

## WATER (41)

### 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 Water Department's goal is to provide our customers with safe and reliable drinking water by meeting or exceeding all state, federal and department standards for quality and safety.

#### AGENCY FINANCIAL SUMMARY:

2012-13 <u>Requested</u>		2011-12 <u>Budget</u>	2012-13 <u>Recommended</u>	Increase <u>(Decrease)</u>
\$ 167,747,155	Operation and Maintenance	\$ 163,821,840	\$ 167,747,155	\$ 3,925,315
172,895,200	Debt Service	164,909,500	172,895,200	7,985,700
53,249,900	Capital Appropriations	57,223,600	53,249,900	(3,973,700)
-	Bonded Capital	300,000,000	-	(300,000,000)
<u>\$ 393,892,255</u>	Total Appropriations	<u>\$ 685,954,940</u>	<u>\$ 393,892,255</u>	<u>\$ (292,062,685)</u>
\$ 393,892,255	Departmental Revenues	\$ 385,954,940	\$ 393,892,255	\$ 7,937,315
-	Sale of Bonds	300,000,000	-	(300,000,000)
<u>\$ 393,892,255</u>	Total Revenues	<u>\$ 685,954,940</u>	<u>\$ 393,892,255</u>	<u>\$ (292,062,685)</u>
\$ -	NET TAX COST:	\$ -	\$ -	\$ -

#### AGENCY EMPLOYEE STATISTICS:

2012-13 <u>Requested</u>		2011-12 <u>Budget</u>	04-01-12 <u>Actual</u>	2012-13 <u>Recommended</u>	Increase <u>(Decrease)</u>
1,453	City Positions	1,717	1,330	1,453	(264)
1,453	Total Positions	1,717	1,330	1,453	(264)

#### ACTIVITIES IN THIS AGENCY:

	2011-12 <u>Budget</u>	2012-13 <u>Recommended</u>	Increase <u>(Decrease)</u>
Administrative Services	\$ 17,446,169	\$ 20,049,169	\$ 2,603,000
Financial Services	6,353,132	6,293,182	(59,950)
Asset Maintenance	38,114,459	37,580,606	(533,853)
Plant Operations - Water	59,787,312	62,799,866	3,012,554
Engineering Services	2,775,426	3,879,044	1,103,618
Water - Capital and Debt Service	522,133,100	226,145,100	(295,988,000)
Information Tech & Systems Integration	25,261,043	22,358,695	(2,902,348)
Public Affairs Group	12,787,281	13,449,903	662,622
Process & Quality Control Services	1,297,018	1,336,690	39,672
Total Appropriations	<u>\$ 685,954,940</u>	<u>\$ 393,892,255</u>	<u>\$ (292,062,685)</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 certifies firms as Detroit Based Businesses and Customer Based Businesses, and monitors participation on contracts.

#### **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 efficiently and effectively process contracts, grants and loans.
7. To encourage local businesses to participate in the Department's contracting process.

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### ADMINISTRATIVE SERVICES MEASURES AND TARGETS

<b>Type of Performance Measure:</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>
List of Measures	Actual	Actual	Projection	Target
<b>Inputs: Resources Allocated or Service Demands Made:</b>				
City populations served	900,000	900,000	900,000	900,000
Suburban populations served	3.3 million	3.3 million	3.3 million	3.3 million
Number of Drinking Water Revolving Loan Fund applic.	1	0	0	0
Value of Drinking Water Revolving Loan Fund applic.	6,500,000	0	0	0
<b>Activity Costs</b>	<b>\$71,778,610</b>	<b>\$16,658,196</b>	<b>\$17,446,169</b>	<b>\$20,049,169</b>

**CITY OF DETROIT**  
**Water Department**  
**Financial Detail by Appropriation and Organization**

Office of the Director Administration	2011-12 Redbook		2012-13 Dept Final Request		2012-13 Mayor's Budget Rec	
	FTE	AMOUNT	FTE	AMOUNT	FTE	AMOUNT
<i>APPROPRIATION ORGANIZATION</i>						
00085 - Administration						
411010 - Office of the Director	6	\$330,110	5	\$419,555	5	\$419,555
411030 - Document Management	0	\$0	0	\$0	0	\$0
411040 - General Staff Services	0	\$9,174,437	0	\$10,656,810	0	\$10,656,810
411050 - General Departmental Services	0	\$5,145,681	0	\$5,113,531	0	\$5,113,531
411060 - Human Resources	0	\$24,432	0	\$24,079	0	\$24,079
411065 - Board of Water Commissioners	0	\$0	0	\$129,450	0	\$129,450
411080 - Security	130	\$2,171,576	119	\$3,007,594	119	\$3,007,594
411095 - Capital Management	0	\$39,050	0	\$32,500	0	\$32,500
411100 - Print Shop	0	\$155,086	0	\$161,394	0	\$161,394
411200 - Contracts and Grants	27	\$405,797	19	\$504,256	19	\$504,256
411251 - Meter Operations	0	\$0	0	\$0	0	\$0
411256 - Meter Records	0	\$0	0	\$0	0	\$0
411261 - Meter Shop	0	\$0	0	\$0	0	\$0
411266 - Meter Instrumentation Shop	0	\$0	0	\$0	0	\$0
<b>APPROPRIATION TOTAL</b>	<b>163</b>	<b>\$17,446,169</b>	<b>143</b>	<b>\$20,049,169</b>	<b>143</b>	<b>\$20,049,169</b>
<b>ACTIVITY TOTAL</b>	<b>163</b>	<b>\$17,446,169</b>	<b>143</b>	<b>\$20,049,169</b>	<b>143</b>	<b>\$20,049,169</b>

**CITY OF DETROIT**  
**Budget Development for FY 2012-2013**  
**Appropriations - Summary Objects**

	<b>2011-12 Redbook</b>	<b>2012-13 Dept Final Request</b>	<b>2012-13 Mayor's Budget Rec</b>
<b>AC0541 - Administration Services</b>			
<i>A41000 - Water Department</i>			
SALWAGESL - Salary & Wages	1,761,609	2,069,388	2,069,388
EMPBENESL - Employee Benef	810,368	1,559,453	1,559,453
PROFSVCSL - Professional/Cor	2,494,956	2,094,400	2,094,400
OPERSUPSL - Operating Suppli	192,168	202,364	202,364
OPERSVCSL - Operating Servic	11,566,680	11,584,085	11,584,085
CAPOUTLSL - Capital Outlays/I	0	0	0
OTHEXPSSL - Other Expenses	620,388	2,539,479	2,539,479
<i>A41000 - Water Department</i>	<i>17,446,169</i>	<i>20,049,169</i>	<i>20,049,169</i>
<b>AC0541 - Administration Services</b>	<b>17,446,169</b>	<b>20,049,169</b>	<b>20,049,169</b>
<b>Grand Total</b>	<b>17,446,169</b>	<b>20,049,169</b>	<b>20,049,169</b>

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### ***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 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, Resource Recovery, Management Support, and Employee Support sections; which, when combined, 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, and executes approved policies and procedures regarding inventory control, operation and maintenance of fuel, dispensing and storage systems, stocking of materials, new stock number tracking and creation, resource recovery, waste materials collection, 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, 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 while continuously seeking cost savings. To accomplish this mission, the Purchasing Division under the guidance of the Water & Sewerage Assistant Director, Financial Services Group, recommends & executes policies and procedures to maintain a fair and equitable bid solicitation process, emergency purchase order/contract processing, the usage of cooperative agreements, expeditious PO deliveries & field operations usage and resolution 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

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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.

**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. CMBS 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.
7. To develop and implement a policy and procedure assuring that cost savings is requested and received consistently.
8. To provide policy and procedures training to all divisions within Water & Sewerage.
9. To increase the usage of state of Michigan Cooperative Agreements.
10. To provide a Supplier Outreach to inform suppliers of changes in our procurement process.

### MAJOR INITIATIVES FOR FY 2011-12:

- Developed a PO Expediting Process and Delivery Tracking procedure to provide a mechanism for assuring the department that their requirements are being delivered in a timely manner and as per the Contract Language.
- Participated in Train the Trainer Sessions for the Oracle Financials Software provided by Finance Central Purchasing.
- Updated the Water & Sewerage Purchasing Division Policy and Procedures Manual.
- Implemented an E-mailed RFQ process to expedite & receive informal bids.
- Established a bi-weekly Joint Purchasing Meeting schedule with various divisions to problem solve and assure communication is open and consistent.

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### PLANNING FOR THE FUTURE FOR FY 2012-13, FY 2013-14 and BEYOND:

- Continue to Plan and Develop Educational Workshops for DWSD Staff on the various Procurement Processes and discuss cost saving initiatives.
- Attend the National Institute of Governmental Purchasing (NIGP) Educational Conference in 2012.
- Maintain membership with the NIGP and with the local Professional Chapter M.P.P.O.A.
- Participate in the M.P.P.O.A. Reverse Vendor Trade Fair encouraging vendors to conduct business with the City of Detroit.
- All Senior Buyers/Purchasing Agents have received certification as CPPA (Certified Public Purchases Agents) from the NIGP that are good for several years.
- Continue to develop procedures for expediting the PO process.
- Maintain a purchase requisition processing level in which PO's less than \$25,000 are processed and delivered within 30-45 business days.
- Conduct Oracle Financials Purchasing Module Training Sessions with DWSD staff - Office of Purchasing, Commercial Operations, Asset Maintenance and Materials Management – Warehouse Operations.



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### FINANCIAL SERVICES MEASURES AND TARGETS

<b>Type of Performance Measure:</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>
List of Measures	Actual	Actual	Projection	Target
<b>Inputs: Resources Allocated or Service Demands Made</b>				
DWSD Staff Training Workshops	6	6	6	6
PO's Processed	6,000	6,250	6,300	6,650
Requisitions Assigned	8,000	8,500	8,600	8,700
<b>Activity Costs</b>	<b>\$19,997,198</b>	<b>\$6,230,521</b>	<b>\$6,353,132</b>	<b>6,293,182</b>

**CITY OF DETROIT**  
**Water Department**  
**Financial Detail by Appropriation and Organization**

Office of Assistant Director of Financial S Financial Services Group	2011-12 Redbook		2012-13 Dept Final Request		2012-13 Mayor's Budget Rec	
	FTE	AMOUNT	FTE	AMOUNT	FTE	AMOUNT
<i>APPROPRIATION ORGANIZATION</i>						
00086 - Financial Services Group						
412010 - Office of Assistant Director of Financie	2	\$239,883	2	\$161,831	2	\$161,831
412020 - Financial Administrative Services	8	\$287,099	6	\$284,166	6	\$284,166
412030 - Budget/Fiscal Reporting	0	\$1,978	0	\$1,450	0	\$1,450
412040 - Rates	0	\$239,117	0	\$249,050	0	\$249,050
412080 - General Accounting Administrative Se	58	\$3,040,616	52	\$2,452,510	52	\$2,452,510
412090 - Financial Reporting	0	\$4,598	0	\$4,598	0	\$4,598
412100 - Fixed Assets/Inventory/Payables	0	\$407,218	0	\$290,622	0	\$290,622
412110 - Cash Management	0	\$32,947	0	\$26,610	0	\$26,610
412130 - CBMS Support	0	\$0	5	\$315,531	5	\$315,531
412220 - Purchasing	19	\$596,675	18	\$692,892	18	\$692,892
412230 - Material Management	63	\$1,439,104	54	\$1,549,622	54	\$1,549,622
412235 - Water Plant Stores	0	\$8,392	0	\$8,392	0	\$8,392
412240 - West Yard Warehouse	0	\$4,146	0	\$17,646	0	\$17,646
412245 - CSF - Warehouse	0	\$25,427	0	\$57,532	0	\$57,532
412250 - Operations Support	0	\$7,623	0	\$7,623	0	\$7,623
412255 - Inventory Audit	0	\$6,479	0	\$6,479	0	\$6,479
412260 - Automotive Stores	0	\$11,830	0	\$166,628	0	\$166,628
<b>APPROPRIATION TOTAL</b>	<b>150</b>	<b>\$6,353,132</b>	<b>137</b>	<b>\$6,293,182</b>	<b>137</b>	<b>\$6,293,182</b>
<b>ACTIVITY TOTAL</b>	<b>150</b>	<b>\$6,353,132</b>	<b>137</b>	<b>\$6,293,182</b>	<b>137</b>	<b>\$6,293,182</b>

**CITY OF DETROIT**  
**Budget Development for FY 2012-2013**  
**Appropriations - Summary Objects**

	<b>2011-12 Redbook</b>	<b>2012-13 Dept Final Request</b>	<b>2012-13 Mayor's Budget Rec</b>
<b>AC1041 - Financial Services</b>			
<i>A41000 - Water Department</i>			
SALWAGESL - Salary & Wages	2,354,807	2,548,612	2,548,612
EMPBENESL - Employee Benef	1,926,355	1,920,125	1,920,125
PROFSVCSL - Professional/Cor	3,377,413	2,847,000	2,847,000
OPERSUPSL - Operating Suppli	168,859	214,474	214,474
OPERSVCSL - Operating Servic	164,213	209,411	209,411
CAPOUTLSL - Capital Outlays/In	472	472	472
OTHEXPSSL - Other Expenses	<b>(1,638,987)</b>	<b>(1,446,912)</b>	<b>(1,446,912)</b>
<i>A41000 - Water Department</i>	6,353,132	6,293,182	6,293,182
<b>AC1041 - Financial Services</b>	<b>6,353,132</b>	<b>6,293,182</b>	<b>6,293,182</b>
<b>Grand Total</b>	<b>6,353,132</b>	<b>6,293,182</b>	<b>6,293,182</b>

## **WATER (41)**

### ***ASSET MAINTENANCE GROUP ACTIVITY INFORMATION***

#### **ACTIVITY DESCRIPTION: ASSET MAINTENANCE GROUP**

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

**The Plants, Buildings, Grounds and Mechanical Maintenance (MM) Division** provides centralized major maintenance and repair support services at various DWSD buildings and water pumping stations, pressure reducing, and pressure regulating sites. Services provided include electrical, mechanical and other skilled trades expertise as well as housekeeping and grounds maintenance work as 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 water distribution and transmission systems. The Division is comprised of four (4) districts that maintain all water pipelines as well as associated appurtenances such as fire hydrants, water valve manholes, valves, and water service pipes up to private property 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. Improve pumping equipment availability and reliability for the maximum utilization of the water plants and water booster stations.
2. Improve buildings and grounds maintenance of unmanned water booster 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 of water plants and water booster stations to realize potential for increased revenue through reliable pumping services.
5. Continue to provide Fleet Management for the entire DWSD vehicle and construction equipment.
6. Continue to implement a Management Succession Planning Program.

The Maintenance and Repair Division goals are:

1. To responsibly manage the water distribution and transmission system to provide safe drinking water at reasonable pressures with minimal interruptions of service.
2. Reducing non-revenue water by aggressively repairing breaks and leaks.
3. Protect public health and safety by ensuring a high level of fire hydrant operability.
4. Maintain divisional training programs to reduce lost time accidents, improve operations, and provide succession training to meet departmental needs.
5. Implement reasonable preventive maintenance programs to proactively manage our water assets at the lower expense.
6. Maintain a high number of employees who hold the Michigan Department of Environmental Quality Water Distribution Operator "S" license, ensuring a well-trained workforce knowledgeable on the rules and regulations of water system maintenance and operation.

#### **MAJOR INITIATIVES FOR FY 2011-12: (Mechanical Maintenance Division)**

- Refurbish/Upgrade High Lift Pump#16 and Low lift#4 Motor at Northeast Water Treatment Plant.
- Refurbish/upgrade High lift#4 pump and Motor at Lake Huron Water Treatment Plant.
- Install five Isolation Gate Valves on the Discharge side of the Pumps, so as to effect Isolation of two Pumps at a time and also replace two Discharge Butterfly valves at Ford Road Booster station.
- Replaced all four Line Pumps Discharge valves at Orion.
- Refurbish SMV-40 Actuator of 60" Gate Valve MV#6 at Imlay.
- Install three new Medium Voltage VFD's to replace the fire damaged VFD's at North Service Center.

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- Refurbished the Belle Isle Water Intake Boom #3 in house, and re installed it in Detroit River.
- Refurbish the High Lift #6 Motor at South West Water Treatment Plant.
- Completed Ornamental fencing for Water Works Park & Spring wells Water Treatment Plants.
- Fabrication of Hydraulic Control Panels (in house) for Discharge Valves of Reservoir pumps at Electric Avenue & West Chicago Booster stations.
- Removal of non functional Chlorine Distribution system at North Service Center Booster station.

### PLANNING FOR THE FUTURE FOR FY 2012-13, FY 2013-14 and BEYOND:

- Replace all the four Line Pumps at Orion Booster station.
- Replace Line Pump# 3 and refurbish its Motor at Joy Road Booster station.
- Decommission Roseville Booster station.

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### ASSET MAINTENANCE OPERATIONS MEASURES AND TARGETS

Type of Performance Measure: List of Measures	2009-10 Actual	2010-11 Actual	2011-12 Target	2012-13 Target
<b>Outputs: Units of Activity directed toward Goals -</b>				
Major Pumping Units Availability – Water (Benchmark – 85%)	*94%	*92%	*95%	*95%
Sites Maintained	59	59	59	59
Acreage Maintained	1,025	1,025	1,025	1,025
Vehicle Maintenance Performed (Repairs)	4,945	5,200	5,500	5,340
Preventive Maintenance measures implemented on system critical pumping equipment	100%	100%	100%	100%
Main leaks and breaks repaired by Contractor	694	700	700	700
Main leaks and breaks repaired by DWSD forces	290	802	800	800
Service and Curb Box repairs and service kills	1,776	23,627	20,000	20,000
Emergency investigations made	31,078	36,197	36,000	36,000
Gate valves repaired or replaced	1,088	532	1,000	1,000
Fire hydrants repaired or replaced	3,500	4,367	4,000	4,000
<b>Activity Costs</b>	<b>\$44,038,892</b>	<b>\$35,806,113</b>	<b>\$38,114,459</b>	<b>\$37,580,606</b>

\* Annual Average

**CITY OF DETROIT**  
**Water Department**  
**Financial Detail by Appropriation and Organization**

Office of Assistant Director Asset Mainten Asset Maintenance Group	2011-12 Redbook		2012-13 Dept Final Request		2012-13 Mayor's Budget Rec	
	FTE	AMOUNT	FTE	AMOUNT	FTE	AMOUNT
<i>APPROPRIATION ORGANIZATION</i>						
00087 - Asset Maintenance Group						
414010 - Office of Assistant Director Asset Main	18	\$874,725	12	\$744,606	12	\$744,606
414130 - Mechanical Operations Administration	236	\$6,701,693	190	\$7,418,731	190	\$7,418,731
414140 - Ground Maintenance	0	\$39,919	0	\$39,919	0	\$39,919
414150 - Field Operations	0	\$4,889,172	0	\$4,306,915	0	\$4,306,915
414160 - Mechanical Maintenance	0	\$1,332,746	0	\$788,044	0	\$788,044
414200 - Water Board Building	37	\$1,549,878	28	\$1,520,127	28	\$1,520,127
414240 - Maintenance and Repair 2004	355	\$21,462,756	339	\$21,499,756	339	\$21,499,756
414360 - Central Service Facility	1	\$1,263,570	0	\$1,262,508	0	\$1,262,508
<b>APPROPRIATION TOTAL</b>	<b>647</b>	<b>\$38,114,459</b>	<b>569</b>	<b>\$37,580,606</b>	<b>569</b>	<b>\$37,580,606</b>
<b>ACTIVITY TOTAL</b>	<b>647</b>	<b>\$38,114,459</b>	<b>569</b>	<b>\$37,580,606</b>	<b>569</b>	<b>\$37,580,606</b>

**CITY OF DETROIT**  
**Budget Development for FY 2012-2013**  
**Appropriations - Summary Objects**

	<b>2011-12 Redbook</b>	<b>2012-13 Dept Final Request</b>	<b>2012-13 Mayor's Budget Rec</b>
<b>AC1541 - Asset Management</b>			
<i>A41000 - Water Department</i>			
SALWAGESL - Salary & Wages	13,045,547	13,786,825	13,786,825
EMPBENESL - Employee Benef	11,545,971	10,386,989	10,386,989
PROFSVCSL - Professional/Cor	10,952,489	9,179,300	9,179,300
OPERSUPSL - Operating Suppli	2,540,510	3,725,937	3,725,937
OPERSVCSL - Operating Servic	1,112,660	1,140,642	1,140,642
CAPEQUPSL - Capital Equipme	8,277	8,277	8,277
CAPOUTLSL - Capital Outlays/In	82,767	82,767	82,767
OTHEXPSSL - Other Expenses	<b>(1,173,762)</b>	<b>(730,131)</b>	<b>(730,131)</b>
<i>A41000 - Water Department</i>	<b>38,114,459</b>	<b>37,580,606</b>	<b>37,580,606</b>
<b>AC1541 - Asset Management</b>	<b>38,114,459</b>	<b>37,580,606</b>	<b>37,580,606</b>
<b>Grand Total</b>	<b>38,114,459</b>	<b>37,580,606</b>	<b>37,580,606</b>



## **WATER (41)**

### ***PLANT OPERATIONS - WATER ACTIVITY INFORMATION***

#### **ACTIVITY DESCRIPTION: PLANT OPERATIONS – WATER**

**The Water Production Division** operates five water treatment plants and three raw water intakes. The plants are responsible for producing drinking water that meets all state, federal and department standards for quality and safety. The plants are also responsible for producing enough water to meet the demand required during peak season.

**The Water Quality Division** is responsible for the testing and reporting of water quality throughout the distribution system to comply with federal and state Safe Drinking Water Act regulations and to provide data for department use. The Division is responsible for investigating customer complaints, disinfecting and testing new or repaired water mains, and investigating facilities for acceptable water quality. The division is also involved in drinking water research projects and source water protection programs.

#### **GOALS:**

1. Ensure an adequate supply of safe, potable water to all parts of the system.
2. Repair all plant and pumping equipment quickly and efficiently.
3. Increase water system reliability through increased input into the planning process.
4. Respond to all water quality customer complaints by the end of the workday.
5. Continue 100% compliance with drinking water regulations.

#### **MAJOR INITIATIVES FOR FY 2011-12:**

- In the current year, there are five projects slated for closure, NE-376 Northeast Pumping Station Improvements, LH-395 Lake Huron Purchase and Installation of Variable Frequency Drives on Low Lift Pumps, LH-396 Construction of Baffle Walls in Clearwell No. 1 at Lake Huron, SP-568 Rehabilitation of Reservoir No. 1 at Springwells, and SW-549 Intake Rehabilitation and Improvements for the Southwest Water Treatment Plant.
- The active projects proposed for the fiscal year 2011-12 are in Table 1 below. If this budget is approved the projects listed in Table 2 will be issued a notice to start. All the projects listed in Tables 1 and 2 are mandated by regulatory requirements or required to maintain or improve Water Supply Operations compliance with all state, federal and department standards for quality, system reliability and safety.

**Table 1**

<b>Contact No.</b>	<b>Project Description</b>	<b>Time Frame</b>
CS-1425	Springwells Filter Rehabilitation and Auxiliary Facilities Improvements	2011 to 2016
DWS-867	Chemical Treatment System Modifications at Northeast, Springwells, Lake Huron and Southwest	2011 to 2012
SW-548	Construction of a Sludge and Waste Washwater Treatment facility for Southwest	2011 to 2013
SW-550	Rehabilitation of Chemical Tanks, Loading Dock and HVAC systems at Southwest	2011 to 2013
CS-1474	Replacement of High Lift and Low Lift Pumps at Springwells	2011 to 2016
CS-1305	Oversight of Waste Washwater and Sludge Disposal at Lake Huron, Southwest, Northeast and Springwells Plants	2011 to 2014

**Table 2**

<b>Contract No.</b>	<b>Project Description</b>	<b>Time Frame</b>
SP-563	1958 Filter Rehabilitation and Auxiliary Facilities Improvements at Springwells	2011 to 2016

## **WATER (41)**

### PLANNING FOR THE FUTURE FOR FY 2012-13, FY 2013-14 and BEYOND:-

- There is a tremendous need to recruit, retain and do succession planning to tackle the workforce challenges that exist and are on-going for the Water Supply Division of this department. Retirements are happening in droves and knowledge retention is a definite challenge facing this division. Based on the data last available, 20% of critical staff could retire in less than five years. The development of a strategic plan to contend with the rising rates of retirement, fewer workers to fill vacancies, and lack of skilled candidates to fill job openings, is crucial to our continued success in meeting all state, federal and department standards for quality and safety. For instance, the review and update of job specifications, external recruitment to bridge the gap in filling operational vacancies, salary adjustments to make positions attractive to the current market, open competitive recruitment to fill entry-level positions and succession and leadership planning to ensure an adequate pool of candidates for managerial positions.
- In 2007, the Water Quality Division initiated monitoring for the Stage 2, Disinfectants and Disinfectant By-Product Rule (DDBPR-2) promulgated in January 2006. This rule requires an Initial Distribution System Evaluation (IDSE) for disinfectant and disinfectant-by-products. IDSE report and Stage 2 monitoring plan was submitted to the EPA in 2009. Implementation of the Stage 2 plan will begin April 2012. Sampling and monitoring will be conducted by DWSD in Detroit's distribution system only. DWSD's wholesale customers will be responsible for sampling and monitoring disinfectant and disinfectant -by-products in their own distribution systems.
- The Long Term 2 Enhanced Surface Water Treatment Rule requiring source water testing for Cryptosporidium was completed in September 2008. DWSD is classified in bin one which requires no additional treatment. A second round of Cryptosporidium sampling must begin by April 2015.
- The proposed Unregulated Contaminant Monitoring 3 (UCMR3) was signed February 2011. Monitoring for UCMR3 will begin in 2013. The proposed monitoring includes thirty (30) contaminants, two (2) viruses and twenty eight (28) chemicals. Included on this list are eight endocrine disruptors and 2 personal care products.
- The Federal Advisory Committee met in November of 2007 to discuss revisions in the Total Coliform Rule (TCR). The 1989 TCR set health goals and legal limits and the type and frequency of testing for the presence of total coliforms, fecal coliforms and or E. coli, in drinking water. The EPA has two reasons to revise this regulation. The first, the microbial/ Disinfection by-Product the Federal Advisory Committee recommended an evaluation of distribution systems for regulatory actions. The second, the EPA is assessing the effectiveness of the current TCR at reducing public health risk, and assessing new technology that would reduce the financial burden, while maintaining or improving public health protection. Promulgation of rule should occur in 2012 effective date of the rule is 2015.
- DWSD triennial testing for the lead and copper rule (LCR) was completed in September 2011. The 2011 lead and copper 90<sup>th</sup> percentile results continue to indicate that the corrosion control is still effective at reducing lead and copper in DWSD's customer drinking water. Testing will resume again in 2014.
- Radiological testing was conducted in 2011 for the Lake Huron Plant, all the other water plant radionuclide monitoring will be conducted in 2014.

## WATER (41)

### PLANT OPERATIONS - WATER MEASURES AND TARGETS

Type of Performance Measure:	2009-10	2010-11	2011-12	2012-13
List of Measures	Actual	Actual	Projection	Target
<b>Inputs: Resources Allocated or Service Demands Made</b>				
Tons of chlorine used	1,548	1,700	1,700	1,700
Tons of fluoride used	4,049	4,500	4,500	4,500
Tons of alum used	10,810	13,000	13,000	13,000
Tons of Phosphate (corrosion control)	1,189	1,350	1,350	1,350
<b>Activity Costs</b>	<b>\$75,520,460</b>	<b>\$62,004,416</b>	<b>\$59,787,312</b>	<b>62,799,866</b>

**CITY OF DETROIT**  
**Water Department**  
**Financial Detail by Appropriation and Organization**

Office of Assistant Director of Water Oper Water Operations Group	2011-12 Redbook		2012-13 Dept Final Request		2012-13 Mayor's Budget Rec	
	FTE	AMOUNT	FTE	AMOUNT	FTE	AMOUNT
<i>APPROPRIATION ORGANIZATION</i>						
00088 - Water Operations Group						
415010 - Office of Assistant Director of Water C	6	\$322,987	4	\$568,072	4	\$568,072
415020 - Water Works Park	47	\$11,987,978	37	\$11,644,534	37	\$11,644,534
415030 - Springwells Plant	54	\$14,621,122	42	\$16,219,089	42	\$16,219,089
415040 - Northeast Plant	30	\$11,381,687	28	\$11,821,628	28	\$11,821,628
415050 - Southwest Plant	31	\$6,926,838	26	\$7,139,957	26	\$7,139,957
415060 - Lake Huron Plant	29	\$12,285,991	28	\$13,714,037	28	\$13,714,037
415390 - Water Quality	13	\$2,260,709	12	\$1,692,549	12	\$1,692,549
<b>APPROPRIATION TOTAL</b>	<b>210</b>	<b>\$59,787,312</b>	<b>177</b>	<b>\$62,799,866</b>	<b>177</b>	<b>\$62,799,866</b>
<b>ACTIVITY TOTAL</b>	<b>210</b>	<b>\$59,787,312</b>	<b>177</b>	<b>\$62,799,866</b>	<b>177</b>	<b>\$62,799,866</b>

**CITY OF DETROIT**  
**Budget Development for FY 2012-2013**  
**Appropriations - Summary Objects**

	<b>2011-12 Redbook</b>	<b>2012-13 Dept Final Request</b>	<b>2012-13 Mayor's Budget Rec</b>
<b>AC2041 - Plant Operations - Water</b>			
<i>A41000 - Water Department</i>			
SALWAGESL - Salary & Wages	9,876,563	11,226,822	11,226,822
EMPBENESL - Employee Benef	7,327,076	8,458,286	8,429,848
PROFSVCSL - Professional/Cor	2,175,599	2,397,000	2,397,000
OPERSUPSL - Operating Suppli	14,484,091	14,875,040	14,875,040
OPERSVCSL - Operating Servic	24,909,679	25,473,018	25,473,018
OTHEXPSSL - Other Expenses	1,014,304	369,700	398,138
<i>A41000 - Water Department</i>	<i>59,787,312</i>	<i>62,799,866</i>	<i>62,799,866</i>
<b>AC2041 - Plant Operations - Water</b>	<b>59,787,312</b>	<b>62,799,866</b>	<b>62,799,866</b>
<b>Grand Total</b>	<b>59,787,312</b>	<b>62,799,866</b>	<b>62,799,866</b>

## **WATER (41)**

### ***ENGINEERING SERVICES GROUP ACTIVITY INFORMATION***

#### **ACTIVITY DESCRIPTION: ENGINEERING SERVICES GROUP-WATER**

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 Groups. 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. All design work related to water production, pumping, metering and storage facilities is serviced by this group.

**The Urban and Suburban Plan Review Group** directs and coordinates the review of 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 insure that all engineering designs are in compliance with all federal, state and local agency requirements.
3. To insure that all water facilities are constructed in conformity with the plans and specifications, and those specifications are functional.

#### **MAJOR INITIATIVES FOR FY 2011-12:**

- SW-548: Waste Wash water and Sludge Treatment Facility at Southwest Water Treatment Plant Design completed, advertised in June 2009 is under construction.
- CS-1475: Sludge Treatment and Flocculation and Sedimentation Basins Upgrade at Northeast Water Treatment Plant was advertised; contract is under design.
- CS-1494: Filter Media, Chemical Feeds and Electrical Improvements at Northeast Water Treatment Plant were advertised and bids are evaluated; contract has been awarded to the contractor.
- WW-536: Water Works Park Yard Piping Replacement was designed under CS-1481, Task 3 and preparing contract documents for advertisement is ongoing.
- CS-1481, Task 5: Basis of Design for State Fair Valve Relocation at Northeast Water Treatment Plant is completed and preparation of contract documents for advertisement is underway.
- CS-1425: 1958 Filter Rehabilitation and Auxiliary Facilities Improvements at Springwells Water Treatment Plant and design is 95% complete.
- CS-1430: Rehabilitation of Filtration System at Northeast Water Treatment Plant was awarded and design is 80% complete.

## **WATER (41)**

- CS-1474: Replacement of High Lift and Low Lift Pumping Units at Springwells Water Treatment Plant contract was awarded and validation Study completed.
- CS-1481: Task 7, Replacement of Variable Frequency Drives 7, 8, and 9 at North Service Center - Design has been completed and delivered to Mechanical Maintenance Division for Construction.
- LH-395, Providing Variable Frequency Drives for Three High Lift Pumping Units at Lake Huron Water Treatment Plant is completed.
- SW-550: HVAC and Alum Tank Improvements at Southwest Water Treatment Plant - The Design/Build contract is under construction.

### PLANNING FOR THE FUTURE FOR FY 2012-13, FY 2013-14 and BEYOND:

- SW-551: Rehabilitation of Venturi meters and Vaults at Southwest Water Treatment Plant - The construction contract is anticipated to be advertised in 2011.
- SP-563: 1958 Filter Rehabilitation and Auxiliary Facilities Improvements at Springwells Water Treatment Plant - The construction contract is anticipated to be advertised in 2011.
- Low Lift Exciter, Electrical Instrumentation and Controls Upgrades at Northeast Water Treatment Plant.
- High Lift & Low Lift Pump Station, Administration Building, Chemical Building and System at Springwells Water Treatment Plant.
- Design Services for Major Pumping Improvements at Northeast Water Treatment Plant.

**CITY OF DETROIT**  
**Water Department**  
**Financial Detail by Appropriation and Organization**

Office of Assistant Director of Engineering Engineering Services - Water	2011-12 Redbook		2012-13 Dept Final Request		2012-13 Mayor's Budget Rec	
	FTE	AMOUNT	FTE	AMOUNT	FTE	AMOUNT
<i>APPROPRIATION</i>						
<i>ORGANIZATION</i>						
05817 - Engineering Services - Water						
413010 - Office of Assistant Director of Enginee	1	\$212,961	0	\$171,732	0	\$171,732
413020 - Engineering Administrative Support	119	\$2,374,484	30	\$1,443,002	30	\$1,443,002
413030 - Field Engineering Group	0	\$151,916	43	\$1,465,941	43	\$1,465,941
413040 - Water System	0	\$13,335	0	\$13,335	0	\$13,335
413050 - Facilities Design	0	\$22,730	20	\$785,034	20	\$785,034
414360 - Central Service Facility	0	\$0	0	\$0	0	\$0
<b>APPROPRIATION TOTAL</b>	<b>120</b>	<b>\$2,775,426</b>	<b>93</b>	<b>\$3,879,044</b>	<b>93</b>	<b>\$3,879,044</b>
<b>ACTIVITY TOTAL</b>	<b>120</b>	<b>\$2,775,426</b>	<b>93</b>	<b>\$3,879,044</b>	<b>93</b>	<b>\$3,879,044</b>



**CITY OF DETROIT**  
**Budget Development for FY 2012-2013**  
**Appropriations - Summary Objects**

	<b>2011-12 Redbook</b>	<b>2012-13 Dept Final Request</b>	<b>2012-13 Mayor's Budget Rec</b>
<b>AC2541 - Engineering Services - Water</b>			
<i>A41000 - Water Department</i>			
SALWAGESL - Salary & Wages	1,096,075	1,752,377	1,752,377
EMPBENESL - Employee Benef	890,191	1,319,903	1,319,903
PROFSVCSL - Professional/Cor	241,956	271,729	271,729
OPERSUPSL - Operating Suppli	73,050	73,050	73,050
OPERSVCSL - Operating Servic	533,623	563,743	563,743
OTHEXPSSL - Other Expenses	<b>(59,469)</b>	<b>(101,758)</b>	<b>(101,758)</b>
<i>A41000 - Water Department</i>	<i>2,775,426</i>	<i>3,879,044</i>	<i>3,879,044</i>
<b>AC2541 - Engineering Services - Water</b>	<b>2,775,426</b>	<b>3,879,044</b>	<b>3,879,044</b>
<b>Grand Total</b>	<b>2,775,426</b>	<b>3,879,044</b>	<b>3,879,044</b>

## **WATER (41)**

### ***WATER CAPITAL ACTIVITY INFORMATION***

#### **ACTIVITY DESCRIPTION: WATER – CAPITAL PROGRAM**

The Water Capital Program for the Water Supply System is a five-year plan devoted to rehabilitating and improving existing water treatment plants, pumping/booster stations, system instrumentation, and water meters; replacing deteriorated water distribution mains in the city of Detroit and suburban service area; installing new mains or re-routing existing mains to accommodate new development throughout Detroit; upgrading the instrumentation and process control equipment of the water transmission system; and constructing additional transmission mains and pumping facilities in order to loop the transmission system and bring in more water to the service area from the water treatment plants.

#### **GOALS:**

Provide essential, efficient and user-friendly services by:

1. Renovating, improving or replacing water plants, pump/booster stations, transmission and distribution mains, and other facilities to ensure a safe and adequate potable water supply.
2. Continuing the water main replacement program aimed at reducing the number of main breaks and leaks in the City of Detroit, thereby improving service, increasing public safety, and lowering costs to Detroit customers.
3. Continuing to computerize various departmental functions to reduce costs and improve operations.
4. Constructing additional mains, booster stations and reservoirs required to ensure an adequate water supply to all existing and new customers.

## WATER (41)

### WATER CAPITAL MEASURES AND TARGETS

<b>Type of Performance Measure:</b> List of Measures	<b>2009-10 Actual</b>	<b>2010-11 Actual</b>	<b>2011-12 Projection</b>	<b>2012-13 Target</b>
Facilities – Metro Area Construction	9,513,598	7,044,000	27,670,000	46,000,000
Facilities – Urban System Improvements	14,959,202	20,595,000	24,130,000	8,800,000
Facilities – Mechanical Maintenance	15,077,934	6,200,000	1,000,000	0
Facilities – Computer Systems	5,480,333	2,600,000	2,815,000	1,400,000
Plant Replace & Renovate – General Plant	19,780,353	15,363,000	22,942,000	11,836,000
Plant Replace & Renovate – Water Works Park	N/A	5,500,000	16,000,000	0
Plant Replace & Renovate – Springwells	7,787,621	5,077,000	29,080,000	38,150,000
Plant Replace & Renovate – Northeast	2,621,101	2,223,000	13,835,000	10,000,000
Plant Replace & Renovate – Southwest	496,216	22,540,000	22,164,000	21,305,000
Plant Replace & Renovate – Lake Huron	2,223,266	852,000	2,003,000	2,000,000
Plant Replace & Renovate – Pump Stations & Reservoirs	7,398,567	8,575,000	3,562,000	3,300,000
Total Number of Projects	85	72	59	32
<b>Activity Costs - Total Value of Projects</b>	<b>\$279,047,832</b>	<b>\$211,554,900</b>	<b>\$522,133,100</b>	<b>\$226,145,100</b>

**CITY OF DETROIT**  
**Water Department**  
**Financial Detail by Appropriation and Organization**

<b>Bond Principle &amp; Interest Redemption Fur</b>	<b>2011-12</b>		<b>2012-13</b>		<b>2012-13</b>	
	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>
<b>Debt Service and Maintenance</b>						
<i>APPROPRIATION</i>						
<i>ORGANIZATION</i>						
00163 - Debt Service and Maintenance						
417010 - Bond Principle & Interest Redemption	0	\$164,909,500	0	\$172,895,200	0	\$172,895,200
<b>APPROPRIATION TOTAL</b>	<b>0</b>	<b>\$164,909,500</b>	<b>0</b>	<b>\$172,895,200</b>	<b>0</b>	<b>\$172,895,200</b>
00164 - Water System Improvements						
417030 - Improvement and Extension Water Sy	0	\$56,244,400	0	\$50,478,900	0	\$50,478,900
<b>APPROPRIATION TOTAL</b>	<b>0</b>	<b>\$56,244,400</b>	<b>0</b>	<b>\$50,478,900</b>	<b>0</b>	<b>\$50,478,900</b>
00583 - Water Extraordinary Repair and Replacerr						
417060 - Water Extraordinary Repair and Reple	0	\$534,100	0	\$506,600	0	\$506,600
<b>APPROPRIATION TOTAL</b>	<b>0</b>	<b>\$534,100</b>	<b>0</b>	<b>\$506,600</b>	<b>0</b>	<b>\$506,600</b>
05733 - Reserve Deposit						
417020 - Debt Service Reserve	0	\$445,100	0	\$2,264,400	0	\$2,264,400
<b>APPROPRIATION TOTAL</b>	<b>0</b>	<b>\$445,100</b>	<b>0</b>	<b>\$2,264,400</b>	<b>0</b>	<b>\$2,264,400</b>
12140 - Water Bond Fund Series 2007						
417161 - Water Bond Fund Series 2007	0	\$300,000,000	0	\$0	0	\$0
<b>APPROPRIATION TOTAL</b>	<b>0</b>	<b>\$300,000,000</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>
<b>ACTIVITY TOTAL</b>	<b>0</b>	<b>\$522,133,100</b>	<b>0</b>	<b>\$226,145,100</b>	<b>0</b>	<b>\$226,145,100</b>

**CITY OF DETROIT**  
**Budget Development for FY 2012-2013**  
**Appropriations - Summary Objects**

	<b>2011-12 Redbook</b>	<b>2012-13 Dept Final Request</b>	<b>2012-13 Mayor's Budget Rec</b>
<b>AC3041 - Water - Capital and Debt Service</b>			
<i>A41000 - Water Department</i>			
CAPEQUPSL - Capital Equipme	7,500,000	7,500,000	7,500,000
OTHEXPSSL - Other Expenses	349,723,600	45,749,900	45,749,900
FIXEDCHGSL - Fixed Charges	164,909,500	172,895,200	172,895,200
<i>A41000 - Water Department</i>	<i>522,133,100</i>	<i>226,145,100</i>	<i>226,145,100</i>
<b>AC3041 - Water - Capital and Debt Service</b>	<b>522,133,100</b>	<b>226,145,100</b>	<b>226,145,100</b>
<b>Grand Total</b>	<b>522,133,100</b>	<b>226,145,100</b>	<b>226,145,100</b>

## **WATER (41)**

### ***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 three (3) sections, which brings 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) Division** 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.

**Network/Infrastructure Section** performs maintenance, monitors internal and external network security threats and develops migration plans for the many critical systems and sub-systems that make up the network infrastructure that DWSD relies on for financial, process and communication transactions. The Network Group manages the maintenance, new installations and service outages for the primary (OPT-E-MAN) and secondary (PNT) communication paths for DWSD. The Network Group provides maintenance and repair services for the telecommunication systems throughout the Department (networks LAN/WAN, telephones).

Infrastructure Group supports and maintains the 800 MHz and 900 MHz radio networks that are critical systems within the Department and provides resources to various divisions for any as-needed low voltage tasks. The Infrastructure Group monitors the integrity of the 900 MHz radio system to provide the optimum connectivity for the data availability for the WAMR System.

**Geographic Information Systems (GIS) Section** 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 Section** supports a robust network which the Security Division uses to provide all DWSD employees, contractors and visitors 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 Technology Division** manages, maintains and services servers, computers, and application software used in the business network for the Department. It also supports systems such as EMPAC and CBMS. This division is made up of three sections; technology programs, enterprise applications and architecture/security.

**Systems Control Center Division** is directly responsible for pumping treated water to 126 communities and providing wastewater collection services to 78 communities. It remotely operates 20 water pumping stations for the water distribution system and 9 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.

## **WATER (41)**

### GOALS:

1. Continue to minimize process downtime due to systems failure and ensure collection of regulatory required data.
2. Ensure that new process control systems follow DWSD control and regulatory standards.
3. Ensure that data incorporated into the GIS is accurate, current, complete and compatible.
4. Create custom maps and tables graphics driven by customer requests.
5. Be the driving force behind making GIS the map and records drawings repository.
6. Improve the quality of Information Systems services delivered to DWSD personnel.
7. Reduce the “unit cost” of delivering services.
8. Improve communications with the department generally.
9. Provide the customers with adequate pressures and flows of treated water.
10. Operate the wastewater collection system to maximize treatment and minimize combined sewer overflows.
11. Develop calibration procedures for process controls instruments as needed.
12. Reduce operational and capital outlays and expenditures.
13. Improve System Availability.
14. Reduce Server Footprint.
15. Disaster Recovery Policy and Procedure Development.
16. Staff Development Initiative to improve staff skill levels.
17. Greening of IT Devices to reduce power consumption.

### MAJOR INITIATIVES FOR FY 2011-12:

#### PNSS Division

- Upgrade the Ovation Control Systems at Systems Control Center and Treated Water Transmission System Booster Stations.
- Install repeaters throughout the water distribution region to improve the communication uptime between the remote sites and the Operational centers.
- Have started the upgrade for the Ovation system at Southwest WTP.
- Have started the design for the integration of the regulatory turbidity data at Northeast WTP into Ovation, currently this system is standalone and has no redundancy.
- Business network firewall upgrade.
- Pilot a SCADA head end.

#### SCC Division

- Develop and implement water distribution optimization strategy.
- Develop and implement real-time pump optimization.
- Implement use of hydraulic modeling for operations.
- Update Operations and Maintenance manuals for TWTS, WWCS and remote facilities.
- Continue to install power meters at major DWSD facilities.
- Develop and implement Electric Demand Management for Water Treatment Plant, Water Booster Stations, Wastewater Treatment Plant and Sewer Stations.
- Continue to retrofit lighting at all the DWSD facilities.

#### Information Technology Division

- Standardize project management methodology.
- Project Plan and Visual Representations for Server Consolidation Data Domain.
- Implementation of EMC Data replication.
- Server Consolidation.
- HP Data Protector and Data Domain Implementation.
- Re-engineer process and systems of: identity management, IT procurement, IT asset management.
- Develop Service Delivery Model.
- Standardize project management methodology.
- Support the replacement of EMPAC with Oracle WAM Software application.

## **WATER (41)**

### PLANNING FOR THE FUTURE FOR FY 2012-13, FY 2013-14 and BEYOND:

- Install additional repeaters throughout the water distribution region to improve the communications.
- Replace the core network switches department wide.
- Install and commission a new SCADA head end.
- Upgrade the 900 MHz radio network.
- Evaluate the existing control panels at the Pump Station and remote sites and confirm if these panels are in compliance with the revised regulatory and codes that apply to DWSD applications.
- Data Center Improvements.
- Evergreen process for Ovation Control System.
- Evergreen process for Schneider SCADAPak.
- Evergreen process for the Rockwell Automation.
- Plan for replacement of new computers department wide.
- Support the IVR project.
- Improvements to the three datacenters.



## WATER (41)

*INFORMATION TECHNOLOGY AND SYSTEMS INTEGRATION  
AND OPERATION MEASURES AND TARGETS*

<b>Type of Performance Measure:</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>
List of Measures	Actual	Actual	Projection	Target
<b>Outputs: Units of Activity directed toward Goals</b>				
Average Time to Resolve Help Desk Tickets	10	10	7 days	7 days
<b>Activity Costs</b>	<b>\$28,039,130</b>	<b>\$24,101,708</b>	<b>\$25,261,043</b>	<b>\$22,358,695</b>

**CITY OF DETROIT**  
**Water Department**  
**Financial Detail by Appropriation and Organization**

<b>Asst Dir - Info Tech &amp; Sys Integration &amp; O</b>	<b>2011-12 Redbook</b>		<b>2012-13 Dept Final Request</b>		<b>2012-13 Mayor's Budget Rec</b>	
	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>
<i>APPROPRIATION</i>						
<i>ORGANIZATION</i>						
12448 - Info Tech & Systems Integration & Organiz						
411011 - Asst Dir - Info Tech & Sys Integration	6	\$329,746	3	\$215,024	3	\$215,024
411014 - Geographic Information Systems (GIS)	3	\$378,807	2	\$127,262	2	\$127,262
411016 - Process Networks and SCADA System	23	\$1,913,315	15	\$1,223,971	15	\$1,223,971
411018 - Radio/SCADA Infrastructure Support	0	\$371,263	3	\$1,185,251	3	\$1,185,251
411115 - Information Systems Administrative Sr	49	\$3,322,853	34	\$2,227,007	34	\$2,227,007
411125 - Applications Support	0	\$118,664	0	\$132,500	0	\$132,500
411135 - Software Support	0	\$251,018	0	\$89,500	0	\$89,500
411145 - Hardware Support	0	\$786,483	0	\$806,000	0	\$806,000
411155 - Strategic Planning	0	\$27,384	0	\$41,250	0	\$41,250
411165 - Network Support	0	\$919,782	4	\$351,324	4	\$351,324
411285 - Systems Operations Control	34	\$2,741,781	21	\$3,474,560	21	\$3,474,560
411295 - Water Technical Services	7	\$759,975	5	\$895,416	5	\$895,416
411305 - Operational Services	9	\$378,549	6	\$309,546	6	\$309,546
411311 - Pumping Station - Ford Road	0	\$599,019	0	\$408,584	0	\$408,584
411316 - Pumping Station - Eastside	0	\$60,370	0	\$48,000	0	\$48,000
411321 - Pumping Station - Northwest	0	\$33,816	0	\$5,200	0	\$5,200
411326 - Pumping Station - West Service Cente	0	\$903,744	0	\$730,600	0	\$730,600
411331 - Pumping Station - Michigan Avenue	0	\$105,157	0	\$100,300	0	\$100,300
411336 - Pumping Station - West Chicago Road	0	\$62,968	0	\$36,700	0	\$36,700
411341 - Pumping Station - Electric Avenue	0	\$46,591	0	\$62,100	0	\$62,100
411346 - Pumping Station - Orion Township	0	\$69,887	0	\$100,700	0	\$100,700
411351 - Pumping Station - North Service Cent	0	\$2,360,000	0	\$2,630,700	0	\$2,630,700
411356 - Pumping Station - Adams Road	0	\$966,754	0	\$655,300	0	\$655,300
411361 - Pumping Station - Newburgh	0	\$440,166	0	\$339,900	0	\$339,900
411366 - Pumping Station - Franklin Road	0	\$1,017,910	0	\$1,124,200	0	\$1,124,200
411371 - Pumping Station - Roseville	0	\$11,479	0	\$46,100	0	\$46,100
411386 - Pumping Station - Wick Road	0	\$452,046	0	\$438,300	0	\$438,300
411391 - Pumping Station - Joy Road	0	\$662,300	0	\$702,800	0	\$702,800
411396 - Pumping Station - Schoolcraft	0	\$449,075	0	\$433,500	0	\$433,500
411401 - Pumping Station - Ypsilanti	0	\$409,808	0	\$306,900	0	\$306,900
411406 - Pumping Station - Imlay	0	\$3,970,196	0	\$2,719,200	0	\$2,719,200
411411 - Pumping Station - Rochester	0	\$116,460	0	\$184,700	0	\$184,700

**CITY OF DETROIT**  
**Water Department**  
**Financial Detail by Appropriation and Organization**

<b>Pumping Station - Haggerty Road</b>	<b>2011-12</b>		<b>2012-13</b>		<b>2012-13</b>	
	<b>Redbook</b>		<b>Dept Final</b>		<b>Mayor's</b>	
<b>Info Tech &amp; Systems Integration &amp; Org:</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>
<i>APPROPRIATION</i>						
<i>ORGANIZATION</i>						
12448 - Info Tech & Systems Integration & Organiz						
411416 - Pumping Station - Haggerty Road	0	\$223,677	0	\$206,300	0	\$206,300
<b>APPROPRIATION TOTAL</b>	<b>131</b>	<b>\$25,261,043</b>	<b>93</b>	<b>\$22,358,695</b>	<b>93</b>	<b>\$22,358,695</b>
<b>ACTIVITY TOTAL</b>	<b>131</b>	<b>\$25,261,043</b>	<b>93</b>	<b>\$22,358,695</b>	<b>93</b>	<b>\$22,358,695</b>

**CITY OF DETROIT**  
**Budget Development for FY 2012-2013**  
**Appropriations - Summary Objects**

	<b>2011-12 Redbook</b>	<b>2012-13 Dept Final Request</b>	<b>2012-13 Mayor's Budget Rec</b>
<b>AC3541 - IT &amp; Systems Integration - Water</b>			
<i>A41000 - Water Department</i>			
SALWAGESL - Salary & Wages	3,188,245	2,874,254	2,874,254
EMPBENESL - Employee Benef	2,584,841	2,165,465	2,164,544
PROFSVCSL - Professional/Cor	8,988,439	8,361,000	8,361,000
OPERSUPSL - Operating Suppli	3,858,117	3,139,790	3,139,790
OPERSVCSL - Operating Servic	13,022,212	11,493,421	11,493,421
OTHEXPSSL - Other Expenses	<b>(6,380,811)</b>	<b>(5,675,235)</b>	<b>(5,674,314)</b>
<i>A41000 - Water Department</i>	<i>25,261,043</i>	<i>22,358,695</i>	<i>22,358,695</i>
<b>AC3541 - IT &amp; Systems Integration - Water</b>	<b>25,261,043</b>	<b>22,358,695</b>	<b>22,358,695</b>
<b>Grand Total</b>	<b>25,261,043</b>	<b>22,358,695</b>	<b>22,358,695</b>

## **WATER (41)**

### ***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 multimedia, DWSD website, 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 Division 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 implement a comprehensive agency-wide reference source.
2. To ensure widespread internal knowledge of key messages and to develop a well informed employee base.
3. To educate and inform both retail and wholesale customers and the community about important DWSD projects, initiatives, and water issues.
4. To increase self-service delivery options to the retail customer base.
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. Additionally, several new processes will be introduced to improve the collectability of debt along with better monitoring and follow up on delinquent accounts. The division will also work with various mortgage and property management companies to reduce the wait time for water shut offs, in an effort to stem potential water wastage from vacant/foreclosed properties.
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.

## **WATER (41)**

### MAJOR INITIATIVES FOR FY 2011-12:

- Begin payment acceptance of debit/credit cards at customer service center locations.
- Ongoing development of information programs for new customer service benefits in order to increase customer satisfaction and reduce demands on customer service representatives and centers.
- Continue to raise awareness of DWSD assistance programs, including budget plan.
- Continue to build the library of online resources available to wholesale and retail customers to enhance communication and reduce demands on staff resources.
- Develop and launch special section for “green technologies,” on DWSD website.
- 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.
- Implement Google Language Translator and Search Engine on the DWSD website.
- Develop a "Storm Water" page for DWSD website to educate and explain to customers the "drainage charge on their water and sewer bills and why it is so important to manage storm water.
- Continue relationship with wholesale customers through established partnerships set up through the DWSD Technical Advisory Committee (TAC) and the Steering Committee (SC).
- Update strategic communication initiatives to proactively address issues arising from a new state administration, reconfigured BOWC, new director's leadership goals.
- Support all planned customer service improvements through direct customer communication and education, direct mailings, and video streaming library on DWSD website.
- Implement Bill to Name procedures to place actual owner/occupant name on all accounts.
- Improve the collectability of debt through modifications to business practices to capture and maintain customer information.
- Implement Storm Water Drainage Module to enhance billing along with having the Customer Billing and Management System (CBMS) mirror the Geographic Information System (GIS) parcel information to insure all accounts, within the City of Detroit, are billed the appropriate Storm Water Drainage Charges.
- Implement the Landlord Tenant Module, which is designed to better manage Landlord Tenant Agreements with payment compliance monitoring. Non-compliance will result in the Landlord Tenant Agreement being defaulted.
- Reduce the number of accounts referred to the City of Detroit Treasurer.
- Evaluate and award contract CS 1507 Enhanced Collection Services.
- Evaluate and award contract CS-1501 Interactive Voice Response Unit (IVR).
- Implement Customer Billing and Management System Upgrade (enQuesta Version 4) Go-Live November 2012.
- Implement security recommendations contained in the June 2010 KPMG Audit to the Customer Billing and Management System (CBMS).
- Address water wastage at vacant properties by reducing the wait time to discontinue service.
- Upgrade the Work Force Management System (WFMS), ServiceLink to version 5.2.

### PLANNING FOR THE FUTURE FOR FY 2012-13, FY 2013-14 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 areas and develop communication tools and materials to address questions and reduce demands on customer service resources.
- Evaluate the effectiveness of internal Mail Operations and look at potential alternative mailing solutions.

## **WATER (41)**

- Upgrade the Wholesale Automatic Meter Read head-end to enhance the data packet processing.
- Upgrade the SCADA radio network to increase the read reliability and to increase the bandwidth from current 9600 baud rate to 19.2 kbps.

## WATER (41)

### *PUBLIC AFFAIRS MEASURES AND TARGETS*

<b>Type of Performance Measure:</b> List of Measures	<b>2009-10</b> <b>Actual</b>	<b>2010-11</b> <b>Actual</b>	<b>2011-12</b> <b>Projection</b>	<b>2012-13</b> <b>Target</b>
<b>Inputs: Resources Allocated or Service Demands Made</b>				
Wholesale Meter Replacement	10	10	15	15
Commercial/Industrial Meter Replacement (System Total – 16,000)	4,000	50	50	50
Residential Meter Replacement (System Total 260,000)	80,000	15,000	15,000	15,000
<b>Activity Costs</b>	<b>\$16,522,971</b>	<b>\$12,941,598</b>	<b>\$12,787,281</b>	<b>\$13,449,903</b>



**CITY OF DETROIT**  
**Water Department**  
**Financial Detail by Appropriation and Organization**

Office of the Assistant Director -Public Af Public Affairs Group - Water	2011-12 Redbook		2012-13 Dept Final Request		2012-13 Mayor's Budget Rec	
	FTE	AMOUNT	FTE	AMOUNT	FTE	AMOUNT
<i>APPROPRIATION ORGANIZATION</i>						
12758 - Public Affairs Group - Water						
411021 - Office of the Assistant Director -Public	25	\$737,903	19	\$746,825	19	\$746,825
411211 - Customer Outreach	0	\$0	0	\$522,500	0	\$522,500
411221 - Commercial Operations	184	\$5,951,113	158	\$5,855,038	158	\$5,855,038
411226 - Customer Billing	0	\$993,702	0	\$844,600	0	\$844,600
411231 - Customer Service - Detroit	0	\$40,915	0	\$44,935	0	\$44,935
411236 - Collections	0	\$341,629	0	\$223,073	0	\$223,073
411241 - Addressograph	0	\$960,543	0	\$974,740	0	\$974,740
411246 - Meter Reading	0	\$25,246	0	\$9,000	0	\$9,000
411251 - Meter Operations	87	\$2,583,454	64	\$2,936,640	64	\$2,936,640
411256 - Meter Records	0	\$14,711	0	\$14,711	0	\$14,711
411261 - Meter Shop	0	\$222,295	0	\$250,472	0	\$250,472
411266 - Meter Instrumentation Shop	0	\$915,770	0	\$1,027,369	0	\$1,027,369
<b>APPROPRIATION TOTAL</b>	<b>296</b>	<b>\$12,787,281</b>	<b>241</b>	<b>\$13,449,903</b>	<b>241</b>	<b>\$13,449,903</b>
<b>ACTIVITY TOTAL</b>	<b>296</b>	<b>\$12,787,281</b>	<b>241</b>	<b>\$13,449,903</b>	<b>241</b>	<b>\$13,449,903</b>

**CITY OF DETROIT**  
**Budget Development for FY 2012-2013**  
**Appropriations - Summary Objects**

	2011-12 Redbook	2012-13 Dept Final Request	2012-13 Mayor's Budget Rec
<b>AC4041 - Public Affairs Group - Water</b>			
<i>A41000 - Water Department</i>			
SALWAGESL - Salary & Wages	4,998,763	5,344,150	5,344,150
EMPBENESL - Employee Benef	4,103,516	4,026,280	4,029,293
PROFSVCSL - Professional/Cor	4,235,994	4,873,200	4,873,200
OPERSUPSL - Operating Suppli	662,885	662,207	662,207
OPERSVCSL - Operating Servic	2,056,966	2,169,251	2,169,251
CAPOUTLSL - Capital Outlays/In	1,518	1,518	1,518
OTHEXPSSL - Other Expenses	(3,272,361)	(3,626,703)	(3,629,716)
<i>A41000 - Water Department</i>	12,787,281	13,449,903	13,449,903
<b>AC4041 - Public Affairs Group - Water</b>	<b>12,787,281</b>	<b>13,449,903</b>	<b>13,449,903</b>
<b>Grand Total</b>	<b>12,787,281</b>	<b>13,449,903</b>	<b>13,449,903</b>

## **WATER (41)**

### ***PROCESS AND QUALITY CONTROL ACTIVITY INFORMATION***

#### **ACTIVITY DESCRIPTION: PROCESS AND QUALITY CONTROL GROUP**

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, Safety Section and Training and Education Section. In addition, this Division functions as the liaison between the department and the Human Resources Department.

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 **Safety Section** plans and develops Department wide safety programs and safety training for employees; investigates safety problems and issues; enforces Michigan Occupational Safety & Health Administration (MIOSHA) safety standards; manages job injury processes and payments; 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, schedules and delivers training courses 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. Coordination of contractual training for employees is also housed in this section.

#### **GOALS:**

1. To engage in the departmental efforts to carry out the extensive roadmap outlined in the November 4, 2011 Federal court Orders in an effective, efficient and timely manner, in order to reach and sustain compliance with the National permit.

#### **MAJOR INITIATIVES FOR FY 2011-2012:**

- 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.
- Work with the transition team to stand up a DWSD Human Resources Service Unit within DWSD.
- Work with the transition team and unions to develop an employee evaluation tool, apprenticeship program and training program.
- Work with transition team on job designs, classifications, compensations work rules, succession and progression planning.

**CITY OF DETROIT**  
**Water Department**  
**Financial Detail by Appropriation and Organization**

<b>Document Management</b>	<b>2011-12</b>		<b>2012-13</b>		<b>2012-13</b>	
	<b>Redbook</b>		<b>Dept Final</b>		<b>Mayor's</b>	
<b>Process and Quality Control Group</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>
<i>APPROPRIATION</i>						
<i>ORGANIZATION</i>						
13314 - Process and Quality Control Group						
411031 - Document Management	0	\$127,790	0	\$135,227	0	\$135,227
411066 - Training	0	\$171,131	0	\$306,792	0	\$306,792
411071 - Safety	0	\$182,984	0	\$266,378	0	\$266,378
411091 - Environmental and Regulatory Affairs	0	\$815,113	0	\$628,293	0	\$628,293
<b>APPROPRIATION TOTAL</b>	<b>0</b>	<b>\$1,297,018</b>	<b>0</b>	<b>\$1,336,690</b>	<b>0</b>	<b>\$1,336,690</b>
<b>ACTIVITY TOTAL</b>	<b>0</b>	<b>\$1,297,018</b>	<b>0</b>	<b>\$1,336,690</b>	<b>0</b>	<b>\$1,336,690</b>

**CITY OF DETROIT**  
**Budget Development for FY 2012-2013**  
**Appropriations - Summary Objects**

	<b>2011-12 Redbook</b>	<b>2012-13 Dept Final Request</b>	<b>2012-13 Mayor's Budget Rec</b>
<b>AC4541 - Process and Quality Control Service</b>			
<i>A41000 - Water Department</i>			
SALWAGESL - Salary & Wages	451,069	481,344	481,344
EMPBENESL - Employee Benef	337,371	360,479	360,479
OTHEXPSSL - Other Expenses	508,578	494,867	494,867
<i>A41000 - Water Department</i>	<i>1,297,018</i>	<i>1,336,690</i>	<i>1,336,690</i>
<b>AC4541 - Process and Quality Control Ser</b>	<b>1,297,018</b>	<b>1,336,690</b>	<b>1,336,690</b>
<b>Grand Total</b>	<b>1,297,018</b>	<b>1,336,690</b>	<b>1,336,690</b>

**CITY OF DETROIT**  
**Budget Development for FY 2012-2013**  
**Appropriation Summary - Revenues**

	2010-11 Actuals	2011-12 Redbook	2012-13 Dept Final Request	2012-13 Mayor's Budget Rec	Variance
<b>A41000 - Water Department</b>					
<i>00085 - Administration</i>					
522125 - Swap Termination Fee	91,623	0	0	0	0
<i>00085 - Administration</i>	<i>91,623</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>00758 - Water Bond Reserve</i>					
461100 - Earnings On Investmer	1,587,402	0	0	0	0
461101 - Unrealized Gain	118,350	0	0	0	0
472150 - Other Miscellaneous	333,067	0	0	0	0
<i>00758 - Water Bond Reserve</i>	<i>2,038,819</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>04826 - Revenue - Water Receiving</i>					
441100 - Other Labors and Mate	285,320	600,000	600,000	600,000	0
441110 - Other Lbr & Matl Meter	311,868	0	0	0	0
447210 - Water Sales - Retail	62,479,494	87,486,100	97,647,100	97,647,100	10,161,000
447215 - Water Sales - Wholesa	237,099,865	283,704,700	288,738,900	288,738,900	5,034,200
447300 - Other Utility Revenue	21,307,102	0	0	0	0
448115 - Other Fees	95,405	2,900,000	2,950,000	2,950,000	50,000
448170 - Other Fee-Shut Off-Tui	161,778	0	0	0	0
448190 - Illegal Turn on Penalty	105,433	0	0	0	0
448195 - Service Disconnection	2,021,030	0	0	0	0
461100 - Earnings On Investmer	7,035	282,600	121,750	121,750	(160,850)
462241 - Rent of Building and Sp	94,418	0	0	0	0
464100 - Sales Of City Real Proj	63,123	0	0	0	0
471905 - Contributed Revenue	211,745	0	0	0	0
472100 - Other Forfeits And Pen	112,618	0	0	0	0
472117 - Late Payment Fee	999,311	0	0	0	0
472150 - Other Miscellaneous	1,118,320	0	0	0	0
472220 - Ng Check Service Cha	43,160	0	0	0	0
472255 - Sale Of Equipment	115,930	0	0	0	0
472260 - Sale Of Equipment - M	19,112	0	0	0	0
474100 - Miscellaneous Receipts	249,035	250,040	1,212,155	1,212,155	962,115
474130 - Misc Recpts-Cash Ove	6,924	0	0	0	0
<i>04826 - Revenue - Water Receiving</i>	<i>326,908,026</i>	<i>375,223,440</i>	<i>391,269,905</i>	<i>391,269,905</i>	<i>16,046,465</i>
<i>04827 - Revenue - Water Operation -Maintenance</i>					
461100 - Earnings On Investmer	142,527	282,600	121,750	121,750	(160,850)
472150 - Other Miscellaneous	43,848	0	0	0	0
<i>04827 - Revenue - Water Operation -I</i>	<i>186,375</i>	<i>282,600</i>	<i>121,750</i>	<i>121,750</i>	<i>(160,850)</i>
<i>00163 - Debt Service and Maintenance</i>					
461100 - Earnings On Investmer	0	5,080,700	1,190,300	1,190,300	(3,890,400)

**CITY OF DETROIT**  
**Budget Development for FY 2012-2013**  
**Appropriation Summary - Revenues**

	2010-11 Actuals	2011-12 Redbook	2012-13 Dept Final Request	2012-13 Mayor's Budget Rec	Variance
<b>A41000 - Water Department</b>					
<i>00163 - Debt Service and Maintenance</i>					
461175 - Change in Fair Value o	21,216,407	0	0	0	0
<i>00163 - Debt Service and Maintenanc</i>	<i>21,216,407</i>	<i>5,080,700</i>	<i>1,190,300</i>	<i>1,190,300</i>	<i>(3,890,400)</i>
<i>00164 - Water System Improvements</i>					
461100 - Earnings On Investmer	104,259	246,500	247,800	247,800	1,300
461101 - Unrealized Gain	8,925	0	0	0	0
<i>00164 - Water System Improvements</i>	<i>113,184</i>	<i>246,500</i>	<i>247,800</i>	<i>247,800</i>	<i>1,300</i>
<i>00583 - Water Extraordinary Repair and Replac</i>					
461100 - Earnings On Investmer	230,407	982,200	244,400	244,400	(737,800)
461101 - Unrealized Gain	52,860	0	0	0	0
<i>00583 - Water Extraordinary Repair a</i>	<i>283,267</i>	<i>982,200</i>	<i>244,400</i>	<i>244,400</i>	<i>(737,800)</i>
<i>11487 - Water Bond Fund Series 2005</i>					
461100 - Earnings On Investmer	178,290	0	0	0	0
461101 - Unrealized Gain	107,020	0	0	0	0
<i>11487 - Water Bond Fund Series 200:</i>	<i>285,310</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>11922 - Water Second Lien Bond Reserve Fund</i>					
461100 - Earnings On Investmer	253,889	0	0	0	0
461101 - Unrealized Gain	15,400	0	0	0	0
<i>11922 - Water Second Lien Bond Res</i>	<i>269,289</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>12101 - Drinking Water Revolving Fund</i>					
461100 - Earnings On Investmer	9,315	0	0	0	0
<i>12101 - Drinking Water Revolving Fur</i>	<i>9,315</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>12140 - Water Bond Fund Series 2007</i>					
461100 - Earnings On Investmer	229,156	4,139,500	818,100	818,100	(3,321,400)
461101 - Unrealized Gain	4,260	0	0	0	0
522100 - Sale Of Bonds	0	300,000,000	0	0	300,000,000)
<i>12140 - Water Bond Fund Series 200:</i>	<i>233,416</i>	<i>304,139,500</i>	<i>818,100</i>	<i>818,100</i>	<i>(303,321,400)</i>
<b>A41000 - Water Department</b>	<b>351,635,031</b>	<b>685,954,940</b>	<b>393,892,255</b>	<b>393,892,255</b>	<b>(292,062,685)</b>
<b>Grand Total</b>	<b>351,635,031</b>	<b>685,954,940</b>	<b>393,892,255</b>	<b>393,892,255</b>	<b>(292,062,685)</b>

**CITY OF DETROIT  
MAYOR'S 2012-2013 RECOMMENDED BUDGET**

**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2011	2012 FTE	FY 2012	2013 FTE	2012	2013 FTE
Classification						
<b>00085 - Administration</b>						
<b>411010 - Office of the Director</b>						
Director - DWSD	1		1		1	
Deputy Director - DWSD	1		1		1	
Admin Asst GD III - DWSD	1		0		0	
Executive Secretary III	1		1		1	
Executive Secretary II	2		2		2	
	<u>6</u>		<u>5</u>		<u>5</u>	
<b>Total Office of the Director</b>						
<b>411080 - Security</b>						
Chief DWSD Security Administr	1		1		1	
Asst Chief-DWSD Security-Admin	1		1		1	
Sprv Srve Guard - GD II	4		3		3	
Sprv Srve Guard - GD I	5		4		4	
Security Specialist	12		11		11	
Sr Governmental Analyst	1		1		1	
Senior Clerk	1		1		1	
Senior Stenographer	1		0		0	
Office Assistant II	1		1		1	
Clerk	1		1		1	
Senior Service Guard - Water	12		10		10	
Service Guard - Public Utility	90		85		85	
	<u>130</u>		<u>119</u>		<u>119</u>	
<b>Total Security</b>						
<b>411200 - Contracts and Grants</b>						
General Manager - DWSD	1		1		1	
Principal Governmental Analyst	4		4		4	
Sr Governmental Analyst	14		9		9	
Principal Clerk	1		1		1	
Office Assistant III	5		3		3	
Manager II - DWSD	2		1		1	
	<u>27</u>		<u>19</u>		<u>19</u>	
<b>Total Contracts and Grants</b>						
<b>Total Administration</b>	<u>163</u>		<u>143</u>		<u>143</u>	



**CITY OF DETROIT  
MAYOR'S 2012-2013 RECOMMENDED BUDGET**

**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2011	2012 FTE	FY 2012	2013 FTE	2012	2013 FTE
Classification						
<b>00086 - Financial Services Group</b>						
<b>412010 - Office of Assistant Director of Fina</b>						
Asst Director-DWSD Admin Sup	1		1		1	
Office Management Assistant	1		1		1	
<b>Total Office of Assistant Director of Financial</b>	<b>2</b>		<b>2</b>		<b>2</b>	
<b>412020 - Financial Administrative Services</b>						
Manager II - DWSD	1		0		0	
Manager I - DWSD	2		2		2	
Bus Sys Support Specialist I	1		1		1	
Senior Auditor	1		1		1	
Principal Governmental Analyst	1		0		0	
Sr Governmental Analyst	2		1		1	
Principal Budget Analyst	0		1		1	
<b>Total Financial Administrative Services</b>	<b>8</b>		<b>6</b>		<b>6</b>	
<b>412080 - General Accounting Administrative</b>						
Manager II - DWSD	1		1		1	
Manager I - DWSD	3		2		2	
Administrative Specialist I	1		1		1	
Principal Accountant	4		2		2	
Senior Accountant	16		15		15	
Senior Bookkeeper	1		1		1	
Head Clerk	2		1		1	
Principal Clerk	6		6		6	
Senior Voucher Audit Clerk	6		6		6	
Senior Clerk	4		4		4	
Senior Teller	13		13		13	
Office Assistant II	1		0		0	
<b>Total General Accounting Administrative Ser</b>	<b>58</b>		<b>52</b>		<b>52</b>	
<b>412130 - CBMS Support</b>						
Info Tech Client Supp Asst	0		1		1	
Bus Sys Support Splst I - DWSD	0		2		2	
Bus Sys Supp Splst II - DWSD	0		1		1	

**CITY OF DETROIT  
MAYOR'S 2012-2013 RECOMMENDED BUDGET**

**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2011	2012 FTE	FY 2012	2013 FTE	2012	2013 FTE
Classification						
<b>00086 - Financial Services Group</b>						
<b>412130 - CBMS Support</b>						
Manager I - DWSD	0		1		1	
<b>Total CBMS Support</b>	<b>0</b>		<b>5</b>		<b>5</b>	
<b>412220 - Purchasing</b>						
Manager II - DWSD	1		1		1	
Admin Asst GD III	1		1		1	
Principal Purchases Agent	1		1		1	
Purchases Agent III	9		9		9	
Purchasing Assistant	3		2		2	
Head Clerk	1		1		1	
Principal Clerk	1		1		1	
Senior Clerk	2		2		2	
<b>Total Purchasing</b>	<b>19</b>		<b>18</b>		<b>18</b>	
<b>412230 - Material Management</b>						
Manager II - DWSD	1		1		1	
Head Governmental Analyst	1		1		1	
Manager I - DWSD	1		1		1	
Stores Operations Supervisor	3		2		2	
Head Storekeeper	4		3		3	
Senior Storekeeper	11		10		10	
Storekeeper	26		23		23	
Principal Governmental Analyst	1		1		1	
Sr Governmental Analyst	6		6		6	
Principal Clerk	2		1		1	
Senior Clerk	3		1		1	
Head Clerk	1		1		1	
Delivery - Driver	3		3		3	
<b>Total Material Management</b>	<b>63</b>		<b>54</b>		<b>54</b>	
<b>Total Financial Services Group</b>	<b>150</b>		<b>137</b>		<b>137</b>	

**CITY OF DETROIT**  
**MAYOR'S 2012-2013 RECOMMENDED BUDGET**

**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2011	2012 FTE	FY 2012	2013 FTE	2012	2013 FTE
Classification						
<b>00087 - Asset Maintenance Group</b>						
<b>414010 - Office of Assistant Director Asset I</b>						
Asst Dir of DWSD - Asset Maint	1		1		1	
Asst Director-DWSD Admin Sup	1		0		0	
Manager II - DWSD	1		0		0	
Manager I - DWSD	2		3		3	
Head Eng - Water Sys-Operation	1		0		0	
Office Management Assistant	1		1		1	
Sr Asst Civil Eng - Design	3		1		1	
Eng Support Specialist II	2		0		0	
Sr Construction Inspector	1		3		3	
Head Eng - Water Sys - Design	1		0		0	
Sr Asst Civil Eng - Wastewater	1		0		0	
Sr Assoc Elect Eng - Design	1		0		0	
Prin Construct Inspector-DWSD	1		1		1	
Associate Civil Eng - Design	1		0		0	
General Manager - DWSD	0		1		1	
Construction Inspector	0		1		1	
<b>Total Office of Assistant Director Asset Main</b>	<b>18</b>		<b>12</b>		<b>12</b>	
<b>414130 - Mechanical Operations Administra</b>						
Sr Sprv of Mechanical Maint	1		1		1	
Manager II - DWSD	1		1		1	
Super of Plant Bldg & Mech Mai	1		1		1	
Sr Assoc Mech Eng - Operation	1		1		1	
Sr Assoc Elect Eng - Waste	1		0		0	
Assoc Elect Eng - Design	1		0		0	
Head Clerk	1		1		1	
Senior Clerk	3		1		1	
Office Assistant III	2		2		2	
Office Assistant II	3		3		3	
Clerk	1		0		0	
Plant Maintenance Sr Foreman	3		2		2	
Plant Maintenance Foreman	7		5		5	

**CITY OF DETROIT  
MAYOR'S 2012-2013 RECOMMENDED BUDGET**

**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2011	2012 FTE	FY 2012	2013 FTE	2012	2013 FTE
Classification						
<b>00087 - Asset Maintenance Group</b>						
<b>    414130 - Mechanical Operations Administra</b>						
Plant Maintenance Sub-Foreman	7		6		6	
Plant Maintenance Mechanic	9		5		5	
Elect Worker Foreman	1		1		1	
Elect Worker Sub-Foreman	3		2		2	
Elect Worker - General	17		15		15	
Elect Repair Worker - General	1		1		1	
Sr Auto Repair Foreman	1		1		1	
Auto Repair Foreman	10		8		8	
General Auto Mechanic	53		50		50	
Auto Repair Helper	2		1		1	
Park Maintenance Sprv -GD II	1		1		1	
Park Maintenance Foreman	2		1		1	
Park Maintenance Sub-Foreman	2		2		2	
Park Maintenance Worker	9		4		4	
Park Maintenance Helper	7		6		6	
Preventive Maintenance Coord	1		0		0	
Machinist Sub-Foreman	1		1		1	
General Machinist	4		3		3	
General Blacksmith	2		1		1	
Carpenter Foreman	1		1		1	
Finish Carpenter	4		3		3	
Painter Foreman	1		1		1	
Finish Painter	9		9		9	
Plumber	1		1		1	
Maintenance Millwright	9		9		9	
General Welder	3		3		3	
Sheet Metal Worker	2		2		2	
Water Systems Equip Mechanic	2		1		1	
Repair Mechanic	2		2		2	
Mechanical Helper	8		5		5	
Supervising Bldg Attendant II	1		1		1	

**CITY OF DETROIT  
MAYOR'S 2012-2013 RECOMMENDED BUDGET**

**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2011	2012 FTE	FY 2012	2013 FTE	2012	2013 FTE
Classification						
<b>00087 - Asset Maintenance Group</b>						
<b>414130 - Mechanical Operations Administra</b>						
Supervising Bldg Attendant I	2		1		1	
Building Attendant A	19		16		16	
Bldg Trades Worker-Gen	3		2		2	
Building Trades Helper	3		1		1	
Vehicle Operator I	2		1		1	
Delivery - Driver	1		1		1	
Carpenter Apprentice	1		1		1	
Plumber Apprentice	1		1		1	
Sheet Metal Apprentice	1		1		1	
Maint Millwright Apprentice	1		0		0	
<b>Total Mechanical Operations Administration</b>	<b>236</b>		<b>190</b>		<b>190</b>	
<b>414200 - Water Board Building</b>						
Bldg and Grds Maint Sprv	1		1		1	
Bldg Oper Sprv - Grade II	1		1		1	
Supervising Bldg Attendant II	1		1		1	
Supervising Bldg Attendant I	1		1		1	
Senior Building Attendant	1		1		1	
Building Operator I	2		2		2	
Building Attendant A	22		16		16	
Elect Worker - General	2		1		1	
Elevator Mechanic	3		2		2	
Garage Attendant	2		1		1	
Senior Clerk	1		1		1	
<b>Total Water Board Building</b>	<b>37</b>		<b>28</b>		<b>28</b>	
<b>414240 - Maintenance and Repair 2004</b>						
Admin Asst GD II - DWSD	1		1		1	
Super-Water Sys Maint & Const	1		1		1	
Asst Super Water Sys Maint	1		1		1	
Sprv of Water Sys Maint	2		2		2	
Asst Sprv Water Sys Maint	6		6		6	
Sr Water Sys Maint Dispatcher	1		1		1	

**CITY OF DETROIT  
MAYOR'S 2012-2013 RECOMMENDED BUDGET**

**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2011	2012 FTE	FY 2012	2013 FTE	2012	2013 FTE
Classification						
<b>00087 - Asset Maintenance Group</b>						
<b>414240 - Maintenance and Repair 2004</b>						
Water Sys Maint Dispatcher	16		12		12	
Drafting Technician II	1		1		1	
Water Systems Foreman	18		18		18	
Sr Water Systems Mechanic	40		40		40	
Water Systems Mechanic	95		95		95	
Water Systems Repair Worker	89		89		89	
Telecomm Center Sprv - DWSD	1		1		1	
Construction Equip Foreman	1		1		1	
Construction Equip Operator	15		13		13	
Office Management Assistant	1		0		0	
Service Information Clerk	9		9		9	
Principal Clerk	1		1		1	
Bricklayer	5		5		5	
Master Plumber	1		1		1	
Plumber	4		4		4	
Senior Clerk	6		5		5	
Clerk	2		1		1	
Vehicle Operator III	10		9		9	
Vehicle Operator I	15		13		13	
Sewer Inspector - Video Equip	2		2		2	
Prin Construct Inspector-DWSD	2		2		2	
Sr Construction Inspector	1		1		1	
Construction Inspector	1		1		1	
Sewer Safety Inspector	2		0		0	
Asst Sewer Safety Inspector	2		1		1	
Sewer Safety Helper	2		2		2	
Head Governmental Analyst	1		0		0	
<b>Total Maintenance and Repair 2004</b>	<b>355</b>		<b>339</b>		<b>339</b>	

**CITY OF DETROIT  
MAYOR'S 2012-2013 RECOMMENDED BUDGET**

**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2011	2012 FTE	FY 2012	2013 FTE	2012	2013 FTE
Classification						
<b>00087 - Asset Maintenance Group</b>						
<b>414360 - Central Service Facility</b>						
Bldg Opers Sprv Central Servic	1		0		0	
<b>Total Central Service Facility</b>	<b>1</b>		<b>0</b>		<b>0</b>	
<b>Total Asset Maintenance Group</b>	<b>647</b>		<b>569</b>		<b>569</b>	
<b>00088 - Water Operations Group</b>						
<b>415010 - Office of Assistant Director of Water Operations</b>						
Asst Dir -DWSD Water Supply Op	1		1		1	
Water Production&Operation Mgr	1		1		1	
Admin Asst GD II - DWSD	2		1		1	
Office Management Assistant	1		0		0	
Clerk	1		0		0	
Superintendent of Eng - DWSD	0		1		1	
<b>Total Office of Assistant Director of Water Operations</b>	<b>6</b>		<b>4</b>		<b>4</b>	
<b>415020 - Water Works Park</b>						
Water Treatment Plant Manager	1		1		1	
Sprv Filtration	1		1		1	
Plant Maintenance Foreman	1		1		1	
Plant Maintenance Sub-Foreman	1		1		1	
Head Water Plant Operator	5		4		4	
Sr Water Plant Operator	4		4		4	
Water Plant Operator	9		9		9	
Water Sys Cntrl Instr Tech	1		0		0	
Elect Worker - General	1		1		1	
Elect Repair Worker - General	1		0		0	
Senior Water Systems Chemist	5		4		4	
Water Systems Chemist	5		5		5	
Sr Water Sys Lab Technician	1		0		0	
Plant Maintenance Mechanic	3		4		4	
Repair Mechanic	2		2		2	
Mechanical Helper	4		0		0	
Electrical Helper	1		0		0	

**CITY OF DETROIT  
MAYOR'S 2012-2013 RECOMMENDED BUDGET**

**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2011	2012 FTE	FY 2012	2013 FTE	2012	2013 FTE
Classification						
<b>00088 - Water Operations Group</b>						
<b>415020 - Water Works Park</b>						
Principal Clerk	1		0		0	
<b>Total Water Works Park</b>	<b>47</b>		<b>37</b>		<b>37</b>	
<b>415030 - Springwells Plant</b>						
Water Treatment Plant Manager	1		1		1	
Sprv Filtration	1		1		1	
Plant Maintenance Foreman	1		1		1	
Plant Maintenance Sub-Foreman	1		1		1	
Plant Maintenance Mechanic	5		4		4	
Repair Mechanic	5		2		2	
Water Sys Cntrl Instr Tech	1		1		1	
Senior Water Systems Chemist	5		5		5	
Water Systems Chemist	5		4		4	
Head Water Plant Operator	5		4		4	
Sr Water Plant Operator	5		5		5	
Water Plant Operator	9		7		7	
Water Plant Attendant	5		5		5	
Elect Worker - General	1		1		1	
Elect Repair Worker - General	2		0		0	
Electrical Helper	1		0		0	
Senior Clerk	1		0		0	
<b>Total Springwells Plant</b>	<b>54</b>		<b>42</b>		<b>42</b>	
<b>415040 - Northeast Plant</b>						
Water Treatment Plant Manager	1		1		1	
Sprv Filtration	1		1		1	
Plant Maintenance Foreman	1		1		1	
Plant Maintenance Sub-Foreman	1		1		1	
Plant Maintenance Mechanic	4		4		4	
Senior Water Systems Chemist	6		4		4	
Water Sys Cntrl Instr Tech	1		1		1	
Head Water Plant Operator	4		3		3	
Water Plant Operator	6		6		6	



**CITY OF DETROIT  
MAYOR'S 2012-2013 RECOMMENDED BUDGET**

**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2011	2012 FTE	FY 2012	2013 FTE	2012	2013 FTE
Classification						
<b>00088 - Water Operations Group</b>						
<b>415040 - Northeast Plant</b>						
Elect Worker - General	1		1		1	
Elect Repair Worker - General	1		1		1	
Electrical Helper	1		0		0	
Repair Mechanic	1		1		1	
Principal Clerk	1		1		1	
Sr Water Plant Operator	0		2		2	
<b>Total Northeast Plant</b>	<b>30</b>		<b>28</b>		<b>28</b>	
<b>415050 - Southwest Plant</b>						
Water Treatment Plant Manager	1		1		1	
Head Water Plant Operator	1		1		1	
Sr Water Plant Operator	5		4		4	
Water Plant Operator	5		4		4	
Plant Maintenance Foreman	1		1		1	
Plant Maintenance Sub-Foreman	1		1		1	
Plant Maintenance Mechanic	2		2		2	
Senior Water Systems Chemist	5		4		4	
Sprv Filtration	1		1		1	
Water Sys Cntrl Instr Tech	1		0		0	
Elect Worker - General	1		1		1	
Elect Repair Worker - General	1		1		1	
Repair Mechanic	2		2		2	
Plumber	1		1		1	
Mechanical Helper	2		2		2	
Senior Clerk	1		0		0	
<b>Total Southwest Plant</b>	<b>31</b>		<b>26</b>		<b>26</b>	
<b>415060 - Lake Huron Plant</b>						
Water Treatment Plant Manager	1		1		1	
Sprv Filtration	1		1		1	
Plant Maintenance Foreman	1		1		1	
Elect Worker - General	2		2		2	
Plant Maintenance Sub-Foreman	1		1		1	

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**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2011	2012 FTE	FY 2012	2013 FTE	2012	2013 FTE
Classification						
<b>00088 - Water Operations Group</b>						
<b>415060 - Lake Huron Plant</b>						
Senior Water Systems Chemist	5		5		5	
Head Water Plant Operator	4		3		3	
Repair Mechanic	2		2		2	
Water Sys Cntrl Instr Tech	1		1		1	
Water Plant Operator	5		5		5	
Mechanical Helper	1		1		1	
General Auto Mechanic	1		1		1	
Plant Maintenance Mechanic	3		3		3	
Principal Clerk	1		1		1	
<b>Total Lake Huron Plant</b>	<b>29</b>		<b>28</b>		<b>28</b>	
<b>415390 - Water Quality</b>						
Water/Wastewater Sys Maint Eng	1		0		0	
Water Production&Operation Mgr	1		1		1	
Principal Analytical Chemist	1		1		1	
Senior Analytical Chemist	2		1		1	
Analytical Chemist	1		1		1	
Microbiologist	1		1		1	
Sr Water Distrib Sys Investiga	1		1		1	
Water Systems Investigator	5		5		5	
Sprv of Indust Waste Control	0		1		1	
<b>Total Water Quality</b>	<b>13</b>		<b>12</b>		<b>12</b>	
<b>Total Water Operations Group</b>	<b>210</b>		<b>177</b>		<b>177</b>	
<b>05817 - Engineering Services - Water</b>						
<b>413010 - Office of Assistant Director of Engi</b>						
Asst Dir-Water Resources-Eng	1		0		0	
<b>Total Office of Assistant Director of Engineer</b>	<b>1</b>		<b>0</b>		<b>0</b>	
<b>413020 - Engineering Administrative Suppo</b>						
Manager II - DWSD	1		0		0	
Manager I - DWSD	1		0		0	
Sr Governmental Analyst	1		1		1	

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**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2011	2012 FTE	FY 2012	2013 FTE	2012	2013 FTE
Classification						
<b>05817 - Engineering Services - Water</b>						
<b>413020 - Engineering Administrative Suppo</b>						
Head Eng - Water Sys - Design	3		1		1	
Head Civil Eng - Field	1		0		0	
Engineer of Water Systems	4		0		0	
Field Engineer	1		0		0	
Senior Associate Architect	1		0		0	
Sr Assoc Elect Eng - Design	2		1		1	
Sr Assoc Civil Eng - Design	8		3		3	
Sr Assoc Mech Eng - Design	3		1		1	
Assoc Architectural Engineer	2		0		0	
Associate Civil Eng - Design	5		3		3	
Assoc Elect Eng - Design	5		2		2	
Assoc Mech Eng - Design	3		2		2	
Sr Asst Civil Eng - Design	9		7		7	
Sr Asst Elect Eng - Design	2		0		0	
Assistant Civil Engineer	1		1		1	
Assistant Electrical Engineer	1		0		0	
Administrative Specialist I	1		1		1	
Drafting Technician IV	1		0		0	
Drafting Technician III	10		0		0	
Principal Governmental Analyst	1		0		0	
Principal Clerk	1		0		0	
Head Constr Inspector - DWSD	1		0		0	
Prin Construct Inspector-DWSD	6		0		0	
Sr Construction Inspector	24		2		2	
Construction Inspector	1		0		0	
Supervising Survey Technician	1		0		0	
Associate Surveyor	1		0		0	
Survey Technician	1		0		0	
Eng Support Specialist II	3		2		2	
Eng Support Specialist I	1		1		1	
Office Assistant III	3		1		1	

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**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2011	2012 FTE	FY 2012	2013 FTE	2012	2013 FTE
Classification						
<b>05817 - Engineering Services - Water</b>						
<b>413020 - Engineering Administrative Support</b>						
Senior Clerk	5		1		1	
Office Assistant II	2		0		0	
Clerk	2		0		0	
<b>Total Engineering Administrative Support</b>	<b>119</b>		<b>30</b>		<b>30</b>	
<b>413030 - Field Engineering Group</b>						
Head Constr Inspector - DWSD	0		1		1	
Prin Construct Inspector-DWSD	0		6		6	
Sr Construction Inspector	0		15		15	
Construction Inspector	0		3		3	
Eng Support Specialist II	0		1		1	
Assoc Elect Eng - Design	0		1		1	
Head Civil Eng - Field	0		1		1	
Head Eng - Water Sys - Design	0		1		1	
Sr Assoc Civil Eng - Design	0		4		4	
Associate Civil Eng - Design	0		1		1	
Sr Asst Civil Eng - Design	0		2		2	
Sr Asst Civil Eng - Wastewater	0		3		3	
Senior Clerk	0		3		3	
Clerk	0		1		1	
<b>Total Field Engineering Group</b>	<b>0</b>		<b>43</b>		<b>43</b>	
<b>413050 - Facilities Design</b>						
Assoc Arch Eng Waste Sys	0		1		1	
Sr Assoc Mech Eng - Design	0		2		2	
Assoc Mech Eng - Design	0		2		2	
Sr Asst Mech Eng - Wastewater	0		2		2	
Sr Assoc Elect Eng - Design	0		1		1	
Assoc Elect Eng - Design	0		1		1	
Sr Asst Elect Eng - Design	0		2		2	
Head Eng - Water Sys - Design	0		1		1	
Engineer of Water Systems	0		2		2	
Associate Civil Eng - Design	0		2		2	

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Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2011	2012 FTE	FY 2012	2013 FTE	2012	2013 FTE
Classification						
<b>05817 - Engineering Services - Water</b>						
<b>413050 - Facilities Design</b>						
Sr Asst Civil Eng - Design	0		1		1	
Sr Asst Civil Eng - Wastewater	0		2		2	
Senior Clerk	0		1		1	
<b>Total Facilities Design</b>	<b>0</b>		<b>20</b>		<b>20</b>	
<b>414360 - Central Service Facility</b>						
Bldg Opers Sprv Central Servic	0		0		0	
<b>Total Central Service Facility</b>	<b>0</b>		<b>0</b>		<b>0</b>	
<b>Total Engineering Services - Water</b>	<b>120</b>		<b>93</b>		<b>93</b>	
<b>12448 - Info Tech &amp; Systems Integration &amp; Or</b>						
<b>411011 - Asst Dir - Info Tech &amp; Sys Integrati</b>						
Asst Director of Water And	1		1		1	
Process Control Network Admin	2		1		1	
Eng Support Specialist II	3		1		1	
<b>Total Asst Dir - Info Tech &amp; Sys Integration &amp;</b>	<b>6</b>		<b>3</b>		<b>3</b>	
<b>411014 - Geographic Information Systems (I</b>						
Sr Geograph Info Sys Supp Tech	3		2		2	
<b>Total Geographic Information Systems (GIS)</b>	<b>3</b>		<b>2</b>		<b>2</b>	
<b>411016 - Process Networks and SCADA Sys</b>						
Process Control System Manager	1		1		1	
Manager II - DWSD	2		2		2	
Process Control System Admin	6		2		2	
Process Control Network Admin	3		3		3	
Manager I - DWSD	1		1		1	
Water Sys Cntrl Instr Tech	9		6		6	
Principal Clerk	1		0		0	
<b>Total Process Networks and SCADA System:</b>	<b>23</b>		<b>15</b>		<b>15</b>	
<b>411018 - Radio/SCADA Infrastructure Supp</b>						
Eng Support Specialist II	0		1		1	

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Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2011	2012 FTE	FY 2012	2013 FTE	2012	2013 FTE
Classification						
<b>12448 - Info Tech &amp; Systems Integration &amp; Or</b>						
<b>411018 - Radio/SCADA Infrastructure Suppc</b>						
Dept Info Tech Network Splst	0		2		2	
<b>Total Radio/SCADA Infrastructure Support</b>	<b>0</b>		<b>3</b>		<b>3</b>	
<b>411115 - Information Systems Administrativ</b>						
General Manager - DWSD	1		1		1	
Manager I - DWSD	1		1		1	
Dept Info Tech Network Splst	4		2		2	
Prin Data Proc Prog Analyst	4		2		2	
Sr Data Proc Prog Analyst	11		11		11	
Inter Data Proc Prog Analyst	7		7		7	
Sr Data Proc Telecomm Tech	4		0		0	
Office Management Assistant	1		1		1	
Sr Governmental Analyst	1		0		0	
Microcomputer Support Splst	7		6		6	
Eng Support Specialist II	2		0		0	
Principal Clerk	1		0		0	
Office Assistant III	1		0		0	
Info Tech Client Supp Asst	1		1		1	
System Programming Coordinator	1		1		1	
Senior Clerk	2		1		1	
<b>Total Information Systems Administrative Se</b>	<b>49</b>		<b>34</b>		<b>34</b>	
<b>411165 - Network Support</b>						
Microcomputer Support Splst	0		1		1	
Sr Data Proc Telecomm Tech	0		3		3	
<b>Total Network Support</b>	<b>0</b>		<b>4</b>		<b>4</b>	
<b>411285 - Systems Operations Control</b>						
General Manager - DWSD	1		0		0	
Chief Water Systems Sprv	1		0		0	
Engineer of Water Systems	1		1		1	
Sr Assoc Civil Eng - Design	2		0		0	
Water Sys Cntrl Instr Tech	2		2		2	

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Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2011	2012 FTE	FY 2012	2013 FTE	2012	2013 FTE
Classification						
<b>12448 - Info Tech &amp; Systems Integration &amp; Or</b>						
<b>411285 - Systems Operations Control</b>						
Cont Instr Tech Sub-Foreman-Wa	1		0		0	
Proc Control Center Supervisor	5		3		3	
Proc Control Center Operator	5		4		4	
Sr Water Plant Operator	14		9		9	
Microcomputer Support Splst	1		1		1	
Sr Data Proc Prog Analyst	1		1		1	
<b>Total Systems Operations Control</b>	<b>34</b>		<b>21</b>		<b>21</b>	
<b>411295 - Water Technical Services</b>						
Engineer of Wastewater Systems	2		2		2	
Sr Assoc Civil Eng - Design	1		1		1	
Sr Assoc Elect Eng - Design	1		0		0	
Sr Assoc Mech Eng - Operation	1		0		0	
Assoc Elect Eng - Design	1		1		1	
Assoc Mech Eng - Design	1		1		1	
<b>Total Water Technical Services</b>	<b>7</b>		<b>5</b>		<b>5</b>	
<b>411305 - Operational Services</b>						
Sr Pitometer Technician	3		3		3	
Pitometer Technician	4		3		3	
Principal Clerk	1		0		0	
Office Management Assistant	1		0		0	
<b>Total Operational Services</b>	<b>9</b>		<b>6</b>		<b>6</b>	
<b>Total Info Tech &amp; Systems Integration &amp; Orga</b>	<b>131</b>		<b>93</b>		<b>93</b>	
<b>12758 - Public Affairs Group - Water</b>						
<b>411021 - Office of the Assistant Director -Pu</b>						
Asst Director of Water And	1		1		1	
Public Affairs Manager	1		1		1	
Supervising Publicist I	1		0		0	
Admin Asst GD II - DWSD	1		0		0	
Web Editor	2		1		1	
Publicist II	1		0		0	

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**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2011	2012 FTE	FY 2012	2013 FTE	2012	2013 FTE
Classification						
<b>12758 - Public Affairs Group - Water</b>						
<b>411021 - Office of the Assistant Director -Pu</b>						
Sr Promotional Activities Asst	2		2		2	
Promotional Activities Assist	1		1		1	
Principal Graphic Designer	1		1		1	
Graphic Designer	2		2		2	
Audio Visual Srves Sprv	1		0		0	
Audio Visual Technician IV	1		1		1	
Audio Visual Technician III	2		2		2	
Audio Visual Technician II	2		2		2	
Photographer - General	1		1		1	
Principal Clerk	2		0		0	
Senior Clerk	1		0		0	
Office Assistant III	1		1		1	
Office Assistant II	1		1		1	
Publicist I	0		2		2	
<b>Total Office of the Assistant Director -Public</b>	<b>25</b>		<b>19</b>		<b>19</b>	
<b>411221 - Commercial Operations</b>						
Manager II - DWSD	1		1		1	
Manager I - DWSD	1		0		0	
Business System Support Splst	1		0		0	
Bus Sys Supp Splst II - DWSD	1		0		0	
Commercial Oper Specialist III	5		5		5	
Commercial Oper Specialist II	15		12		12	
Commercial Oper Specialist I	12		10		10	
Supervisor of Mail Operations	1		0		0	
Office Management Assistant	1		1		1	
Office Automation Support Asst	2		2		2	
Info Tech Client Supp Asst	1		0		0	
Customer Service Rep I	13		11		11	
Customer Service Rep II	50		49		49	
Customer Service Rep III	23		22		22	
Permit Investigator - DWSD	4		4		4	



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**Water Department**

<b>Appropriation</b>	<b>REDBOOK FY</b>		<b>DEPT REQUEST</b>		<b>MAYORS FY</b>	
<b>Organization</b>	<b>2011</b>	<b>2012 FTE</b>	<b>FY 2012</b>	<b>2013 FTE</b>	<b>2012</b>	<b>2013 FTE</b>
<b>Classification</b>						
<b>12758 - Public Affairs Group - Water</b>						
<b>411221 - Commercial Operations</b>						
Field Services Rep	32		26		26	
Customer Services Supervisor	3		3		3	
Field Operations Sprvr	7		4		4	
Admin Sprv - Field Operations	1		0		0	
Mail Processor	4		4		4	
Office Assistant III	6		4		4	
<b>Total Commercial Operations</b>	<b>184</b>		<b>158</b>		<b>158</b>	
<b>411251 - Meter Operations</b>						
Manager II - DWSD	1		1		1	
Manager I - DWSD	1		1		1	
Administrative Specialist I	1		1		1	
Office Management Assistant	1		1		1	
Principal Governmental Analyst	1		0		0	
Sr Governmental Analyst	1		1		1	
Control Instru Tech -Foreman	1		1		1	
Cont Instr Tech Sub-Foreman-Wa	2		2		2	
Water Sys Cntrl Instr Tech	9		9		9	
Plumber	1		1		1	
Sr Water Meter Foreman	1		0		0	
Water Meter Foreman	4		3		3	
Principal Clerk	3		2		2	
Plant Maintenance Mechanic	1		1		1	
Sr Water Meter Mechanic	3		3		3	
Water Meter Mechanic	7		7		7	
Water Meter Worker	18		15		15	
Mechanical Helper	20		9		9	
Senior Clerk	4		1		1	
Office Assistant III	3		1		1	
Office Assistant II	3		2		2	
Storekeeper	1		1		1	

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**Water Department**

Appropriation	REDBOOK FY		DEPT REQUEST		MAYORS FY	
Organization	2011	2012 FTE	FY 2012	2013 FTE	2012	2013 FTE
Classification						
<b>12758 - Public Affairs Group - Water</b>						
<b>411251 - Meter Operations</b>						
Sr Assoc Elect Eng - Operation	0		1		1	
<b>Total Meter Operations</b>	<b>87</b>		<b>64</b>		<b>64</b>	
<b>Total Public Affairs Group - Water</b>	<b>296</b>		<b>241</b>		<b>241</b>	
<b>Agency Total</b>	<b>1,717</b>		<b>1,453</b>		<b>1,453</b>	