improve performance of operations, accountability, ensure appropriate accounting controls, and safeguard the department's assets.

The Materials Management Division consists of Stores Operations, Operations Support, Inventory Audit, Management Support, and Employee Support sections. When combined, these sections make available a supply of goods and services necessary to support DWSD in its mission at all times, under all conditions, at an optimum value per dollar spent while maintaining public confidence. To accomplish this mission, Materials Management recommends policies and procedures, executes approved policies and procedures regarding inventory control, operates and maintains fuel dispensing and storage systems, stocks materials, creates and tracks new stock numbers, collects waste materials, interdepartmental mail delivery, and auditing the preceding functions. The division also provides limited moving, transportation and warehousing services for materials and equipment.

The Purchasing Division ensures goods and services are purchased in the most efficient manner, are delivered by the date needed, at the maximum end-use value per dollar spent with the quality specified, and to assure that the department has complied with all federal, state and local laws, statues, ordinances, and executive orders that pertain to the procurement process. To accomplish this mission, the Purchasing Division, under the guidance of the Chief Procurement Officer in the Finance Department, recommends & executes policies and procedures to maintain a fair and equitable bid solicitation process, process emergency purchase order/contract, expedites PO deliveries & field operation usage, and resolves of any conflicts that may result in untimely purchase order supplier payments.

The Capital Management Group prepares and manages the Department's multi-billion dollar Capital Improvement Program (CIP). The CIP is a rolling five year plan to finance capital projects that are grouped together to accomplish the goal of replacing or improving the efficiency and reliability of the Department's water and wastewater facilities and services. Based on DWSD changing needs and challenges to serve its customers, the Capital Management Group (CMG) reviews and makes recommendations to Management on proposed projects submitted for CIP consideration as well as coordinates the efforts in developing project proposals and project execution plans. In addition, the CMG: tracks and analyzes performance and compliance of the CIP on an ongoing basis; communicates information to Management sorted and arranged in ways that will promote efficient and effective decision making; provides financial information and reports concerning the CIP to Management and the Financial Services Group; maintains the central depository for CIP data and information known as the CIPMS database; and assists in incorporating the Department wide, 50 year CIP Master Plan projects in a timely manner.

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Customer Billing and Management System (CBMS) supports various applications and functions of the commercial operations, accounting and finance, meter operations and maintenance and repair divisions within the Department. The CBMS division is responsible for maintenance and functional issues, coordinating system updates/upgrades, and preparing reports that provide financial and operational information. CBMS supports the enQuesta 3E, iNovah Cashiering System, ReportNet and WebConnect.

GOALS:

1. To develop and implement fair, equitable water and sewage rates and charges to all system customers using uniform rate methodologies.
2. Improve the integrity and timeliness of posting accounting transactions via the use of the City's Detroit Resource Management System (DRMS), prepare financial statements, perform employee training, and improve customer service.
3. Maintain and/or strive to achieve revenue bond credit rating upgrades for both systems through continual review and improvement of operational, financial and management policies internal and external to the department.
4. Improve budgetary development and monitoring activities via use of enhanced technology (the City's Budget Resource and Support System-BRASS), business processes and continued employee training in all respective areas, and in the long run reduce operational expenditures, where possible, emphasizing operational efficiency department-wide.
5. Perform appropriate internal audit activities, provide recommendations where necessary to facilitate the improvement of operational performance, accountability, ensure appropriate accounting controls, and safeguard the department's assets.
6. Ensure that DWSD has a well-integrated inventory and warehouse system that result in lower inventory and operational costs while customer service levels are maintained or improved. Inventory management must ensure that stock is available while reducing inventory costs; and the warehouse management function must increase productivity and reduce costs by streamlining the physical process of warehousing and producing fewer mistakes.

MAJOR INITIATIVES FOR FY 2010-11:

- Upgraded the Customer Billing and System Management (CBMS) to implement online bill payment, service requests, and retail budget plan requests.
- Improve the bid solicitation process by changing from hard copy U.S. mail distribution to e-mail. This will enable our division to save money while reducing process time.
- Established an expenditure review process for payment of contractual services.
- Completed the CAFR and stand alone statements on time..

PLANNING FOR THE FUTURE FOR FY 2011-12, FY 2012-13 and BEYOND:

- Improve customer service for our internal and external customers by creating outreach opportunities to educate them on what is their role in the procurement process.
- Establishing a pre-qualified vendors list for our critical needs commodities to reduce processing time while strengthening relationships with our vendors.

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FINANCIAL SERVICES MEASURES AND TARGETS

Type of Performance Measure:	2008-09	2009-10	2010-11	2011-12
List of Measures	Actual	Actual	Projection	Target
Inputs: Resources Allocated or Service Demands Made				
DWSD Staff Training Workshops	6	6	6	6
PO's Processed	6,538	6,000	6,000	6,300
Requisitions Assigned	8,617	8,000	8,000	8,600
Activity Costs	\$13,251,037	\$6,332,561	\$6,921,836	\$6,988,865

CITY OF DETROIT
Sewerage
Financial Detail by Appropriation and Organization

Office of Assist Director Financial Service Financial Services Group	2010-11 Redbook		2011-12 Dept Final Request		2011-12 Mayor's Budget Rec	
	FTE	AMOUNT	FTE	AMOUNT	FTE	AMOUNT
<i>APPROPRIATION ORGANIZATION</i>						
00090 - Financial Services Group						
422010 - Office of Assist Director Financial Sen	0	\$1,224,151	0	\$245,738	0	\$245,738
422020 - Financial Administrative Services	0	\$246,349	0	\$314,018	0	\$314,018
422030 - Budget/Fiscal Reporting	0	\$2,150	0	\$1,977	0	\$1,977
422040 - Rates	0	\$459,790	0	\$239,115	0	\$239,115
422080 - General Accounting Administrative Se	0	\$1,560,713	0	\$2,803,019	0	\$2,803,019
422090 - Financial Reporting	0	\$5,000	0	\$4,598	0	\$4,598
422100 - Fixed Assets/Inventory/Payables	0	\$506,100	0	\$407,216	0	\$407,216
422110 - Cash Management	0	\$31,800	0	\$32,948	0	\$32,948
422220 - Purchasing	0	\$593,213	0	\$653,773	0	\$653,773
422230 - Materials Management	0	\$1,531,828	0	\$1,586,832	0	\$1,586,832
422235 - Wastewater Plant Stores	0	\$10,500	0	\$9,671	0	\$9,671
422240 - Sewerage Secondary Stores	0	\$747,100	0	\$687,058	0	\$687,058
422250 - Operations Support	0	\$844	0	\$776	0	\$776
422255 - Inventory Audit	0	\$1,454	0	\$1,350	0	\$1,350
422260 - Automotive Stores	0	\$844	0	\$776	0	\$776
APPROPRIATION TOTAL	0	\$6,921,836	0	\$6,988,865	0	\$6,988,865
ACTIVITY TOTAL	0	\$6,921,836	0	\$6,988,865	0	\$6,988,865

CITY OF DETROIT
Budget Development for FY 2011-2012
Appropriations - Summary Objects

	2010-11 Redbook	2011-12 Dept Final Request	2011-12 Mayor's Budget Rec
AC1042 - Financial Services			
<i>A42000 - Sewerage Department</i>			
SALWAGESL - Salary & Wages	2,203,722	2,354,807	2,354,807
EMPBENESL - Employee Benef	1,639,355	1,926,351	1,926,351
OPERSUPSL - Operating Suppli	14,088	12,955	12,955
OPERSVCSL - Operating Servic	745,954	686,030	686,030
CAPOUTLSL - Capital Outlays/In	1,500	1,380	1,380
OTHEXPSSL - Other Expenses	2,317,217	2,007,342	2,007,342
<i>A42000 - Sewerage Department</i>	6,921,836	6,988,865	6,988,865
AC1042 - Financial Services	6,921,836	6,988,865	6,988,865
Grand Total	6,921,836	6,988,865	6,988,865

SEWERAGE (42)

ASSET MAINTENANCE GROUP ACTIVITY INFORMATION

ACTIVITY DESCRIPTION: ASSET MAINTENANCE GROUP

The Asset Maintenance Group provides maintenance and repair to equipment, facilities and water and sewer infrastructure owned and operated by the Detroit Water and Sewerage Department. It also provides maintenance support services to internal customers such as Water Supply, Systems Control, and other operating Divisions within the Department.

The Plants, Buildings, Grounds and Mechanical Maintenance (MM) Division provides centralized major maintenance and repair support services at various DWSD buildings and sewer pumping stations, sewer regulator sites and outfalls for the purposes of housekeeping and the grounds maintenance work as well as electrical, mechanical and other tasks where skilled trades work is needed. It also provides a support operation for equipment repair, calibration or replacements. Equipment maintained includes HVAC and other building equipment, pumps, motors, valves and electrical power generating and distribution equipment. This Division also provides vehicle fleet management for the Department's fleet and mobile construction equipment.

The Maintenance and Repair (M&R) Division repairs and maintains the wastewater collection system. The Division is comprised of four (4) districts that maintain all associated appurtenances such as catch basins, sewer manholes, cleanouts, sewer siphons, and storm water lead lines. Also, integral to M&R are the Telecommunications Section, Claims Section, Dispatch Section, and Field Inspection Section, providing quality services to the Department's nearly 4 million customers.

GOALS:

The Plants, Buildings, Grounds and Mechanical Maintenance Division goals are:

1. Maintain high level of pumping equipment availability and reliability for the maximum utilization of the sewage pumping stations.
2. Maintain aesthetic and professional appearance of buildings and grounds of unmanned sewage pumping stations.
3. Improve employee safety at work locations and the general efficiency and effectiveness of their support function.
4. Continue to implement effective maintenance strategies for critical pumping and other equipment to realize potential for increased revenue thru reliable pumping services.
5. Continue to implement a management succession – planning program.

The Maintenance and Repair Division's goals are:

1. Responsibly manage and maintain the City of Detroit sewer collection system.
2. Protect public health and safety and the environment by responsibly conveying sewage to the wastewater treatment plant.
3. Proactively maintain the sewer collection system infrastructure so as to minimize disruption to the residents and businesses of Detroit.
4. Further develop divisional training to reduce lost time accidents, and to provide for organized succession of divisional leadership.
5. Establish preventive maintenance programs to improve efficiency.

MAJOR INITIATIVES FOR FY 2010-11 (Mechanical Maintenance Division):

- Refurbish and convert two of the existing four Sanitary Pumps at Fairview and Northeast Sanitary Pumping stations from Packed Stuffing box design to Mechanical seals.
- Replace existing Sump pumps, Rail system and Piping at Northeast and Fairview Sanitary Pumping stations.

PLANNING FOR THE FUTURE FOR FY 2011-12, FY 2012-13 and BEYOND:

- Refurbish and convert the remaining two Sanitary Pumps at Fairview and Northeast Sanitary Pumping stations.
- Refurbish and convert all four of the existing Sanitary Pumps from Packed Stuffing box design to Mechanical seals.

SEWERAGE (42)

ASSET MAINTENANCE MEASURES AND TARGETS

Type of Performance Measure:	2008-09	2009-10	2010-11	2011-12
List of Measures	Actual	Actual	Projection	Target
Units of Activity directed toward Goals				
Sites Maintained	55	55	55	54
Acreage Maintained	350	350	350	350
Vehicle Repairs performed	1,386	1,300	1,300	1,400
Catch Basins Cleaned	4,719	3,821	5,000	5,000
Miles of Sewers Cleaned by DWSD Employees	90	90	200	250
Miles of Sewers Cleaned by Contractors	32	15	45	55
Activity Costs	\$85,883,960	\$65,415,830	\$27,768,774	\$27,705,578

CITY OF DETROIT
Sewerage
Financial Detail by Appropriation and Organization

Office of Assistant Director Asset Maintainer	2010-11		2011-12		2011-12	
	Redbook		Dept Final		Mayor's	
Asset Maintenance Group	FTE	AMOUNT	FTE	AMOUNT	FTE	AMOUNT
<i>APPROPRIATION</i>						
<i>ORGANIZATION</i>						
00161 - Asset Maintenance Group						
424010 - Office of Assistant Director Asset Maint	0	\$177,000	0	\$626,579	0	\$626,579
424120 - Mechanical Operations Administration	0	\$5,003,884	0	\$4,883,697	0	\$4,883,697
424130 - Ground Maintenance	0	\$20,500	0	\$18,855	0	\$18,855
424140 - Field Operations	0	\$3,203,650	0	\$2,583,717	0	\$2,583,717
424150 - Mechanical Maintenance	0	\$2,071,450	0	\$1,740,316	0	\$1,740,316
424190 - Water Board Building	0	\$5,781,106	0	\$1,624,022	0	\$1,624,022
424240 - Maintenance and Repair 2004	0	\$9,511,771	0	\$14,964,390	0	\$14,964,390
424360 - Central Service Facility	0	\$1,999,413	0	\$1,264,002	0	\$1,264,002
APPROPRIATION TOTAL	0	\$27,768,774	0	\$27,705,578	0	\$27,705,578
ACTIVITY TOTAL	0	\$27,768,774	0	\$27,705,578	0	\$27,705,578

CITY OF DETROIT
Budget Development for FY 2011-2012
Appropriations - Summary Objects

	2010-11 Redbook	2011-12 Dept Final Request	2011-12 Mayor's Budget Rec
AC1542 - Asset Management			
<i>A42000 - Sewerage Department</i>			
SALWAGESL - Salary & Wages	8,330,135	8,838,865	8,838,865
EMPBENESL - Employee Benef	6,185,735	7,212,632	7,212,632
PROFSVCSL - Professional/Cor	9,021,000	7,245,575	7,245,575
OPERSUPSL - Operating Suppli	1,430,450	1,308,063	1,308,063
OPERSVCSL - Operating Servic	1,667,850	1,398,591	1,066,421
CAPEQUPSL - Capital Equipme	3,000	2,759	2,759
CAPOUTLSL - Capital Outlays/In	420,000	386,246	386,246
OTHEXPSSL - Other Expenses	710,604	1,312,847	1,645,017
<i>A42000 - Sewerage Department</i>	<i>27,768,774</i>	<i>27,705,578</i>	<i>27,705,578</i>
AC1542 - Asset Management	27,768,774	27,705,578	27,705,578
Grand Total	27,768,774	27,705,578	27,705,578

SEWERAGE (42)

ENGINEERING SERVICES GROUP ACTIVITY INFORMATION

ACTIVITY DESCRIPTION: ENGINEERING SERVICES GROUP-SEWER

Engineering Services Group provides engineering services to the remaining four (4) operational groups within the department. The Group consists of four (4) broad functional groups: Engineering/Administrative Support, Facilities Design, Urban and Suburban Plan Review, and Field Engineering. A description of each group follows:

The Engineering Administrative Support Group is headed by the Assistant Director of Engineering Services. This person acts as general manager providing overall guidance and direction to the four (4) subgroups. The Superintendent of Engineering guides execution of the day-to-day engineering/contract activities. The Engineering and Administrative Support section provides general support to the Division's other three (3) groups. Support activities include fiscal projection and management, human resources management, material resources management, organizational development and training, statistical operations reporting, project accounting and reporting, and property management.

The Facilities Design Group directs and coordinates the preparation of design reports, cost estimates, and plans and specifications, by in-house or consultant forces, and acts as a resource for construction field engineering staff efforts for projects related to Department locations and facilities excluding the Wastewater Treatment Plant and sewage pumping stations. This group services all design work related to water production, pumping, metering and storage facilities.

The Urban and Suburban Plan Review Group directs and coordinates the review plans. This group is also responsible for the maintenance of all maps and records associated with the water and sewer system.

The Field Engineering Group plans, directs, and coordinates field engineering personnel in ongoing construction management of water mains, sewers, building construction, and equipment installation contracts; provides construction inspection services to the Wastewater Design and Construction Group as necessary to support that group's efforts; insures the structural integrity of systems during new and alteration construction work; initiates change orders; and provides locations stake-out under the Miss Dig system.

GOALS:

1. To perform the related functions of these divisions by reasonably and conservatively coordinating and managing resources via each operational group.
2. To evaluate new technologies so their impacts are fully anticipated, understood, and considered prior to design
3. To identify the major engineering safety feature for new technology.
4. To insure that all engineering designs are in compliance with all federal, state and local agency requirements
5. To manage contracts within the budget and time.
6. To meet communities for development of the projects as required.

MAJOR INITIATIVES FOR FY 2010-11:

Engineering sewer operations have been transferred to the Asset Maintenance and Wastewater Treatment Plant Operations.

PLANNING FOR THE FUTURE FOR FY 2011-12, FY 2012-13 and BEYOND:

Engineering sewer operations have been transferred to the Asset Maintenance and Wastewater Treatment Plant Operations.

CITY OF DETROIT
Sewerage
Financial Detail by Appropriation and Organization

Office of Assistant Director of Engineering Engineering Services - Sewage	2010-11 Redbook		2011-12 Dept Final Request		2011-12 Mayor's Budget Rec	
	FTE	AMOUNT	FTE	AMOUNT	FTE	AMOUNT
<i>APPROPRIATION</i>						
<i>ORGANIZATION</i>						
05831 - Engineering Services - Sewage						
423010 - Office of Assistant Director of Enginee	0	\$105,690	0	\$219,209	0	\$219,209
423020 - Engineering Administrative Services	119	\$3,252,597	61	\$1,907,813	61	\$1,907,813
423030 - Field Engineering Group	0	\$99,320	0	\$118,262	0	\$118,262
423040 - Wastewater Design	0	\$32,611	0	\$11,942	0	\$11,942
423050 - Sewerage System	0	\$30,739	0	\$11,669	0	\$11,669
APPROPRIATION TOTAL	119	\$3,520,957	61	\$2,268,895	61	\$2,268,895
ACTIVITY TOTAL	119	\$3,520,957	61	\$2,268,895	61	\$2,268,895

CITY OF DETROIT
Budget Development for FY 2011-2012
Appropriations - Summary Objects

	2010-11 Redbook	2011-12 Dept Final Request	2011-12 Mayor's Budget Rec
AC2042 - Engineering Services - Sewage			
<i>A42000 - Sewerage Department</i>			
SALWAGESL - Salary & Wages	1,740,781	128,224	128,224
EMPBENESL - Employee Benef	1,172,489	1,412,539	1,412,539
OPERSUPSL - Operating Suppli	33,602	20,336	20,336
OPERSVCSL - Operating Servic	550,511	510,381	510,381
OTHEXPSSL - Other Expenses	23,574	197,415	197,415
<i>A42000 - Sewerage Department</i>	<i>3,520,957</i>	<i>2,268,895</i>	<i>2,268,895</i>
AC2042 - Engineering Services - Sewage	3,520,957	2,268,895	2,268,895
Grand Total	3,520,957	2,268,895	2,268,895

SEWERAGE (42)

WASTEWATER OPERATIONS ACTIVITY INFORMATION

ACTIVITY DESCRIPTION: WASTEWATER OPERATIONS GROUP

The Wastewater Operations Group consists of the Wastewater Treatment Plant (WWTP), Combined Sewer Overflow (CSO) Facilities, Industrial Waste Control Division (IWC) and Engineering Group. Engineering provides design, process, and construction services to the Wastewater Treatment Plant and CSO facilities. The Engineering Group consists of three (3) major sections: Wastewater Design, CSO Control, and Wastewater Construction groups.

A description of each group follows:

The Wastewater Treatment Plant includes the operations controlling the hydraulic load of wastewater, the removal and disposal of solids collected from wastewater, disinfection of the wastewater and maintenance of the facilities in a manner that assures compliance with the plant's Renewable Operating Permit (ROP) and National Pollutant Discharge Elimination System (NPDES) Permit. To maintain regulatory compliance, the plant's Operations and Maintenance staff is supported by groups that provide laboratory analysis of treatment plant and industrial waste samples, clerical support, employee training, maintenance task planning/scheduling and engineering analysis and solutions.

The CSO Facilities discharges to the Detroit and Rouge Rivers and are treated at five (5) CSO Retention Facilities providing capture, primary settling, disinfection and three (3) CSO Screening & Disinfection facilities providing screening and disinfection for both the Detroit and Rouge Rivers. WWTP staff operates and maintain these facilities.

The Industrial Waste Control Division regulates the discharge of wastewater into the sewer system from commercial, industrial and other non-domestic sources. These activities include on-site inspections of facility operations, monitoring of wastewater discharges, issuance of permits with applicable requirements and controls, and enforcement of the City of Detroit Code at Chapter 56, Article III, Division 3, and applicable federal and state laws.

The Wastewater Design Section is singularly responsible for all design related to the Wastewater Treatment Plant and provides support to Wastewater Operations and Maintenance in complying with regulatory requirements for wastewater discharge, air emission and Renewal Operation Procedures (ROP). The section also manages consultant design, prepares some in-house designs, and provides assistance to the construction group during the construction phase of the project. The group also prepares maintenance design work as needed to help the plant maintenance group. The group is involved in reviewing and assisting in preparation of yearly WWTP Need Assessments and prepares Capital Improvement Project Proposal for the inclusion into CIP.

The Wastewater Construction Section is singularly responsible for all construction of improvements and additions at the WWTP. As necessary, it solicits construction inspection services from the Field Engineering Group. The group inspects construction and alteration of the Wastewater Treatment Plant buildings and equipment for contract conformance. This group reviews drawings and procedures design documents in coordination with the Wastewater Design Group.

The **Combined Sewer Overflow (CSO) Group** directs and coordinates the preparation of design reports, cost estimates, plans and specifications by outside consultants and internal staff as related to the Detroit's Long Term CSO Control Plan as mandated by the National Pollutant Discharge Elimination System (NPDES) permit requirements. Capital improvements to the wastewater collection system facilities such as pump stations, retention basins, screening/disinfection facilities, and in-system storage facilities are evaluated, designed, constructed, and analyzed.

SEWERAGE (42)

GOALS:

Wastewater Treatment Plant

1. Produce a quality effluent in compliance with the NPDES Permit MI0022802.
2. Manage residuals processing and disposal.
3. Achieve regulatory compliance in an effective and efficient manner.
4. Manage the long-term operations, maintenance and regulatory compliance goals through the Capital Improvements Program (CIP).

MAJOR INITIATIVES FOR FY 2010-11:

- Bid, review and award one of more contracts for beneficial reuse of WWTP biosolids.
- Establish career paths with supportive training for operations and maintenance staff with an emphasis on regulatory agency (MDNRE) operator certification criteria.
- Establish a customized Preventive Maintenance program that is tailored to the value added needs of the WWTP.
- Establish fully developed needs based capital improvement program.
- Continue construction of the new Oakwood Pump Station and Basin plus associated sewers upstream.
- Study and modify the Baby Creek Screening and Disinfection facility.
- Continue with alternatives to the modified Upper Rouge Tunnel (URT).
- Study and design pilot CSO facilities for outfall (079) at Pembroke.
- Study and design green infrastructure improvements such as downspout disconnection, swales, porous pavement, etc.
- Continue modifications to the Woodmere Pumping Station.
- Continue to evaluate and purchase property that will be needed for the long term CSO control program.
- Construct Fischer Pump Station Improvements.
- Study total residual chlorine and total suspended solids at CSO facilities.

PLANNING FOR THE FUTURE FOR FY 2011-12, FY 2012-13 and BEYOND:

- Establish beneficial reuse of biosolids.
- Schedule capital improvements in consort with budgetary and treatment needs to provide effective, compliant treatment in an affordable rate environment.
- Implement capital improvement programs for all CSO facilities.
- Continue to investigate alternative and innovative treatment processes for practical application to DWSD WWTP needs.
- Upgrade the screens the Baby Creek Screening and Disinfection Facility.
- Continue to evaluate and purchase property that will be needed for the long term CSO control program.
- Construct improvements to the Fischer Pump Station.
- Install disposable nets at Adair, Joseph Campau, Helen Outfalls and divert Meldrum Sewer to Lieb facility.
- Improve outfall performance on the Lower Rouge.
- Perform structural, mechanical and electrical improvements to existing CSO control facilities.
- Construct alternatives to the Upper Rouge Tunnel such as green infrastructure, and porous pavement, etc.

GOALS:

Industrial Waste Control

1. To implement a complete regulatory control program of all non-domestic wastewater released to the Detroit Sewerage Collection System.
2. To initiate appropriate enforcement actions to remedy non-complying discharges, including administrative and legal actions.
3. To protect and preserve the local environment of the city of Detroit and southeastern Michigan.

MAJOR INITIATIVES FOR FY 2010-11:

- Re-evaluation of Wastewater Pollutant Discharge Limitations and Requirements.
- Compile documentation for NPDES Permit Re-Application.
- Maintain regulatory enforcement throughout area with budget and staffing constraints.

SEWERAGE (42)

PLANNING FOR THE FUTURE FOR FY 2011-12, FY 2012-13 and BEYOND:

- Review Regulatory Rules and Requirements and Update as needed.
- Develop Succession Planning for Regulatory Program Management.

GOALS:

Engineering

1. To perform the related functions of DWSD divisions by reasonably and conservatively coordinating and managing resources via WWTP operational group.
2. To evaluate new technologies so their impacts are fully anticipated, understood, and considered prior to design.
3. To identify the major engineering safety feature for new technology.
4. To insure that all engineering designs are in compliance with all federal, state and local agency requirements.
5. To manage contracts within the budget and time.
6. To insure that all sewage disposal and wastewater facilities are constructed in conformity with the plans and specifications, and those specifications are functional.
7. To meet communities for development of the projects as required.
8. To review and approve of new sewer improvement plans from suburban customers such as Sewage Pump Stations, and metering, etc.
9. To produce technical support to the WWTP in complying with regulatory requirements for wastewater discharge, air emissions monitoring and biosolid disposal.

MAJOR INITIATIVES FOR FY 2010-11:

- Start construction of RAS Pumps, Influent ML System and MCC Improvements at Secondary Clarifiers, Rehabilitation of Primary Circular Clarifiers 13 through 16, Complex I and II Incinerator Improvements, and Rehabilitation of the Sludge Pump Nos. 1 & 2.
- Complete design for Rehabilitation of Upper and Lower Belt Filter Presses at CI & CII, Underground duct bank, EB-1, EB-2, & EB-10 Primary Power Service Improvements, and various other design improvements such as Pipe Gallery, Aeration Deck, Pump Station No. 2 Improvements, and Primary Rectangular Clarifiers, etc.
- Continue managing design services for Rouge River Outfall No. 2, Segment 1 at the WWTP.
- Continue producing reports on MIOSHA's Process Safety Management (PSM) for Chlorination and Dechlorination Processes, Annual summary of combined Sewer Overflow (CSO) discharge and Precipitation Data Report to MDEQ.
- Continue monitoring compliance of plant operation with Renewable Operating Permit.
- Continue managing the GDRSS project for sewer meters such as CS-1410, CS-1413, and CS-1482 performing dye testing.

PLANNING FOR THE FUTURE FOR FY 2011-12, FY 2012-13 and BEYOND:

- To implement a long-term Capital Improvement Project for dewatering facilities rehabilitation /replacement.
- To initiate a long-term Capital Improvement project for Biosolid disposal alternatives and being compliance of the regulatory agency.
- To initiate and execute all the Capital Improvements projects per fiscal capita for all WWTP and CSO projects to meet the permit and regulation.
- To continue production of the maintenance design work assignments for on-going maintenance of the WWTP equipment as deem necessary.

SEWERAGE (42)

WASTEWATER OPERATIONS MEASURES AND TARGETS

Type of Performance Measure: List of Measures	2008-09 Actual	2009-10 Actual	2010-11 Projection	2011-12 Projection
Outputs: Units of Activity directed toward Goals				
Average sewage pumped per day (MGD)	727	619	650	680
Sludge produced (wet tons)	609,551	680,632	630,300	661,000
Tons of materials incinerated (wet)	374,788	523,378	507,400	532,200
Tons of materials land filled or land applied (wet)	238,615	159,939	126,100	132,200
Number of Facility Inspections	4,333	4,000	4,000	4,000
Number of Industrial Pretreatment Program Permits	308	295	300	305
Number of Special Discharge & HIW Permit	89	90	90	90
Number of Notices of Exceedence and Violations	603	360	400	400
Number of Conferences and Administrative hearings	50	51	40	40
Number of Civil Actions Initiated	1	0	0	0
Value of Penalties/Fees Assessed	336,873	50,000	50,000	50,000
Number of Samples Collected	10,401	10,500	10,000	9,500
Activity Costs	\$211,907,060	\$207,526,501	\$141,035,566	\$147,746,422

CITY OF DETROIT
Sewerage
Financial Detail by Appropriation and Organization

Office of Assistant Director of Wastewater Wastewater Plant Operations	2010-11 Redbook		2011-12 Dept Final Request		2011-12 Mayor's Budget Rec	
	FTE	AMOUNT	FTE	AMOUNT	FTE	AMOUNT
<i>APPROPRIATION ORGANIZATION</i>						
00162 - Wastewater Plant Operations						
425010 - Office of Assistant Director of Wastew	6	\$3,638,645	7	\$3,224,581	7	\$3,218,992
425020 - Plant Administration	759	\$55,708,640	861	\$57,286,946	797	\$56,476,729
425030 - Analytical Laboratory	0	\$1,182,780	0	\$1,224,901	0	\$1,224,901
425040 - Control System Engineering	0	\$67,000	0	\$106,913	0	\$106,913
425060 - Document Control	0	\$38,619	0	\$38,892	0	\$38,892
425070 - Treatment Plant Maintenance	0	\$11,010,700	0	\$14,242,366	0	\$14,242,366
425080 - Operations Laboratory	0	\$184,000	0	\$180,044	0	\$180,044
425090 - Operating Technical Group	0	\$2,000	0	\$1,840	0	\$1,840
425100 - Process Engineering	0	\$3,010,394	0	\$2,623,042	0	\$2,623,042
425110 - Training	0	\$37,870	0	\$0	0	\$0
425120 - Treatment Operations	0	\$53,639,061	0	\$54,372,313	0	\$54,372,313
425130 - Industrial Waste Control Administratio	0	\$699,700	0	\$513,912	0	\$513,912
425140 - I. W. C. Field Monitoring	112	\$5,880,339	112	\$5,324,600	104	\$6,171,510
425150 - I. W. C. Program Operations	0	\$798,500	0	\$674,702	0	\$674,702
425395 - Puritan / Fenkell	29	\$2,704,956	43	\$2,999,629	43	\$2,968,525
425400 - 7 Mile	0	\$150,050	0	\$140,849	0	\$140,849
425410 - Hubble / Southfield	0	\$573,200	0	\$518,212	0	\$518,212
425420 - Leib - CSO	0	\$170,755	0	\$159,796	0	\$159,796
425425 - St. Aubin - CSO	0	\$102,937	0	\$98,655	0	\$98,655
425430 - Inspection & Permits	0	\$101,000	0	\$93,913	0	\$93,913
425440 - Enforcement, Field Investigation & Mc	0	\$30,000	0	\$27,589	0	\$27,589
425450 - Revenue Program & Pollution Prevent	0	\$15,000	0	\$16,641	0	\$16,641
425465 - Connor Creek CSO Basin	0	\$693,920	0	\$678,380	0	\$678,380
425470 - Baby Creek CSO Basin	0	\$514,000	0	\$491,659	0	\$491,659
425475 - Oakwood CSO Basin	0	\$5,000	0	\$203,986	0	\$203,986
425480 - Belle Isle CSO Basin	0	\$76,500	0	\$92,492	0	\$92,492
425485 - Green Infrastructure	0	\$0	0	\$2,409,569	0	\$2,409,569
APPROPRIATION TOTAL	906	\$141,035,566	1023	\$147,746,422	951	\$147,746,422
ACTIVITY TOTAL	906	\$141,035,566	1023	\$147,746,422	951	\$147,746,422

CITY OF DETROIT
Budget Development for FY 2011-2012
Appropriations - Summary Objects

	2010-11 Redbook	2011-12 Dept Final Request	2011-12 Mayor's Budget Rec
AC2542 - Sewer Operations			
<i>A42000 - Sewerage Department</i>			
SALWAGESL - Salary & Wages	37,494,448	35,918,600	35,918,600
EMPBENESL - Employee Benef	23,053,661	26,761,562	26,761,562
PROFSVCSL - Professional/Cor	23,106,795	32,765,810	32,765,810
OPERSUPSL - Operating Suppli	18,475,837	19,137,635	19,137,635
OPERSVCSL - Operating Servic	38,577,825	32,858,417	32,858,417
OTHEXPSSL - Other Expenses	327,000	304,398	304,398
<i>A42000 - Sewerage Department</i>	<i>141,035,566</i>	<i>147,746,422</i>	<i>147,746,422</i>
AC2542 - Sewer Operations	141,035,566	147,746,422	147,746,422
Grand Total	141,035,566	147,746,422	147,746,422

SEWERAGE (42)

SEWERAGE - CAPITAL ACTIVITY INFORMATION

ACTIVITY DESCRIPTION: SEWERAGE - CAPITAL PROGRAM

The capital program for the Sewage Disposal System is a five-year plan devoted to replacing, rehabilitating, or improving existing process facilities at the Wastewater Treatment Plant; construction or installation of new facilities at the Wastewater Treatment Plant; rehabilitating sewage pumping stations and major sewers; construction of combined sewer overflow (CSO) basins, tunnel and other CSO control measures throughout the combined sewer system; sewer meter replacement; replacing or relining deteriorated lateral sewers in the City of Detroit; installing new sewers or re-routing existing sewers to accommodate new development throughout the City of Detroit; automating the meter reading function; and upgrading the instrumentation and process control equipment for the Wastewater Treatment Plant and the sewage collection system.

GOALS:

To provide essential, efficient and user-friendly services by:

1. Continue to improve, expand, and rehabilitate the Wastewater Treatment Plant to provide a cost-effective and energy efficient sewage treatment facility that meets all water and air quality standards.
2. Continue to construct combined sewer overflow facilities, rehabilitate and improve sewage pumping stations and implement other measures for the containment of combined sewer overflow, thereby reducing the frequency and magnitude of combined sewer overflows to the Detroit and Rouge rivers.
3. Continue to construct those interceptors and control facilities needed to adequately service all customers, and replacing and rehabilitating measuring devices and meter pits to more accurately measure and bill for wastewater treatment service provided.
4. Continue to replace those lateral sewers in the city of Detroit which are deteriorated or are of insufficient capacity to service customers.
5. Continue to computerize various wastewater functions to reduce costs and improve operations.

SEWERAGE (42)

SEWERAGE - CAPITAL MEASURES AND TARGETS

Type of Performance Measure: List of Measures	2008-09 Actual	2009-10 Actual	2010-11 Projection	2011-12 Target
WWTP – Primary Treatment (6 projects)	5 \$0	4 \$0	3 \$2,028,000	4 \$10,439,000
WWTP – Secondary Treatment (5 projects)	5 \$548,219	4 \$126,000	4 \$3,580,000	4 \$9,240,000
WWTP – Solids Handling (3 projects)	3 \$410,882	6 \$376,328	6 \$8,750,000	8 \$23,685,000
WWTP – Disinfection (2 projects)	2 \$15,131,244	3 \$8,301,494	2 \$1,300,000	2 \$1,020,000
WWTP – General Purpose (32 projects)	29 \$16,709,811	31 \$16,357,675	28 \$17,683,000	25 \$22,869,000
Facility – Sewer Interceptor System (3 projects)	3 \$0	2 \$0	2 \$178,000	3 \$3,530,000
Facility – Combined Sewer System (26 projects)	27 \$101,896,123	21 \$62,528,507	18 \$59,453,000	11 \$27,088,000
Facility – Lateral Sewer Replacement (10 projects)	7 \$35,130,322	9 \$20,134,690	8 \$47,376,000	6 \$38,318,000
Facility – Planning and Administration (15 projects)	9 \$16,945,339	7 \$14,713,737	5 \$6,700,000	3 \$2,415,000
Total Number of Projects	90	87	76	66
Total Value of Projects	\$380,399,015	\$329,273,600	\$285,602,100	\$292,123,800

CITY OF DETROIT
Sewerage
Financial Detail by Appropriation and Organization

Bond Principle & Interest Redemption Fur Interest and Bond Redemption	2010-11 Redbook		2011-12 Dept Final Request		2011-12 Mayor's Budget Rec	
	FTE	AMOUNT	FTE	AMOUNT	FTE	AMOUNT
<i>APPROPRIATION ORGANIZATION</i>						
00168 - Interest and Bond Redemption						
427010 - Bond Principle & Interest Redemption	0	\$207,966,300	0	\$210,879,500	0	\$210,879,500
APPROPRIATION TOTAL	0	\$207,966,300	0	\$210,879,500	0	\$210,879,500
00169 - Sewerage System Improvements						
427030 - Sewerage System Improvements	0	\$25,995,800	0	\$64,242,000	0	\$64,242,000
APPROPRIATION TOTAL	0	\$25,995,800	0	\$64,242,000	0	\$64,242,000
00443 - Extraordinary Repairs and Replacement						
427040 - Extraordinary Repair & Replacement	0	\$0	0	\$1,763,300	0	\$1,763,300
APPROPRIATION TOTAL	0	\$0	0	\$1,763,300	0	\$1,763,300
05735 - Sewerage Reserve Deposit						
427025 - Sewerage Reserve Deposit	0	\$5,000,000	0	\$0	0	\$0
APPROPRIATION TOTAL	0	\$5,000,000	0	\$0	0	\$0
12139 - Sewerage Bond Fund Series 2007						
427227 - Sewerage Bond Fund Series 2007	0	\$46,640,000	0	\$15,239,000	0	\$15,239,000
APPROPRIATION TOTAL	0	\$46,640,000	0	\$15,239,000	0	\$15,239,000
ACTIVITY TOTAL	0	\$285,602,100	0	\$292,123,800	0	\$292,123,800

CITY OF DETROIT
Budget Development for FY 2011-2012
Appropriations - Summary Objects

	2010-11 Redbook	2011-12 Dept Final Request	2011-12 Mayor's Budget Rec
AC3042 - Sewerage - Capital and Debt Service			
<i>A42000 - Sewerage Department</i>			
CAPEQUPSL - Capital Equipme	8,500,000	8,500,000	8,500,000
OTHEXPSSL - Other Expenses	69,135,800	72,744,300	72,744,300
FIXEDCHGSL - Fixed Charges	207,966,300	210,879,500	210,879,500
<i>A42000 - Sewerage Department</i>	<i>285,602,100</i>	<i>292,123,800</i>	<i>292,123,800</i>
AC3042 - Sewerage - Capital and Debt Ser	285,602,100	292,123,800	292,123,800
Grand Total	285,602,100	292,123,800	292,123,800

SEWERAGE (42)

INFORMATION TECHNOLOGY AND SYSTEMS INTEGRATION AND OPERATION ACTIVITY INFORMATION

ACTIVITY DESCRIPTION: INFORMATION TECHNOLOGY AND SYSTEMS INTEGRATION AND OPERATION

The Information Technology and Systems Integration and Operation Group consists of three (3) divisions and two (2) sections, which bring together many systems critical to DWSD to form a network of electronic and digital data systems that support the overall operation of the Department and reduce energy cost, especially the distribution of potable water and the collection of sewage for treatment. The divisions reporting to the Information Technology and Systems Integration and Operation Group include the following:

Process Networks and SCADA Systems (PN&SS) supports various operations within the Department and provides Supervisory Control and Data Acquisition network and hardware oversight and maintenance for the water distribution system and wastewater collection system to assure the efficient operation of the DWSD Systems Control Center (SCC). PN&SS coordinates implementing enhancements to be made to the control and monitoring operation of SCC, Water Treatment Plants, Wastewater Treatment Plant, and the distribution and collection systems. PN&SS provides Security with network communications support via Opt-E-MAN for the wide-area network and internal switching for the local area network.

Geographic Information Systems (GIS) provides all DWSD stakeholders with electronic access to engineering drawings, maps, records, tables, aerial photography, and other geographically referenced information through an intranet based interface. A powerful desktop GIS tool (DWSD Spatial Data Management System) allows privileged users to create, update and query data.

Security Networks supports a robust network which the Security Division uses to provide all DWSD employees, contractors and visitors with electronic access to DWSD facilities. The functional security network contains badge access and security cameras to provide a safe and secure environment for all DWSD employees, contractors and visitors.

Information Systems manages, maintains and services; servers, computers, networks (LAN/WAN), telephones and application software used in the business network for the Department. It also supports systems such as EMPAC and CBMS. Information Systems also provides services and support for radio systems, both voice and data, including monitoring of the radio reporting activity for the billing system.

Systems Control Center is directly responsible for pumping treated water to 126 communities and providing wastewater collection services to 78 communities. It remotely operates 22 water pumping stations for the water distribution system and 12 sewage pumping stations for the wastewater collection system from the new Systems Control Center (SCC). SCC has the flexibility to meet changing water demands, to adapt to variations of wastewater flow and to generate valuable data of conditions occurring throughout the system. The SCC operates within guidelines of State of Michigan Regulatory Agencies.

GOALS:

1. Minimize process downtime due to systems failure and ensure collection of regulatory required data.
2. Develop and implement sound control systems administrative practices.
3. Ensure that new process control systems follow DWSD control and regulatory standards.
4. Ensure that data incorporated into the GIS is accurate, current, complete and compatible.
5. Create custom maps and tables graphics driven by customer requests.
6. Be the driving force behind making GIS the map and records drawings repository.
7. Improve the quality of Information Systems services delivered to DWSD personnel.
8. Reduce the "unit cost" of delivering services.
9. Improve communications with the department generally.
10. Provide the customers with adequate pressures and flows of treated water.
11. Operate the wastewater collection system to maximize treatment and minimize combined sewer overflows.
12. Develop calibration procedures for process controls instruments.
13. Enhance the email system in the department.

SEWERAGE (42)

MAJOR INITIATIVES FOR FY 2010-11:

- Upgrade business network storage equipment at WWTP and GIS.
- Establish evergreening program for process control equipment.
- Train staff as needed.
- Recruit and hire additional staff.
- Right size the ITSIO Group.
- Maintain budgets.
- Provide knowledge transfer.
- At expiration lease ship Sun Ray hardware back to Tip Capital.
- Sewage billing to use SCADA data in place of Telog.
- Review and enhance performance measures.
- Develop a web-base application for sewerage data for customer use.
- Install blade servers on IT network.
- Develop and put in use Sharepoint Dashboard.

PLANNING FOR THE FUTURE FOR FY 2011-12, FY 2012-13 and BEYOND:

- Upgrade business network storage equipment at WWTP and GIS.
- Establish evergreening program for process control and business network equipment.
- Train staff as needed.
- Provide knowledge transfer.
- Update the process control network equipment as needed.
- Optimize the use of the SCADA system and data.
- Upgrade and optimize the performance of the business network-install a new firewall.
- Initiate the consolidated critical systems project.
- RFP for Data Center improvements.
- RFP for Security Network improvements.
- RFP for Radio Network upgrades.
- Place GIS into production for departmental use.

SEWERAGE (42)

INFORMATION TECHNOLOGY AND SYSTEMS INTEGRATION AND OPERATION MEASURES AND TARGETS

Type of Performance Measure:	2008-09	2009-10	2010-2011	2011-12
List of Measures	Actual	Actual	Projection	Target
Outputs: Units of Activity directed toward Goals				
Average Time to Resolve Help Desk Tickets	15	10	10	7
Activity Costs	\$14,480,560	\$10,387,356	\$11,162,570	\$12,997,965

CITY OF DETROIT
Sewerage
Financial Detail by Appropriation and Organization

Asst Dir - Info Tech & Sys Integration & O Info Tech & Systems Integration & Orga	2010-11 Redbook		2011-12 Dept Final Request		2011-12 Mayor's Budget Rec	
	FTE	AMOUNT	FTE	AMOUNT	FTE	AMOUNT
<i>APPROPRIATION ORGANIZATION</i>						
12449 - Info Tech & Systems Integration & Organiz						
421011 - Asst Dir - Info Tech & Sys Integration	0	\$370,586	0	\$347,544	0	\$347,544
421014 - Geographic Information Systems (GIS	0	\$433,797	0	\$387,760	0	\$387,760
421016 - Process Networks and SCADA System	0	\$1,131,701	0	\$1,987,235	0	\$1,987,235
421018 - Radio/SCADA Infrastructure Support	0	\$143,000	0	\$371,264	0	\$371,264
421115 - Information Systems Administrative S	0	\$3,248,231	0	\$3,052,618	0	\$3,052,618
421125 - Applications Support	0	\$160,000	0	\$118,663	0	\$118,663
421135 - Software Support	0	\$194,500	0	\$251,019	0	\$251,019
421145 - Hardware Support	0	\$537,500	0	\$786,482	0	\$786,482
421155 - Strategic Planning	0	\$30,000	0	\$27,384	0	\$27,384
421165 - Network Support	0	\$215,910	0	\$919,783	0	\$919,783
421285 - Systems Operations Control	0	\$2,614,176	0	\$2,860,744	0	\$2,860,744
421305 - Operational Services	0	\$55,993	0	\$44,301	0	\$44,301
421311 - Pumping Station - Belle Isle	0	\$105,000	0	\$73,518	0	\$73,518
421316 - Pumping Station - Blue Hill	0	\$102,513	0	\$92,304	0	\$92,304
421321 - Pumping Station - Brennan Pools	0	\$4,843	0	\$4,512	0	\$4,512
421336 - Pumping Station - Conner	0	\$599,667	0	\$558,781	0	\$558,781
421341 - Pumping Station - Fairview	0	\$465,000	0	\$433,297	0	\$433,297
421346 - Pumping Station - Fisher	0	\$5,207	0	\$4,870	0	\$4,870
421351 - Pumping Station - Fox Creek	0	\$6,815	0	\$6,434	0	\$6,434
421356 - Pumping Station - Freud	0	\$184,080	0	\$153,056	0	\$153,056
421366 - Pumping Station - Northeast	0	\$190,914	0	\$177,898	0	\$177,898
421371 - Pumping Station - Oakwood	0	\$91,562	0	\$85,319	0	\$85,319
421381 - Pumping Station - Woodmere	0	\$271,575	0	\$253,179	0	\$253,179
APPROPRIATION TOTAL	0	\$11,162,570	0	\$12,997,965	0	\$12,997,965
ACTIVITY TOTAL	0	\$11,162,570	0	\$12,997,965	0	\$12,997,965

CITY OF DETROIT
Budget Development for FY 2011-2012
Appropriations - Summary Objects

	2010-11 Redbook	2011-12 Dept Final Request	2011-12 Mayor's Budget Rec
AC3542 - IT & Systems Integration - Sewer			
<i>A42000 - Sewerage Department</i>			
SALWAGESL - Salary & Wages	2,532,456	2,560,695	2,560,695
EMPBENESL - Employee Benef	1,874,080	2,075,350	2,075,350
OPERSVCSL - Operating Servic	2,026,442	1,842,493	1,842,493
OTHEXPSSL - Other Expenses	4,729,592	6,519,427	6,519,427
<i>A42000 - Sewerage Department</i>	<i>11,162,570</i>	<i>12,997,965</i>	<i>12,997,965</i>
AC3542 - IT & Systems Integration - Sewe	11,162,570	12,997,965	12,997,965
Grand Total	11,162,570	12,997,965	12,997,965

SEWERAGE (42)

PUBLIC AFFAIRS ACTIVITY INFORMATION

ACTIVITY DESCRIPTION: PUBLIC AFFAIRS GROUP

The role of the Public Affairs Group is to support the mission and goals of the department. The Public Affairs Group is responsible for carrying out the policies of the Board of Water Commissioners and the business management of the department. This group consists of three (3) major divisions: Public Affairs, Commercial Operations and Meter Operations.

The Public Affairs Division is responsible for developing and implementing strategic communication initiatives that raise awareness of important DWSD activities and programs, and provide for two-way communication on issues important to department stakeholders. This includes compiling and disseminating public information and materials relative to the department's activities through audiovisual, customer, community and media relations, and marketing to better provide retail and wholesale customers, and all state and national stakeholders accurate and up to date information regarding the Water and Sewerage Department. Public Affairs provides complete audiovisual services for DWSD and produces videotaped public service announcements for multimedia broadcast. Public Affairs assists with the dissemination of information and feedback from employees on DWSD plans, programs, and initiatives and promotes a more open and cooperative work environment for all DWSD employees. Public Affairs manages the department's wholesale water and sewerage customer community outreach program.

The Commercial Operations Division is responsible for directing, coordinating, processing, and monitoring DWSD retail and suburban wholesale customer billing and collection activities, collection related to delinquent accounts, processing landlord/tenant agreements, bankruptcy claims and other customer service tasks including meter reads, special payment arrangements, coordinating services with other City agencies, schedule customer billing dispute hearings, and other related activities.

The Meter Operations Division focuses on the meter maintenance function of the department with an emphasis on meter repair, calibration or replacement for water and wastewater clients (wholesale suburban, residential retail and commercial/industrial). This division also provides much needed instrumentation and controls maintenance support related to the operation of the water production/distribution and wastewater collection systems.

GOALS:

1. To provide an adequate level of trained personnel to operate the water systems.
2. To implement a comprehensive agency-wide reference source.
3. To ensure widespread internal knowledge of key messages and to develop a well informed employee base.
4. To educate and inform both retail and wholesale customers and the community about important DWSD projects, initiatives, and water issues.
5. Commercial Operations will continue employee training and activities for implementation of all applications of the Customer Billing and Management System to ensure improved customer service, revenue billing and collection efforts. This will reduce service time for Customer Service Representatives and improve service delivery to customers. The introduction of a new bill format will provide a software solution to reduce mailing costs (CASS Mailing Certification Software). The deployment of new ITRON MVRS meter reading software will allow the department to verify occupancy for the properties whose meters were not changed out under the CM-2007 Automated Meter Reading program due to lack of access.
6. The Meter Operations Division goals are to increase residential, commercial/industrial and suburban water and wastewater meter reading accuracy. Improve the billing and revenue collection stream, by eliminating meter outages through preventative maintenance schedules, and calibrating and maintaining all the meters installed in the system.
7. To increase self-service delivery options to the retail customer base.

SEWERAGE (42)

MAJOR INITIATIVES FOR FY 2010-11:

- As part of the upgrade to the Customer Billing and System Management (CBMS) implement online bill payment, service requests, and retail budget plan requests.
- Achieved substantial completion on the city wide Automated Meter Reading change out program under Contract CM-2007 with administrative closeout by the end of the fiscal year. DWSD will continue meter change-out to automated meter reading (AMR).
- Implement enhanced Detroit Residential Water Assistance Program Business Processes.
- Begin payment acceptance of debit/credit cards at customer service center locations.
- Implement new water bill design.
- Implement CASS Mailing Certification Software.
- Implement CHECK 21 Services.
- Implement New ITRON Meter Reading Software.
- Develop information program to raise awareness of new customer service benefits in order to increase customer satisfaction and reduce demands on customer service representatives and centers.
- Develop additional means to raise awareness of DWSD assistance programs.
- Continue to build the library of online resources available to wholesale and retail customers to enhance communication and reduce demands on staff resources. Develop special section for “green technologies.”
- Work with DWSD leadership to educate newly-elected officials about DWSD, its roles and responsibilities, and issues facing water and sewer utilities locally and at the national level.
- Prepare strategic communication initiatives to proactively address issues arising from a new state administration.

PLANNING FOR THE FUTURE FOR FY 2011-12, FY 2012-13 and BEYOND:

- Develop e-newsletter to go to Detroit customers who have signed up for online services.
- Explore technologies to utilize online survey tools to identify customer information needs and develop programs to address those needs in order to meet customer demands and reduce customer service resources required.
- With growing use of social media to inform targeted stakeholder groups, explore the appropriateness of incorporating social media tools to communicate important customer service information – including during localized or regional emergencies.
- Analyze technologies that can be employed to encourage more routine two-way communication between DWSD and its wholesale customer communities.
- Amplify DWSD’s community relations/speakers bureau program through personnel training and issue-specific materials development and distribution.
- Using new billing and online technological capabilities, monitor and track customer service inquiries and question. Also, develop communication tools and materials to address questions which will reduce demands on customer service resources.
- Go-Live with an enhanced “Interactive Voice Response” Unit (IVR).
- Begin implementation of Storm Water Drainage Management Module with billing to commence in 1st quarter 2012.
- Begin migration of customer name on accounts in place of resident.
- Implement an enhanced Debt Collection Solution.

SEWERAGE (42)

PUBLIC AFFAIRS MEASURES AND TARGETS

Type of Performance Measure:	2008-09	2009-10	2010-11	2011-12
List of Measures	Actual	Actual	Projection	Target
Outputs: Units of Activity directed toward Goals				
Wholesale meter maintenance (system total – 55)	55	55	55	55
Activity Costs	\$0	\$7,225,375	\$12,092,160	\$11,480,756

CITY OF DETROIT
Sewerage
Financial Detail by Appropriation and Organization

Office of the Assistant Director -Public Af Public Affairs Group - Sewerage	2010-11 Redbook		2011-12 Dept Final Request		2011-12 Mayor's Budget Rec	
	FTE	AMOUNT	FTE	AMOUNT	FTE	AMOUNT
<i>APPROPRIATION</i>						
<i>ORGANIZATION</i>						
12759 - Public Affairs Group - Sewerage						
421021 - Office of the Assistant Director -Public	0	\$1,312,299	0	\$808,687	0	\$808,687
421221 - Commercial Operations	0	\$6,006,859	0	\$5,696,988	0	\$5,696,988
421226 - Customer Billing	0	\$1,281,578	0	\$993,701	0	\$993,701
421231 - Customer Service - Detroit	0	\$45,033	0	\$40,914	0	\$40,914
421236 - Collections	0	\$213,056	0	\$341,629	0	\$341,629
421241 - Addressograph	0	\$1,047,389	0	\$960,542	0	\$960,542
421246 - Meter Reading	0	\$28,334	0	\$25,245	0	\$25,245
421251 - Meter Operations	0	\$1,698,881	0	\$1,844,534	0	\$1,844,534
421256 - Meter Records	0	\$15,825	0	\$9,807	0	\$9,807
421261 - Meter Shop	0	\$121,192	0	\$148,196	0	\$148,196
421266 - Meter Instrumentation Shop	0	\$321,714	0	\$610,513	0	\$610,513
APPROPRIATION TOTAL	0	\$12,092,160	0	\$11,480,756	0	\$11,480,756
ACTIVITY TOTAL	0	\$12,092,160	0	\$11,480,756	0	\$11,480,756

CITY OF DETROIT
Budget Development for FY 2011-2012
Appropriations - Summary Objects

	2010-11 Redbook	2011-12 Dept Final Request	2011-12 Mayor's Budget Rec
AC4042 - Public Affairs Group - Sewerage			
<i>A42000 - Sewerage Department</i>			
SALWAGESL - Salary & Wages	4,686,861	4,500,152	4,500,152
EMPBENESL - Employee Benef	3,486,748	3,695,364	3,695,364
OTHEXPSSL - Other Expenses	3,918,551	3,285,240	3,285,240
<i>A42000 - Sewerage Department</i>	<i>12,092,160</i>	<i>11,480,756</i>	<i>11,480,756</i>
AC4042 - Public Affairs Group - Sewerage	12,092,160	11,480,756	11,480,756
Grand Total	12,092,160	11,480,756	11,480,756

SEWERAGE (42)

PROCESS AND QUALITY CONTROL ACTIVITY INFORMATION

The **Process and Quality Control Division** is responsible for quality control throughout the Water and Sewerage Department. The review and recommendations for the department's Key Performance Indicators and the online performance monitoring tool (PaDs) are housed in this division. The Division is also responsible for the processes and quality control in other areas throughout the department as evidenced by the sections listed below that have critical involvement throughout the department: Document Management Section, Environmental and Regulatory Affairs Section, Safety Section and Training and Education Section. In addition, this Division functions as the liaison between the department and the Human Resources Staff at DWSD.

The **Document Management Section** is responsible for disseminating documents in a timely and efficient manner for DWSD internal customers. The Division is also responsible for a comprehensive Department wide program for Records Management, which includes, but is not limited to: records appraisal, retention and disposition, records protection, records and information management technology. The Document Management Division is responsible for the DWSD Service Improvement Program and serves as liaison between DWSD and City Council, Ombudsman, and the Mayor's Office for inquiries and complaints.

The **Environmental and Regulatory Affairs Section** provides critical assistance to internal customers in handling state and federal regulatory compliance and environmental issues. This Division maintains DWSD Water and Wastewater Service Contracts and Agreements; distributes various regulatory compliance documents relative to EPA, MDNRE, and other electronic legislative information; coordinates and participates in environmental activities with federal, state, and local organizations/universities to build general public awareness; prepares and coordinates the following regulatory reports: the Emergency/Non-Emergency Environmental Response including waste clean-up, hazardous waste removal and disposal, PCB equipment management including transformers and Mercury Minimization Program; management of the Underground and Aboveground Storage Tank (UST/AST) Programs and waste Manifest tracking; SARA Title III Tier Two emergency and Hazardous Chemical Reporting Requirements; Michigan Air Emission Reporting Systems (MAERS); Risk Management Plan (RMP); Process Safety Management (PSM); Spill Prevention Control and Countermeasure Plan (SPCC); Pollution Incident Prevention Plan (PIP); Respiratory Protection Plan (RMP); NPDES Permit Requirements for annual Collection System and CSO Treatment Facilities. The Division also provides information on the Safe Drinking Water Act and Clean Air Act and is the steering committee member of the DWSD health and safety contract; coordinates, monitors, prepares, and distributes the monthly DWSD Status report that updates all activities to be completed per the Second Amended Consent Judgment mandate.

The **Safety Section** plans and develops Department wide safety programs and training for employees; investigates safety problems and issues; enforces Michigan Occupational Safety & Health Administration (MIOSHA) safety standards; facilitates medical bills received from City of Detroit approved Clinics for job injuries; routinely inspects, identifies, and informs the various facilities within DWSD of safety hazards along with instructions for corrective action; and is the Department's central contact for MIOSHA. The Safety Section is also responsible for providing formal and informal training sessions.

The **Training and Education Section** plans, develops and delivers training courses and schedules for Department wide training of employees. Employees in the department are required to have a series of Safety and Occupational Health classes as required by MIOSHA. This section is responsible for delivering the training, documenting the training and maintaining the training records as also required by MIOSHA.

SEWERAGE (42)

GOALS:

1. To provide the services of the Safety Section and the Training Section to the entire department.
2. To provide the required Safety and Occupational Health classes and updates to all DWSD employees as outlined in the regulatory agencies schedule.
3. To increase the number of regular training staff and the number of employees involved in the training program.
4. To inspect each DWSD facility on a routine basis twice a year or once each year for remote locations.
5. To develop and install a document management system which will help DWSD with succession planning efforts.
6. To use performance measures to continually improve effectiveness.
7. To assist the department in achieving an exemplary level of compliance with all regulatory agencies.
8. To create a Safety conscious workforce.
9. To establish a Safety Recognition program in the department.
10. To establish a succession program within our training initiatives.

MAJOR INITIATIVES FOR FY 2010-11:

- Our major initiative involves most of the sections within the Division. We are working on the development and implementation of a comprehensive online database that will house the training documentation for each employee as required by MIOSHA and other licensing agencies. The system will also capture Safety and EPA inspection, payment and compliance schedules. This system will provide DWSD with a tool, accessible to a broad user group enabling access at multiple locations. This tool will provide the solution to regulatory agency requests for training documentation, no matter the DWSD location.
- On a similar note, we are working on a document management system that will address the archiving, retrieval and disposal of documents in accordance with regulatory guidelines.
- Identify and establish a base of employees knowledgeable in technical areas and proficient in training techniques to supplement the DWSD training program staff. These employees would be provided scheduled training with minimal disruption to their regularly assigned duties and responsibilities.
- Review and consolidate processes and procedures for consistency throughout the department.

PLANNING FOR THE FUTURE FOR FY 2011-12, FY 2012-13 and BEYOND:

- Develop an overall succession plan strategy for the entire department that is intimately linked with the Training and Education Section.
- Increase the number of Safety Officers to ensure compliance and training in each critical Safety area.
- Capture and document the standard operating procedures throughout the department as a part of the succession plan strategy.
- Update and standardize the DWSD rules, processes and procedures.

CITY OF DETROIT
Sewerage
Financial Detail by Appropriation and Organization

Document Management	2010-11		2011-12		2011-12	
	Redbook		Dept Final		Mayor's	
Process and Quality Control Group	FTE	AMOUNT	FTE	AMOUNT	FTE	AMOUNT
Request					Budget Rec	
<i>APPROPRIATION</i>						
<i>ORGANIZATION</i>						
13315 - Process and Quality Control Group						
421031 - Document Management	0	\$0	5	\$127,789	5	\$122,296
421066 - Training	0	\$0	6	\$171,131	6	\$167,050
421071 - Safety	0	\$0	7	\$182,988	8	\$178,454
421091 - Environmental and Regulatory Affairs	0	\$0	10	\$815,110	10	\$829,218
APPROPRIATION TOTAL	0	\$0	28	\$1,297,018	29	\$1,297,018
ACTIVITY TOTAL	0	\$0	28	\$1,297,018	29	\$1,297,018

CITY OF DETROIT
Budget Development for FY 2011-2012
Appropriations - Summary Objects

	2010-11 Redbook	2011-12 Dept Final Request	2011-12 Mayor's Budget Rec
AC4542 - Process and Quality Control Service			
<i>A42000 - Sewerage Department</i>			
SALWAGESL - Salary & Wages	0	451,068	451,068
EMPBENESL - Employee Benef	0	337,376	337,376
PROFSVCSL - Professional/Cor	0	803,188	803,188
OPERSUPSL - Operating Suppli	0	110,060	110,060
OPERSVCSL - Operating Servic	0	103,903	103,903
OTHEXPSSL - Other Expenses	0	(508,577)	(508,577)
<i>A42000 - Sewerage Department</i>	0	1,297,018	1,297,018
AC4542 - Process and Quality Control Ser	0	1,297,018	1,297,018
Grand Total	0	1,297,018	1,297,018

CITY OF DETROIT
Budget Development for FY 2011-2012
Appropriation Summary - Revenues

	2009-10 Actuals	2010-11 Redbook	2011-12 Dept Final Request	2011-12 Mayor's Budget Rec	Variance
A42000 - Sewerage Department					
<i>00089 - Administration</i>					
522125 - Swap Termination Fee	103,247	0	0	0	0
<i>00089 - Administration</i>	<i>103,247</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>00759 - Sewage Bond Reserve</i>					
461100 - Earnings On Investmer	1,439,672	0	0	0	0
461101 - Unrealized Gain	10,833	0	0	0	0
<i>00759 - Sewage Bond Reserve</i>	<i>1,450,505</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>00838 - State Revenue Sharing - State Revolv F</i>					
461100 - Earnings On Investmer	846,894	820,200	4,908,000	4,908,000	4,087,800
461101 - Unrealized Gain	106,660	0	0	0	0
471905 - Contributed Revenue	6,610,573	0	0	0	0
522110 - Project Borrowings	0	46,640,000	15,239,000	15,239,000	(31,401,000)
<i>00838 - State Revenue Sharing - Stat</i>	<i>7,564,127</i>	<i>47,460,200</i>	<i>20,147,000</i>	<i>20,147,000</i>	<i>(27,313,200)</i>
<i>04828 - Revenue - Sewerage Receiving</i>					
413155 - Sewer Tap Fees	27,825	0	0	0	0
441100 - Other Labors and Mate	334,142	100,000	100,000	100,000	0
447236 - City of Detroit IWC Cha	4,240,688	0	0	0	0
447237 - Highway Drainage	1,336,630	0	0	0	0
447240 - Industrial Waste Surch	14,128,981	0	0	0	0
447246 - IWC Penalties - Detroit	8,250	0	0	0	0
447247 - IWC Penalties - Suburt	52,058	0	0	0	0
447250 - Sewage Treatment Sal	170,135,663	210,633,300	233,112,800	233,112,800	22,479,500
447255 - Sewage Treatment - W	173,356,304	228,869,500	247,466,600	247,466,600	18,597,100
447260 - Pollutant Surcharges	3,478,007	2,771,700	3,609,900	3,609,900	838,200
447285 - Sewage Disposal -Dep	532,109	0	0	0	0
447287 - Septic Tank Disposal	150,313	0	0	0	0
447300 - Other Utility Revenue	9,009,737	0	0	0	0
448115 - Other Fees	934,992	4,900,000	4,900,000	4,900,000	0
461100 - Earnings On Investmer	57,266	75,000	75,000	75,000	0
462241 - Rent of Building and S	23,150	0	0	0	0
472100 - Other Forfeits And Pen	100	0	0	0	0
472117 - Late Payment Fee	3,910,535	0	0	0	0
472150 - Other Miscellaneous	136	0	0	0	0
472220 - Ng Check Service Cha	2	0	0	0	0
474100 - Miscellaneous Receipts	0	2,541,072	(48,051)	(48,051)	(2,589,123)
<i>04828 - Revenue - Sewerage Receivi</i>	<i>381,716,888</i>	<i>449,890,572</i>	<i>489,216,249</i>	<i>489,216,249</i>	<i>39,325,677</i>
<i>04829 - Revenue - Sewerage Operation - Mainte</i>					
461100 - Earnings On Investmer	139,074	1,921,600	1,839,100	1,839,100	(82,500)
461101 - Unrealized Gain	47,000	0	0	0	0

CITY OF DETROIT
Budget Development for FY 2011-2012
Appropriation Summary - Revenues

	2009-10 Actuals	2010-11 Redbook	2011-12 Dept Final Request	2011-12 Mayor's Budget Rec	Variance
A42000 - Sewerage Department					
<i>04829 - Revenue - Sewerage Operation - Mainte</i>					
472150 - Other Miscellaneous	775	0	0	0	0
<i>04829 - Revenue - Sewerage Operati</i>	<i>186,849</i>	<i>1,921,600</i>	<i>1,839,100</i>	<i>1,839,100</i>	<i>(82,500)</i>
<i>00162 - Wastewater Plant Operations</i>					
447555 - Other Reimbursements	0	432,700	0	0	(432,700)
<i>00162 - Wastewater Plant Operations</i>	<i>0</i>	<i>432,700</i>	<i>0</i>	<i>0</i>	<i>(432,700)</i>
<i>00168 - Interest and Bond Redemption</i>					
461100 - Earnings On Investmer	119,541	5,034,400	5,455,600	5,455,600	421,200
461101 - Unrealized Gain	14,380	0	0	0	0
461175 - Change in Fair Value o	24,211,353	0	0	0	0
<i>00168 - Interest and Bond Redemptio</i>	<i>24,345,274</i>	<i>5,034,400</i>	<i>5,455,600</i>	<i>5,455,600</i>	<i>421,200</i>
<i>00169 - Sewerage System Improvements</i>					
461100 - Earnings On Investmer	16,880	423,500	665,100	665,100	241,600
<i>00169 - Sewerage System Improvem</i>	<i>16,880</i>	<i>423,500</i>	<i>665,100</i>	<i>665,100</i>	<i>241,600</i>
<i>00443 - Extraordinary Repairs and Replacem</i>					
461100 - Earnings On Investmer	313,504	1,322,700	1,358,000	1,358,000	35,300
461101 - Unrealized Gain	77,592	0	0	0	0
<i>00443 - Extraordinary Repairs and Re</i>	<i>391,096</i>	<i>1,322,700</i>	<i>1,358,000</i>	<i>1,358,000</i>	<i>35,300</i>
<i>11488 - Sewerage Bond Fund Series 2005</i>					
461100 - Earnings On Investmer	16	0	0	0	0
<i>11488 - Sewerage Bond Fund Series</i>	<i>16</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>11924 - Sewerage Second Lien Bond Reserve F</i>					
461100 - Earnings On Investmer	650,347	0	0	0	0
<i>11924 - Sewerage Second Lien Bond</i>	<i>650,347</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>12139 - Sewerage Bond Fund Series 2007</i>					
461100 - Earnings On Investmer	1,710,849	0	0	0	0
461101 - Unrealized Gain	207,190	0	0	0	0
<i>12139 - Sewerage Bond Fund Series</i>	<i>1,918,039</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
A42000 - Sewerage Department	418,343,268	506,485,672	518,681,049	518,681,049	12,195,377
Grand Total	418,343,268	506,485,672	518,681,049	518,681,049	12,195,377

**CITY OF DETROIT
MAYOR'S 2011-2012 RECOMMENDED BUDGET**

Sewerage Department

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2010	2011 FTE	FY 2011	2012 FTE	2011	2012 FTE
Classification						
00089 - Administration						
421030 - Document Management						
Admin Asst GD II - DWSD	1		0		0	
Principal Clerk	1		0		0	
Office Assistant II	1		0		0	
Messenger	2		0		0	
Total Document Management	5		0		0	
421070 - Safety						
Safety Officer	2		0		0	
Office Assistant II	1		0		0	
Total Safety	3		0		0	
421090 - Office of Program Management As						
Engineer of Water Systems	1		0		0	
Administrative Specialist I	1		0		0	
Principal Governmental Analyst	1		0		0	
Sr Governmental Analyst	1		0		0	
Sr Asst Civil Eng - Wastewater	1		0		0	
Head Clerk	1		0		0	
Principal Clerk	1		0		0	
Office Assistant III	1		0		0	
Office Assistant II	1		0		0	
Total Office of Program Management Assista	9		0		0	
421095 - Capital Management						
General Manager - DWSD	1		1		1	
Engineer of Water Systems	1		1		1	
Manager I - DWSD	1		1		1	
Sr Governmental Analyst	2		2		2	
Office Management Assistant	1		1		1	
Total Capital Management	6		6		6	
421100 - Print Shop						
Supervisor of Printing	1		1		1	
Offset Printer	1		1		1	

**CITY OF DETROIT
MAYOR'S 2011-2012 RECOMMENDED BUDGET**

Sewerage Department

Appropriation	REDBOOK FY	DEPT REQUEST	MAYORS FY
Organization	2010 2011 FTE	FY 2011 2012 FTE	2011 2012 FTE
Classification			
00089 - Administration			
421100 - Print Shop			
Duplicating Devices Operator	0	1	1
Total Print Shop	2	3	3
Total Administration	25	9	9
00162 - Wastewater Plant Operations			
425010 - Office of Assistant Director of Was			
Asst Dir -DWSD Wastewater Oper	1	1	1
Head Eng - Water Sys-Operation	1	1	1
Engineer of Wastewater Systems	1	1	1
Manager I - DWSD	1	1	1
Head Governmental Analyst	1	1	1
Office Assistant III	1	1	1
Superintendent of Eng - DWSD	0	1	1
Total Office of Assistant Director of Wastewa	6	7	7
425020 - Plant Administration			
Chief Sewage Plant Engineer	1	1	1
Manager II - DWSD	1	1	1
Office Management Assistant	2	2	2
Administrative Specialist I	1	1	1
Admin Asst GD II - DWSD	2	2	2
Head Clerk	2	3	2
Principal Clerk	1	1	1
Senior Clerk	17	26	16
Office Assistant III	6	11	5
Engineer of Water Systems	6	7	7
Sr Assoc Civil Eng - Waste	2	3	2
Sr Assoc Mech Eng - Waste	2	2	2
Sr Assoc Chem Eng-Wastewater	3	3	3
Associate Civil Eng - Design	5	8	6
Assoc Chem Eng-Wastewater Sys	5	5	5
Assoc Mech Eng -Wastewater Sys	5	6	5

**CITY OF DETROIT
MAYOR'S 2011-2012 RECOMMENDED BUDGET**

Sewerage Department

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2010	2011 FTE	FY 2011	2012 FTE	2011	2012 FTE
Classification						
00162 - Wastewater Plant Operations						
425020 - Plant Administration						
Sr Assoc Elect Eng - Waste	4		7		4	
Eng Support Specialist II	1		2		1	
Senior Water Systems Chemist	17		17		17	
Water Systems Chemist	45		45		45	
Senior Analytical Chemist	10		10		10	
Analytical Chemist	28		28		28	
Microbiologist	2		3		2	
Drafting Technician III	1		6		6	
Assoc Elect Eng - Design	4		5		4	
Wastewater Systems Trng Sprv	1		0		0	
Principal Training Specialist	1		0		0	
Senior Training Specialist	1		1		0	
Plant Maintenance Sr Foreman	7		7		7	
Plant Maintenance Foreman	15		21		15	
Carpenter Sub-Foreman	1		1		1	
Plant Maintenance Sub-Foreman	15		15		15	
Plant Maintenance Mechanic	48		48		48	
Plant Equip Operation Mechanic	10		10		10	
Repair Mechanic	32		32		32	
Water Sys Cntrl Instr Tech	14		21		17	
Control Instru Tech -Foreman	1		1		1	
Cont Instr Tech Sub-Foreman-Wa	8		8		8	
Water Systems Laboratory Aid	2		3		2	
Elect Worker Foreman	1		1		1	
Elect Worker Sub-Foreman	7		7		7	
Elect Worker - General	29		29		30	
Elect Repair Worker - General	3		3		3	
Maintenance Millwright	11		10		10	
General Welder	4		3		3	
Finish Carpenter	2		2		2	
Bricklayer	4		4		4	

**CITY OF DETROIT
MAYOR'S 2011-2012 RECOMMENDED BUDGET**

Sewerage Department

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2010	2011	FY 2011	FY 2012	2011	2012
Classification			FTE		FTE	
00162 - Wastewater Plant Operations						
 425020 - Plant Administration						
Master Plumber	1		1		1	
Master Electrician of Record	1		0		0	
Plumber	21		20		20	
Steamfitter	3		3		3	
Supervising Bldg Attendant I	2		2		2	
Senior Building Attendant	2		2		2	
Building Attendant A	22		28		22	
Park Maintenance Foreman	2		2		2	
Park Maintenance Worker	6		6		6	
Park Maintenance Helper	2		2		2	
WWTP Maintenance Superintenden	1		1		1	
Sewage Plant Laboratory Sprv	1		2		1	
Asst Sewage Plant Oper Super	1		1		1	
Asst Sewage Plant Lab Sprv	3		4		3	
Sewage Plant Supervisor	7		7		7	
Head Sewage Plant Operator	22		23		22	
Asst Head Sewage Plant Oper	34		41		34	
Sr Sewage Plant Operator	32		32		32	
Wastewater Process Controller	11		11		11	
Sewage Plant Operator	184		194		184	
Vehicle Operator III	1		1		1	
Vehicle Operator I	3		3		3	
Delivery - Driver	2		2		3	
Plumber Apprentice	2		2		2	
Maint Millwright Apprentice	1		1		1	
Elect Worker Apprentice	2		2		2	
Sr Assoc Mech Eng - Design	0		3		4	
Sr Assoc Elect Eng - Design	0		1		1	
Head Constr Inspector - DWSD	0		1		1	
Sr Asst Elect Eng - Wastewater	0		3		3	
Sr Construction Inspector	0		8		8	

**CITY OF DETROIT
MAYOR'S 2011-2012 RECOMMENDED BUDGET**

Sewerage Department

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2010	2011 FTE	FY 2011	2012 FTE	2011	2012 FTE
Classification						
00162 - Wastewater Plant Operations						
425020 - Plant Administration						
Construction Inspector	0		2		2	
Sr Asst Civil Eng - Wastewater	0		5		5	
Sr Asst Elect Eng - Design	0		1		1	
Head Civil Eng - Field	0		1		1	
Head Eng - Water Sys - Design	0		1		1	
Office Assistant II	0		1		1	
Sr Asst Mech Eng - Wastewater	0		1		1	
Wastewater Plant General Sprv	0		1		0	
Sr Assoc Civil Eng - Design	0		2		2	
Prin Construct Inspector-DWSD	0		1		1	
Assoc Mech Eng - Design	0		2		1	
Sr Asst Mech Eng - Design	0		2		2	
Total Plant Administration	759		861		797	
425140 - I. W. C. Field Monitoring						
Manager I - DWSD	1		1		1	
Admin Asst GD II - DWSD	1		1		1	
Administrative Specialist I	1		1		1	
Indus Waste Control Mgr	1		1		1	
Sprv of Indust Waste Control	2		2		2	
Engineer of Water Systems	1		1		1	
Chemical Engineer	2		2		2	
Sr Assoc Chem Eng-Indust Waste	4		4		4	
Assoc Chem Eng-Wastewater Sys	12		12		12	
Sr Asst Chem Eng Indust Waste	12		12		12	
Sr Indus Wastewater System	5		5		5	
Principal Governmental Analyst	2		2		2	
Sr Governmental Analyst	3		3		2	
Office Management Assistant	1		1		1	
Head Clerk	1		1		1	
Principal Clerk	2		2		2	
Senior Clerk	4		4		3	

**CITY OF DETROIT
MAYOR'S 2011-2012 RECOMMENDED BUDGET**

Sewerage Department

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2010	2011 FTE	FY 2011	2012 FTE	2011	2012 FTE
Classification						
00162 - Wastewater Plant Operations						
425140 - I. W. C. Field Monitoring						
Office Assistant III	3		3		3	
Senior Stenographer	1		1		0	
Office Assistant II	1		1		1	
Clerk	1		1		1	
Eng Support Specialist II	8		8		7	
Environmental Specialist III	2		2		2	
Environmental Specialist II	3		3		3	
Head Constr Inspector - DWSD	2		2		2	
Water Systems Investigator	15		15		13	
Asst Water Sys Investigator	15		15		13	
Plant Maintenance Sr Foreman	2		2		2	
Bldg Oper Sprv - Grade II	1		1		1	
Senior Building Attendant	1		1		1	
Building Attendant A	2		2		2	
Total I. W. C. Field Monitoring	112		112		104	
425395 - Puritan / Fenkell						
Plant Maintenance Foreman	1		1		1	
Head Sewage Plant Operator	1		1		1	
Elect Worker - General	1		1		0	
Plumber	2		2		2	
Water Sys Cntrl Instr Tech	1		1		1	
Maintenance Millwright	1		1		1	
Eng Support Specialist II	1		1		1	
Wastewater Treatment Plant Tec	20		20		20	
Plant Maintenance Mechanic	1		1		1	
Sr Asst Mech Eng - Wastewater	0		2		2	
Sr Assoc Elect Eng - Design	0		1		1	
Assoc Elect Eng - Design	0		1		2	
Head Eng - Water Sys - Design	0		1		1	
Engineer of Water Systems	0		1		1	
Sr Assoc Civil Eng - Design	0		1		1	

**CITY OF DETROIT
MAYOR'S 2011-2012 RECOMMENDED BUDGET**

Sewerage Department

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2010	2011 FTE	FY 2011	2012 FTE	2011	2012 FTE
Classification						
00162 - Wastewater Plant Operations						
425395 - Puritan / Fenkell						
Associate Civil Eng - Design	0		2		2	
Sr Asst Civil Eng - Wastewater	0		1		1	
Office Assistant III	0		1		1	
Sr Assoc Mech Eng - Design	0		3		3	
Total Puritan / Fenkell	29		43		43	
Total Wastewater Plant Operations	906		1,023		951	
05831 - Engineering Services - Sewage						
423020 - Engineering Administrative Service						
Head Eng - Water Sys - Design	2		0		0	
Head Civil Eng - Field	1		0		0	
Engineer of Water Systems	4		2		2	
Electrical Eng - Design	1		1		1	
Sr Assoc Civil Eng - Design	7		4		4	
Sr Assoc Elect Eng - Design	3		0		0	
Sr Assoc Mech Eng - Design	5		0		0	
Associate Civil Eng - Design	6		2		2	
Assoc Elect Eng - Design	4		2		2	
Assoc Mech Eng - Design	5		3		3	
Sr Asst Civil Eng - Wastewater	14		7		7	
Sr Asst Mech Eng - Wastewater	5		2		2	
Sr Asst Mech Eng - Design	1		0		0	
Sr Asst Elect Eng - Wastewater	6		3		3	
Drafting Technician IV	1		1		1	
Drafting Technician III	5		1		1	
Prin Data Proc Prog Analyst	1		1		1	
Eng Support Specialist II	5		3		3	
Eng Support Specialist I	1		1		1	
Head Constr Inspector - DWSD	3		2		2	
Prin Construct Inspector-DWSD	4		3		3	
Sr Construction Inspector	16		8		8	
Construction Inspector	5		3		3	

**CITY OF DETROIT
MAYOR'S 2011-2012 RECOMMENDED BUDGET**

Sewerage Department

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2010	2011 FTE	FY 2011	2012 FTE	2011	2012 FTE
Classification						
05831 - Engineering Services - Sewage						
423020 - Engineering Administrative Services						
Sewer Systems Sprv Insp	1		1		1	
Principal Clerk	1		1		1	
Office Assistant III	4		3		3	
Senior Clerk	2		2		2	
Office Assistant II	3		2		2	
Clerk	3		3		3	
Total Engineering Administrative Services	119		61		61	
Total Engineering Services - Sewage	119		61		61	
13315 - Process and Quality Control Group						
421031 - Document Management						
Office Assistant II	0		1		1	
Admin Asst GD II - DWSD	0		1		1	
Principal Clerk	0		1		1	
Messenger	0		2		2	
Total Document Management	0		5		5	
421066 - Training						
Wastewater Systems Trng Sprv	0		1		1	
Maintenance Millwright	0		1		1	
Principal Training Specialist	0		1		1	
Senior Training Specialist	0		1		1	
Senior Clerk	0		1		1	
General Welder	0		1		1	
Total Training	0		6		6	
421071 - Safety						
Plumber	0		1		1	
Office Assistant II	0		1		1	
Safety Officer	0		2		2	
Asst Safety Officer - DWSD	0		2		2	
Office Assistant III	0		0		1	

**CITY OF DETROIT
MAYOR'S 2011-2012 RECOMMENDED BUDGET**

Sewerage Department

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2010	2011 FTE	FY 2011	2012 FTE	2011	2012 FTE
Classification						
13315 - Process and Quality Control Gropu						
421071 - Safety						
Master Electrician of Record	0		1		1	
Total Safety	0		7		8	
421091 - Environmental and Regulatory Affairs						
Office Assistant III	0		1		1	
Office Assistant II	0		1		1	
Admin Asst GD II - DWSD	0		0		1	
Administrative Specialist I	0		1		0	
Head Clerk	0		1		1	
Engineer of Water Systems	0		1		1	
Principal Clerk	0		1		1	
Sr Asst Civil Eng - Design	0		0		1	
Sr Asst Civil Eng - Wastewater	0		1		0	
Proc & Qual Control Mgr-DWSD	0		1		1	
Principal Governmental Analyst	0		1		1	
Sr Governmental Analyst	0		1		1	
Total Environmental and Regulatory Affairs I	0		10		10	
Total Process and Quality Control Gropu	0		28		29	
Agency Total	1,050		1,121		1,050	