SECTION V

CAPITAL BUDGET

The Capital Improvement Program is the District's plan for the construction, rehabilitation, and modernization of District-owned and operated infrastructure. It includes plans to protect Lake Michigan from pollution, to clean up approximately 200 miles of rivers and streams within the District's jurisdiction to meet federal and state standards, and to reduce the level of flooding which has persistently plagued many municipalities within the District's jurisdiction.

The Capital Budget includes the Construction Fund and the Capital Improvements Bond Fund. To understand the Capital Budget, it is necessary to visualize existing facilities as well as the program for the next year and the long-term plan.

The type of funding for each fund corresponds to the estimated useful life of the project and statutory restrictions on bond sales. The Tax Cap Law imposes restrictions on the non-referendum bonding authority of the District. There are exceptions in the Tax Cap Law to allow non-referendum bonds to be sold to finance certain District projects. Bonds or long-term debt are only utilized to finance projects with useful lives beyond 20 years. Capital projects not eligible for bond financing, or with shorter useful lives, are funded on a "pay as you go" basis and financed primarily by property taxes. The Capital Improvements Bond Fund receives most of its resources from bond sales, state revolving fund loans, and governmental grants. It provides for major plant and sewer construction, flood control facilities, and land acquisition. The Construction Fund is financed primarily through a property tax levy and provides for much of the District's infrastructure rehabilitation and modernization.

The narrative discussion of the District's 2015 Capital Improvement Program places the 2015 program within the context of our long-range plan. Information is provided on the levels of funding in 2015 and in the future. The graphs, charts, figures, and descriptions of the Construction Fund and Capital Improvements Bond Fund Program within this section aid the reader in understanding this component of the Budget. The impact on operating costs associated with capital projects scheduled for award in 2015 is presented in the Capital Improvement Program narrative.

Transmittal Letter	337
Capital Improvement Program Functions and Narrative	338
Ten-Year Capital Improvement Program Summary, 2010-2019	341
Construction Fund:	
Narrative	343
Projects Listed by Service Area	344
Project List and Operating Impacts	348
Project Fact Sheets	352
Objectives and Program Summary	392
Line Item Analysis	395
Capital Improvements Bond Fund:	
Narrative	397
Projects Listed by Service Area	399
Project List and Operating Impacts	405
Tunnel and Reservoir Plan (TARP) Project Status Chart	409
Project Fact Sheets	411
Other Project Exhibits	446
Stormwater Management Project List and Operating Impacts	458
Objectives and Program Summary	460
Line Item Analysis	462

BOARD OF COMMISSIONERS

Kathleen Therese Meany President
Barbara J. McGowan Vice President
Mariyana T. Spyropoulos Chairman Of Finance
Michael A. Alvarez
Frank Avila
Cynthia M. Santos
Debra Shore
Kari K. Steele
Patrick D. Thompson

Metropolitan Water Reclamation District of Greater Chicago

100 EAST ERIE STREET

CHICAGO, ILLINOIS 60611-3154

312.751.5600

September 10, 2014

Mr. David St. Pierre Executive Director OFFICE

Dear Sir:

Subject: 2015 Program for the Capital Funds

The Capital Funds' program for 2015, as prepared in detail, is transmitted herewith. The budget presentation supports the request for funding of the department's 2015 initiatives in alignment with and in support of the Strategic Business Plan. The budget requests include all amendments as directed by you during the Executive Director Budget Hearings in August of this year.

The narratives by fund provide a summary of the 2015 major initiatives and challenges and 2014 accomplishments. Supporting schedules of objectives and performance, present three years of detailed budgetary information.

Thank you for the opportunity to present the proposed Capital Funds budget for 2015.

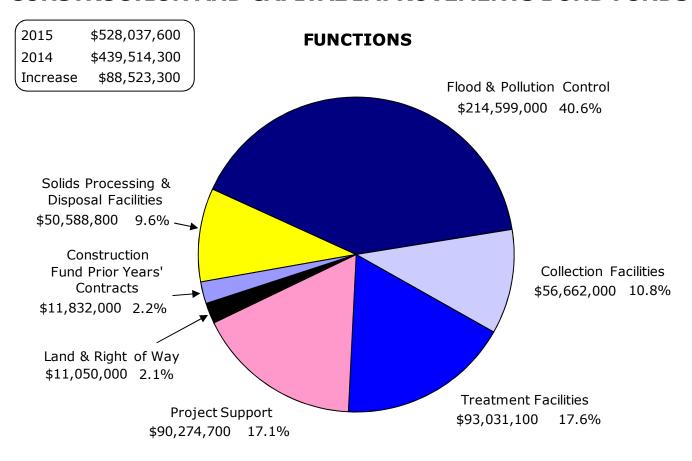
mp Sh

Respectfully submitted,

Catherine A. O'Connor Director of Engineering

Manju Prakash Sharma Director of Maintenance & Operations Thomas C. Granato
Director of Monitoring & Research

CAPITAL IMPROVEMENT PROGRAM CONSTRUCTION AND CAPITAL IMPROVEMENTS BOND FUNDS



A comprehensive Capital Improvement Program narrative appears on the following pages. The District utilizes the Construction and Capital Improvements Bond Funds for the Capital Improvement Program. Capital improvements comprise all new facilities and projects that preserve the useful life of District facilities or increase the capacity or efficiency of these facilities. The project support activities of the Construction Fund and Capital Improvements Bond Fund consist of planning, designing, and constructing District infrastructure, acting as a liaison to the United States Environmental Protection Agency (USEPA) and the Illinois Environmental Protection Agency, and pursuing funding for capital projects from the United States Army Corps of Engineers.

Budget Highlights

The 2015 Capital Improvement Program (Construction and Capital Improvements Bond Funds) totals \$528,037,600, an increase of \$88,523,300, or 20.1 percent, from 2014. The increase is primarily due to an increase in the number of capital projects. A total of 114 projects funded by the Construction or Capital Improvements Bond Funds will be under planning, design, or construction in 2015.

The mission of the Capital Improvement Program is to plan, develop, and implement projects for new facilities, to preserve the useful life of facilities, or increase the capacity or efficiency of facilities to ensure that the District complies with its statutory responsibilities in the areas of sewage treatment and pollution control.

Capital Improvement Program Policy

The District's Capital Improvement Program consists of those projects identified as necessary to ensure safe and uninterrupted operation of its facilities, meet existing and new statutory and regulatory requirements, and maintain efficiency in a cost-effective manner. Projects are identified based on asset management audits, Governmental Accounting Standards Board (GASB) Statement 34 inspections, and need, such as regulatory requirements or long-term strategic planning. Following identification, projects must be justified and vetted by an interdepartmental review panel. Projects are then prioritized using an evaluation and scoring system. Projects are then added to the Capital Improvement Program and scheduled for award according to priority and resource availability.

GASB Statement 34 became effective in 2003. By adopting the modified approach for infrastructure, the District agrees to perform condition assessments of its facilities, establish service levels for our infrastructure, and appropriate monies to maintain these high standards, thus protecting the environment and avoiding the detrimental impacts of deferred maintenance. The results of these assessments are reported in the Comprehensive Annual Financial Report.

Beneficial Impacts of Capital Projects

Through proper operation, maintenance, repair, and replacement of equipment and facilities, the District ensures continued efficient, reliable service, protects its investment and infrastructure, and meets National Pollutant Discharge Elimination System permit requirements. The Capital Improvement Program identifies and prioritizes projects to upgrade and modernize obsolete equipment and facilities.

Program Funding

Sources of funding for the Capital Improvement Program consist of the sale of Capital Improvement Bonds, general property tax revenues, State Revolving Fund loans, and federal and state grants.

Construction Fund

Section 9.6(a) of "An ACT to create sanitary districts and to remove obstructions in the Des Plaines and Illinois Rivers," approved May 29, 1889, as amended, provides that the Board of Commissioners of the District can levy and collect taxes for construction purposes (which means the replacement, remodeling, completion, alteration, construction, and enlargement, which will add appreciably to the value, utility, or useful life of sewage treatment works or flood control facilities, and additions thereto, pumping stations, tunnels, conduits, and intercepting sewers connecting therewith, and outlet sewers together with the equipment and appurtenances necessary thereto, and for the acquisition of the sites and rights of way necessary thereto, and for engineering expenses of designing and supervising construction of the work above described) for the year 1985 and each year thereafter, which shall be at a rate not to exceed 0.10 percent of the assessed valuation of all taxable property within the District as equalized and determined for state and local taxes.

Capital Improvements Bond Fund

Section 9.6(a) of "An ACT to create sanitary districts and to remove obstructions in the Des Plaines and Illinois Rivers," approved May 29, 1889, as amended, provides that the Board of Commissioners of the District is authorized to issue bonds for District purposes. The District issues bonds to provide funds to replace, remodel, complete, alter, construct, and enlarge sewage treatment or flood control facilities, to acquire air pollution control equipment, and to build or acquire sewers. The total allowable bond debt at any given time cannot exceed 3.35 percent of the last known equalized assessed valuation of all taxable property within the District. The ordinance authorizing the issuance of the bonds provides for the levy of a tax on all taxable property within the District adequate to pay principal and interest on the bonds when due, including a provision for loss in the collection of taxes.

Tax Cap laws enacted in Illinois have a significant impact on the funding of the District's Capital Improvement Program through bond sales. Under Public Act 89-1, the District's non-referendum bond authority is restricted to fund only projects initiated prior to October 1, 1991, which generally covers only Tunnel and Reservoir Plan (TARP) projects. However, Public Act 89-385 provided additional non-referendum authority to the District by authorizing the issuance of "limited bonds." These "limited bonds" allow the District to issue non-referendum debt for projects initiated after October 1, 1991. "Limited bonds" can be issued up to the debt service extension base established by the Act. This "limited bond" authority was expanded for the District by passage of Public Act 90-485 in the 1997 legislative session. This act excludes debt associated with the TARP program from the "limited bond" limitation. The use of "limited bonds", in conjunction with the "unlimited bonds" authorized for TARP-related projects, positions the District's capital funding on firm ground.

State Revolving Loan Fund (SRF)

The purpose of the SRF is to ensure that each state's program is designed and operated to continue to provide capital funding assistance for water pollution control activities into perpetuity. The USEPA implemented the SRF program in a manner that preserves for the states, a high degree of flexibility for operating their revolving funds in accordance with each state's unique needs and circumstances.

Funds in the SRF shall not be used to provide grants. SRF balances must be available in perpetuity and must be used solely to provide loans and other authorized forms of financial assistance:

- To municipalities, intermunicipal, interstate, or state agencies for the construction of publicly owned wastewater treatment works:
- b. For implementation of a new point source pollution control management program;
- c. For development and implementation of a conservation and management plan.

For many years, the major sources of funding for District projects were federal grants and the Build Illinois Compliance Grants, both of which were discontinued. Under the grant program, the District received approximately \$1.9 billion between 1973 and 1993, leaving 25 percent of the cost to be borne by the District. The District continues to aggressively pursue federal and state funding to minimize the impact on its constituency. The SRF is an integral part of the District's capital improvements financing. SRF revenues are based on the award and construction schedule of specific projects. It is estimated the District will receive at least \$200.0 million annually in SRF loans.

Operating Cost Impacts of Capital Improvement Projects

Specific tables are provided to show the estimated cost impacts on the operating budget of capital improvement projects under construction, scheduled for award, and under development.

The annual maintenance and/or operating costs associated with new capital projects are an important part of the decision-making process for the selection of capital projects. In many cases, the District must build new or modify existing facilities to meet regulatory requirements, and increases in operating costs cannot be avoided. In other cases, operating costs can be significantly reduced based on the replacement of aging infrastructure or equipment. In either case, the operating cost impacts of proposed capital projects are analyzed by design personnel, as well as operating staff, in order to implement a capital program that meets operating needs in the most cost-effective manner.

The operating cost impact tables are designed to give a range of cost impacts on the most significant cost elements, specifically, manpower, chemicals, and energy. The cost impact ranges are defined as no impact, minor impact, or major impact. These estimated cost impacts are reviewed once the specific projects are completed to guide in the preparation of operating budgets and to evaluate if planned efficiencies are realized.

Included in the operating cost impact tables is a categorization of the justification for a particular capital project. As discussed above, projects must be built to meet regulatory requirements, but they may also be built to obtain operating efficiencies, provide a safer operating environment, or extend useful life. The specific categories used are capacity needs, useful life, economic benefit, and safety/regulatory. Projects are often justified by more than one criterion.

Overall Capital Improvement Program Costs

The District's 2015 overall Capital Improvement Program includes 2015 project awards, program support, and projects under construction, with a total estimated construction cost of approximately \$1,446.7 million. A breakdown of these projects (in millions of dollars) is as follows:

2015 project awards	\$ 408.1
2015 program support (project support and land)	101.3
Projects currently under construction	937.3
Total	\$ 1,446.7

♦ A breakdown of projects scheduled for 2015 award by fund is as follows:

Construction Fund projects	\$ 12.3
Capital Improvements Bond Fund projects	<u>395.8</u>
Total	\$ 408.1

♦ A breakdown of projects under construction by fund is as follows:

Construction Fund projects	\$ 11.9
Capital Improvements Bond Fund projects	<u>925.4</u>
Total	\$ 937.3

10-YEAR CAPITAL IMPROVEMENT PROGRAM SUMMARY

2010 - 2019 CAPITAL PROJECT CONSTRUCTION COST

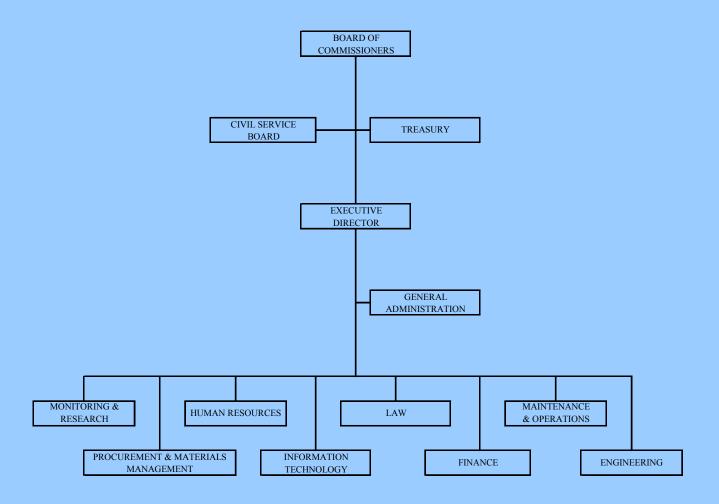
	ACT	ACTUAL CASH DISBURSEMENTS				ESTIMATED CASH DISBURSEMENTS				TOTAL DISBURSE- MENTS	
	2010	2011	2012	2013	2014 *	2015	2016	2017	2018	2019	2010-2019
	BY CAT	EGORY									
Water Reclamation Plants and Solids Management	\$159.19	\$103.17	\$58.96	\$51.54	\$75.36	\$117.06	\$146.48	\$99.93	\$71.55	\$48.42	\$931.66
Replacement of Facilities	73.43	56.10	37.33	31.77	42.82	23.84	53.33	47.73	52.15	44.78	\$463.28
Collection Facilities	101.23	63.14	69.99	32.32	44.30	26.56	17.24	22.83	19.22	20.54	\$417.37
Stormwater Management	-	-	4.54	19.37	7.01	44.05	69.52	54.77	61.48	56.49	\$317.23
Tunnel and Reservoir Plan	38.21	53.95	29.36	35.99	49.72	20.57	72.25	76.55	17.37	10.00	\$403.97
TOTAL	\$372.06	\$276.36	\$200.18	\$170.99	\$219.21	\$232.08	\$358.82	\$301.81	\$221.77	\$180.23	\$2,533.51
	BY FUN	<u>D</u>									
Stormwater Management Fund	\$ -	\$ -	\$4.54	\$19.37	\$7.01	\$8.80	\$7.76	\$7.25	\$7.25	\$7.25	\$69.23
Construction Fund	5.14	1.72	5.24	10.78	23.97	18.09	25.62	16.27	16.00	13.25	\$136.08
Capital Improvements Bond Fund	366.92	274.64	190.40	140.84	188.23	205.19	325.44	278.29	198.52	159.73	\$2,328.20
TOTAL	\$372.06	\$276.36	\$200.18	\$170.99	\$219.21	\$232.08	\$358.82	\$301.81	\$221.77	\$180.23	\$2,533.51

Notes: 1. All project costs are in millions of dollars.

^{2.} Information regarding the distribution of funds between the sub-items in the Construction and Capital Improvements Bond Funds can be found in the Five-Year Financial Forecast.

^{*} PROJECTED CASH DISBURSEMENTS

NOTE PAGE



CONSTRUCTION FUND

Fund Summary

The Construction Fund provides for the acquisition of infrastructure assets or the rehabilitation of existing structures that increase the efficiency or extend the life of the structure. The useful life of the assets generally will be less than five years and the cost of the project typically does not exceed \$500,000. The Construction Fund is funded primarily by property taxes.

Summary of 2014 Accomplishments

Significant accomplishments include:

- Work began on the rotating assemblies replacement project at the 95th St. Pumping Station;
- Completed the Blower Building steam line replacement project at the Calumet Water Reclamation Plant (WRP);
- Completed the rotating assemblies rehabilitation project at the Stickney WRP;
- Completed upgrades to the elevator system at the Mainstream Pumping Station;
- Completed DuFlow water quality modeling to analyze the effectiveness of the Devon Avenue Instream Aeration Station;
- Concluded the second year of a seven-year project (2013-2019) on microbial source tracking for the reaches of the Chicago Area Waterway System (CAWS) designated as primary contact recreation use;
- Completed the evaluation of the Albany Park flood mitigation alternatives as part of the project of developing a three-dimensional hydrodynamic and water quality model for the CAWS;
- Awarded a contract for odor mitigation experts to assist in the development of a District Odor Master Plan;
- Awarded a construction contract for membrane gas holder replacement and digester cleaning at Egan WRP;
- Awarded a contract for the expansion of the storeroom building at the O'Brien WRP.

Budget Highlights

Significant features of the 2015 budget are:

- The 2015 appropriation for the Construction Fund is \$37,840,700, a decrease of \$15,465,300, or 29.0 percent, from the 2014 budget request;
- Replacement of a gearbox in Sidestream Elevated Pool Aeration Station #3 in the Calumet Service Area;
- Rehabilitation of a hydraulic operator at Tunnel and Reservoir Plan (TARP) Gate Structure #1 in the Calumet Service Area;
- Complete the development of a three-dimensional hydrodynamic and water quality model for the CAWS and link the completed three-dimensional model to the TARP system models;
- Complete a hydrological investigation of the TARP groundwater system to evaluate the possibility of a reduction in the monitoring program.

2015 Initiatives in Support of the Strategic Plan Include the Following:

• Add Value

- o Increase the use of the in-house trades for the completion of repair projects;
- o Increase the use of the Construction Fund, as part of the Asset Maintenance Plan, for the maintenance of facilities to ensure the long-term viability of assets.

• Excellence

- Continue to develop and refine the Asset Maintenance Plan with the goal of reducing emergency sewer collapses and sludge line breaks and the high costs associated with them;
- o Continue the use of District personnel to develop, design, and implement construction projects;
- Develop a Calumet WRP odor mitigation strategy and complete the evaluation of odor mitigation options.

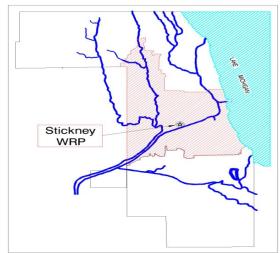
Resource Recovery

- o Purchase equipment for phosphorus removal at the Kirie WRP;
- Build a pervious parking lot at the Egan WRP.

CAPITAL PROJECTS LISTED BY SERVICE AREA - CONSTRUCTION FUND

The following is a list of capital projects within the District's three major service areas. They are presented by their association with a Water Reclamation Plant (WRP) and by their completion status: projects under construction and projects for 2015 award.

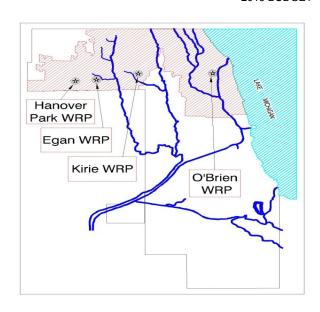
STICKNEY SERVICE AREA (SSA)



Stickney Water Reclamation Plant (SWRP)

Projects Under Construction (with estimated completion date) Estima	ted Co	nstruction Cost
11-961-22 Facility Roof Replacements and Associated Tuckpointing, SWRP, LASMA		
(12/2015)	\$	2,880,000
12-907-21 Crane Rehabilitation, MSPS (12/2015)		625,000
12-932-21 Rehabilitation of Sludge Heat Exchangers, SWRP (12/2015)		1,593,000
13-805-2S Television Inspection and Recording of Sewer and Manholes, District-wide		
(9/2017)		1,522,000
13-932-21 Painting Services, SSA (12/2015)		1,636,000
14-918-21 Fence Line Extension and Repair, SSA (5/2015)		200,000
14-922-21 Furnish, Deliver, and Install (FD&I) Gas Detection System, WSPS (4/2015)		160,000
J15090-042 Rehabilitation of Elevator Mechanical Systems, MOBA (5/2015)		850,000
Tota	1 \$	9,466,000
Projects for 2015 Award		
14-107-2J Stickney Effluent Reuse Line, SSA	\$	600,000
15-603-21 Waterways Telemetry Communication Pilot Study, SSA		200,000
15-906-21 Rehabilitation of Main Sewage Pump Rotating Assembly, RAPS		245,000
15-910-21 F&D Replacement Parts for Sludge Heat Exchangers, SWRP		225,000
15-911-21 Rehabilitate the Valve and Actuator of Main Sewage Pump No. 8, MSPS		300,000
15-912-21 FD&I Ammonia Probes in Aeration Batteries, SWRP		450,000
15-913-21 Gas Turbine Recommissioning, SWRP		500,000
15-914-21 Recondition Various Circuit Breakers, SSA		200,000
J15090-048 Paint and Carpet Replacement, MOB		435,000
Tota	1 \$	3,155,000
Stickney Service Area Grand Tota	1 \$	12,621,000

NORTH SERVICE AREA (NSA)



Estimated Construction Cost

Terrence J. O	'Brien	Water	Reclamation	Plant	(OWRP))

Projects Unde	Projects Under Construction (with estimated completion date)		d Cons	truction Cost
04-015-2V	Storeroom Building Expansion, OWRP (3/2015)		\$	2,201,000
11-722-21	Distributed Control System Server Upgrade, OWRP and NBPS (5/2015)			1,053,000
13-721-22	Painting of Final Tanks, OWRP and KWRP (10/2016)			985,000
		Total	\$	4,239,000
Projects for 2	015 Award			
14-061-2S	Glenbrook Sewer Rehabilitation, NSA		\$	1,800,000
14-824-2D	Rehabilitation of Bridges, NSA			1,000,000
15-711-21	Restoration of Process Control Building, OWRP			1,750,000
15-713-21	FD&I 350 kW Natural Gas Generator, OWRP			345,000
15-RFP-XX	Guaranteed Energy Performance Contracts, District-wide			1,000,000
		Total	\$	5,895,000

John E. Egan Water Reclamation Plant (EWRP)

Projects Under Construction (with estimated completion date)

11-403-2P	Membrane Gas Holder Replacement and Digester Cleaning, EWRP (10/2016)		\$	4,800,000
12-711-21	Rebuild Centrifuge Rotating Assembly and Gearbox, EWRP (12/2015)			680,000
		Total	\$	5,480,000
Projects for 2	2015 Award			
12-716-21	Return Activated Sludge Valves Replacement in South Aeration, EWRP		\$	40,000
14-714-21	Restoration of Concrete Pavement, EWRP			1,100,000
15-720-21	Rehabilitate Chiller 1, EWRP			100,000
		Total	<u>\$</u>	1.240.000

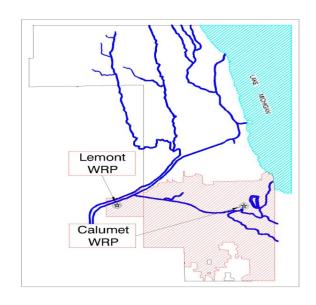
James C. Kirie Water Reclamation Plant (KWRP)

Projects for 2015 Award		Estimated	l Con	struction Cost
15-707-21	Equipment for Phosphorus Removal, KWRP		\$	800,000
15-719-21	Sludge Line Improvements, KWRP			200,000
		Total	\$	1,000,000

Hanover Park Water Reclamation Plant (HPWRP) Project for 2015 Award

Project for 20	ora Awaru	Estimated	I CO	nstruction Cost
15-701-21	F&D Turbo Blower for Process Air, HPWRP		\$	175,000
		Total	\$	175,000
		North Service Area Grand Total	\$	18,029,000

CALUMET SERVICE AREA (CSA)



Calumet V	Vater Reclamation Plant (CWRP)			
Projects Und	ler Construction (with estimated completion date)	Estimated	l Cons	struction Cost
14-808-21	FD&I Submersible Pumps Replacement at SEPA 1, CSA (12/2015)		\$	368,000
14-821-21	FD&I Rotating Assemblies for 95th and 125th St. Pumping Stations, CSA			
	(4/2015)			2,290,000
		Total	\$	2,658,000
Projects for	2015 Award			
14-811-21	FD&I New Boilers at 125th St. Pumping Station, CSA		\$	455,000
15-801-21	FD&I Crane Maintenance Platform, CWRP			50,000
15-802-21	Rehabilitation of Hydraulic Operator at TARP Gate Structure #1, CSA			900,000
15-813-21	Rehabilitation of Buildings, Fulton County			250,000
		Total	\$	1,655,000
Lemont W	ater Reclamation Plant (LWRP)			
Project Undo	er Construction (with estimated completion date)	Estimated	d Cons	struction Cost
14-806-21	FD&I New Tank Drives, LWRP (9/2017)		\$	976,000
		Total	\$	976,000
	Calumet Service Area Gra	nd Total	\$	5,289,000
	Capital Projects Grand Total - All Service	ce Areas	\$	35,939,000

Construction Fund Program

Project Nume		nstruction Fund Program		Est.	MWRD			Award
Project Name	Pro	oiects Under Construction				Dura-		
Rebuild Centrifuge Rotating Assembly and Gearbox, EWRP 12-711-21 8 680 \$ 1.70 1,441 \$. Jan-1 1,445 5 . Jan-1 1,445 1,		<u>,,</u>	Project				Prof	
Rebuild Centrifuge Rotating Assembly and Gearbox, EWRP 12-711-21 5.680 \$1.70 1.441 \$ - Jan-1 2 Distributed Control System Server Upgrade, OWRP and NBPS 11-722-21 1.053 5.00 7.30 - May-1 3.75 Facility Roof Replacements and Associated Tuckpointing, SWRP, LASMA Rehabilitation of Elevator Mechanical Systems, MOBA J15090-042 850 340 472 - Feb-1 5.70 5	#	Proiect Name	•					Award
Distributed Control System Server Upgrade, OWRP and NBPS		·						
Second S								
SWRP, LASMA		• • • • • • • • • • • • • • • • • • • •					-	-
5 Painting of Final Tanks, OWRP and KWRP 13-721-22 985 314 981 - Feb-1 6 Storeroom Building Expansion, OWRP 04-015-2V 2,201 1,496 366 - Mar-1 7 Painting Services, SSA 13-932-21 1,636 728 619 - Apr-1 8 Furnish, Deliver, & Install (FD&I) Rotating Assemblies for 95th and 125th St. Pumping Stations, CSA 12-932-21 1,503 1,400 536 - Jul-1 9 Rehabilitation of Sludge Heat Exchangers, SWRP 12-932-21 1,593 1,400 536 - Jul-1 10 FD&I New Tank Drives, LWRP 14-806-21 976 100 1,095 - Sep-1 11 Television Inspection and Repair, SSA 14-918-21 200 200 1,095 - Sep-1 12 Fence Line Extension and Repair, SSA 14-918-21 200 200 20 - Oct-1 13 Crane Rehabilitation, MSPS 14-918-21 200 20 20 - Nov-1 14 FD&I Gas Datection System, WSPS 14-982-21 625 </td <td></td> <td>SWRP, LASMA</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td>		SWRP, LASMA					-	
6 Storeroom Building Expansion, OWRP 04-015-2V 2,201 1,496 366 - Mar-1 7 Painting Services, SSA 13-932-21 1,636 728 619 - Apr-1 8 Furnish, Deliver, & Install (FD&I) Rotating Assemblies for 95th and 125th St. Pumping Stations, CSA 14-821-21 2,200 2,000 310 - Jul-1 9 Rehabilitation of Sludge Heat Exchangers, SWRP 12-932-21 1,593 1,400 536 - Jul-1 10 FD&I New Tank Drives, LWRP 14-806-21 976 300 1,095 - Sep-1 11 Television Inspection and Recording of Sewer and Manholes, District-wide 13-805-2S 1,522 600 1,095 - Sep-1 12 Fence Line Extension and Repair, SSA 14-918-21 200 200 210 - Oct-1 13 Crane Rehabilitation, MSPS 12-907-21 625 625 420 - Nov-1 14 FD&I Gas Detection System, WSPS 14-922-21 160 65 159 Nov-1 EWRP Total Projects Under Construction <		· · · · · · · · · · · · · · · · · · ·					-	Feb-14
7 Painting Services, SSA 13-932-21 1,636 728 619 - Apr-1 8 Furnish, Deliver, & Install (FD&I) Rotating Assemblies for 95th and 125th St. Pumping Stations, CSA 14-821-21 2,290 2,000 310 - Jun-1 9 Rehabilitation of Sludge Heat Exchangers, SWRP 12-932-21 1,593 1,400 536 - Jul-1 10 FD&I New Tank Drives, LWRP 14-806-21 976 300 1,095 - Sep-1 11 Television Inspection and Recording of Sewer and Manholes, District-wide 13-805-28 1,522 600 1,095 - Sep-1 12 Fence Line Extension and Repair, SSA 14-918-21 200 200 210 - Oct-1 13 Crane Rehabilitation, MSPS 12-907-21 625 625 420 - Nov-1 14 FD&I Gas Detection System, WSPS 14-922-21 160 65 159 - Nov-1 15 Membrane Gas Holder Replacement at SEPA 1, CSA 14-808-21 368 367 378 - Dec-1 EWRP Total Projects Under Construction Est. MWRD Constr- 2015 Dura-		_					-	Feb-14
Furnish, Deliver, & Install (FD&I) Rotating Assemblies for 14-821-21 2,290 2,000 310	6		04-015-2V				-	Mar-14
P5th and 125th St. Pumping Stations, CSA P8th abilitation of Sludge Heat Exchangers, SWRP 12-932-21 1,593 1,400 536 - Jul-1 10 FD&I New Tank Drives, LWRP 14-806-21 976 300 1,095 - Sep-1 11 Television Inspection and Recording of Sewer and Manholes, District-wide 1,522 600 1,095 - Sep-1 12 Television Inspection and Repair, SSA 14-918-21 200 200 210 - Oct-1 13 Crane Rehabilitation, MSPS 12-907-21 625 625 420 - Nov-1 14 14-922-21 160 65 159 - Nov-1 14 14-922-21 160 65 159 - Nov-1 15 Membrane Gas Holder Replacement and Digester Cleaning, EWRP 14-922-21 160 65 159 - Nov-1 15 EWRP 14-922-21 160		_	13-932-21	1,636	728	619	-	Apr-14
10 FD&I New Tank Drives, LWRP 14-806-21 976 300 1,095 - Sep-1 Television Inspection and Recording of Sewer and Manholes, District-wide 14-918-21 200 200 210 - Oct-1 2 Fence Line Extension and Repair, SSA 14-918-21 200 200 210 - Oct-1 3 Crane Rehabilitation, MSPS 12-907-21 625 625 420 - Nov-1 4 FD&I Gas Detection System, WSPS 14-922-21 160 65 159 - Nov-1 5 Membrane Gas Holder Replacement and Digester Cleaning, EWRP 14-808-21 368 367 378 - Dec-1 6 FD&I Submersible Pumps Replacement at SEPA 1, CSA 14-808-21 368 367 378 - Dec-1 7 Total Projects Under Construction Est. MWRD Construction Project Value	8		14-821-21	2,290	2,000	310	-	Jun-14
Television Inspection and Recording of Sewer and Manholes, 13-805-2S 1,522 600 1,095 - Sep-1	9	Rehabilitation of Sludge Heat Exchangers, SWRP	12-932-21	1,593	1,400	536	-	Jul-14
District-wide	10	FD&I New Tank Drives, LWRP	14-806-21	976	300	1,095	-	Sep-14
12 Fence Line Extension and Repair, SSA	11		13-805-2S	1,522	600	1,095	-	Sep-14
12-907-21 625 625 420 - Nov-1 14 FD&I Gas Detection System, WSPS 14-922-21 160 65 159 - Nov-1 15 Membrane Gas Holder Replacement and Digester Cleaning, EWRP 11-403-2P 4,800 2,400 699 - Nov-1 16 FD&I Submersible Pumps Replacement at SEPA 1, CSA 14-808-21 368 367 378 - Dec-1 Total Projects Under Construction	12		14-918-21	200	200	210	_	Oct-14
14 FD&I Gas Detection System, WSPS 14-922-21 160 65 159 - Nov-1 15 Membrane Gas Holder Replacement and Digester Cleaning, EWRP 11-403-2P 4,800 2,400 699 - Nov-1 16 FD&I Submersible Pumps Replacement at SEPA 1, CSA Total Projects Under Construction 14-808-21 368 367 378 - Dec-1 Est. MWRD Construction 2015 Dura- tion Project # Project Name Number Cost priation (days) Svcs Date 1 F&D Turbo Blower for Process Air, HPWRP 15-701-21 \$175 \$175 330 \$ - Jan-1 2 Rehabilitate the Valve and Actuator of Main Sewage Pump No. 8, MSPS 15-913-21 300 300 365 - Jan-1 3 Gas Turbine Recommissioning, SWRP 15-913-21 500 500 210 - Jan-1 4 Sludge Line Improvements, KWRP 15-719-21 200 100 700 - Jan-1 5 Rehabilitate Chiller 1, EWRP 15-801-21 50 50 365 - Jan-1 6 FD&I Crane Maintenance Platform, CWRP 15-802-21 90 700 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td></td<>							_	
15 Membrane Gas Holder Replacement and Digester Cleaning, EWRP 11-403-2P 4,800 2,400 699 - Nov-1							_	Nov-14
Total Projects Under Construction \$22,819 \$11,832 \$ \$ \$ \$ \$ \$ \$ \$ \$		Membrane Gas Holder Replacement and Digester Cleaning,					-	Nov-14
Total Projects Under Construction \$22,819 \$11,832 \$ \$ \$ \$ \$ \$ \$ \$ \$	16	FD&I Submersible Pumps Replacement at SEPA 1, CSA	14-808-21	368	367	378	_	Dec-14
Project Name Project Uction Appro- tion Prof Award Appro- tion Prof Award Appro- tion Prof Award Project Number Cost Priation (days) Svcs Date Project Project Number Cost Priation (days) Svcs Date Project Project Project Number Project Proje						-	\$ -	-
Project Name Project uction Appro- tion Prof Award	Δχ	vards in 2015				_		_
# Project Name Number Cost priation (days) Svcs Date 1 F&D Turbo Blower for Process Air, HPWRP 15-701-21 \$ 175 \$ 175 330 \$ - Jan-1 2 Rehabilitate the Valve and Actuator of Main Sewage Pump No. 15-911-21 300 300 365 - Jan-1 8, MSPS S 3 Gas Turbine Recommissioning, SWRP 15-913-21 500 500 210 - Jan-1 4 Sludge Line Improvements, KWRP 15-719-21 200 100 700 - Jan-1 5 Rehabilitate Chiller 1, EWRP 15-720-21 100 100 365 - Jan-1 6 FD&I Crane Maintenance Platform, CWRP 15-801-21 50 50 365 - Jan-1 7 Rehabilitation of Hydraulic Operator at TARP Gate Structure 15-802-21 900 700 730 - Jan-1 8 Rehabilitation of Buildings, Fulton County 15-813-21 250 250 365 <	211	varus III 2012	.				ъ с	
1 F&D Turbo Blower for Process Air, HPWRP 15-701-21 \$ 175 \$ 330 \$ - Jan-1 2 Rehabilitate the Valve and Actuator of Main Sewage Pump No. 15-911-21 300 300 365 - Jan-1 8, MSPS 3 Gas Turbine Recommissioning, SWRP 15-913-21 500 500 210 - Jan-1 4 Sludge Line Improvements, KWRP 15-719-21 200 100 700 - Jan-1 5 Rehabilitate Chiller 1, EWRP 15-720-21 100 100 365 - Jan-1 6 FD&I Crane Maintenance Platform, CWRP 15-801-21 50 50 365 - Jan-1 7 Rehabilitation of Hydraulic Operator at TARP Gate Structure 15-802-21 900 700 730 - Jan-1 8 Rehabilitation of Buildings, Fulton County 15-813-21 250 250 365 - Jan-1	,,	D. '. AV	•					
2 Rehabilitate the Valve and Actuator of Main Sewage Pump No. 15-911-21 300 300 365 - Jan-1 8. 8, MSPS 3 Gas Turbine Recommissioning, SWRP 15-913-21 500 500 210 - Jan-1 9. 4 Sludge Line Improvements, KWRP 15-719-21 200 100 700 - Jan-1 9. 5 Rehabilitate Chiller 1, EWRP 15-720-21 100 100 365 - Jan-1 9. 6 FD&I Crane Maintenance Platform, CWRP 15-801-21 50 50 365 - Jan-1 9. 7 Rehabilitation of Hydraulic Operator at TARP Gate Structure 15-802-21 900 700 730 - Jan-1 9. 8 Rehabilitation of Buildings, Fulton County 15-813-21 250 250 365 - Jan-1 9.	#	Project Name	Number	Cost	priation	(days)	Svcs	Date
8, MSPS 3 Gas Turbine Recommissioning, SWRP 15-913-21 500 500 210 - Jan-1 4 Sludge Line Improvements, KWRP 15-719-21 200 100 700 - Jan-1 5 Rehabilitate Chiller 1, EWRP 15-720-21 100 100 365 - Jan-1 6 FD&I Crane Maintenance Platform, CWRP 15-801-21 50 50 365 - Jan-1 7 Rehabilitation of Hydraulic Operator at TARP Gate Structure #1, CSA 15-802-21 900 700 730 - Jan-1 8 Rehabilitation of Buildings, Fulton County 15-813-21 250 250 365 - Jan-1	1			\$ 175	\$ 175	330	\$ -	Jan-15
3 Gas Turbine Recommissioning, SWRP 15-913-21 500 500 210 - Jan-1 4 Sludge Line Improvements, KWRP 15-719-21 200 100 700 - Jan-1 5 Rehabilitate Chiller 1, EWRP 15-720-21 100 100 365 - Jan-1 6 FD&I Crane Maintenance Platform, CWRP 15-801-21 50 50 365 - Jan-1 7 Rehabilitation of Hydraulic Operator at TARP Gate Structure 15-802-21 900 700 730 - Jan-1 #1, CSA 8 Rehabilitation of Buildings, Fulton County 15-813-21 250 250 365 - Jan-1	2	9 1	15-911-21	300	300	365	-	Jan-15
5 Rehabilitate Chiller 1, EWRP 15-720-21 100 100 365 - Jan-1 6 FD&I Crane Maintenance Platform, CWRP 15-801-21 50 50 365 - Jan-1 7 Rehabilitation of Hydraulic Operator at TARP Gate Structure #1, CSA 15-802-21 900 700 730 - Jan-1 8 Rehabilitation of Buildings, Fulton County 15-813-21 250 250 365 - Jan-1	3		15-913-21	500	500	210	-	Jan-15
5 Rehabilitate Chiller 1, EWRP 15-720-21 100 100 365 - Jan-1 6 FD&I Crane Maintenance Platform, CWRP 15-801-21 50 50 365 - Jan-1 7 Rehabilitation of Hydraulic Operator at TARP Gate Structure #1, CSA 15-802-21 900 700 730 - Jan-1 8 Rehabilitation of Buildings, Fulton County 15-813-21 250 250 365 - Jan-1	4	Sludge Line Improvements, KWRP	15-719-21	200	100	700	_	Jan-15
6 FD&I Crane Maintenance Platform, CWRP 15-801-21 50 50 365 - Jan-1 7 Rehabilitation of Hydraulic Operator at TARP Gate Structure 15-802-21 900 700 730 - Jan-1 #1, CSA 8 Rehabilitation of Buildings, Fulton County 15-813-21 250 250 365 - Jan-1							_	Jan-15
 Rehabilitation of Hydraulic Operator at TARP Gate Structure 15-802-21 900 700 730 - Jan-1 #1, CSA Rehabilitation of Buildings, Fulton County 15-813-21 250 250 365 - Jan-1 							_	Jan-15
8 Rehabilitation of Buildings, Fulton County 15-813-21 250 250 365 - Jan-1		Rehabilitation of Hydraulic Operator at TARP Gate Structure					-	Jan-15
	8		15-813-21	250	250	365	_	Jan-15
9 Stickney Effluent Reuse Line, SSA 14-107-2J 600 600 192 - Feb-1							_	Feb-15

			Est.	MWRD			
Av	vards in 2015 (continued)		Constr-	2015	Dura-		Est.
		Project	uction	Appro-	tion	Prof.	Award
#	Project Name	Number	Cost	priation	(days)	Svcs.	Date
10	Paint and Carpet Replacement, MOB	J15090-048	435	435	55	-	Feb-15
11	Return Activated Sludge Valves Replacement in South Aeration, EWRP	12-716-21	40	40	122	-	Feb-15
12	Restoration of Process Control Building, OWRP	15-711-21	1,750	1,750	300	-	Mar-15
13	FD&I 350 kW Natural Gas Generator, OWRP	15-713-21	345	345	210	-	Mar-15
14	Rehabilitation of Main Sewage Pump Rotating Assembly, RAPS	15-906-21	245	245	270	-	Apr-15
15	F&D Replacement Parts for Sludge Heat Exchangers, SWRP	15-910-21	225	225	365	-	Apr-15
16	Recondition Various Circuit Breakers, SSA	15-914-21	200	200	210	-	Apr-15
17	Guaranteed Energy Performance Contracts, District-wide	15-RFP-XX	1,000	1,000	240	-	May-15
18	Glenbrook Sewer Rehabilitation, NSA	14-061-2S	1,800	1,800	213	-	May-15
19	FD&I New Boilers at 125th St. Pumping Station, CSA	14-811-21	455	455	120	-	Jun-15
20	Equipment for Phosphorus Removal, KWRP	15-707-21	800	800	180	-	Jun-15
21	Waterways Telemetry Communication Pilot Study, SSA	15-603-21	200	200	111	-	Jun-15
22	FD&I Ammonia Probes in Aeration Batteries, SWRP	15-912-21	450	450	90	-	Jul-15
23	Restoration of Concrete Pavement, EWRP	14-714-21	1,100	558	366	-	Aug-15
24	Rehabilitation of Bridges, NSA	14-824-2D	1,000	1,000	270	-	Oct-15
	Total 2015 Award	S	\$13,120	\$ 12,278	_	\$ -	_
	TOTAL 2015 PROJECT	S	\$35,939	\$ 24,110	•	\$ -	_

Construction Fund Program Operating Impacts

Construction Fund Frogram Operating Impa				Justification				Impact			
Pro	jects Under Construction Project Name	Project Number	Capacity Needs	U_{seful} L_{if_e}	$E_{CONOmic}$ $Benefit$	Safety/Regulatory	$M_{a\eta power}$	$\mathit{Ene}_{\mathit{ISY}}$	$C_{hemical}$		
1	Rebuild Centrifuge Rotating Assembly and Gearbox, EWRP	12-711-21		X			=	=	=		
2	Distributed Control System Server Upgrade, OWRP and NBPS	11-722-21		X			=	=	+		
3	Facility Roof Replacements and Associated Tuckpointing, SWRP, LASMA	11-961-22		X			=	=	=		
4	Rehabilitation of Elevator Mechanical Systems, MOBA	J15090-042		X	X	X	=	+	=		
5	Painting of Final Tanks, OWRP and KWRP	13-721-22		X			=	=	=		
6	Storeroom Building Expansion, OWRP	04-015-2V	X				=	-	=		
7	Painting Services, SSA	13-932-21		Х			=	=	=		
8	Furnish, Deliver, & Install (FD&I) Rotating Assemblies for 95th and 125th St. Pumping Stations, CSA	14-821-21		X			=	+	=		
9	Rehabilitation of Sludge Heat Exchangers, SWRP	12-932-21		X			=	+	=		
10	FD&I New Tank Drives, LWRP	14-806-21		X		X	=	+	=		
11	Television Inspection and Recording of Sewer and Manholes, District-wide	13-805-2S		X		X	=	=	Ш		
12	Fence Line Extension and Repair, SSA	14-918-21		X		X	=	=	=		
13	Crane Rehabilitation, MSPS	12-907-21		X		X	=	=	=		
14	FD&I Gas Detection System, WSPS	14-922-21		X		X	=	=	=		
15	Membrane Gas Holder Replacement and Digester Cleaning, EWRP	11-403-2P		X			=	=	=		
16	FD&I Submersible Pumps Replacement at SEPA 1, CSA	14-808-21		X		X	=	=	=		
<u>Awards in 2015</u>											
1	F&D Turbo Blower for Process Air, HPWRP	15-701-21		X	X	X	+	+	+		
2	Rehabilitate the Valve and Actuator of Main Sewage Pump No. 8, MSPS	15-911-21		X			=	=	=		
3	Gas Turbine Recommissioning, SWRP	15-913-21			X		=	++	=		
4	Sludge Line Improvements, KWRP	15-719-21		X			=	=	=		
5	Rehabilitate Chiller 1, EWRP	15-720-21	X	X	X		=	=	=		
6	FD&I Crane Maintenance Platform, CWRP	15-801-21				X	=	=	=		
7	Rehabilitation of Hydraulic Operator at TARP Gate Structure #1, CSA	15-802-21		Х		X	=	=	=		
8	Rehabilitation of Buildings, Fulton County	15-813-21		X			=	=	=		
9	Stickney Effluent Reuse Line, SSA	14-107-2J			X		=	=	=		

				Justif	ication]	Impact	
	nstruction Fund Operating Impacts Awards in 2015 (continued) Project Name	Project Number	$C_{apacity}N_{eed_S}$	$U_{seful Lif_{f e}}$	Economic Benefit	Safety.Regulatory	$M_{anpower}$	Energy	$C_{hemical}$
10	Paint and Carpet Replacement, MOB	J15090-048		$\frac{\sim}{x}$	-4	∝ x	=	=	=
11	Return Activated Sludge Valves Replacement in South Aeration, EWRP	12-716-21		X		A	=	+	=
12	Restoration of Process Control Building, OWRP	15-711-21		X		X	-	=	=
13	FD&I 350 kW Natural Gas Generator, OWRP	15-713-21	X	X	X	X	=	=	=
14	Rehabilitation of Main Sewage Pump Rotating Assembly, RAPS	15-906-21		X			=	+	=
15	F&D Replacement Parts for Sludge Heat Exchangers, SWRP	15-910-21		Х			+	=	=
16	Recondition Various Circuit Breakers, SSA	15-914-21		X			=	=	=
17	Guaranteed Energy Performance Contracts, Districtwide	15-RFP-XX			X		Ξ	+	=
18	Glenbrook Sewer Rehabilitation, NSA	14-061-2S		X	X		=	=	=
19	FD&I New Boilers at 125th St. Pumping Station, CSA	14-811-21		X	X	X	+	+	=
20	Equipment for Phosphorus Removal, KWRP	15-707-21		X			=	=	=
21	Waterways Telemetry Communication Pilot Study, SSA	15-603-21	X		X		+	+	=
22	FD&I Ammonia Probes in Aeration Batteries, SWRP	15-912-21			X		=	++	=
23	Restoration of Concrete Pavement, EWRP	14-714-21		X		X	=	=	=
24	Rehabilitation of Bridges, NSA	14-824-2D		X	X	X	=	=	=

		LEGEND							
Under	Under "Justification", the marked columns note the categories of benefits expected from each project.								
		M							
		Manpower							
+ or -	Labor savings (+) or increases (-) expected to result in	++ or	Labor impact significant enough to ultimately result in reduction (++)						
	redirecting existing manpower away from or toward facility		or increase () in personnel. See additional cost details contained						
	or process to other tasks with no net change in total position costs.		in the Project Fact Sheets.						
		Energy							
+ or -	Minor energy savings (+) or costs (-) having a negligible	++ or	Major energy savings (++) or costs () expected to result in						
	impact on the District's overall energy budget.		significant revisions to a facility's energy budget. See additional cost						
			details contained in the Project Fact Sheets.						
		Chemical							
+ or -	Chemical savings (+) or costs (-) having a negligible	++ or	Major chemical savings (++) or costs () expected to result in						
	impact on the District's overall chemical costs.		significant revisions to the budgeted chemical expenditures for the						
			associated process. See additional cost details contained in						
=	No budgetary impact expected.		the Project Fact Sheets.						

Rehabilitation of Elevator Mechanical Systems, MOBA

Project Number: J15090-042

Service Area: Stickney

Location: Chicago

Engineering Consultant: In-house design

General Contractor: Meccor Industries, LTD

Estimated Construction Cost: \$850,000

Contract Award Date: February 14, 2014

Substantial Completion Date: May 31, 2015*



<u>Project Description</u>: Upgrade Haughton elevator machines (1986) for three passenger elevators and one freight elevator from direct current (DC) motors to alternating current (AC) motors with variable frequency drives (VFDs) to ensure reliable operation and to achieve energy savings. Upgrade elevator control drives from analog to digital controls.

<u>Project Justification</u>: The elevators need an upgrade to replace the 28-year old machinery that is near the end of its useful life. Current condition: elevator motors and associated machinery are in critical condition through 28 years of constant use. All machinery leaks gear oil and the gears for these machines are worn out, causing the cars to constantly jump while travelling from floor to floor. There are no more adjustments to be made on the tachometers or braking system to mitigate deficiencies. This upgrade is necessary to ensure safe and reliable transportation of personnel.

There are three major reasons for this request:

- Parts obsolescence, resulting in parts scarcity.

In 1979, the manufacturer, Haughton Elevator Company (Haughton), merged with Swiss-based Schindler Elevator Company. Haughton became Schindler's American elevator division and was known as Schindler Haughton until 1989, when the company stopped the production of the Haughton-designed machines. As a result, the Main Office Building Annex (MOBA) elevator machine parts have become obsolete. Currently, 24 years later, the entire stock of the Haughton repair parts for this type of elevator machines has been depleted nationwide. This forces elevator maintenance contractors to acquire needed parts online, where they are sold as scrap by the buildings that have upgraded their elevator machinery.

- Elevator controls obsolescence, resulting in inefficient operating mode of all four cars due to a lack of programmability of the old analog controls.

MOBA elevators have 1986 Haughton elevator machines with DC motors operated by antiquated analog elevator controls. The current control parts have become obsolete and are difficult to obtain. This causes more frequent breakdowns with longer out-of-service time. The new control drives will allow for a smoother ride and energy savings. Most importantly, effective January 1, 2015, the new Fire Code requires an automatic recall of all elevators in case of an emergency, such as fire. This can only be achieved if the new machinery with digital controls is installed.

- Incompatibility of the existing 28-year old DC machine motors with VFDs.

This results in energy-intensive use of MOBA vertical transportation systems. Installation of VFDs with new AC motors is expected to result in approximately 30 percent in energy savings.

Project Status: In progress.

Paint and Carpet Replacement, MOB

Project Number: J15090-048

Service Area: Stickney

Location: Chicago

Engineering Consultant: In-house design

General Contractor: Meccor Industries, LTD

Estimated Construction Cost: \$435,000

Contract Award Date: 2/5/2015*

Substantial Completion Date: 4/1/2015*



<u>Project Description</u>: Replace old carpet and wall-coverings on the 4th floor of the Main Office Building (MOB) utilizing "green" practices such as recycling of the existing carpet, applying zero volatile organic compound paint, and installing Carpet and Rug Institute (CRI) Green Label Plus certified carpet tiles with aquatic (water-based) adheasive.

<u>Project Justification</u>: The MOB was last remodeled in 1985, including installation of carpet tiles, wallpaper and painting of the walls. Since then, some partial repairs to floor and wall coverings have been made, on a limited basis. The carpet throughout the building is worn, painted areas are fading and wallpaper is deteriorating. The project will provide an appealing, clean work area for employees and visitors.

Project Status: In planning.

Storeroom Building Expansion, OWRP

Project Number: 04-015-2V

Service Area: North

Location: O'Brien WRP

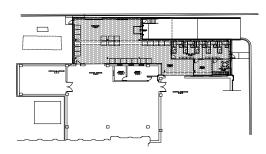
Engineering Consultant: In-house design

General Contractor: Path Construction Company

Estimated Construction Cost: \$2,201,000

Contract Award Date: March 6, 2014

Substantial Completion Date: March 6, 2015*



Project Description: An expansion to the north for the Storeroom Building encompassing additional storage area, a recessed loading dock, and an updated office area.

Project Justification: The existing O'Brien WRP storeroom has 6,215 square feet of storage space. This amount of floor area is not sufficient to meet the current and future space requirements. The expansion will improve office functions, storage of parts and pallets, and receiving functions, including the ability to receive semitrailers, which is not currently possible. The current office space is decentralized and has inadequate space for the staff to function properly. Providing a centralized area will improve function and increase safety for the staff. Additional lockable storage space will be created in the old office area.

Project Status: This project is under construction.

^{*}Information shown is estimated.

Membrane Gas Holder Replacement and Digester Cleaning, EWRP

Project Number: 11-403-2P

Service Area: North **Location:** Egan WRP

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$4,800,000

Contract Award Date: November 20, 2014*

Substantial Completion Date: October 19, 2016*



Project Description: Drain and clean Digesters A through D. Remove and replace the Dystor membrane gas holders at Digesters B and D. Remove and replace digester gas plug valves for Digesters A through D. Install new digester gas plug valves to allow Digesters B and D to be isolated. Install new actuators to some of the new/replaced valves to isolate digester gas during emergency shutoff events. Provide control wiring to the Distributed Control System (DCS) for theses valves. Programming of the DCS will be performed by District personnel. Install new check valves in gas mixing pipelines to prevent sludge backflow at Digesters A and C. Replace flushing water lines in Digesters A and C. Replace digested sludge sampling pipes at Digesters A through D. Replace mixing gas flow meters and associated gas piping, as necessary, at Digesters A and C.

Project Justification: Digesters A through D need to be drained and cleaned in order to maintain proper capacity and to perform the contract work. Digesters B and D currently use the Dystor membranes to contain and store biogas. Those membranes were installed around the year 2000. They are typically designed to be replaced every 12 to 14 years. It is economically justified to replace the membranes in kind in order to maintain the unit capacities and capabilities of safe utilization of digester gas. The existing digester gas plug valves are degraded to the point of being non-operational and spare parts are not available for rebuilding, therefore, they need to be replaced. These valves and additional new valves are required for adequate isolation of digester gas piping. DCS control of the actuated digester gas valves is required to allow complete isolation of the digester gas system in an emergency.

Project Status: This project is being advertised.

Distributed Control System Server Upgrade, OWRP and NBPS

Project Number: 11-722-21

Service Area: North

Location: O'Brien WRP and North Branch Pumping Station (NBPS)

Engineering Consultant: In-house design

General Contractor: ABB, Inc.

Estimated Construction Cost: \$1,053,000

Contract Award Date: May 16, 2013

Substantial Completion Date: May 15, 2015*



Project Description: This contract is to upgrade the O'Brien and NBPS ABB Distributed Control System (DCS) to the latest ABB 800xA platform, including all the required servers for the O'Brien WRP and NBPS process historian systems, engineering workstations, operator workstations, and management consoles. The new server hardware and software are expected to provide a minimum of 10 years of service. This contract covers the hardware costs of the servers, expert field support for configuration and database migration, and the costs of training one engineer and three Electrical Instrument & Testing Mechanics in system installation, configuration, and graphics development.

<u>Project Justification</u>: The upgrade ensures that the O'Brien DCS will maintain complete operability and process integrity. The upgrade is necessary because the DCS and server software currently running are no longer compatible with the computer hardware available today, and our current hardware is exhibiting faults typically associated with aging computers. In-house personnel will require extensive training on the new platform. Expert support will minimize the downtime of the DCS during changeover.

Project Status: In progress.

Facility Roof Replacements and Associated Tuckpointing, SWRP, LASMA

Project Number: 11-961-22

Service Area: Stickney

Location: Stickney WRP, Lawndale Avenue Solids Management Area

(LASMA), Racine Avenue Pumping Station (RAPS)

Engineering Consultant: In-house design

General Contractor: L. Marshall, Inc.

Estimated Construction Cost: \$2,880,000

Contract Award Date: December 5, 2013

Substantial Completion Date: December 31, 2015*



Project Description: Aeration Battery C, 52nd Avenue Gate House, West Side Pumping Station (WSPS) Main Foyer, Ejector Station D-1, Effluent Disinfection Storage Building, and the Scum Concentration Building will have their failed roofs replaced with a cold-applied, three-ply, Styrene-Butadiene-Styrene (SBS) modified, built-up asphalt roofing system that is ballasted with river washed aggregate. The LASMA Visitor Center's roof will be replaced with the same SBS system, but instead of being covered with river washed aggregate, the roof will be covered with a white reflective Energy Star rated aggregate surface. Imhoff Battery B Facilities (#150 and 152) failed roofs will be replaced with a 10-year warranty roof, and the RAPS roof will be replaced with an SBS white reflective system, as described for the LASMA building, but the roof will also incorporate a "green roof" system.

This is a two-year project:

2014 – 52nd Avenue Gate House, WSPS Main Foyer, Ejector Station D-1, Effluent Disinfection Storage Building, Scum Concentration Building, Imhoff Battery B Facilities (#150 and 152), and RAPS;

2015 - Aeration Battery C and LASMA Visitor Center.

Project Justification: The purpose of this project is to replace failing or failed roofing systems with a new roofing structure. The new roofs are required in order to protect personnel, interior mechanical and electrical equipment, and the interior of the building structure from the outdoor elements.

The roofs described here have exceeded their expected life. The current roofing systems are not reliable, which is evidenced via the visible vegetation growth and structural damage, recorded inspection reports, and recorded roof leak repairs. Due to the unreliability of the existing roof structures, the roofs need to be replaced.

Project Status: In progress.

Rebuild Centrifuge Rotating Assembly and Gearbox, EWRP

Project Number: 12-711-21

Service Area: North
Location: Egan WRP

Engineering Consultant: In-house design

General Contractor: Alfa Laval, Inc.

Estimated Construction Cost: \$680,000

Contract Award Date: January 19, 2012

Substantial Completion Date: December 31, 2015*



Project Description: Rebuild four centrifuge rotating assemblies and gearboxes at the Egan WRP.

Project Justification: This is mission critical equipment. The work must include quality assurance and engineering verification. Due to the project scale, expert services are recommended to perform verification and validation of the work. It is inappropriate to use District employees to both conduct quality assurance activities and perform verification and validation of the work. Alfa Laval, Inc., the equipment manufacturer, has the highest level of knowledge and experience necessary to perform the work. The cost estimate is \$170,000 annually for four years.

Project Status: Project is awarded and will be complete in 2015.

^{*}Information shown is estimated.

Return Activated Sludge Valves Replacement in South Aeration, EWRP

Project Number: 12-716-21

Service Area: North
Location: Egan WRP

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$40,000

Contract Award Date: February 28, 2015*

Substantial Completion Date: June 30, 2015*



<u>Project Description</u>: The purpose of this project is to install two replacement return activated sludge (RAS) valves and appurtenances for the south aeration tanks at Egan WRP. The original estimated cost was \$180,000. The updated contract estimated cost is \$40,000 for materials only. The installation work will be performed by in-house staff.

<u>Project Justification</u>: Recently, six frozen-in-place, leaking 24-inch RAS valves were removed and replaced with blind flanges. Two of these valves will be now reinstalled for the following reasons:

- (1) There is evidence to show that since the leaking valves were removed, the RAS return rate has dropped, and the associated aeration tank and final tanks are not able to achieve the maximum design RAS rate. This is most evident during high flow events. The ability to maintain and adjust proper RAS flow rate is critical for reliable secondary treatment.
- (2) Since the valves were removed, the air and energy usage in the airlift has increased. Due to the resulting high air flow rate, sludge sprays and spills around the airlift station are creating unsafe conditions and housekeeping problems.
- (3) Flow control valves will allow variable step-feed RAS rates based on the plant raw sewage pumping and loading rates. Step-feed control optimizes treatment and provide more efficient air usage by spreading the treatment throughout the entire tank. This additional capacity will also be needed for implementation of centrate recycle treatment.
- (4) The valves will also be used for isolation.

Project Status: Project is under design.

*Information shown is estimated.

Crane Rehabilitation, MSPS

Project Number: 12-907-21

Service Area: Stickney

Location: Mainstream Pumping Station

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$625,000

Contract Award Date: November 6, 2014*

Substantial Completion Date: December 31, 2015*



Project Description: Rehabilitate and recondition eight overhead cranes. Resolve deficiencies found during Contract 07-932-11 on the North and South Pump House and service bays, wheel gate gantry, and the dewatering and discharge valve chamber cranes.

<u>Project Justification</u>: The purpose of the contract is to perform various structural, mechanical, and electrical repairs to the eight overhead cranes at the Mainstream Pumping Station in order to comply with the American Society of Mechanical Engineers and the Occupational Safety and Health Administration requirements. The cranes located in the subterranean dewatering and discharge valve chambers have experienced severe corrosion, deterioration and rusting of the electrical boxes, rails, and platforms due to the conditions inherent to their location, as well as being subject to multiple combined sewer overflow flood events in 2009 and 2010.

Project Status: Pending award.

^{*}Information shown is estimated.

Rehabilitation of Sludge Heat Exchangers, SWRP

Project Number: 12-932-21

Service Area: Stickney

Location: Stickney WRP

Engineering Consultant: In-house design

General Contractor: Meccon Industries, Inc.

Estimated Construction Cost: \$1,593,000

Contract Award Date: July 10, 2014

Substantial Completion Date: December 31, 2015*



<u>Project Description</u>: The purpose of this project is to replace six of the 24 sludge heat exchangers, now in service, that are necessary to maintain required sludge temperature at the digesters.

<u>Project Justification</u>: The existing sludge heat exchangers in Areas D and E were poorly designed. At the present time, the units need to be replaced due to tube failures and u-bend erosion. The units will be replaced with an economically superior product.

Project Status: Under construction.

^{*}Information shown is estimated.

Painting of Final Tanks, OWRP and KWRP

Project Number: 13-721-22

Service Area: North

Location: O'Brien and Kirie WRPs

Engineering Consultant: In-house design

General Contractor: Crown Painting

Estimated Construction Cost: \$985,000

Contract Award Date: February 20, 2014

Substantial Completion Date: October 31, 2016*



Project Description: Painting of final tanks including rake arms and walkway at the O'Brien and Kirie WRPs.

Project Justification: Existing paint is peeling, causing accelerated corrosion of the metal, and has exceeded the expected service life.

Project Status: In progress.

^{*}Information shown is estimated.

Television Inspection and Recording of Sewer and Manholes, District-wide

Project Number: 13-805-2S

Service Area: North, Calumet, and Stickney

Location: District-wide

Engineering Consultant: In-house design

General Contractor: National Power Rodding Corporation

Estimated Construction Cost: \$1,522,000 Contract Award Date: September 4, 2014

Substantial Completion Date: September 4, 2017*



<u>Project Description</u>: To provide the District with sewer inspection services of varying methods including: video inspection, water jetter system television inspection, zoom camera inspection, laser profiling, multi-sensor inspection, and manhole and TARP drop shaft inspection. The contractor will also be responsible for cleaning, disposal, and hourly video inspection services.

<u>Project Justification</u>: The purpose of this contract is to determine and monitor the state of the District's existing collection systems infrastructure.

Project Status: This contract is in process.

Painting Services, SSA

Project Number: 13-932-21

Service Area: Stickney

Location: Stickney WRP

Engineering Consultant: In-house design

General Contractor: ERA Valdivia Contractors, Inc.

Estimated Construction Cost: \$1,636,000

Contract Award Date: April 17, 2014

Substantial Completion Date: December 31, 2015*



Project Description: Group A: Painting of the final tanks at the Stickney WRP. Recoat the interior rake arm and center column portions, which are constructed of ferrous metal, on 22 final settling tanks.

Group B: Painting of the digester covers at the Stickney WRP. Furnish all necessary labor to clean, prepare, and paint digester covers and miscellaneous structures related to the covers located in Digester Areas D, E, F, and G at the Stickney WRP.

Group C: Miscellaneous painting at the Mainstream Pumping Station. Coat various piping and appurtenances at the MSPS. Areas include North and South pump houses, North and South vent shafts, North and South guard valve galleries, North and South receiving bays, Trashrake Building, Gate Building, discharge valve shaft and chamber, and the dewatering shaft and chamber.

Project Justification: The coating on the tanks is approaching the end of its lifecycle and delamination has started to occur. Recoating is necessary to prevent corrosion, which will reduce the thickness of the steel members, and lead to an increase in future costs and downtime to replace members that would otherwise have only required recoating.

The services outlined in this contract have been part of a protective coating program at the Stickney WRP to protect the physical integrity of equipment. Failure to proceed with this contract will result in excessive pitting and corrosion resulting in need to replace digester tank covers.

In order to maintain a quality facility with a lengthy service life, piping and appurtenances must be reasonably protected from corrosion. If support equipment, such as pipe hangers/supports, is left to fail, pipes can become dislodged and separate. If stairs and ladders are deteriorated, the safety of District personnel becomes compromised. The location of many of these systems are not readily accessible for inspection, therefore detection may not be possible until a failure occurs.

Project Status: In progress.

Glenbrook Sewer Rehabilitation, NSA

Project Number: 14-061-2S

Service Area: North

Location: Northfield Township

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$1,800,000

Contract Award Date: May 12, 2015*

Substantial Completion Date: December 15, 2015*



<u>Project Description</u>: This project consists of the rehabilitation of 5,730 feet of 18 inch diameter circular pipe by a cured-inplace pipe lining process and the rehabilitation of 20 manholes by spray on products.

<u>Project Justification</u>: The sewers were inspected with a closed-circuit television inspection system. The video shows infiltration and concrete/metal deterioration due to hydrogen sulfide. In order to restore the hydraulic and structural integrity of the sewers, they need to be rehabilitated. The manholes and structures exhibit similar signs of deterioration and need to be rehabilitated.

Project Status: Design phase: 50 percent complete.

*Information shown is estimated.

Stickney Effluent Reuse Line, SSA

Project Number: 14-107-2J

Service Area: Stickney

Location: Stickney Township

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$600,000

Contract Award Date: February 1, 2015*

Substantial Completion Date: August 13, 2015*



<u>Project Description</u>: This project consists of the installation of 2,000 linear feet of 6-inch diameter pressure pipe by directional drilling and the installation of air relief and blow-off structures and clean-out and blow-off structures.

<u>Project Justification</u>: This project provides a Stickney WRP neighboring facility with treated effluent water for use in process applications and represents the first of the effluent water reuse opportunities.

Project Status: This project is being designed.

^{*}Information shown is estimated.

Restoration of Concrete Pavement, EWRP

Project Number: 14-714-21

Service Area: North
Location: Egan WRP

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$1,100,000

Contract Award Date: August 31, 2015*

Substantial Completion Date: September 1, 2016*



<u>Project Description</u>: Replacement of concrete roads and parking lot sections at the Egan WRP. This project entails a complete rehabilitation of the almost 40-year old parking lot at the Egan WRP, including the installation of a bioretention area on a parking island and permeable pavers in a portion of the parking spaces.

Project Justification: At the Egan WRP, the aging concrete is failing and developing large pot holes. The pot holes create a driving hazard on roads and a walking hazard in the parking lots. This project will be applied towards the Green Infrastucture requirements of the recently lodged Consent Decree.

\$1,100,000 split between 2015/2016, \$558,300/\$541,700 respectively.

Project Status: Project is under design.

Furnish, Deliver, and Install New Tank Drives, LWRP

Project Number: 14-806-21

Service Area: Calumet

Location: Lemont WRP

Engineering Consultant: In-house design

General Contractor: Independent Mechanical Industries, Inc.

Estimated Construction Cost: \$976,000

Contract Award Date: September 4, 2014

Substantial Completion Date: September 4, 2017*



Project Description: Furnish, deliver, and install new clarifier drives on four final tanks, and mixers on one digester and one concentration tank. Refurbish and paint the structural steel members of the six tanks. Refurbish two tanks per year.

Project Justification: These tank drives are in poor condition and require excessive maintenance. They are original equipment. The structural steel will also require replacement of miscellaneous members due to rust.

Replacement of tank drives will ensure tanks are available to meet operational needs of the plant.

Project Status: In progress.

Furnish, Deliver, and Install Submersible Pumps Replacement at SEPA 1, CSA

Project Number: 14-808-21

Service Area: Calumet

Location: Chicago

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$368,000

Contract Award Date: December 18, 2014*

Substantial Completion Date: December 31, 2015*



<u>Project Description</u>: Furnish, deliver, and install three submersible Flyght pumps and retrofit existing pump tubes to accommodate Roxtech electrical power cable support system at the Sidestream Elevated Pool Aeration (SEPA) Station 1.

Project Justification: Three of the four submersible pumps at the SEPA Station 1 are out of service and require replacement. This project to furnish, deliver, and install three replacement pumps and perform ancillary electrical work will bring the station back up to full design capacity. The SEPA station provides oxygen to the waterway via engineered sidesteam waterfalls. The aeration process provided by the SEPA pumps improves water quality and encourages fish population growth, in addition to enhancing the surrounding scenery and providing a park-like environment.

New pumps will allow Calumet Operations to meet permitted dissolved oxygen requirements.

Project Status: Under review.

Furnish, Deliver, and Install New Boilers at 125th St. Pumping Station, CSA

Project Number: 14-811-21

Service Area: Calumet

Location: Chicago

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$455,000

Contract Award Date: June 1, 2015*

Substantial Completion Date: September 30, 2015*



<u>Project Description</u>: Remove and replace the boilers, condensate transfer system, and feedwater system at the 125th St. Pumping Station.

Project Justification: In 2011, a consultant was tasked to perform a vulnerability study of our large pumping stations. A report by the consultant dated March 25, 2011, entitled Pump Station Vulnerability and Risk Assessment Study, identified the boiler system at the 125th Street Pumping Station as "quite aged and in poor to fair condition." In addition, the report determined that "steam availability is unlikely to be reliable." The burner systems for the boilers, manufactured by North American Atlas Generator, are obsolete. The efficiency of the boiler system is poor, as it takes hours (vs. minutes) to start producing steam from a cold start and the boilers run continuously to hold the low temperature set point needed at the station to keep pipes from freezing in the winter.

Boilers are necessary to maintain the environment in this facility such that the equipment is available when necessary.

Project Status: Under review.

Furnish, Deliver, and Install Rotating Assemblies for 95th and 125th St. Pumping Stations, CSA

Project Number: 14-821-21

Service Area: Calumet

Location: Chicago

Engineering Consultant: In-house design

General Contractor: Ornelas Construction Co.

Estimated Construction Cost: \$2,290,000

Contract Award Date: June 5, 2014

Substantial Completion Date: April 15, 2015*



<u>Project Description</u>: This project consists of furnishing, delivering, and installing a reverse-engineered rotating assembly for one storm pump at 95th St. and one storm pump at 125th St., rebuilding one existing rotating assembly from each pumping station, and providing dimensional Computer-Aided Design drawings of the pumps and their associated components.

Project Justification: Storm pumps at both the 95th St. and 125th St. Pumping Stations are custom-made pumps manufactured in 1920 by manufacturers that are no longer in business. Dimensional drawings of the pumps do not exist. Replacement of rotating assemblies will ensure that the pumping stations are available to meet operational needs of the plant.

Project Status: In progress.

Rehabilitation of Bridges, NSA

Project Number: 14-824-2D

Service Area: North

Location: Linden, Maple and Sheridan Road Bridges

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$1,000,000

Contract Award Date: October 1, 2015*

Substantial Completion Date: June 30, 2016*



Project Description: This project provides for the replacement of sidewalks on Linden and Maple Avenue bridges, removal of encasing concrete from the bottom flanges of steel girders and beams of the Sheridan Road bridge, strengthening of steel members, and painting of steel members. In addition, the Maple Avenue and Linden Avenue bridges will be modified to make them biker friendly.

Project Justification: The sidewalks of Maple Avenue and Linden Avenue bridges are severely cracked and are out of alignment. These sidewalks need to be replaced for the safety of pedestrians. The concrete encasement on the steel girders and beams of the Sheridan road bridge is cracked and loose. This concrete needs to be removed to protect the equipment inside the Wilmette Pumping Station (under the bridge) and for the safety of pedestrians walking under the bridge to Wilmette Harbor. In addition, several steel members of Maple Avenue and Linden Avenue bridges have section loss due to corrosion and need strengthening. All steel members will be painted to protect from further corrosion.

Project Status: This project is in design stage.

^{*}Information shown is estimated.

Fence Line Extension and Repair, SSA

Project Number: 14-918-21

Service Area: Stickney

Location: 1) Racine Avenue Pumping Station (RAPS), 3838 S. Racine

Avenue, Chicago, IL

2) Vacant District Property (bordering Burlington Northern Santa Fe

(BNSF) Railway), 3500 S. Kedzie Avenue, Chicago, IL

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$200,000

Contract Award Date: October 16, 2014*

Substantial Completion Date: May 16, 2015*



<u>Project Description</u>: 1) Fence Line Extension, RAPS – The purpose of this project is to extend the current fence and relocate the existing sliding entry gate in order to fully enclose the District's property. The project involves the installation of roughly 1,000 linear feet of fencing.

2) Fence Line Repair, 3500 S. Kedzie – The pupose of this project is to replace and/or repair roughly 2,500 linear feet of deteriorated fencing at a vacant District property which borders BNSF Railway.

Project Justification: 1) Fence line extension, RAPS - There is a potential for encroachment onto District property and/or structures.

2) Fence line repair, 3500 S. Kedzie – BNSF, the District's neighbor to the south, requested to install a pole swing gate onto District property in order to deter thefts that were occurring to stationary trains within the area. Burglars were using the District's vacant property in order to remove the stolen goods. Upon further investigation, it was discovered that the District's existing fence line, which separates the two properties, was in great disrepair. The existing fencing which borders the east, south, and west sides of the District's property needs to be replaced and/or repaired due to large gaps resulting from vandalism or poor installation, damage resulting from fallen trees, utility poles, overgrown brush, and improper past repairs. The mentioned discrepancies allow unauthorized foot traffic onto District property.

Both parts of the project will prevent encroachment, as well as help deter illegal activity threatening public safety.

Project Status: Contract preparation.

Furnish, Deliver, and Install Gas Detection System, WSPS

Project Number: 14-922-21

Service Area: Stickney

Location: West Side Pumping Station

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$160,000

Contract Award Date: November 6, 2014*

Substantial Completion Date: April 15, 2015*



Project Description: Furnish, deliver, and install a hazardous gas detection system at the West Side Pumping Station (WSPS) Coarse Screen Facility.

Project Justification: The purpose of the project is to provide labor, materials, and appurtenances to replace the failed/obsolete oxygen, methane, and hydrogen sulfide gas detection system at the WSPS's Coarse Screen Facility. The existing system has been out of service since February 2014. The locations of the existing gas sensors have been subject to high wet well flooding during unplanned outages or high flow conditions.

Project Status: Pending award.

Waterways Telemetry Communication Pilot Study, SSA

Project Number: 15-603-21

Service Area: Stickney

Location: Waterways Control Room and Remote Gauge Locations

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$200,000

Contract Award Date: June 9, 2015*

Substantial Completion Date: September 30, 2015*



Project Description: Pilot programs to migrate Waterways' telemetry from copper based AT&T phone lines to a wireless solution.

<u>Project Justification</u>: Pilot program will identify reliable and cost cutting solutions for transmitting and archiving elevation and precipitation data while also protecting against excessive service outages and high maintenance costs associated with traditional phone lines. Additionally, there is a need to migrate from Legacy hardware that is no longer available for purchase.

Project Status: Under development.

^{*}Information shown is estimated.

Furnish and Deliver Turbo Blower for Process Air, HPWRP

Project Number: 15-701-21

Service Area: North

Location: Hanover Park WRP

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$175,000

Contract Award Date: January 1, 2015*

Substantial Completion Date: December 1, 2015*



<u>Project Description</u>: Furnish and deliver one high speed turbo blower, electrical and mechanical accessories for the process air blowers at the Hanover Park WRP.

<u>Project Justification</u>: The project entails replacing two existing process air blowers with one high speed turbo blower at the Hanover Park WRP using in-house trades. The contractor will furnish and deliver the turbo blower assembly, and all electrical and mechanical accessories needed to replace the blowers.

The turbo blower uses air or magnetic bearings instead of ball bearings used in the conventional blower, which makes the turbo blower more energy efficient than any conventional blower.

The existing multi-stage blowers have no variable frequency drive (VFD) motor controls. The air demand is controlled by throttling the air inlet valve. The blower always operates at full speed irrelevant of air flow. The turbo blower has VFD motor controls, which will accurately control the speed based on the air flow, resulting in additional energy savings. Furthermore, due to low operating sound levels for the turbo blower, the noise pollution near the trades shop and the Treatment Plant Operator lab storage area will be reduced significantly.

Project Status: Project is under review.

Equipment For Phosphorus Removal, KWRP

Project Number: 15-707-21

Service Area: North
Location: Kirie WRP

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$800,000

Contract Award Date: June 1, 2015*

Substantial Completion Date: December 1, 2015*



<u>Project Description</u>: Procure and install pumps, mixing systems, baffle walls, piping, and instrumentation in the first pass of two aeration tanks and return sludge pumps in two final settling tanks.

Project Justification: A future phosphorus limit, tentatively scheduled to be in place within five years of issuance of the currently expired National Pollutant Discharge Elimination System permit, will require the use of both batteries A and B for first stage treatment. The first pass of each aeration tank will be converted to an anoxic zone requiring mechanical mixers in place of using low pressure air. Return sludge pumps will be installed for sludge withdrawal as a replacement for air lifts. This equipment will reduce dissolved oxygen in the first pass of the aeration tanks, which is necessary for phosphorus removal.

During 2016 and 2017, aeration and final settling tanks A5 and A6 will be used as pilot tanks to determine the length of the first pass anoxic zone and overall capacity for biological treatment and phosphorus removal.

^{*}Information shown is estimated.

Restoration of Process Control Building, OWRP

Project Number: 15-711-21

Service Area: North

Location: O'Brien WRP

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$1,750,000

Contract Award Date: March 1, 2015*

Substantial Completion Date: December 31, 2015*



<u>Project Description</u>: This contract is to restore the Process Control Building: grind and recaulk capstones and limestone, tuckpoint entire structure, remove and replace sealant on all doors and windows, replace all windows and glass block, remove and replace roof. This project is expected to have a life expectency of over 20 years.

<u>Project Justification</u>: The building is 85 years old. The envelope of the building is in poor repair and beginning to fail. Structural steel in other buildings of the same age on the same site has begun to rust badly, due to envelope issues. The condition of the building, if not addressed now, will deteriorate further. This may require more extensive and expensive repairs in the future.

Project Status: Project is under review.

Furnish, Deliver, and Install 350 kW Natural Gas Generator, OWRP

Project Number: 15-713-21

Service Area: North

Location: O'Brien WRP, Walters Road Pumping Station

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$345,000

Contract Award Date: March 1, 2015*

Substantial Completion Date: October 1, 2015*



<u>Project Description</u>: This project is to furnish, deliver, and install a sound attenuated, 350 kW natural gas generator for the O'Brien WRP - Walters Road Pumping Station. This will provide the critical automatic backup power needed for the station.

Project Justification: Walters Road is a critical pumping station because it has no sewer overflow bypass. If the pumps fail to start at the station, the entire neighborhood will flood.

Currently, the 250 kW portable generator parked at the station is 35 years old, unreliable, needs to be started manually by an operator, is undersized (cannot provide full functionality for the station), and is causing a noise disturbance to the residents.

A risk assessment study was performed at the station and the consultant has determined that this portable generator was installed as temporary backup and was found to be inadequate for this application. The consultant recommended that we install a 350 kW permanent generator at the station.

^{*}Information shown is estimated.

Sludge Line Improvements, KWRP

Project Number: 15-719-21

Service Area: North
Location: Kirie WRP

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$200,000

Contract Award Date: January 1, 2015*

Substantial Completion Date: December 1, 2016*



Project Description: The purpose of this project is to locate 21 of the 54 missing cathodic protection testing stations along approximately 5.6 miles of underground force main from Kirie WRP to Egan WRP. The pipeline consists of approximately 5.6 miles of 18-inch ductile iron force main with mechanical joint construction. These test stations are buried or identification marks are missing over the years due to construction activities or soil erosion. The expert service contractor will locate, verify operation, and raise and identify all the test stations.

Project Justification: This is a single force main pipeline for pumping sludge from Kirie WRP to Egan WRP. The operation of Kirie WRP and ability to meet the National Pollutant Discharge Elimination System permit is directly affected if waste sludge cannot be pumped to Egan WRP as designed. Cathodic protection provides secondary corrosion protection to the underground force main. We need all cathodic protection testing stations functional to verify the cathodic protection to the underground force main. Under this project, we will locate the missing 21 cathodic protection testing stations along the pipeline to provide complete cathodic protection. We will reestablish the ability to test cathodic protection electrical continuity of the underground pipeline system.

^{*}Information shown is estimated.

Rehabilitate Chiller 1, EWRP

Project Number: 15-720-21

Service Area: North **Location:** Egan WRP

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$100,000

Contract Award Date: January 1, 2015*

Substantial Completion Date: December 31, 2015*



Project Description: Furnish, deliver, and install generator section tubes for Chiller 1 at the Egan WRP.

Project Justification: This project is to replace the generator section tube bundle for Chiller 1. The chiller provides climate control for M&R Lab operations and office air-conditioning for the Egan WRP.

There are three chillers at the Egan WRP. Two chillers are required for operation to meet design criteria.

As a condition assessment, the contractor, Anchor Mechanical, has performed eddy-current tests on all four tube sections of Chiller 1. The report indicates that the generator section has five percent of the wall thickness remaining and replacement is required. This chiller has been in service for 28 years. If we continue running this chiller, the tubes will fail and the chiller will cease to operate. It is less damaging to the chiller to replace the tube bundle under pre-planned, controlled conditions.

^{*}Information shown is estimated.

Furnish, Deliver, and Install Crane Maintenance Platform, CWRP

Project Number: 15-801-21

Service Area: Calumet

Location: Calumet WRP

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$50,000

Contract Award Date: January 1, 2015*

Substantial Completion Date: December 31, 2015*



<u>Project Description</u>: This project will include the replacement of the existing ladder and platform at the Influent Pumping Station (IPS) at the Calumet WRP with a new crane maintenance platform consisting of a catwalk and access ladder permanently mounted to the overhead crane.

Project Justification: Currently, if the overhead crane at the IPS malfunctions over the pump floor, there is no way to safely access the bridge to perform the required maintenance. The new crane maintenance platform would allow for any necessary work to be completed regardless of the crane's position.

Project Status: Under review.

Rehabilitation of Hydraulic Operator at TARP Gate Structure #1, CSA

Project Number: 15-802-21

Service Area: Calumet

Location: TARP Gate Structure #1

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$900,000

Contract Award Date: January 1, 2015*

Substantial Completion Date: December 31, 2016*



<u>Project Description</u>: This project will include the removal, rehabilitation, and installation of the hydraulic operator on TARP Gate Structure #1 (GS-1) in the Calumet Service Area.

<u>Project Justification</u>: TARP GS-1 is a critical roller gate in the Calumet Service Area that isolates the Torrence Avenue leg of the Calumet TARP System, protecting this service area from localized flooding events and providing a buffer to prevent combined sewer overflows (CSOs) into Lake Michigan. The gate is 16'x25' and is located 300 feet underground.

The hydraulic operator, installed in 2003, controls the operation of the gate. Corrosion of the rod on GS-1 has damaged the packing, which caused a hydraulic oil leak in the cylinder that cannot be repaired in the field. As a result, the gate may fail in the closed position and the Torrence Avenue leg of the Calumet TARP System could not be dewatered after a fill event. The rehabilitation of the hydraulic operator will include an upgraded rod designed to withstand the highly corrosive environment in the drop shaft.

Project Status: Under review.

Rehabilitation of Buildings, Fulton County

Project Number: 15-813-21

Service Area: Calumet

Location: Prairie Plan, Fulton County

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$250,000

Contract Award Date: January 1, 2015*

Substantial Completion Date: December 31, 2015*



Project Description: Rehabilitation of various building and structures at the Prairie Plan Site in Fulton County, Illinois.

Project Justification: Replacement of the decking and roof material is needed to ensure the Building B's structural integrity. Building B is the Prairie Plan's largest heated storage area and provides space for maintenance and repair work. The current structure is over 35 years old, and the new roof will have a warranty of 40 years. The new decking would ensure the new metal roofing material will be well fastened to the existing structure. Roof material replacement of the oil shed is also needed to maintain integrity of the building. Replacement of the roof of the Maintenance & Operations office building is also needed as the roof is past its useful life and new asphalt shingles and decking in low slope areas are recommended. The roof and windows of the Wier Farmhouse also need to be replaced. Multiple sheet metal repairs are needed, such as new gutters and downspouts on the Monitoring & Research Building.

Project Status: Under review.

^{*}Information shown is estimated.

Rehabilitation of Main Sewage Pump Rotating Assembly, RAPS

Project Number: 15-906-21

Service Area: Stickney

Location: Racine Avenue Pumping Station (RAPS)

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$245,000

Contract Award Date: April 1, 2015*

Substantial Completion Date: December 31, 2015*



Project Description: The purpose of this project is to refurbish one main sewage pump rotating assembly at the RAPS. The work includes complete disassembly, inspection of the impeller for re-use, and replacement of the shaft and all other parts. Epoxy coating of the impeller is an added technical feature. The project will provide for refurbishment of this assembly and return it to a condition where it can provide another lifecycle of utilization.

Project Justification: Inspection of the rotating assembly in service at RAPS indicates excessive wear of the pump casing rings, impeller wear rings, and packing sleeves.

Project Status: Preliminary planning.

Furnish and Deliver Replacement Parts for Sludge Heat Exchangers, SWRP

Project Number: 15-910-21

Service Area: Stickney

Location: Stickney WRP

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$225,000

Contract Award Date: April 1, 2015*

Substantial Completion Date: March 31, 2016*



Project Description: Furnish and deliver parts for the sludge heat exchangers at the Stickney WRP.

<u>Project Justification</u>: The sludge heat exchangers, located at the Digester facility, have provided over 20 years of service. Due to sludge and hot water leaks, caused by tube failures and u-bend erosion, rehabilitation is required. This project will provide the necessary parts required to rehabilitate 11 units and extend the useful life of the equipment.

Project Status: Preliminary planning.

^{*}Information shown is estimated.

Rehabilitate the Valve and Actuator of Main Sewage Pump No. 8, MSPS

Project Number: 15-911-21

Service Area: Stickney

Location: Mainstream Pumping Station (MSPS)

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$300,000

Contract Award Date: January 1, 2015*

Substantial Completion Date: December 31, 2015*



<u>Project Description</u>: The purpose of this project is to rehabilitate the 48-inch Rodney Hunt discharge valve and the corresponding 0.65M Flo-Tork actuator of the valve for Main Sewage Pump No. 8 at the MSPS.

<u>Project Justification</u>: Previous inspections and rehabilitations of the discharge valves at MSPS have shown internal wear and damage. Specific repairs can only be determined after removal and disassembly. In addition, the project impact on operational needs would be minimized if the project was completed concurrently with the rehabilitation of Pump No. 8.

Project Status: Project initiation.

*Information shown is estimated.

387 387

Furnish, Deliver, and Install Ammonia Probes in Aeration Batteries, SWRP

Project Number: 15-912-21

Service Area: Stickney

Location: Stickney WRP

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$450,000

Contract Award Date: July 1, 2015*

Substantial Completion Date: September 30, 2015*



Project Description: Furnish, deliver, and install ammonia probes in the aeration batteries.

<u>Project Justification</u>: The purpose of the project is to provide labor, materials, and appurtenances to install an ammonia analyzer in each of the aeration batteries to monitor and control through the distributed control system process air from the blowers. This will reduce energy consumption and aid in better process efficiencies of the aeration process.

Project Status: Pending award.

^{*}Information shown is estimated.

Gas Turbine Recommissioning, SWRP

Project Number: 15-913-21

Service Area: Stickney

Location: Stickney WRP

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$500,000

Contract Award Date: January 1, 2015*

Substantial Completion Date: July 31, 2015*



<u>Project Description</u>: The purpose of this project is to recommission the gas turbine at the Stickney WRP. The work includes conversion of the gas turbine to operate on natural gas and an upgrade to the electrical control system.

<u>Project Justification</u>: The existing gas turbine generator is a capital asset that can be used to generate electricity. Conversion to natural gas operation will allow it to run without any interruptions in gas supply, and save the cost of digester gas treatment, which diminished the benefit of operation previously.

Project Status: Preliminary planning.

Recondition Various Circuit Breakers, SSA

Project Number: 15-914-21

Service Area: Stickney

Location: Various

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$200,000

Contract Award Date: April 1, 2015*

Substantial Completion Date: October 30, 2015*



<u>Project Description</u>: Furnish and deliver services and material to recondition various circuit breakers in the Stickney Service Area.

<u>Project Justification</u>: The purpose of the project is to provide labor, materials, and appurtenances to recondition, test, and warranty various circuit breakers in the Stickney Service Area to extend the useful life of the equipment. This reconditioning will ensure equipment electrical safety and reliability during normal operating conditions and fault conditions. Reconditioning will overhaul the breakers to meet the original manufacture specifications.

Project Status: Pending award.

Guaranteed Energy Performance Contracts, District-wide

Project Number: 15-RFP-XX

Service Area: North, Calumet, and Stickney

Location: District-wide

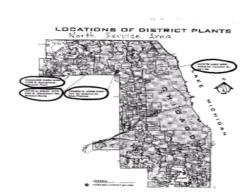
Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$1,000,000

Contract Award Date: May 1, 2015*

Substantial Completion Date: December 31, 2015*



<u>Project Description</u>: Under an existing purchase order, Noresco is performing an Investment Grade Audit at major District facilities. This project will be to perform energy conservation measures identified by the audit.

Project Justification: Install energy conservation and/or efficient equipment identified by the Investment Grade Audit. Projects will be justified based on District needs and economic payback.

Project Status: Under review.

*Information shown is estimated.

391 390

50000 CONSTRUCTION FUND

OBJECTIVES AND PROGRAM SUMMARY

OBJECTIVES BY PRIORITY:		 Cost	Percent
1. TREATMENT FACILITIES: Award projects such as Restoration of Concrete Pavement, EWRP,			
which will reduce operation and maintenance costs and/or provide facility improvements.		\$ 9,531,100	25.2%
2. COLLECTION FACILITIES: Award projects such as Furnish, Deliver and Install 350 kW Natural Gas			
Generator, OWRP, which will reduce operation and maintenance costs and/or provide facility improvements		\$ 3,662,000	9.7%
3. SOLIDS PROCESSING & DISPOSAL FACILITIES: Award projects such as Furnish and Deliver			
Replacement Parts for Sludge Heat Exchangers, SWRP, which will reduce costs and/or provide facility impr	ovements.	\$ 4,588,800	12.1%
4. FLOOD & POLLUTION CONTROL: Provide the funding for flood control studies and construction			
projects.		\$ 1,250,000	3.3%
5. CONSTRUCTION FUND PROJECT COST: Provide funding for contracts awarded prior to 2015.		\$ 11,832,000	31.3%
6. PROJECT SUPPORT: Administration, design, and construction inspection for current and future			
contracts, funding support, construction materials and testing services, and land and right-of-way expenditure	es.	\$ 6,976,800	18.4%
	Total	\$ 37,840,700	100.0%
MEASURABLE GOALS:	2013	2014	2015
	Actual	Estimated	Proposed
1. Awarding Contracts for the continued implementation of the District's Capital			
Improvement Program.			
Number of Projects proposed	64	42	24
Number of Contracts awarded	26	20	24
Plans available for award	26	20	24

The projects proposed for each year are based upon the requirements dictated by the Capital Improvement Program. The number of actual projects awarded may not, on face value, quantify performance. There are several factors that could either increase or decrease the number of projects awarded. Some of these factors are project size, project complexity, and unforeseen obstacles. These numbers are provided only as a general indicator of performance.

50000 CONSTRUCTION FUND

OBJECTIVES AND PROGRAM SUMMARY

PROGRA	AMS BY PRIORITY:		2013		В	udg	eted	Change			
Number	Name		Actuals		Positions		Dollars		Dollars	Percent	
1110	Interceptor Systems	\$	25,058	2015	-	\$	600,000	\$	(550,000)	(47.8)	a)
				2014	-	\$	1,150,000				
1300	Pumping Station Facilities	\$	_	2015		\$	2,000,000	\$	350,000	21.2	b)
1300	rumping Station Facilities	Ф	-	2013	-	\$	1,650,000	φ	330,000	21.2	0)
				201.		Ψ	1,020,000				
1700	Collection Design	\$	27,243	2015	-	\$	182,000	\$	(88,000)	(32.6)	c)
				2014	-	\$	270,000				
1800	Collection Construction	\$	1,518,629	2015		\$	4,960,000	\$	(1,212,300)	(19.6)	d)
1800	Conection Construction	Φ	1,510,029	2013	-	\$	6,172,300	φ	(1,212,300)	(19.0)	u)
				2011		Ψ	0,172,300				
2700	Treatment Design	\$	504	2015	-	\$	1,059,100	\$	430,900	68.6	e)
				2014	-	\$	628,200				
2000	The state of the s	Φ.	5 520 405	2015		ф	11 010 000	Φ.	(17.054.700)	(60.2)	
2800	Treatment Construction	\$	5,539,487	2015 2014	-	\$ \$	11,818,000 29,672,700	3	(17,854,700)	(60.2)	f)
				2014	-	φ	29,072,700				
3700	Solids Processing Design	\$	-	2015	_	\$	2,414,000	\$	2,364,000	4,728.0	g)
				2014	-	\$	50,000				
2000		ф	4 505 500	2015			5 2 1 0 000		2271000		
3800	Solids Processing Construction	\$	1,597,632	2015 2014	-	\$ \$	6,240,800	\$	2,354,000	60.6	h)
				2014	-	Э	3,886,800				
4200	Waterways Control and Stormwater Reservoirs	\$	75,800	2015	-	\$	200,000	\$	(570,000)	(74.0)	i)
	•			2014	-	\$	770,000				
4335	Waterways Debris Removal	\$	36,099	2015	-	\$	250,000	\$	(250,000)	(100.0)	j)
				2014	-	\$	250,000				
4600	Monitoring	\$	1,050,275	2015	-	\$	2,825,000	\$	455,000	19.2	k)
		r	, , , .	2014	-	\$	2,370,000		,		ľ
4700	Flood & Pollution Control Design	\$	-	2015	-	\$	-	\$	(375,000)	(100.0)	1)
				2014	-	\$	375,000	l			1

- a) Decrease is due to the completion of 14-604-21, Lining of NS 11A Main Street Leg, NSA.
- b) Increase is due to the carryforward balance of 14-821-21, FD&I Rotating Assemblies for 95th and 125th St. Pumping Stations, CSA (\$500,000), offset by the completion of 12-906-21, Rehabilitation of Four Sewage Pump Rotating Assemblies, SWRP, RAPS (\$150,000).
- c) Decrease is due to the carryforward balance of 07-857-2S, Civil Consulting Support Services.
- d) Decrease is due to the completion of 11-961-21, Facility Roof Replacements and Associated Tuckpointing, SWRP, LASMA (\$1,301,000), offset by the addition of 14-922-21, FD&I Gas Detection System, WSPS (\$65,000).
- e) Increase is due to the addition of 14-817-2P, Evaluate Aeration Systems (\$298,100) and the increase for 09-401-2P, Master Underground Piping Survey, EWRP (\$222,000).
- f) Decrease is due to the deferral of 14-714-21, Restoration of Concrete Pavement, EWRP (\$541,700), the completion of 11-722-21, DCS Server Upgrade at the O'Brien WRP and North Branch PS, NSA (\$421,200), 13-926-21, F&D Heavy Equipment, CWRP, SWRP (\$1,030,000), AnitaMox Moving Bed Biofilm Reactor (\$3,575,000), and the change in funding to the Bond Fund of 14-801-21 (now 14-250-3P), Digester Gas Utilization, CWRP (\$9,771,800), and 14-920-21 (now 09-182-3E), Medium Voltage Cable Replacement, SWRP (\$2,400,000).
- g) Increase is due to the addition of 14-816-2P, Legal Advisor for Renewable Energy Projects (\$25,000), and professional services only for 14-250-3P, Digester Gas Utilization Facility, CWRP (\$455,000) and 11-240-3P, Organic Waste Receiving and Processing Facility, CWRP (\$1,934,000).
- h) Increase is due to the greater second year utilization of 12-932-21, Rehabilitation of Sludge Heat Exchangers, SWRP (\$1,050,000) and 11-403-2P, Membrane Gas Holder and Digester Cleaning, EWRP (\$1,408,200).
- i) Decrease is due to the deferral of 14-606-21, Repair of Maple and Linden Avenue Bridges, NSA (\$750,000), offset by the addition of 15-603-21, Waterways Telemetry Communication Pilot Study, SSA (\$200,000).
- j) Decrease is due to the completion of 14-611-21, F&D Skimmer Boats, District-wide.
- k) Increase is due to the addition of Technology Evaluation for Odor Control (\$100,000), Odor Modeling (\$100,000), and Biosolids Drying Pilot Testing (\$250,000).
- 1) Decrease is due to the cancellation of 06-841-2S, Collateral Channel Contaminated Sediment Remdiation Demonstration Project, SSA.

50000 CONSTRUCTION FUND

OBJECTIVES AND PROGRAM SUMMARY

PROGRA	AMS BY PRIORITY:		2013		В	Budgeted		Change		je.	
Number	Name		Actuals		Positions		Dollars		Dollars	Percent	
4800	Flood & Pollution Control Construction	\$	117,770	2015	-	\$	1,050,000	\$	950,000	950.0	m)
				2014	-	\$	100,000				
						_					
5800	Solids Disposal Construction	\$	-	2015	-	\$	-	\$	(150,000)	(100.0)	n)
				2014	-	\$	150,000				
7248	External Public Affairs	\$		2015		\$	_	\$	(400,000)	(100.0)	0)
7240	External rubite Arians	Ψ	_	2013	_	\$	400,000	Ψ	(400,000)	(100.0)	0)
				201.		Ψ	.00,000				
7284	Storing	\$	-	2015	-	\$	200,000	\$	200,000	100.0	p)
				2014	-	\$	-				
7286	Stores Operation and Issue - All Other Good (General)	\$	-	2015	-	\$	-	\$	(90,000)	(100.0)	q)
				2014	-	\$	90,000				
7255	Litigation	¢	527,408	2015		¢		\$	(73,000)	(100.0)	
7355	Litigation	\$	327,408	2013	-	\$ \$	73,000	Ф	(73,000)	(100.0)	r)
				2014	-	φ	75,000				
7367	Real Estate Asset Management	\$	_	2015	_	\$	305,800	\$	(444,200)	(59.2)	s)
	C			2014	_	\$	750,000		, , ,	` ′	ĺ
7380	Information Technology and Telecommunications	\$	-	2015	-	\$	1,661,000	\$	(622,000)	(27.2)	t)
				2014	-	\$	2,283,000				
	W. 000 P. H. G. 1 O. 1		2 00 4 702	2015				φ.	(44.5.000)	(2.1.0)	
7461	Main Office Building Complex Operations	\$	2,094,502	2015	-	\$	775,000	\$	(415,000)	(34.9)	u)
				2014	-	\$	1,190,000				
7480	Safety Program	\$	_	2015	_	\$	100,000	\$	100,000	100.0	v)
7400	Surety Program	Ψ		2013	_	\$	100,000	Ψ	100,000	100.0	'
						-					
7491	Automotive Fleet Procurement	\$	696,271	2015	-	\$	950,000	\$	50,000	5.6	
				2014	-	\$	900,000				
7500	Risk Management Operations	\$	-	2015	-	\$	-	\$	(125,000)	(100.0)	w)
				2014	-	\$	125,000				
77.45	Heility Daview	dr		2015		ď	500.000	ф	500,000	100.0	>
7745	Utility Review	\$	-	2015 2014	-	\$ \$	500,000	\$	500,000	100.0	x)
				2014	-	Ф	-				
	Totals	\$	13,306,678	2015	-	\$	37,840,700	\$	(15,465,300)	(29.0%)	1
	10000	-	- ,,- / 0	2014	_	\$	53,306,000		(-,,0)	(=== /0)	
I						_	,,				

- m) Increase is due to the addition of 14-824-2D, Rehabilitation of Bridges, NSA.
- n) Decrease is due to the completion of the Irrigation Line Rehabilitation, HPWRP.
- o) Decrease is due to the deferral of the Website Development project.
- p) Increase is due to the addition of a contract to Furnish, Deliver, and Install Racks for the O'Brien WRP Storeroom.
- q) Decrease is due to the receipt of a Storeroom Delivery Truck.
- r) Decrease is due to the completion of the professional services component of 13-RFP-14, Litigation Case and Document Management System.
- s) Decrease is due to the anticipated favorable award of the professional services component of Request for Proposal for Geographical Integrated System.
- t) Decrease is due to the deferral of the SAP Supplier Builder Relationship.
- u) Decrease is due to the lesser second year utilization of J15090-042, Rehabilitation of Elevator Mechanical Systems, MOBA.
- v) Increase is due to the addition of Outdoor Electronic Signs for Treatment Plants.
- w) Decrease is due to the completion of 13-RFP-15, Risk Management Information System.
- x) Increase is due to the addition of Illinois Department of Transportation Sewer Support Relocation.

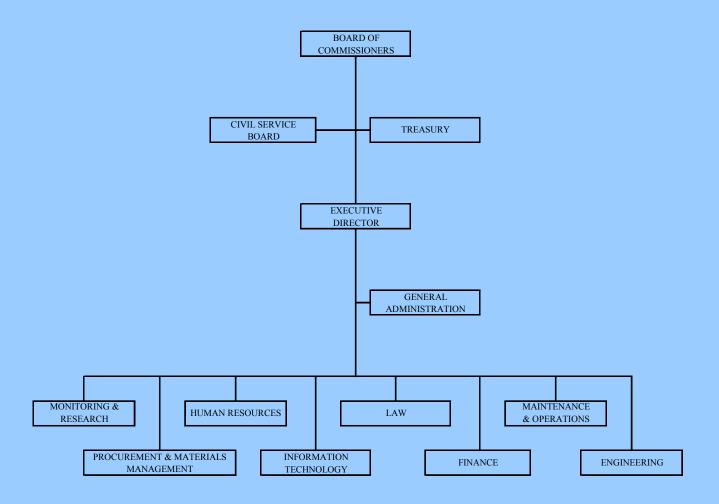
201 50000	Fund: Construction	LINE ITEM ANALYSIS								
30000	Department: Engineering Division:	2013		20	014		20)15		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment		
601170	Payments for Professional Services	\$ 743,180	\$ 6,885,500	\$ 5,810,500	\$ 4,067,679	\$ 3,200,000	\$ 4,133,800	\$ -		
601410	Personal Services Exp for Prelim Engineering Rpts & Studies	-	150,000	539,000	478,042	478,000	448,100	-		
601420	Personal Services Exp for Constr Drawings, Specs, & Cost Est	-	327,500	2,327,500	1,300,000	300,000	2,389,000	-		
601440	Personal Svcs for Post-Award Engr for Construction Projects	27,921	471,100	471,100	301,904	220,000	182,000	-		
100	TOTAL PERSONAL SERVICES	771,101	7,834,100	9,148,100	6,147,625	4,198,000	7,152,900	-		
612240	Testing and Inspection Services	-	40,000	40,000	10,000	-	10,000	-		
612250	Court Reporting Services	797	5,000	5,000	5,000	3,500	5,000	-		
612380	Soil and Rock Mechanics Investigation	-	30,000	30,000	30,000	20,000	40,000	-		
612490	Contractual Services, N.O.C.	-	192,000	192,000	49,500	49,500	400,000	-		
612600	Repairs to Collection Facilities	-	600,000	600,000	335,567	-	600,000	-		
612760	Repairs to Material Handling and Farming Equipment	-	-	-	-	-	625,000	-		
612820	Computer Software Maintenance	16,701	-	-	-	-	-	-		
612990	Repairs, N.O.C.	325	-	-	-	-	-	-		
200	TOTAL CONTRACTUAL SERVICES	17,823	867,000	867,000	430,067	73,000	1,680,000	-		
623250	Vehicle Parts and Supplies	-	-	78,000	70,096	70,100	50,000	-		
623270	Mechanical Repair Parts	-	1,500,000	2,289,500	2,289,500	300,000	2,900,000	-		
623300	Manhole Materials	25,058	-	-	-	-	-	-		
623520	Office, Printing, & Photo Supplies, Equipment, & Furniture	504	-	-	-	-	-	-		
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	-	25,000	25,000	16,795	16,800	20,000	-		
623810	Computer Supplies	-	233,000	433,000	347,236	347,300	200,000	-		
300	TOTAL MATERIALS AND SUPPLIES	25,562	1,758,000	2,825,500	2,723,627	734,200	3,170,000	-		
634600	Equipment for Collection Facilities	-	-	-	-	-	345,000	-		
634620	Equipment for Waterway Facilities	-	570,000	480,500	142,717	146,500	367,500	-		
634650	Equipment for Process Facilities	647,896	625,000	625,000	461,498	415,300	925,000	-		
634780	Safety and Medical Equipment	49,978	-	-	-	-	-	-		
634790	Marine Equipment	-	500,000	516,000	515,144	515,200	-	-		

201 50000	Fund: Construction Department: Engineering	LINE ITEM ANALYSIS										
	Division:	2013		20	014		20	015				
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment				
634810	Computer Equipment	-	-	470,000	-	-	534,000	-				
634820	Computer Software	-	-	161,000	120,503	120,600	40,000	-				
634860	Vehicle Equipment	696,290	2,896,000	2,818,000	2,643,056	2,000,000	900,000	-				
634990	Machinery and Equipment, N.O.C.	321,120	951,000	951,000	590,029	389,400	1,250,000	-				
400	TOTAL MACHINERY AND EQUIPMENT	1,715,284	5,542,000	6,021,500	4,472,947	3,587,000	4,361,500	-				
645600	Collection Facilities Structures	341,819	1,605,300	1,630,300	1,157,132	1,000,000	650,000	-				
645620	Waterway Facilities Structures	536,089	20,000	20,000	-	40,000	-	-				
645650	Process Facilities Structures	1,062,801	16,952,000	13,868,800	4,030,272	3,568,000	1,480,000	-				
645680	Buildings	2,495,684	3,697,500	4,435,700	4,294,606	3,446,900	4,078,800	-				
645690	Capital Projects, N.O.C.	-	750,000	159,000	-	-	2,450,000	-				
645700	Preservation of Collection Facility Structures	934,831	2,919,000	3,303,100	3,192,300	2,700,000	2,233,000	-				
645720	Preservation of Waterway Facility Structures	185,392	100,000	650,000	167,560	100,000	1,050,000	-				
645750	Preservation of Process Facility Structures	5,176,455	5,977,100	5,293,000	4,380,584	2,900,000	7,743,800	-				
645780	Preservation of Buildings	-	4,034,000	3,834,000	3,663,563	3,150,100	1,232,400	-				
645790	Preservation of Capital Projects, N.O.C.	43,837	1,250,000	1,250,000	330,000	-	558,300	-				
500	TOTAL CAPITAL PROJECTS	10,776,909	37,304,900	34,443,900	21,216,018	16,905,000	21,476,300	-				
TOTAL 1	ENGINEERING CONSTRUCTION	\$ 13,306,678	\$ 53,306,000	\$ 53,306,000	\$ 34,990,284	\$ 25,497,200	\$ 37,840,700	\$ -				

NOTES: 1. Amounts may not add up due to rounding.

^{2.} Departmental appropriation totals for salaries in the Line Item Analysis may differ from those contained in the Position Analysis by a factor identified to adjust for vacancies.

Additionally, Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.



CAPITAL IMPROVEMENTS BOND FUND

Fund Summary

The Capital Improvements Bond Fund is used when acquiring an asset that meets the definition of a capital asset: the cost typically exceeds \$500,000 and the useful life extends beyond five years. The Capital Improvements Bond Fund is funded by the sale of bonds and therefore use of these funds is governed by state statutes, federal guidelines, and applicable bond opinions.

Summary of 2014 Accomplishments

- Completed construction of the final tank rake arm assemblies and repair and replacement of preliminary tank concrete at the O'Brien Water Reclamation Plant (WRP);
- Completed the upgrade of the effluent and potable water piping at the O'Brien WRP;
- Completed the rehabilitation of Battery D Aeration Tank No. 8 at the O'Brien WRP;
- Completed the digester gas piping replacement and heating, ventilation, and air conditioning improvements at the Hanover Park WRP;
- Completed the sheet pile placement and bank stabilization of the North Branch of the Chicago River between Montrose and Berteau Avenues;
- Completed the upgrade of the elevators at the north and south pump houses at the Mainstream Pumping Station (MSPS);
- Awarded a construction agreement for the recovery of phosphorus, a valuable limited resource, from the centrate waste stream at the Stickney WRP;
- Awarded a construction contract for nine new primary settling tanks and aerated grit removal facilities for improved
 operations at the Stickney WRP;
- Awarded a construction contract to replace aging coarse screens and return sludge pump slide gates at the Egan WRP;
- Awarded a construction contract for final tank improvements and concrete rehabilitation to improve operational efficiencies at the O'Brien WRP;
- Awarded a construction contract for air main rehabilitation and diffuser plate replacement to improve the efficiency of air usage and return sludge withdrawal at the Stickney WRP;
- Awarded a construction contract to replace the Tunnel and Reservoir Plan (TARP) pumping station screens, which require
 manual cleaning, with a fully automated self-cleaning screen system at the Calumet WRP;
- Awarded a contract to Iowa State University to begin research on the phosphorus uptake of algae using a patented revolving biofilm reactor;
- Continued the nitrogen removal project at the Egan WRP. The new process will use cutting-edge technology for the cost-effective removal of nitrogen from the centrate, which will eliminate the need to convey and treat this waste stream at the O'Brien WRP.

Budget Highlights

Significant features of the 2015 budget are:

- The Capital Improvements Bond Fund's 2015 appropriation is \$490,196,900, an increase of \$103,988,600, or 26.9 percent, from 2014. There are no staff positions budgeted in the Capital Improvements Bond Fund. The 2015 appropriation includes funding for Stormwater Management capital projects and related costs;
- Complete the centrate nitrogen removal project at the Egan WRP;
- Issue requests for proposal for the development of a digester gas utilization facility and an organic waste receiving facility at the Stickney WRP;
- Award a construction contract to upgrade the digester gas sludge heating system at the Calumet WRP;
- Award a construction contract for the rehabilitation of the service and connecting tunnels at the Stickney WRP;
- Award a construction contract to replace the switchgear at the Stickney WRP;
- Award a construction contract to improve the digester gas piping and hot water system at the Hanover Park WRP;
- Award a construction contract for a digester gas utilization facility and an organic waste receiving and processing facility at the Calumet WRP;
- Award a construction contract to rehabilitate Pump No. 8, which has been in service for 29 years at the Mainstream Pumping Station;
- Continue construction of new disinfection facilities at the Calumet and O'Brien WRPs;
- Continue construction of a wet weather treatment facility and reservoir at the Lemont WRP;
- Continue construction of a process to recover phosphorus from the centrate waste stream at the Stickney WRP;
- Continue construction of nine new primary settling tanks and aerated grit removal facilities for improved operations at the Stickney WRP.

397

2015 Initiatives in Support of the Strategic Plan Include the Following:

Add Value

- o Optimize use of digester gas;
- o Recover valuable resources and reduce the consumption of energy by improving treatment processes;
- Stabilize Capital Improvement Program project expenditures;
- Fully utilize digester gas to reduce the energy demand from outside sources and reduce the carbon footprint and air pollutants associated with conventional energy sources;
- o Develop a program for receiving organic waste streams for co-digestion, that both increases energy production and reduces waste products going to landfills.

Excellence

- Strive to achieve best-in-class in performance for budgeting and scheduling of all capital improvement projects;
- o After construction is completed, contracts are reviewed to document best practices to foster continuous improvement;
- o Apply comprehensive metrics to manage Capital Improvement Program projects for best-in-class performance;
- o Continue to lead the industry and exceed contractor expectations by promptly processing and paying invoices for completed work, in less than 30 days after submittal;
- Achieve multiple environmental benefits by recovering and reusing phosphorus in lieu of phosphate rock, which must be mined and transported for use;
- o Remove nutrients from the waste stream to benefit downstream receiving waters and ecosystems.

Resource Recovery

- o Promote the ongoing work of effluent disinfection at the Calumet and O'Brien WRPs;
- o Highlight phosphorus recovery and nutrient removal;
- o Optimize use of digester gas;
- o Recover valuable resources and reduce the consumption of energy by improving treatment processes.

398

CAPITAL PROJECTS LISTED BY SERVICE AREA - CAPITAL IMPROVEMENTS BOND FUND

The following is a list of capital projects within the District's three major service areas. They are presented by their association with a Water Reclamation Plant (WRP) and by their completion status: projects under construction, for 2015 award, or under development.

Bold type indicates projects to be financed by "Unlimited Tax Bonds".

STICKNEY SERVICE AREA (SSA)



Stickney Water Reclamation Plant (SWRP)

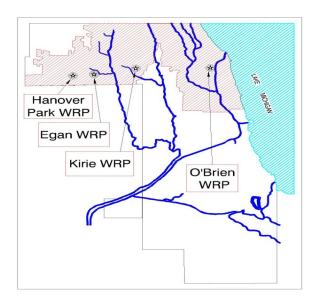
Projects Unde	er Construction (with estimated completion date)	Estimated	Estimated Construction Cost		
73-161-DH	McCook Reservoir Expanded Stage 2 Overburden Removal, SSA (10/2015)		\$	18,657,000	
04-128-3P	West Side Primary Settling Tanks 1-9 and Aerated Grit Facility, SWRP (3/2018)			206,458,000	
04-131-2D	Rehabilitation of the A/B and C/D Service Tunnels – Phase I, SWRP (8/2016)			13,615,000	
06-158-3S	Des Plaines River Intercepting Sewer Rehabilitation, SSA (1/2016)			13,261,000	
09-176-3P	Sludge Thickening Facilities, SWRP (11/2016)			162,232,000	
09-181-3P	Battery C Airlift and Air Main Rehabilitation and Aeration Tanks No. 6, 7, 8			5,500,000	
	Diffuser Plate Replacement, SWRP (11/2016)				
10-880-3H	TARP Control Structure Rehabilitation, NSA, SSA, and CSA (8/2016)			14,410,000	
11-195-AP	Phosphorus Recovery System, SWRP (2/2016)			31,879,000	
		Total	\$	466,012,000	

Projects for 2015 Award

02-111-3M	TARP Pump #8 Rehabilitation, MSPS		4,500,000
04-132-3D	A/B and C/D Service Tunnel and Connecting Tunnel Rehabilitation -		10,000,000
	Phase II, SWRP		
06-155-3S	Salt Creek Intercepting Sewer 2 Rehabilitation, SSA		41,000,000
09-182-3E	D799 Switchgear Replacement, SWRP		7,500,000
11-189-3P	Digester Gas Utilization Facilities, SWRP		50,000,000
11-191-3M	Boiler No. 6 Installation and Turbine Removal, SWRP		3,000,000
13-106-4F	McCook Reservoir Des Plaines Inflow Tunnel		155,000,000
13-199-3F ^	Flood Control Project on the Des Plaines River in Lyons		9,800,000
14-108-3F * ^	Streambank Stabilization Projects for Addison Creek [CIBF = \$450,000;		450,000
	Stormwater Management Fund = \$400,000]		
14-109-3D	Safety Railing around Tanks, SWRP		 3,000,000
		Total	\$ 284,250,000

Projects Unde	r Development	Estimated	l Co	nstruction Cost
01-103-AS	39 th Street Conduit Rehabilitation – Phase II, SSA		\$	24,700,000
05-146-3M	Mainstream TARP Pumps Rehabilitation, SWRP			12,000,000
08-173-3V	Aquatic Ecology & Water Equipment Storage Building and Austin Avenue			1,900,000
	Gatehouse, SWRP			
08-174-3D	Final Settling Tanks Battery A, B, C & D, Rehabilitation of Concrete , SWRP			6,500,000
11-186-3F ^	Addison Creek Reservoir			104,327,000
11-187-3F ^	Addision Creek Channel Improvements			29,595,000
11-190-3P	Digester Gas Storage Facilities, SWRP			15,000,000
12-801-3P	Odor Control Facilities, SWRP			20,000,000
13-101-3P	Deammonification System, SWRP			30,000,000
14-115-3F	Wet Weather Relief Program (four projects budgeted at \$100,000,000 per year)			400,000,000
		Total	\$	644,022,000
	Stickney Service Area Gran	nd Total	\$	1,394,284,000

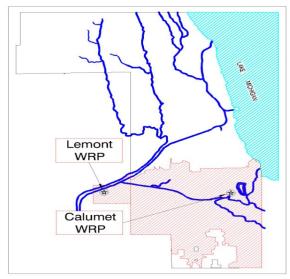
NORTH SERVICE AREA (NSA)



Terrence J.	. O'Brien Water Reclamation Plant (OWRP)			
Projects Unde	er Construction (with estimated completion date)	Estimate	d Cons	struction Cost
08-041-3P	Rehabilitation of Final Settling Tanks 11, 12, 13, and 14 in Batteries A, B, and C, OWRP (3/2015)		\$	2,682,000
11-054-3P	Disinfection Facilities, OWRP (12/2015)			60,000,000
12-057-3S	North Shore Intercepting Sewer No. 2 Rehabilitation, NSA (8/2015)			4,934,000
		Total	\$	67,616,000
Projects for 2	015 Award			
11-052-3F ^	Streambank Stabilization Projects for the Middle Fork and West Fork of the North Branch of the Chicago River		\$	2,496,000
10-884-AF ^	Flood Control Project for Upper Salt Creek			1,097,000
12-056-3F ^	Flood Control Project on Farmers and Prairie Creeks			14,595,000
		Total	\$	18,188,000
Projects Und	er Development			
10-047-3S	North Shore 1 Rehabilitation, NSA		\$	20,000,000
11-053-3D	Devon Instream Aeration Station Rehabilitation			1,200,000
12-055-3F ^	Flood Control Project for the West Fork of the North Branch of the Chicago River			25,000,000
		Total	\$	46,200,000
	an Water Reclamation Plant (EWRP) er Construction (with estimated completion date)			
06-494-3P±	Centrifuge Building and Sludge Loading System Upgrades, EWRP and HPWRP (3/2015) [Construction Fund = \$43,000; CIBF = \$9,001,000]		\$	9,001,000
11-405-3M	Coarse Screens and Raw Sewage Pump Slide Gates Replacement, EWRP (2/2016)			2,714,000
13-409-3P	Nitrogen Removal in Centrate, EWRP (8/2015)		_	8,524,000
		Total	\$	20,239,000

Projects Und	er Development	Estimated	Con	struction Cost
14-xxx-3P	Odor Control Facilities, EWRP		\$	20,000,000
11-404-3S	Upper Des Plaines Intercepting Sewer 11D, Ext. C Rehabilitation, NSA			5,500,000
		Total	\$	25,500,000
James C. K	irie Water Reclamation Plant (KWRP)			
Project Unde	r Construction (with estimated completion date)			
06-357-3S	Upper Des Plaines Intercepting Sewer 20B Rehabilitation, NSA (2/2015)		\$	6,367,000
		Total	\$	6,367,000
Projects Und	er Development			
06-358-3M	Gate Control Equipment Upgrade at TARP Control Structures, KWRP, NSA		\$	2,200,000
06-360-3S	Upper Des Plaines Intercepting Sewer 14B Rehabilitation, NSA			6,700,000
12-369-3S	Upper Des Plaines Intercepting Sewer 11D Rehabilitation, NSA			5,500,000
13-370-3F ^	Buffalo Creek Reservoir Expansion			15,000,000
		Total	\$	29,400,000
Hanover Pa	ark Water Reclamation Plant (HPWRP) 015 Award			
11-531-3M	Central Boiler Facility and Electrical Updates, HPWRP		\$	10,000,000
		Total	\$	10,000,000
Project Unde	r Development			
11-533-3P	Final Settling Tanks Improvements, HPWRP		\$	10,000,000
		Total	\$	10,000,000
	North Service Area Gra	nd Total	\$	233,510,000

CALUMET SERVICE AREA (CSA)



	Tater Reclamation Plant (CWRP) er Construction (with estimated completion date)	Estimate	d Con	struction Cost
04-201-4F	Tollway Dam, Grout Curtain & Quarry Plugs, Thornton Composite Reservoir, CSA (5/2015)		\$	71,926,000
04-202-4F	Connecting Tunnels and Gates, Thornton Composite Reservoir, CSA (5/2015)			135,476,000
04-203-4F	Final Reservoir Preparation, Thornton Composite Reservoir, CSA (11/2015)			50,922,000
06-212-3M	Calumet TARP Pumping Station Improvements, CWRP (5/2018)			35,067,000
11-241-3P	Disinfection Facilities, CWRP (8/2015)			32,000,000
13-246-3M	Calumet TARP Screens, CWRP (12/2018)			9,800,000
		Total	\$	335,191,000
Projects for 2	015 Award			
06-213-3M	Digester Sludge Heating System Upgrades and Boiler Removal, CWRP		\$	6,000,000
10-237-3F ^	Streambank Stabilization Project on Oak Lawn Creek			4,100,000
10-882-AF ^	Streambank Stabilization Project on Tinley Creek in Orland Park, IL			3,806,000
10-882-BF ^	Streambank Stabilization Project along Calumet Union Drainage Ditch			1,839,000
10-882-CJ ^	Streambank Stabilization Project along Midlothian Creek			307,000
10-883-BF ^	Flood Control Project at Arrowhead Lake in the City of Palos Heights, IL			509,000
10-883-CF ^	Flood Control Project on the East Branch of Cherry Creek in Flossmoor, IL			3,410,000
10-884-BF ^	Flood Control Project for Deer Creek			3,440,000
11-239-3S	Calumet Intercepting Sewer 19F Rehabilitation, CSA			12,000,000
11-240-3P	Organic Waste Receiving and Processing Facility, CWRP			27,000,000
13-248-3F ^	Streambank Stabilization Project on Melvina Ditch			8,000,000
14-250-3P	Digester Gas Utilization Facilities, CWRP			13,000,000
		Total	\$	83,411,000
Projects Unde	er Development			
08-228-3V	Vehicle Maintenance Building, CWRP		\$	7,000,000
09-230-3M	Screens and Conveyor Improvements at 125th Street Pumping Station, CSA			3,825,000
11-242-3S	Palos Hills Pumping Station Force Main, CSA			20,000,000
12-245-3P	Phosphorus Recovery System, CWRP			31,000,000
14-114-3P	Odor Control Facilities, CWRP			20,000,000
14-116-3P	Biosolids Processing Facility, CWRP		_	48,000,000
		Total	\$	129,825,000

Lemont Water Reclamation Plant (LWRP)

10-716-3P

Project Under Construction (with estimated completion date)

Wet Weather Treatment Facility and Reservoir, LWRP (12/2015)

Estimated Construction Cost

\$\\\ 30,000,000\\
Total \\$\\ \\ 30,000,000\\

Calumet Service Area Grand Total \$ 578,427,000

Capital Projects Grand Total - All Service Areas \$ 2,206,221,000

 $[\]pm$ These projects are funded by the Capital Improvements Bond Fund (CIBF) and the Construction Fund.

^{*} This project is funded by the Capital Improvements Bond Fund and the Stormwater Management Fund.

[^] These projects are part of the Stormwater Management Fund Program. Detailed information about this fund and these projects appears in Section VI of this budget book.

Capital Improvements Bond Fund Program

				Est.				
Δw	ards in 2015		(Constr-	Dura-			Est.
<u> </u>	urus in 2015	Project		uction	tion	Prof.	Land	Award
#	Project Name	Number		Cost	(days)	Svcs.	Cost	Date
1	D799 Switchgear Replacement, SWRP	09-182-3E	\$	7,500	730	\$ -	\$ -	Jan-15
2	Central Boiler Facility and Electrical Updates, HPWRP	11-531-3M		10,000	1,095	-	-	Feb-15
3	TARP Pump #8 Rehabilitation, MSPS	02-111-3M		4,500	300	-	-	Mar-15
4	Digester Sludge Heating System Upgrades and Boiler Removal, CWRP	06-213-3M		6,000	540	-	-	May-15
5	Boiler No. 6 Installation and Turbine Removal, SWRP	11-191-3M		3,000	750	-	-	Jun-15
6	Safety Railing around Tanks, SWRP	14-109-3D		3,000	400	-	-	Jun-15
7	McCook Reservoir Des Plaines Inflow Tunnel	13-106-4F		155,000	850	-	-	Jun-15
8	Digester Gas Utilization Facilities, SWRP	11-189-3P		50,000	1,095	-	-	Jun-15
9	Organic Waste Receiving and Processing Facility, CWRP	11-240-3P		27,000	540	-	-	Jul-15
10	A/B & C/D Service Tunnel and Connecting Tunnel Rehabilitation - Phase II, SWRP	04-132-3D		10,000	1,278	-	-	Jul-15
11	Calumet Intercepting Sewer 19F Rehabilitation, CSA	11-239-3S		12,000	620	-	_	Aug-15
12	Digester Gas Utilization Facilities, CWRP	14-250-3P		13,000	540	-	_	Aug-15
13	Salt Creek Intercepting Sewer 2 Rehabilitation, SSA	06-155-3S		41,000	1,000	-	-	Sep-15
	Total 2015 Awards		\$	342,000		\$ -	\$ -	_
				Est.				

Projects Under Development			Est.				_
110	<u>jects Under Development</u>	ъ .	Constr-	Dura-	D C	Y 1	Est.
,,	D. C. A.	Project	uction	tion	Prof.	Land	Award
#	Project Name	Number	Cost	(days)	Svcs.	Cost	Date
14	Wet Weather Relief Program	14-115-3F	\$ 100,000	365	\$ -	\$ -	Mar-16
15	Biosolids Processing Facility, CWRP	14-116-3P	48,000	365	-	-	Mar-16
16	39th Street Conduit Rehabilitation - Phase II, SSA	01-103-AS	24,700	770	-	-	Jun-16
17	Mainstream TARP Pumps Rehabilitation, SWRP	05-146-3M	12,000	455	-	-	Oct-16
18	North Shore 1 Rehabilitation, NSA	10-047-3S	20,000	650	-	-	Dec-16
19	Palos Hills Pumping Station Force Main, CSA	11-242-3S	20,000	500	-	-	Dec-16
20	Devon Instream Aeration Station Rehabilitation	11-053-3D	1,200	400	-	-	Jan-17
21	Phosphorus Recovery System, CWRP	12-245-3P	31,000	900	-	-	Jan-17
22	Upper Des Plaines Intercepting Sewer 11D, Ext. C	11-404-3S	5,500	450	-	-	Feb-17
	Rehabilitation, NSA						
23	Wet Weather Relief Program	14-115-3F	100,000	365	-	-	Mar-17
24	Odor Control Facilities, SWRP	12-801-3P	20,000	2,200	-	-	Mar-17
25	Upper Des Plaines Intercepting Sewer 11D	12-369-3S	5,500	450	-	-	Aug-17
	Rehabilitation, NSA						
26	Deammonification System, SWRP	13-101-3P	30,000	550	-	-	Sep-17
27	Gate Control Equipment Upgrade at TARP Control	06-358-3M	2,200	540	-	-	Oct-17
	Structures, KWRP, NSA						
28	Aquatic Ecology & Water Equipment Storage	08-173-3V	1,900	400	-	-	Nov-17
	Building and Austin Avenue Gatehouse, SWRP						
29	Digester Gas Storage Facilities, SWRP	11-190-3P	15,000	1,095	-	-	Jan-18
30	Upper Des Plaines Intercepting Sewer 14B	06-360-3S	6,700	360	-	-	Mar-18
	Rehabilitation, NSA						
31	Wet Weather Relief Program	14-115-3F	100,000	365	-	-	Mar-18
32	Odor Control Facilities, CWRP	14-114-3P	20,000	365	-	-	Mar-18

405

				Est.						
Pro	jects Under Development (continued)			Constr-	Dura-					Est.
		Project		uction	tion	Pro	of.	La	nd	Award
#	Project Name	Number		Cost	(days)	Sv	cs.	Co	st	Date
33	Final Settling Tanks Improvements, HPWRP	11-533-3P	\$	10,000	730	\$	-	\$	-	Dec-18
34	Wet Weather Relief Program	14-115-3F		100,000	365		-		-	Mar-19
35	Odor Control Facilities, EWRP	14-xxx-3P		20,000	365		-		-	Mar-19
36 *	Screens and Conveyor Improvements at 125th Street	09-230-3M		3,825	450		-		-	Jul-19
	Pumping Station, CSA									
37	Final Settling Tanks Battery A, B, C, & D,	08-174-3D		6,500	370		-		-	Aug-19
	Rehabilitation of Concrete, Stickney WRP									
38	Vehicle Maintenance Building, CWRP	08-228-3V		7,000	1,200		-		-	Oct-19
	Total Future Awards		\$	711,025		\$		\$		
	Total Future Awards		Ф	711,023		φ		φ		
	Cumulative 2015 and Future Awards		\$	1,053,025		\$	-	\$	-	

^{*}This project is funded by the Capital Improvements Bond Fund and the Corporate Fund.

Note: All cost figures are in thousands of dollars; inflation factor is 0 percent.

Method of Financing

State	General			
Revolving	Obligation			
Fund Loans	Bonds		<u>Total</u>	
\$ -	\$ 155,000	\$	155,000	Tunnel and Reservoir Plan
70,500	101,500		172,000	Water Reclamation Plant
				Expansion and Improvements
70,000	48,000		118,000	Solids Management
75,700	401,900		477,600	Collection Facilities
110,400	20,025		130,425	Replacement of Facilities
\$ 326,600	\$ 726,425	\$1	1.053.025	-

Capital Improvements Bond Fund Program Operating Impacts

			Justification				Impact		
#	Project Name	Project Number	Capacity Needs	$U_{seful}L_{if_e}$	$E_{conomicBenefit}$	Safety/Regulatory	$M_{anpow_{er}}$	$E_{nerg_{\mathcal{V}}}$	Chemical
Awa	<u>ards in 2015</u>								
1	D799 Switchgear Replacement, SWRP	09-182-3E		X			=	=	=
2	Central Boiler Facility and Electrical Updates, HPWRP	11-531-3M		X	X	X	+	++	II
3	TARP Pump #8 Rehabilitation, MSPS	02-111-3M		X			+	+	=
4	Digester Sludge Heating System Upgrades and Boiler Removal, CWRP	06-213-3M		X	X	X	+	=	=
5	Boiler No. 6 Installation and Turbine Removal, SWRP	11-191-3M	х	X			+	+	=
6	Safety Railing around Tanks, SWRP	14-109-3D				X	=	=	=
7	McCook Reservoir Des Plaines Inflow Tunnel	13-106-4F		X			+	+	=
8	Digester Gas Utilization Facilities, SWRP	11-189-3P			X		=	++	=
9	Organic Waste Receiving and Processing Facility, CWRP	11-240-3P			Х			-	=
10	A/B & C/D Service Tunnel and Connecting Tunnel Rehabilitation - Phase II, SWRP	04-132-3D		X			=	=	=
11	Calumet Intercepting Sewer 19F Rehabilitation, CSA	11-239-3S		X			=	=	=
12	Digester Gas Utilization Facilities, CWRP	14-250-3P			X		-	++	=
13	Salt Creek Intercepting Sewer 2 Rehabilitation, SSA	06-155-3S		X			=	+	=
<u>Pro</u>	viects Under Development Wet Weather Relief Program	14-115-3F	х		Τ	Τ	=	I =	=
15	Biosolids Processing Facility, CWRP	14-115-31 14-116-3P	Λ			X	=	=	=
16	39th Street Conduit Rehabilitation - Phase II, SSA	01-103-AS		X	X	Λ	=	=	=
17	Mainstream TARP Pumps Rehabilitation, SWRP	05-146-3M		X			=	=	=
18	North Shore 1 Rehabilitation, NSA	10-047-3S		X			=	=	=
19	Palos Hills Pumping Station Force Main, CSA	11-242-3S		X			=	=	=
20	Devon Instream Aeration Station Rehabilitation	11-053-3D		X			=	=	=
21	Phosphorus Recovery System, CWRP	12-245-3P			1	Х	-	-	-
22	Upper Des Plaines Intercepting Sewer 11D, Ext. C Rehabilitation, NSA	11-404-3S		X			=	=	=
23	Wet Weather Relief Program	14-115-3F	Х				=	=	=
24	Odor Control Facilities, SWRP	12-801-3P				Х	=	=	=
25	Upper Des Plaines Intercepting Sewer 11D Rehabilitation, NSA	12-369-3S		X	X		=	=	=
26	Deammonification System, SWRP	13-101-3P	х				=	-	=
27	Gate Control Equipment Upgrade at TARP Control Structures, KWRP, NSA	06-358-3M		X			=	=	=
28	Aquatic Ecology & Water Equipment Storage Building and Austin Avenue Gatehouse, SWRP	08-173-3V	Х	X			=	=	=
29	Digester Gas Storage Facilities, SWRP	11-190-3P			X		=	+	=

	Capital Improvements Bond Fund Operating Impacts for Projects Under Development			Justifi	cation			Impact	
	ntinued)	Project	$C_{apacity}$ N_{eed_S}	$U_{SefulLife}$	$E_{Conomic\ Benefit}$	Safety/Regulatory	$M_{anpower}$	<i>1</i> 32	$\it Chemical$
#	Project Name	Number	C_{dp}	U_{Se}	E_{CO_0}	S_{afe}	$M_{a_{I_I}}$	E_{nergy}	$Ch_{\mathbf{e}_{\mathbf{c}}}$
30	Upper Des Plaines Intercepting Sewer 14B Rehabilitation, NSA	06-360-3S		Х			=	=	=
31	Wet Weather Relief Program	14-115-3F	X				=	=	=
32	Odor Control Facilities, CWRP	14-114-3P				X	=	=	=
33	Final Settling Tanks Improvements, HPWRP	11-533-3P		X			=	=	=
34	Wet Weather Relief Program	14-115-3F	X				=	=	=
35	Odor Control Facilities, EWRP	14-xxx-3P				X	=	=	=
36	Screens and Conveyor Improvements at 125th Street Pumping Station, CSA	09-230-3M		Х			=	=	=
37	Final Settling Tanks Battery A, B, C, & D, Rehabilitation of Concrete, Stickney WRP	08-174-3D		Х			=	=	=
38	Vehicle Maintenance Building, CWRP	08-228-3V	X	X			=	-	=

		LEGENI	<u> </u>							
Under	Under "Justification", the marked columns note the categories of benefits expected from each project.									
	Manpower									
+ or -	Labor savings (+) or increases (-) expected to result in redirecting existing manpower away from or toward facility or process to other tasks with no net change in total position co	++ or	Labor impact significant enough to ultimately result in reduction (++) or increase () in personnel. See additional cost details contained in the Project Fact Sheets.							
		Energy								
+ or -	Minor energy savings (+) or costs (-) having a negligible impact on the District's overall energy budget.	++ or	Major energy savings (++) or costs () expected to result in significant revisions to a facility's energy budget. See additional cost details contained in the Project Fact Sheets.							
		Chemica	l							
+ or -	Chemical savings (+) or costs (-) having a negligible impact on the District's overall chemical costs.	++ or	Major chemical savings (++) or costs () expected to result in significant revisions to the budgeted chemical expenditures for the associated process. See additional cost details contained in							
=	No budgetary impact expected.		the Project Fact Sheets.							

TARP PHASE 2 PROJECT COSTS

Though only partially complete, TARP has already been effective in reducing pollution and flooding. In order to substantially resolve the pollution and flooding problems in the Chicagoland combined sewer area, the reservoirs component of TARP must be completed. The Majewski Reservoir is completed and functional, and the larger two reservoirs, McCook and Thornton, are under design and construction. McCook and Thornton Reservoir project costs are shown in the tables below.

McCook Reservoir

		I	Estimated Cost	(in thousand		
Project Name	Project Number	Outside Engineering	Construction	Total	Eligible for Federal Cost Sharing	Status
McCook Reservoir - Army Corps Work	73-161-2H	\$83,000	\$528,000	\$611,000	\$596,000	Army Corps Projects, MWRD pays 25%
Conveyance Tunnel	73-161-AH	891	4,537	5,428	0	Completed
Site Preparation	73-161-BH	0	889	889	307	Completed
Overburden Removal	73-161-CH	500	65,816	66,316	0	Completed
Expanded Stage 2 Overburden Removal	73-161-DH	0	18,657	18,657	0	Under Construction
Vulcan Excavation Agreement Hard Costs	73-161-EH	35	93,710	93,745	0	Stage 1 Mining Underway
Expanded Stage 2 Hard Costs	-	0	8,200	8,200	0	To be Negotiated with Vulcan
Vulcan Conveyor & Maintenance Facilities	73-161-FH	1,817	30,564	32,381	1,753	Completed
Vulcan Miscellaneous Mining Vehicles	73-161-GH	0	4,884	4,884	0	Completed
Vulcan Mining Trucks and Loaders	73-161-HH	0	11,105	11,105	0	Completed
Stage 2 Misc. Overburden Removal	73-161-JH	0	6,510	6,510	0	Completed
Furnish and Deliver Primary Crusher	PO3030920	0	1,626	1,626	0	Completed
Willow Springs Berm	96-249-2P	0	3,593	3,593	0	Completed
73rd Street Tunnel Relocation	97-156-2H	129	15,003	15,132	15,132	Completed
Des Plaines Inflow Tunnel	13-160-4F	2,071	150,000	152,071	TBD	Design
MWRD Engineering/PM	-	2,500		2,500	,	Ongoing
MWRD Land Value	-	38	5,375	5,413	5,413	Completed

Total Project Cost \$90,981 \$948,469 \$1,039,450 \$621,105

Total McCook Reservoir Project Costs	\$1,039,450
-Amount Ineligible for Cost Sharing	418,345
-Amount Eligible for Cost Sharing	621,105
Corps' Share (75%)	465,829
MWRD's Share (25%)	155,276
MWRD's Cash Payments to Date	113,519
MWRD's Estimated Credits	24,286
Estimated Remaining Payments to Corps	17,471

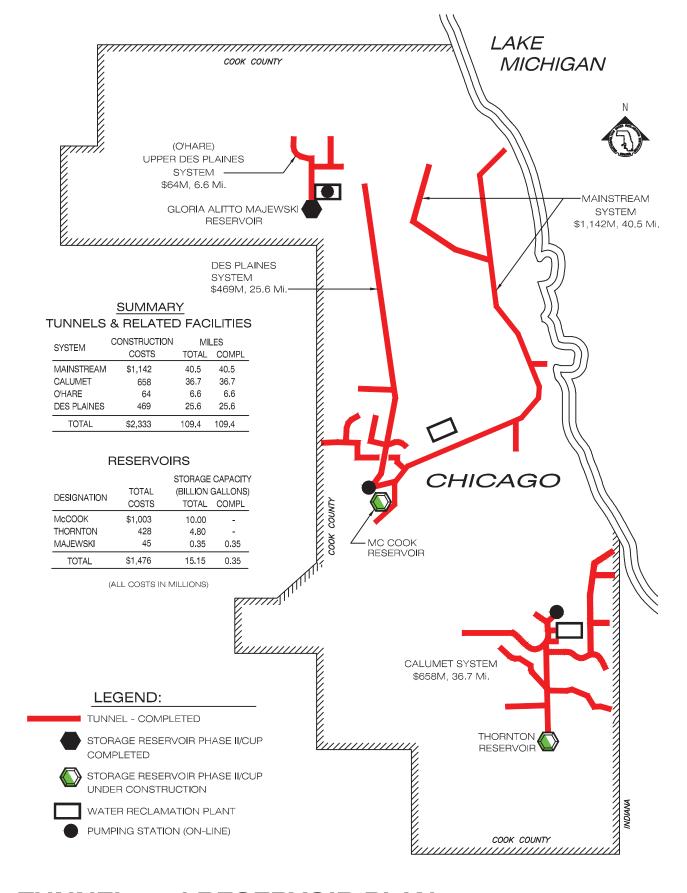
Note: Through 2013 the MWRD has received \$8.5 million in royalty payments from Vulcan for sale of the rock mined from the site. It is estimated that the The MWRD will receive a total of \$36 million in royalties over the life of the project, offsetting some of the MWRD's costs.

Thornton Reservoir

	I	Estimated Cost (in thousands)			
Project	Outside			Eligible for Federal Cost	
Number	Engineering	Construction	Total	Sharing	Status
77-235-AF	\$467	\$3,931	\$4,398	\$4,398	Completed
77-235-BF	2,970	51,737	54,707	32,079	Completed
77-235-CF	0	529	529	0	Completed
JOC	0	1,674	1,674	0	Completed
77-235-2F	0	140	140	140	Completed
77-235-2F	0	25,647	25,647	12,525	Thornton is completed; McCook is ongoing
77-235-2F	0	22,658	22,658	15,485	Completed
77-235-2F	0	8,169	8,169	8,169	Mostly Completed
77-235-2F	6,345	0	6,345	6,345	Completed
04-201-4F	17,107	72,045	89,152	89,152	Under Construction
04-202-4F	13,308	136,078	149,386	149,386	Under Construction
04-203-4F	9,850	50,922	60,772	60,772	Under Construction
04-203-AF					Under Design
-	3,500	0	3,500	3,500	Ongoing
	77-235-AF 77-235-BF 77-235-CF JOC 77-235-2F 77-235-2F 77-235-2F 77-235-2F 77-235-2F 04-201-4F 04-202-4F 04-203-4F	Project Number Engineering 77-235-AF \$467 77-235-BF 2,970 77-235-CF 0 JOC 0 77-235-2F 0 77-235-2F 0 77-235-2F 0 77-235-2F 0 77-235-2F 0 77-235-2F 1,107 04-201-4F 17,107 04-202-4F 13,308 04-203-4F 9,850 04-203-AF 408	Project Number Engineering Construction 77-235-AF \$467 \$3,931 77-235-BF 2,970 51,737 77-235-CF 0 529 JOC 0 1,674 77-235-2F 0 25,647 77-235-2F 0 22,658 77-235-2F 0 8,169 77-235-2F 6,345 0 04-201-4F 17,107 72,045 04-202-4F 13,308 136,078 04-203-4F 9,850 50,922 04-203-AF 408 600 - 3,500 0	Project Number Outside Engineering Construction Total 77-235-AF \$467 \$3,931 \$4,398 77-235-BF 2,970 51,737 54,707 77-235-CF 0 529 529 JOC 0 1,674 1,674 77-235-2F 0 140 140 77-235-2F 0 25,647 25,647 77-235-2F 0 8,169 8,169 77-235-2F 0 8,169 8,169 77-235-2F 6,345 0 6,345 04-201-4F 17,107 72,045 89,152 04-202-4F 13,308 136,078 149,386 04-203-4F 9,850 50,922 60,772 04-203-AF 408 600 1,008 - 3,500 0 3,500	Project Number Engineering Construction Total Sharing 77-235-AF \$467 \$3,931 \$4,398 \$4,398 77-235-BF 2,970 51,737 54,707 32,079 77-235-CF 0 529 529 0 10C 0 1,674 1,674 0 140 140 140 140 77-235-2F 0 25,647 25,647 12,525 77-235-2F 0 22,658 22,658 15,485 77-235-2F 0 8,169 8,169 8,169 77-235-2F 0,345 0 6,345 6,345 0,4-201-4F 17,107 72,045 89,152 89,152 04-202-4F 13,308 136,078 149,386 149,386 04-203-4F 9,850 50,922 60,772 60,772 04-203-AF 408 600 1,008 1,008 - 3,500 0 3,500 3,500

Total Project Costs \$53,955 \$374,130 \$428,085 \$382,959

Total Thornton Reservoir Project Costs	\$428,085
-Amount Ineligible for Cost Sharing	45,126
-Amount Eligible for Cost Sharing	382,959
Corps' Share (75%)	287,219
MWRD's Share (25%)	95,740



TUNNEL and RESERVOIR PLAN PROJECT STATUS

McCook Reservoir Expanded Stage 2 Overburden Removal, SSA

Project Number: 73-161-DH

Service Area: Stickney

Location: Lyons Township

Engineering Consultant: In-house design

General Contractor: The Lane Construction Corporation

Estimated Construction Cost: \$18,657,000

Contract Award Date: November 1, 2012

Substantial Completion Date: October 16, 2015*



Project Description: The expanded Stage 2 portion of the McCook Reservoir replaces the originally planned Stage 3 and expands the reservoir to include former sludge drying lagoons 21 and 22 at the Lawndale Avenue Solids Management Area. This project will remove the overburden on lagoons 21 and 22 to allow for the underlying rock to be mined.

<u>Project Justification</u>: The McCook Reservoir project is an essential part of the District's Tunnel and Reservoir Plan to prevent flooding and pollution from combined sewer overflows (CSO). The expanded Stage 2 portion of the reservoir is required to reach the 10 billion gallon capacity included in the District's CSO Long-Term Control Plan for complying with federal and state water quality standards.

Project Status: This project is under construction.

^{*}Information shown is estimated.

TARP Pump #8 Rehabilitation, MSPS

Project Number: 02-111-3M

Service Area: Stickney

Location: Mainstream Pumping Station

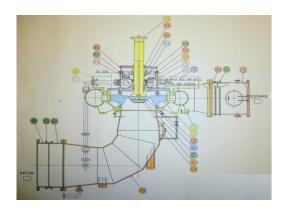
Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$4,500,000

Contract Award Date: March 1, 2015*

Substantial Completion Date: December 15, 2015*



Project Description: The purpose of this project is to completely overhaul the pump and motor of Main Sewage Pump No. 8 in the north pump house of the Mainstream Pumping Station. Also, the new inflatable seal design utilized on new Pumps No. 2 and No. 6 will be installed on Pump No. 8. This contract will serve as the model for the overhaul of the other five original installations.

<u>Project Justification</u>: The complete overhaul of the pump and motor involves the installation of new parts and current technology components, which will reduce the maintenance labor required for both pieces of equipment and improve reliability. The new inflatable seal design will increase the life of the mechanical seal and decrease leakage. The pump and motor will operate more efficiently by pumping more liquid in less time, leading to reduced electricity usage to power the pump. The overhaul will extend the useful life of the pump and motor, which have been in service since May 1985.

Project Status: This project is being designed.

^{*}Information shown is estimated.

West Side Primary Settling Tanks 1-9 and Aerated Grit Facility, SWRP

Project Number: 04-128-3P

Service Area: Stickney

Location: Stickney WRP

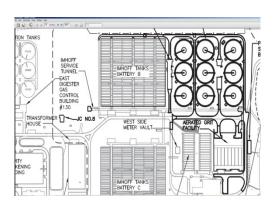
Engineering Consultant: Greeley & Hansen

General Contractor: To be determined

Estimated Construction Cost: \$206,458,000

Contract Award Date: November 6, 2014*

Substantial Completion Date: March 3, 2018*



Project Description: Construction of nine Primary Settling Tanks (PSTs) of 160-foot diameter and six 132-foot long aerated grit tanks, associated support facilities, service tunnels, and conduits. The aerated grit facility will include shaftless-screw conveyors, centrifugal and airlift pumps for grit removal, grit classifiers and a dumpster-loading system. Grit tanks will be covered for odor control. Process air for the grit tanks and PSTs will be provided by new turbo blowers. The PST area will have Tunnel Access Pump Stations (TAPS) containing scum pumps, sludge airlifts, an electrical substation, odor control vessels and fans, and associated equipment. PST effluent weirs and troughs will be covered for odor control. The ability to bypass six PSTs will be provided. Additionally, modifications to the existing Monitoring & Research Building at the Stickney WRP are included in this project. The work involves the installation of new air handling units, an absorption chiller, heat exchangers, pumps, and strobic fans. Replacement of associated controls, intake, supply, and exhaust ductwork, piping, conduit, and wiring at the Monitoring & Research Building is also included. Equipment will be provided by the District, but installed by the contractor. Piping will be installed in Mechanical Room LC-118 to bypass and abandon leaking underground condenser water piping.

<u>Project Justification</u>: The West Side Imhoff tanks are being decommissioned and replaced with more modern and effective treatment. Imhoff Battery A and Skimming Tanks 1-8 have already been demolished in preparation for this project. The Imhoff tanks have been in service since 1928, are labor-intensive to operate, and provide treatment inferior to PSTs. Valves for sludge withdrawal are difficult to operate, and have resulted in injuries to personnel. Skimming scum from Imhoff tanks requires personnel to walk narrow walkways above open sewage with no fall protection. Certain areas of the structures have exhibited structural cracking and leakage from conduits. Maintenance and repair supplies are not readily available for antiquated systems. Sludge solids are digested in the lower anaerobic zone of the Imhoff tanks, and the methane gas byproduct of digestion is impossible to capture and is emitted to the atmosphere. A significant increase in digester gas production will result from this project, allowing the District to proceed on the path to energy neutrality. The aerated grit facility will replace the existing West Side skimming tanks and provide superior grit removal, thus preserving downstream piping and equipment from damage due to scouring by grit. The existing skimming tanks and grit concentration utilize maintenance-intensive chainand-flight mechanisms. In addition, the skimming tanks and existing grit concentration create a recycle load of up to 100 million gallons per day; there will be minimal recycling from the new facilities. The existing Imhoff and skimming tanks are significant generators of odor. Odors from new facilities will be captured and removed, in keeping with the District's goodneighbor policy. The central portion of the Monitoring & Research Building was constructed in 1963 and much of the existing equipment in this area is original to the facility. The supply and exhaust ventilation can no longer meet the testing and ventilation needs of the facility staff. Increased maintenance needs and the increased risk of failure necessitate that it be replaced to ensure a reliable and safe environment for the employees.

Project Status: This project has been advertised for bid.

*Information shown is estimated.

Rehabilitation of the A/B and C/D Service Tunnels - Phase I, SWRP

Project Number: 04-131-2D

Service Area: Stickney

Location: Stickney WRP

Engineering Consultant: Klein & Hoffman and Stanley Consultants

General Contractor: F.H. Paschen, S. N. Nielsen and Associates, LLC.

Estimated Construction Cost: \$13,615,000

Contract Award Date: January 17, 2013

Substantial Completion Date: August 8, 2016*



<u>Project Description</u>: This project will rehabilitate approximately 240 feet of the C/D service tunnel and 130 feet of the A/B service tunnel. Rehabilitation of pump discharge conduits 1 through 7 will also be performed at the West Side Pumping Station.

<u>Project Justification</u>: The A/B and C/D tunnels are approximately 68 to 78 years old and significant deterioration has occurred since they were placed into service. Rehabilitating the tunnels will restore structural capacity, extend their service life, and prevent further damage to the utilities inside the tunnels.

Repairs on pump discharge conduits 1 through 7 at the West Side Pumping Station are required to repair erosion and spalling observed in videotaped TV inspections performed in August 2006 by the Stickney WRP Sewer Control Section.

Repair of deteriorated concrete, leaking cracks, and joints in areas with active leaks, and installation of sump pumps within the Pump & Blower House will eliminate the water infiltration in those areas and prolong the building's service life.

Project Status: This project is under construction.

^{*}Information shown is estimated.

A/B and C/D Service Tunnel and Connecting Tunnel Rehabilitation - Phase II, SWRP

Project Number: 04-132-3D

Service Area: Stickney

Location: Stickney WRP

Engineering Consultant: In-house design and Consultant, RME

General Contractor: To be determined

Estimated Construction Cost: \$10,000,000

Contract Award Date: July 25, 2015*

Substantial Completion Date: July 28, 2017*



<u>Project Description</u>: This project will rehabilitate approximately 200 feet of A/B service tunnel and 135 feet of C/D service tunnel, and replace 150 feet of connecting tunnel between A/B and C/D service tunnels.

<u>Project Justification</u>: The A/B and C/D service tunnels are approximately 68 and 78 years old and significant deterioration has occurred since they were placed into service. Rehabilitating the tunnels will restore structural capacity, extend their service life, and prevent further damage to the utilities inside the tunnels.

Project Status: This project is being designed.

^{*}Information shown is estimated.

Tollway Dam, Grout Curtain & Quarry Plugs, Thornton Composite Reservoir, CSA

Project Number: 04-201-4F

Service Area: Calumet

Location: Thornton Composite Reservoir

Engineering Consultant: Black and Veatch/MWH Americas, Inc.

General Contractor: F.H. Paschen, S.N. Nielsen and Associates LLC, and

Cabo Construction Corporation, Joint Venture

Estimated Construction Cost: \$71,926,000

Contract Award Date: December 3, 2009

Substantial Completion Date: May 25, 2015*



Project Description: This project is one of several contracts that will convert the north lobe of the Thornton Quarry into the Thornton Composite Reservoir. The project consists of the construction of a roller compacted concrete dam under I-80/294 to prevent water in the reservoir from entering the Material Service Corporation's quarry, two concrete plugs in existing haul tunnels to isolate the reservoir from the quarry, and a double row grout curtain along the perimeter of the reservoir to prevent water from exfiltrating into the quarry. The completed reservoir will provide a storage capacity of 7.9 billion gallons.

<u>Project Justification</u>: The Thornton Composite Reservoir project is an essential part of the District's Tunnel and Reservoir Plan to prevent flooding and pollution from combined sewer overflows. Completion of the reservoir is part of the District's Combined Sewer Overflow Long-Term Control Plan for complying with requirements of the Clean Water Act. The project is estimated to provide an average of \$40 million in benefits annually to over 550,000 people in its service area.

<u>Project Status</u>: Construction is 77 percent complete. The dam has been completed. Work on the grout curtain and quarry plugs continues.

*Information shown is estimated.

Connecting Tunnels and Gates, Thornton Composite Reservoir, CSA

Project Number: 04-202-4F

Service Area: Calumet

Location: South Holland and Thornton

Engineering Consultant: MWH Americas, Inc.

General Contractor: Walsh/II in One Joint Venture

Estimated Construction Cost: \$135,476,000

Contract Award Date: May 6, 2010

Substantial Completion Date: May 14, 2015*



Project Description: The purpose of this contract is to construct rock tunnels and a control structure to connect the Calumet Tunnel and Reservoir Plan (TARP) System to the Thornton Composite Reservoir. The project includes the construction of 1,300 linear feet of 30-foot diameter concrete lined tunnel, a tunnel portal structure, a diffuser apron, a concrete lined gate shaft, a control building, steel lined tunnel bifurcations, four wheel gates, each approximately 15 feet wide and 29 feet high, a maintenance bulkhead, two jet flow dewatering gates, a live connection to the existing Indiana Avenue TARP tunnel, and all other work collateral thereto.

<u>Project Justification</u>: The Thornton Composite Reservoir project is an essential part of the District's TARP to prevent flooding and pollution from combined sewer overflows. Completion of the reservoir is part of the District's Combined Sewer Overflow Long-Term Control Plan for complying with requirements of the Clean Water Act. The project is estimated to provide an average of \$40 million in benefits annually to over 550,000 people in its service area.

<u>Project Status</u>: The gate shaft and tunnel have been excavated and lined. The tunnel portal has been completed, and the apron is currently being excavated. The foundation work for the control building is nearly complete. The steel liner has been installed in the bifurcation and gate bay areas, and the gate embed parts are being installed. The wheel gates and bulkhead are in fabrication.

^{*}Information shown is estimated.

Final Reservoir Preparation, Thornton Composite Reservoir, CSA

Project Number: 04-203-4F

Service Area: Calumet

Location: South Holland and Thornton

Engineering Consultant: Black & Veatch

General Contractor: Walsh/II in One Joint Venture

Estimated Construction Cost: \$50,922,000

Contract Award Date: December 2, 2010

Substantial Completion Date: November 1, 2015*



Project Description: The purpose of this contract is to complete all of the remaining work to make the Thornton Composite Reservoir operational and decommission the Thornton Transitional Reservoir.

The project includes: construction of a 20-foot diameter concrete lined connection tunnel and drop shaft; two reinforced concrete tunnel plugs within the existing Thorn Creek diversion tunnel; conversion of the diversion tunnel between the tunnel plugs into a drainage adit; concrete lining of the existing diversion tunnel; 10-foot diameter access shaft and tunnel to the existing dewatering tunnel; replacement of two existing cone valves with a check valve in parallel with an in-line pump and check valve and installation of a drip ceiling in the existing valve chamber; reservoir level and tunnel inflow instrumentation; highwall stability measures as needed throughout the reservoir; decommissioning the Thornton Transitional Reservoir; inclinometers; various site work, including access roads, walkways and ramps, an overlook, fencing, and landscaping.

Project Justification: The Thornton Composite Reservoir project is an essential part of the District's Tunnel and Reservoir Plan to prevent flooding and pollution from combined sewer overflows. Completion of the reservoir is part of the District's Combined Sewer Overflow Long-Term Control Plan for complying with requirements of the Clean Water Act. The project is estimated to provide an average of \$40 million in benefits annually to over 550,000 people in its service area.

Project Status: Construction is 77 percent complete. The contractor has lined the existing diversion tunnel from the east tunnel plug to the existing Thorn Creek diversion structure. The portal area has been stabilized. Excavation of the 20-foot diameter drop shaft, connection tunnel, and 10-foot diameter access shaft is complete. Concrete lining of the 20-foot diameter connection tunnel and drop shaft is 75 percent complete. The overlook structure has been constructed.

^{*}Information shown is estimated.

Salt Creek Intercepting Sewer 2 Rehabilitation, SSA

Project Number: 06-155-3S

Service Area: Stickney

Location: Proviso Township and Lyons Township

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$41,000,000

Contract Award Date: September 1, 2015*

Substantial Completion Date: May 28, 2018*



Project Description: The work consists of rehabilitating approximately 32,800 feet of intercepting sewer with sizes ranging from 10" in diameter to 7'0"x7'0" semi-elliptic concrete pipe using the cured-in-place pipe lining method and/or the channeline lining method, rehabilitating 80 manholes by the spray-on lining system, rebuilding and raising 12 manholes, constructing one manhole, and making control structure modifications.

Project Justification: The sewers were inspected by the Maintenance & Operations Department in 2003 with a closed-circuit television inspection system. The video inspection tapes show cracks (circular and longitudinal), sewage solids deposits, sags, offset joints, root intrusion, infiltration, and concrete corrosion due to the action of hydrogen sulfide generated by the decomposition of settled solids. Physical inspection of the manholes reveals cracks and holes in the walls and bases of the manholes.

Project Status: The design for this project is approximately 98 percent complete.

^{*}Information shown is estimated.

Des Plaines River Intercepting Sewer Rehabilitation, SSA

Project Number: 06-158-3S

Service Area: Stickney

Location: Maywood, Melrose Park, River Forest, Forest Park

Engineering Consultant: In-house design

General Contractor: Kenny Construction Company

Estimated Construction Cost: \$13,261,000

Contract Award Date: May 1, 2014

Substantial Completion Date: January 9, 2016*



Project Description: This project includes the rehabilitation of 18,569 feet of sewer ranging in size from 10-inch diameter to 8'x4'6" box sewer by the cured-in-place pipe method and the spray-on lining system; rehabilitation of an inverted siphon; rehabilitation of 63 structures by the spray-on lining system; raising of two manholes; abandoning 290 feet of 20-inch pipe; cleaning 500 feet of 8'x4'6" box sewer; construction of an access manhole.

<u>Project Justification</u>: The sewers were inspected by the Maintenance & Operations Department with a closed-circuit television inspection system. The video inspection tapes show cracks (circular and longitudinal), sewage solids deposits, sags, offset joints, root intrusion, infiltration, and concrete erosion. Physical inspection of the manholes reveals cracks and holes in the wall and base of the manholes.

Project Status: This project is under construction.

^{*}Information shown is estimated.

Calumet TARP Pumping Station Improvements, CWRP

Project Number: 06-212-3M

Service Area: Calumet

Location: Calumet WRP

Engineering Consultant: AECOM

General Contractor: Sollitt/Sachi/Alworth Joint Venture

Estimated Construction Cost: \$35,067,000

Contract Award Date: May 2, 2013

Substantial Completion Date: May 19, 2018*



Project Description: The purpose of this project is to replace the existing East 1 and West 1 Tunnel and Reservoir Plan (TARP) pumps with larger capacity pumps, replace their motors, and install new 4.6 kV variable frequency drives (VFDs) for the pumps. The suction and discharge piping will be modified to accommodate the new pumps. Also, the remaining four pumps, East 2 and 3 and West 2 and 3, will be replaced with new 72 million gallons per day (MGD) pumps, along with new motors and four 4.6 kV VFDs. The drives will be located on an elevated platform in each of the pump rooms. A low pressure steam line will be constructed from the high level influent pumping station to TARP for heating needs, and the grading, roads, and site work disturbed under numerous contracts over the last 10 years will be completed and restored.

Project Justification: This project will increase the firm pumping capacity of each pump room to 150 MGD while restoring dependability of equipment to the Calumet TARP Station, which is becoming of greater importance as the Thornton Reservoir is nearing completion. There will be some increase in maintenance costs due to the addition of VFDs in place of the constant speed motors for the existing small pumps. However, VFDs will allow better control of pumping and reduce energy costs by matching pump speed with flow needs.

Project Status: This project is under construction.

^{*}Information shown is estimated.

Digester Sludge Heating System Upgrades and Boiler Removal, CWRP

Project Number: 06-213-3M

Service Area: Calumet

Location: Calumet WRP

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$6,000,000

Contract Award Date: May 14, 2015*

Substantial Completion Date: November 6, 2016*



Project Description: Remove six boilers and associated digester gas, natural gas, hot water supply, and hot water return piping. Remove all electrical and controls work associated with these boilers. Remove old flares and the associated digester gas piping. Provide two steam-to-hot water converters per cluster and associated hot water recirculation pumps, variable frequency drives, valves, and piping to supply hot water to the sludge heat exchangers and air handling units. Provide steam and condensate lines from the main headers to each cluster with supports. Replace four sludge heat exchangers in Cluster 1 and rehabilitate four sludge heat exchangers in Cluster 2.

Project Justification: The boilers for the Digester Complex are over 20 years old. Due to their condition, the increased risk of failure necessitates their replacement to ensure an appropriate level of service for the digestion process and space heating. With the completion of the Central Boiler Facility (under Contract 03-296-3M), the six boilers in the Digester Complex currently used to heat sludge are no longer needed as heat will be provided by the Central Boiler Facility. The new steam-to-hot water converters will provide the heat for the digesters and are less operation and maintenance intensive than boilers. New flares were installed under Contract 90-214-2P to burn excess digester gas, therefore, the old flares are no longer needed for operation and should be removed. The existing sludge heat exchangers are over 20 years old. It is economically justified to replace or rehabilitate them due to the increased level of maintenance costs.

Project Status: This project is being designed.

*Information shown is estimated.

Upper Des Plaines Intercepting Sewer 20B Rehabilitation, NSA

Project Number: 06-357-3S

Service Area: North

Location: Elk Grove and Maine Township

Engineering Consultant: In-house design

General Contractor: Kenny Construction Co.

Estimated Construction Cost: \$6,367,000

Contract Award Date: September 19, 2013

Substantial Completion Date: February 23, 2015*



<u>Project Description</u>: The rehabilitation of 5,955 linear feet of 60-inch diameter sewer by the cured-in-place lining and/or slip lining methods, 10 manhole structures, air separation chambers by spray-on products, and the modification of Drop Shaft No. 5.

<u>Project Justification</u>: The sewer and manholes were inspected by the Maintenance & Operations Department using closed-circuit television. The video shows infiltration and concrete/metal deterioration. In order to restore the structural and hydraulic integrity of the sewer, it needs to be rehabilitated. Drop Shaft No. 5 was inspected by man entry and signs of concrete deterioration were prevalent.

Project Status: This project is under construction.

^{*}Information shown is estimated.

Centrifuge Building and Sludge Loading System Upgrades, EWRP and HPWRP

Project Number: 06-494-3P

Service Area: North

Location: Egan WRP and Hanover Park WRP

Engineering Consultant: In-house design

General Contractor: IHC Construction Companies, LLC

Estimated Construction Cost: \$9,044,000

Contract Award Date: March 7, 2013

Substantial Completion Date: March 26, 2015*



Project Description: Remove the existing Serpentix belt conveyor system and replace with one horizontal shafted screw conveyor and two solids pumps. Remove two sludge storage silos and replace with four silos. Remove and replace two ferric chloride tanks, piping, and pumps. Reline two aged polymer tanks. Remove and replace a centrifugal pump in Pump House No. 1. Remove and replace piping, valves, and flow meters in Pump House No. 2. Remove and replace a 60-inch butterfly valve on the raw sewage conduit to Pump House No. 1. Modify aeration tank A-1 at the Hanover Park WRP for pilot testing of an energy conservation study.

<u>Project Justification</u>: The expansion of the sludge storage capacity is necessary to eliminate a bottleneck in the sludge dewatering operations and permit a more efficient biosolids hauling operation. The existing sludge conveyor system has odor and spill problems and requires continuous cleaning of the area. Installing an enclosed conveyor system will reduce odors from the transfer of biosolids, improve system performance, and reduce maintenance costs and operator attention.

Project Status: The project is under construction.

^{*}Information shown is estimated.

Rehabilitation of Final Settling Tanks 11, 12, 13, and 14 in Batteries A, B, and C, OWRP

Project Number: 08-041-3P

Service Area: North

Location: O'Brien WRP

Engineering Consultant: In-house design

General Contractor: Joseph J. Henderson & Son, Inc.

Estimated Construction Cost: \$2,682,000

Contract Award Date: October 17, 2013

Substantial Completion Date: March 6, 2015*



Project Description: Replacement of sludge and scum collector mechanisms, including influent baffle walls and supports, center cages, rake arms, and skimmers in final settling tank Nos. 11, 12, 13, and 14 of aeration batteries A, B, and C (12 tanks total). Paint the remaining existing components, including walkway bridges, center support structures, drive turntables, drive units, scum piping, and scum troughs. Repair concrete inside the 12 final settling tanks and their surrounding slabs. Repair concrete walkways for eight primary settling tanks.

Project Justification: The existing influent baffles on the final settling tanks are severely corroded, allowing short-circuiting of the influent mixed liquor and causing inefficient settling of solids. Additionally, several steel members on the rake arms and associated assemblies are severely corroded. The Engineering Department analyzed the costs of replacing the individual component versus the complete replacement of the mechanisms. The complete replacement was more cost effective due to the number of individual members requiring replacement. Additionally, the new rake arm assembly will be a spiral rake style, increasing the efficiency of solids removal and reducing the torque on the existing drives, which will prolong their service lives. Spalling concrete in the primary tanks has fallen into the tanks, causing damage to the chain and flight mechanisms. Additionally, spalling concrete under steel structures has the potential to cause instability of the structures themselves.

Project Status: This project is under construction.

^{*}Information shown is estimated.

Sludge Thickening Facilities, SWRP

Project Number: 09-176-3P

Service Area: Stickney

Location: Stickney WRP

Engineering Consultant: AECOM

General Contractor: McHugh Construction

Estimated Construction Cost: \$162,232,000

Contract Award Date: March 18, 2010

Substantial Completion Date: November 11, 2016*



Project Description: The project consists of the construction of a gravity thickening facility for primary settling tank sludge from both Southwest and future West Side primary settling tanks consisting of eight 80-foot diameter tanks, replacement of 12 of the existing 16 thickening centrifuges in the pre-digestion centrifuge building with new centrifuges to thicken waste activated sludge (WAS), replacement of four of the existing 16 thickening centrifuge frames, controls and motors in the pre-digestion centrifuge building with new units to thicken the O'Brien WRP sludge, construction of new pumping stations and underground pipes for the Southwest preliminary tank sludge (SW-PREL), WAS, and the O'Brien WRP, construction of a new 13.2kV/480V electrical substation to replace the existing substation at the Southwest aerated grit facilities, replacement of corroded and undersized city water and effluent water piping throughout the plant, replacement of the Laramie Avenue Gate House, and reconfiguring the entrance road to accommodate increased construction traffic.

Project Justification: The purpose of this project is to improve the sludge thickening processes at the Stickney WRP by separating the three sludge streams within the plant and thickening each by the most effective and efficient method. Currently, SW-PREL, WAS, and the O'Brien WRP sludge are blended together in the existing concentration building and partially thickened by gravity prior to additional centrifuge thickening. The existing gravity concentration tanks are undersized and maintenance intensive, and the present blend of sludge does not thicken well by gravity. This results in large volumes of sludge recycled back to the head end of the treatment plant. The large recycle flow adds an unnecessary biological oxygen demand loading to the aeration tanks and a higher suspended solids loading to the final settling tanks.

Project Status: This project is under construction.

*Information shown is estimated.

Battery C Airlift and Air Main Rehabilitation and Aeration Tanks No. 6, 7, 8 Diffuser Plate Replacement, SWRP

Project Number: 09-181-3P

Service Area: Stickney

Location: Stickney WRP

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$5,500,000

Contract Award Date: November 20, 2014*

Substantial Completion Date: November 9, 2016*



<u>Project Description</u>: The purpose of this project is to replace airlift umbrellas, rehabilitate sludge boxes, and install slide gates and workways for the sludge box outlets to the return activated sludge (RAS) channel. Work also includes replacing all dresser couplings and pipe spool pieces for air mains in manholes at the Y-walls of the aeration tanks and the channels around the aeration tanks, and replacing the fine bubble diffuser plates in aeration tank Nos. 6, 7, and 8. All work under this project is located in Aeration Battery C.

Project Justification: The sludge box airlift umbrellas and concrete covers are deteriorating and need to be replaced. In order to facilitate an easier and safer means of isolating the sludge boxes from the RAS channel, new walkways and slide gates are required to be installed at the outlets. Improvements to the venting of the sludge boxes will eliminate the current spraying of a significant amount of sludge through existing vents onto walkways. The fine bubble diffuser plates in aeration tank Nos. 6, 7, and 8 are cracked and/or clogged and inefficient. The concrete plate holders are spalled and/or cracked contributing to leaking air. The dresser couplings on the air mains within the Y-walls and the vaults on the battery perimeter are severely corroded and leaking air. Repair and/or replacement of these items will save energy and provide a proper level of service and treatment.

Project Status: This project is being advertised.

*Information shown is estimated.

D799 Switchgear Replacement, SWRP

Project Number: 09-182-3E

Service Area: Stickney

Location: Stickney WRP

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$7,500,000

Contract Award Date: January 22, 2015*

Substantial Completion Date: December 20, 2016*



<u>Project Description</u>: Replacement of the medium voltage (13.2kV) switchgear and medium voltage feeder cables in D799 at the Stickney WRP.

Project Justification: The medium voltage switchgear and cables are over 30 years old. Failure of a tie breaker in 2009 caused the Stickney WRP facility to be out of service. Replacement of the switchgear would improve reliability, reduce the risk of failure, provide enhanced safety features, and provide for future expansion (proposed new Monitoring & Research Lab and disinfection facility). Due to its condition, the increased risk of failure necessitates its replacement to ensure the appropriate level of service. Recent inspection and testing revealed the potential of an incipient failure of the cables. They should be replaced to avoid a catastrophic failure.

Project Status: This project is being designed.

^{*}Information shown is estimated.

Wet Weather Treatment Facility and Reservoir, LWRP

Project Number: 10-716-3P

Service Area: Calumet

Location: Lemont WRP

Engineering Consultant: CH2M Hill

General Contractor: Joseph J. Henderson & Son, Inc.

Estimated Construction Cost: \$30,000,000 Contract Award Date: September 19, 2013





Project Description: The work includes increasing the size of the 18-inch interceptor sewer entering the plant site from the Village of Lemont's combined sewer area, constructing a new wet-weather treatment facility to provide primary treatment followed by disinfection, sized to treat up to 10 times the volume of dry weather flow (approximately 6.8 million gallons per day), and construction of a five-million gallon equalization reservoir to buffer the peak wet weather flows from the Village's separate sewer area.

<u>Project Justification</u>: During storm events, the Lemont WRP currently receives high flows from the tributary sewer systems, which result in bypasses to the Chicago Sanitary & Ship Canal. In the Fall of 2009, the District received a violation notice from the Illinois Environmental Protection Agency (IEPA) that alleged failure to provide adequate treatment of excess flows during wet weather periods at the Lemont WRP. A long-term control plan was developed and approved by the IEPA on March 16, 2011, which included this new facility.

Project Status: This project is under construction.

^{*}Information shown is estimated.

TARP Control Structure Rehabilitation, NSA, SSA, and CSA

Project Number: 10-880-3H

Service Area: North, Calumet, and Stickney

Location: District-wide

Engineering Consultant: Donohue & Associates, Inc.

General Contractor: IHC Construction Companies, LLC.

Estimated Construction Cost: \$14,410,000

Contract Award Date: December 5, 2013

Substantial Completion Date: August 23, 2016*



Project Description: The project consists of the rehabilitation and/or replacement of sluice gate actuators, equipment platforms, dehumidifiers, and other miscellaneous equipment, as well as the installation of new equipment including additional sump pumps, dehumidifiers, and gas detectors at the various TARP control structures.

<u>Project Justification</u>: The purpose of this project is to rehabilitate and/or replace various components of the control structures throughout the TARP system in order to eliminate hydraulic communication between the tunnels and the structures and to ensure reliable operations.

Project Status: This project is under construction.

^{*}Information shown is estimated.

Disinfection Facilities, OWRP

Project Number: 11-054-3P

Service Area: North

Location: O'Brien WRP

Engineering Consultant: Greeley and Hansen

General Contractor: Walsh Construction Company II, LLC.

Estimated Construction Cost: \$60,000,000

Contract Award Date: August 8, 2013

Substantial Completion Date: December 19, 2015*



Project Description: Construction of ultraviolet (UV) light disinfection facilities and improvements to existing infrastructure at the O'Brien WRP. Construction consists of new flow conduits to intercept the flow from the existing effluent discharge conduit and reroute it to the new UV light disinfection facility, then back again to the discharge conduit. The UV disinfection facilities include disinfection channels and equipment, control gates, power distribution, instrumentation and controls, connection to the plant distributed control system, and a new building.

Project Justification: This project will provide disinfection to the effluent of the O'Brien WRP before it is discharged into the waterway in order to protect public health and in recognition of the recreational uses of the Chicago Area Waterway System.

Project Status: This project is under construction.

*Information shown is estimated.

Digester Gas Utilization Facilities, SWRP

Project Number: 11-189-3P

Service Area: Stickney

Location: Stickney WRP

Engineering Consultant: To be determined

General Contractor: To be determined

Estimated Construction Cost: \$50,000,000

Contract Award Date: June 9, 2015*

Substantial Completion Date: September 1, 2017*



<u>Project Description</u>: A Request for Proposal (RFP) will be issued to identify a highly reputable and experienced contractor to design and build a system for producing renewable energy from the Stickney WRP's digester gas in a way that is economically beneficial, energy efficient, and environmentally responsible.

Project Justification: The Stickney WRP has 24 anaerobic digesters which stabilize and reduce the volume of primary and waste activated sludge produced as a function of the plant's wastewater treatment process. A beneficial by-product of this process is digester gas, also known as "biogas." Although the treatment plant beneficially uses some of the digester gas that is produced, there are significant quantities that are not utilized at certain times of the year. The purpose of this project is to reduce the treatment plant's energy footprint by maximizing the resource recovery of biogas (a renewable energy source) and move the District towards its long-term goal of energy neutrality.

Project Status: The RFP is to be issued during the fourth quarter of 2014.

^{*}Information shown is estimated.

Boiler No. 6 Installation and Turbine Removal, SWRP

Project Number: 11-191-3M

Service Area: Stickney

Location: Stickney WRP

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$3,000,000

Contract Award Date: June 4, 2015*

Substantial Completion Date: June 24, 2017*



Project Description: Removal of the existing gas turbine, associated digester gas compressors, piping, storage tanks, and related electrical equipment. Installation of new boiler No. 6 with co-firing capabilities of digester gas and natural gas. Replacement of simplex chemical (phosphate) feed pumps with dual pump units (two pumps per boiler) for seven boilers. Replacement of two instrument air compressors and accessories. Upgrade of building lighting in the new boiler No. 6 area. Increase of the height of the existing overhead door to 16 feet. Addition of a second egress from the switchgear room.

Project Justification: The existing gas turbine will be removed due to its unreliable performance and excessive maintenance burden. A new boiler will be installed in the location of the turbine. The new boiler will have co-firing of digester gas and natural gas to maximize the use of available digester gas and to reduce the purchase of natural gas. The existing simplex chemical (phosphate) feed pumps will be replaced with redundant pumps to provide reliability and to maintain the operational integrity of the central boiler facility. The existing air compressors do not provide a sufficient quantity of instrument quality air and are not reliable. Replacement is required to provide reliable equipment with sufficient capacity and provide instrument quality air to the central boiler facility instruments. The lighting upgrade is needed in the area of the new boiler due to the inadequacy of the existing lighting, which was designed when the building was used for other purposes. The existing doorways are only 14 feet high and need to be increased in height to accommodate the new boiler. A second egress from the switchgear room is necessary to meet the National Electrical Code requirements.

Project Status: This project is being designed.

^{*}Information shown is estimated.

Phosphorus Recovery System, SWRP

Project Number: 11-195-AP

Service Area: Stickney

Location: Stickney WRP

Engineering Consultant: Black & Veatch Construction, Inc.

General Contractor: Black & Veatch Construction Inc./Ostara USA, LLC.

Estimated Construction Cost: \$31,879,000

Contract Award Date: August 7, 2014

Substantial Completion Date: February 1, 2016*



<u>Project Description</u>: The purpose of this project is to construct a facility to recover phosphorus from the pre- and post-centrifuge centrates. The scope of work will include construction of a building to house the recovery process and product storage, installation of the Pearl® reactors, and installation of pumping equipment and appurtenances to transfer the centrates to this facility. As a result of 12-RFP-20, the Black & Veatch Construction Inc./Ostara USA, LLC team was selected to design and construct this facility. The District will operate the facility and Ostara USA, LLC will continue to market the product for the term of the agreement.

Project Justification: The District is voluntarily looking at means to reduce the phosphorus concentration in the Stickney WRP effluent. The District is further refining the Enhanced Biological Phosphorus Removal treatment occuring at Stickney to allow an increased uptake of phosphorus into our solids. The Ostara Pearl® Process will be utilized to recover the phosphorus from our system. The recovered phosphorus will be a marketable product. A combination of the Enhanced Biological Phosphorus Removal and the phosphorus recovery should effectively lower our effluent phosphorus concentration and recover a resource (phosphorus) that is being depleted in the world.

Project Status: This project was awarded on August 7, 2014.

^{*}Information shown is estimated.

Calumet Intercepting Sewer 19F Rehabilitation, CSA

Project Number: 11-239-3S

Service Area: Calumet

Location: Bremen Township

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$12,000,000

Contract Award Date: August 1, 2015*

Substantial Completion Date: April 12, 2017*



<u>Project Description</u>: The rehabilitation of Calumet Intercepting Sewer 19F which consists of 10,432 linear feet of 60-inch sewer pipe, 23 drop manholes, and one junction structure.

Project Justification: The sewers were inspected by the Maintenance & Operations Department with a closed-circuit television inspection system. The video shows infiltration and concrete/metal deterioration due to hydrogen sulfide. In order to restore the hydraulic and structural integrity of the sewers, they need to be rehabilitated. The manholes and structures exhibit similar signs of deterioration and need to be rehabilitated.

Project Status: This project is at the 50 percent design stage.

*Information shown is estimated.

Organic Waste Receiving and Processing Facility, CWRP

Project Number: 11-240-3P

Service Area: Calumet

Location: Calumet WRP

Engineering Consultant: To be determined

General Contractor: To be determined

Estimated Construction Cost: \$27,000,000

Contract Award Date: July 16, 2015*

Substantial Completion Date: January 6, 2017*



Project Description: The overall scope of work includes construction of a new organic waste receiving and processing facility, including receiving pits for a variety of organic waste types, screens, transfer pumps, transfer piping, and an odor control system located south of the anaerobic digesters, modifications to two existing digesters including fixed covers, mixers, and digester gas collection piping, and a 20-year agreement with the proposer to provide organic waste material.

Project Justification: Biogas, generated as a by-product of the anaerobic digestion process at the Calumet WRP, has value as a fuel. Currently, the biogas is used to produce steam in boilers for plant heating. However, there are periods of time in the year when the steam demand is low, and not all of the biogas is fully utilized. This project will increase biogas production by about 160% over the current volume by utilizing excess capacity in the digesters to take in organic waste material from outside sources. All of the biogas that is produced, from both the sewage sludge and the organic waste material, will be cleaned to pipeline quality and sold to the natural gas pipeline where it will be used as a renewable energy source for vehicle fuel. This project is expected to provide a reduction in greenhouse gases by 99,000 metric tons of carbon dioxide equivalent per year due to reduced fugitive emissions from landfills and reduced haul trucks on the road.

Project Status: The design contract is expected to be awarded in September 2014. The construction contract is expected to be awarded in July 2015.

^{*}Information shown is estimated.

Disinfection Facilities, CWRP

Project Number: 11-241-3P

Service Area: Calumet

Location: Calumet WRP

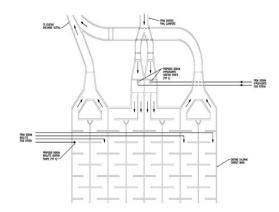
Engineering Consultant: CH2M Hill

General Contractor: IHC/KED Joint Venture

Estimated Construction Cost: \$32,000,000

Contract Award Date: August 8, 2013

Substantial Completion Date: August 19, 2015*



<u>Project Description</u>: The installation of the chlorination/dechlorination disinfection facilities includes furnishing and installing sodium hypochlorite storage tanks with a chemical feed system, sodium bisulfate storage tanks with a chemical feed system, instrumentation and control, and site work modifications to permit frequent chemical delivery.

<u>Project Justification</u>: This project will provide disinfection of the effluent at the Calumet WRP before it is discharged into the waterway in order to protect public health and in recognition of the recreational uses of the Chicago Area Waterway System.

Project Status: This project is under construction.

^{*}Information shown is estimated.

Coarse Screens and Raw Sewage Pump Slide Gates Replacement, EWRP

Project Number: 11-405-3M

Service Area: North

Location: Egan WRP

Engineering Consultant: In-house design

General Contractor: IHC Construction Companies, LLC.

Estimated Construction Cost: \$2,714,000 Contract Award Date: September 4, 2014

Substantial Completion Date: February 25, 2016*



<u>Project Description</u>: Replacement of the three coarse bar screens and associated controls, installation of new stop logs for the coarse bar screens, removal of grit from the coarse bar screen channel, replacement of five slide gates with stainless steel motor actuated slide gates for raw sewage pumps (RSPs), replacement of six drain valves for RSPs, isolation of the electrical rooms, motor control center Nos. 1 and 2 from the adjacent classified areas, and installation of a new air handling unit for the operating engineer's office in the dewatering building.

<u>Project Justification</u>: The existing coarse screen is a climber type screen, and the drive assembly, rake, motor, gearbox, and drive train travels to remove debris from the screen. The motor assembly gets submerged during major storm events and requires emergency maintenance to repair the gearboxes in order to place the screen back in service. A different type of screen will be installed so that the screen operation will not be impacted by high influent flows.

The stop logs are necessary for isolation of the coarse screen channels during replacement of coarse screens and to perform routine maintenance. Also, the existing upstream stop log groove is approximately 16 feet away from the overhead monorail, and the stop logs need to be hand-carried to the existing stop log grooves once they are lowered to the screen channel elevation. Relocating the upstream stop log grooves directly below the path of the overhead crane's monorail will eliminate the double-handling of the stop logs. There is grit accumulation in the screen channel, which needs to be removed.

While operating a cast iron slide gate to isolate a raw sewage pump, it was observed that the gate was cracked in the middle and required immediate replacement. It was determined that the existing gates are underdesigned for current operating head conditions. The remaining five slide gates will be replaced under this project. The existing slide gates are manually operated. Motor operated actuators will be installed for all six slide gates to automatically isolate and protect the dry well area in the event of catastrophic failure in the raw sewage pump and piping.

The six drain valves for the raw sewage pumps are leaking and will be replaced.

Motor control center Nos. 1 and 2 are currently situated adjacent to classified areas. This project includes modifications to the motor control center structure and equipment. A physical separation for each electrical room is provided to comply with the National Fire Protection Association Standard 820.

Personnel located in the control room in the dewatering building have complained of foul odors emanating from the centrifuge area. Existing window air conditioning units will be removed, and an air handling unit will be installed to provide better indoor air quality per the American Society of Heating, Refrigerating, & Air Conditioning Engineers Standard 62, Ventilation for Acceptable Indoor Air Quality.

Project Status: This project was awarded on September 4, 2014.

*Information shown is estimated.

Central Boiler Facility and Electrical Updates, HPWRP

Project Number: 11-531-3M

Service Area: North

Location: Hanover Park WRP

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$10,000,000

Contract Award Date: February 1, 2015*

Substantial Completion Date: March 19, 2018*



Project Description: Provide four hot water boilers, three heat exchangers, hot water circulating pumps, and piping for the digester complex and administrative building. Provide an electrical room in the digester complex and relocate motor control centers into the new electrical room. Also included is the removal of the existing boiler systems in the administrative building and digester complex.

Project Justification: National Fire Protection Agency Standard 820 classifies the digester complex as a Class 1, Division 1 space, which requires all equipment within the space to be rated either explosion proof or intrinsically safe. There are five boilers and a number of motor control centers in the digester complex. With the current configuration, achieving the standard is not feasible due to the frequent need for access to the equipment. This equipment should be installed in a physically separated room. The existing two boilers for the administrative building are over 35 years old, require heavy maintenance, and are due for replacement. By combining both building heating loads in a central location, we can reduce the number of boilers to operate and maintain.

Project Status: This project is being designed.

*Information shown is estimated.

North Shore Intercepting Sewer No. 2 Rehabilitation, NSA

Project Number: 12-057-3S

Service Area: North and Stickney

Location: New Trier & Leyden Townships

Engineering Consultant: In-house design

General Contractor: SAK Construction, LLC.

Estimated Construction Cost: \$4,934,000

Contract Award Date: June 5, 2014

Substantial Completion Date: August 29, 2015*



Project Description: The rehabilitation of 6,590 feet of 40"x62" egg shaped sewer by the cured-in-place lining method and/or the channel lining process and the rehabilitation of eight manholes by spray-on products. The spot repair of 20 feet of 27-inch diameter sewer and the rehabilitation of 347 feet of 27" sewer pipe.

<u>Project Justification</u>: The sewer and manholes were inspected by the Maintenance & Operations Department by closed-circuit television. The video shows infiltration and concrete/metal deterioration. In order to restore the structural and hydraulic integrity of the sewers, they need to be rehabilitated. A blockage was found in the 27" sewer that requires the sewer to be removed and replaced to restore hydraulic integrity.

Project Status: This project is under construction.

^{*}Information shown is estimated.

McCook Reservoir Des Plaines Inflow Tunnel

Project Number: 13-106-4F

Service Area: Stickney

Location: Mainstream Pumping Station

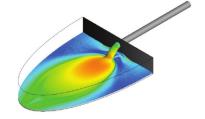
Engineering Consultant: Black and Veatch Corporation

General Contractor: To be determined

Estimated Construction Cost: \$155,000,000

Contract Award Date: June 5, 2015*

Substantial Completion Date: December 12, 2018*



Project Description: This project consists of the construction of an approximately 20-foot diameter tunnel that will connect the Des Plaines tunnel directly to the McCook Reservoir.

Project Justification: The McCook Reservoir project is an essential part of the District's Tunnel and Reservoir Plan to prevent flooding and pollution from combined sewer overflows (CSO). The tunnel is required to provide adequate conveyance of CSOs from the Des Plaines tunnel to the reservoir. The tunnel will improve upon the conveyance plan formulated by the US Army Corps of Engineers (USACE), which includes unacceptable flow restrictions. As a locally preferred plan, the District will need to reimburse the USACE for the incremental costs of the new tunnel.

Project Status: This project is being designed.

^{*}Information shown is estimated.

Calumet TARP Screens, CWRP

Project Number: 13-246-3M

Service Area: Calumet

Location: Calumet WRP

Engineering Consultant: Rubinos & Mesia Engineeers, Inc.

General Contractor: To be determined

Estimated Construction Cost: \$9,800,000

Contract Award Date: December 18, 2014*

Substantial Completion Date: December 18, 2018*



Project Description: The purpose of this project is to replace the existing bar screens, which are located upstream of the Tunnel and Reservoir Plan (TARP) pumping station, approximately 350 feet below ground with new screens which will be mechanically cleaned. The cleaning mechanism will be rail mounted at ground level and have a gripper, which will travel down the shaft and remove the screenings from the bar screens, returning them to the surface for disposal. The work will be performed in conjunction with Contract 06-212-3M, Calumet TARP Pump Station Improvements.

<u>Project Justification</u>: This project will restore dependability of equipment to the Calumet TARP pumping station, which is increasing in importance as the Thornton Reservoir nears completion. Even with the addition of the screen cleaning mechanism, there will be a decrease in maintenance costs for the screens due to the elimination of the manual cleaning operation. However, there will be an increase in energy costs. The mechanism will provide more frequent cleanings and a safer operation, as workers will no longer need to be lowered into the wet shaft via man basket in order to manually clean the screens.

Project Status: Project is expected to be awarded in December 2014.

^{*}Information shown is estimated.

Nitrogen Removal in Centrate, EWRP

Project Number: 13-409-3P

Service Area: North
Location: Egan WRP

Engineering Consultant: Kruger

General Contractor: Veolia Water Solutions & Technologies North

America, Incorporated (Veolia)

Estimated Construction Cost: \$8,524,000 Contract Award Date: October 17, 2013

Substantial Completion Date: August 31, 2015*



Project Description: Partial nitritation-deammonification of centrate at the Egan WRP using ANITA Mox Moving Bed Biofilm Reactors. The process uses significantly less energy compared to conventional nitrogen removal.

Veolia will supply technical support, equipment, and seeded media at an estimated cost of \$4,420,000 in the Capital Improvements Bond Fund. In addition, structural improvements, reactor tank modifications, installation of equipment, piping, electrical work and process instrumention will be performed using in-house trades and/or job order contracting (JOC). The estimated cost for JOC work is \$4,104,000 in the Construction Fund. The estimated cost for in-house trades labor and materials is \$320,000 in the Corporate Fund.

<u>Project Justification</u>: The Egan WRP treats sludge from the Egan and Kirie WRPs. The centrate from this process is pumped into a gravity sewer, comingled with combined sewage, and treated at the O'Brien WRP roughly 20 miles from the source. This operational strategy is inefficient, causes considerable odors and corrosion in the conduit that conveys the flow, and increases the load on the O'Brien WRP.

<u>Project Status</u>: Design of the partial nitritation-deammonification process, including process, mechanical and electrical piping, structual supports and reactor tank modifications is complete. Design of separating the adjacent gravity belt thickener area to de-classify the nitritation-deammonification process area is also complete. Structural improvements and tank modifications by the JOC Contractor have been initiated. The start-up of the system is anticipated in March 2015.

*Information shown is estimated.

Safety Railing around Tanks, SWRP

Project Number: 14-109-3D

Service Area: Stickney

Location: Stickney WRP

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: \$3,000,000

Contract Award Date: June 1, 2015*

Substantial Completion Date: December 31, 2015*



Project Description: Install stainless steel guard rails around the existing aeration tanks and preliminary tanks for safety reasons to meet OSHA regulations. In addition, the concrete will be repaired as required to anchor the railings around the tanks.

Project Justification: The guard rails were never installed around some of these tanks and are required for worker safety.

Project Status: This project is being designed.

^{*}Information shown is estimated.

Digester Gas Utilization Facilities, CWRP

Project Number: 14-250-3P

Service Area: Calumet

Location: Calumet WRP

Engineering Consultant: To be determined

General Contractor: To be determined

Estimated Construction Cost: \$13,000,000

Contract Award Date: August 9, 2015*

Substantial Completion Date: January 30, 2017*



Project Description: Cleaning of digester gas from the plant's anaerobic digesters to produce pipeline-quality natural gas. The project consists of connecting to the plant's digester gas collection piping system, installing a pressure swing absorption gas cleaning system in the vicinity of the anaerobic digester complex, installing gas compressors and a gas pipeline, and connecting to Nicor's natural gas pipeline located near 138th Street, south of the CWRP. The contractor will also provide a seven-year off-take agreement and commitment to purchase the cleaned digester gas from the District.

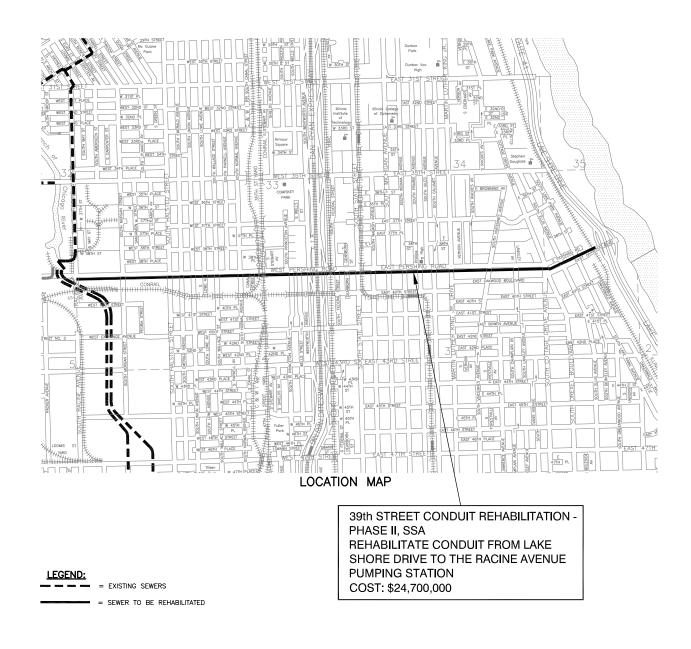
Project Justification: This project is a step toward achieving the District's goal of becoming energy neutral. By cleaning the digester gas produced in the anaerobic digesters from treated sludge and from off-site organic waste feedstock, the resulting "biomethane" can be sold to the natural gas pipeline, where it will be used for vehicle fuel. The project will reduce greenhouse gas emissions by an estimated 9,000 metric tons of carbon dioxide equivalent per year.

<u>Project Status</u>: The design contract is expected to be awarded in 2014. The construction contract is expected to be awarded in August 2015.

^{*}Information shown is estimated.

SEWER DESIGN PROJECT MAP 2015 UPPER DES PLAINES INTERCEPTING SEWER 11D EXT. C REHABILITATION,NSA 11-404-3S \$5,500,000 UPPER DES PLAINES INTERCEPTING SEWER 11D REHABILITATION, NSA 12-369-3S \$5,500,000 UPPER DES PLAINES INTERCEPTING SEWER 20B REHABILITATION, NSA 06-357-3S \$6,367,000 UPPER DES PLAINES INTERCEPTING SEWER 14B REHABILITATION, NSA 06-360-3S \$6,700,000 NORTH SHORE INTERCEPTING SEWER NO. 2 REHABILITATION, NSA 12-057-3S \$4,934,000 NORTH SHORE 1 REHABILITATION, NSA 10-047-3S \$20,000,000 39th STREET CONDUIT REHABILITATION PHASE II, SSA 01-103-AS \$24,700,000 SALT CREEK INTERCEPTING SEWER 2 REHABILITATION, SS/ 06-155-3S \$41,000,000 DES PLAINES RIVER INTERCEPTING SEWER REHABILITATION, SSA 06-158-3S \$13,261,000 PALOS HILLS PUMPING STATION FORCE MAIN, CSA 11-242-3S \$20,000,000 CALUMET INTERCEPTING SEWER 19F REHABILITATION, CSA 11-239-3S \$12,000,000 8 ---- DISTRICT BOUNDARY





39th STREET CONDUIT REHABILITATION - PHASE II, SSA CONTRACT 01-103-AS



SALT CREEK INTERCEPTING SEWER 2 REHABILITATION, SSA 300 FEET OF 12-INCH DIAMETER SEWER 1,324 FEET OF 18-INCH DIAMETER SEWER 292 FEET OF 20-INCH DIAMETER SEWER 278 FEET OF 21-INCH DIAMETER SEWER 1,370 FEET OF 24-INCH DIAMETER SEWER 1,412 FEET OF 27-INCH DIAMETER SEWER 7,857 FEET OF 3'-6"x5'-0"SEMIELLIPTICAL SEWER 12,509 FEET OF 5'-9"x5'-9" SEMIELLIPTICAL SEWER 73 MANHOLES CONTROL STRUCTURE MODIFICATION COST: \$41,000,000

PROVISO TOWNSHIP North Riverside Brookfield Riverside YONS TOWNSHIP LOCATION MAP

= EXISTING SEWER

= SEWER TO BE REHABILITATED

LEGEND:

SALT CREEK INTERCEPTING SEWER 2 REHABILITATION, SSA CONTRACT 06-155-3S



DES PLAINES RIVER INTERCEPTING SEWER REHABILITATION, SSA 18,000-FOOT LONG SEWER VARYING IN SIZE FROM 20-INCH DIAMETER TO 8'x4'-6" SEMIELLIPTICAL SEWER COST: \$13,261,000

PROVISO River Maywood WANN TREET WANN ST GREEN STREET

MONROE STREET Forest Park **TOWNSHIP** LOCATION MAP

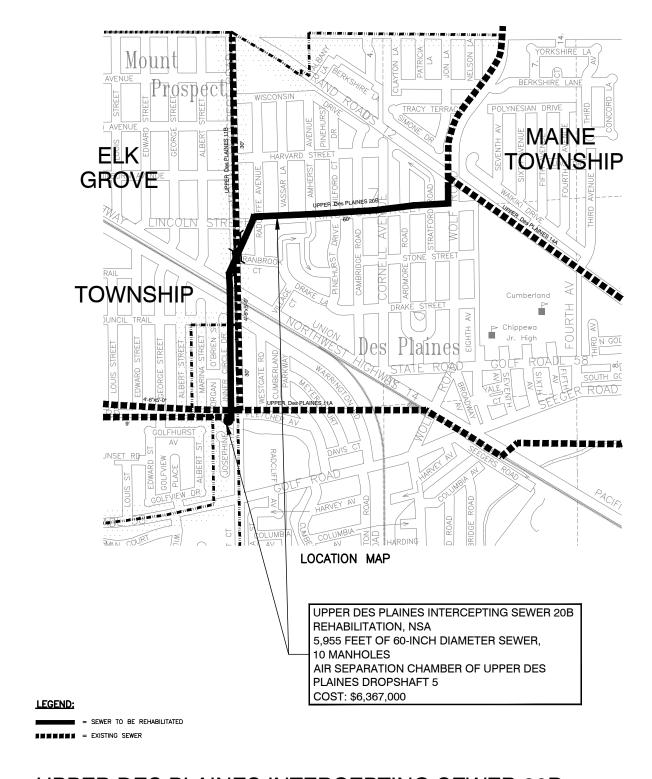
LEGEND:

= EXISTING SEWER

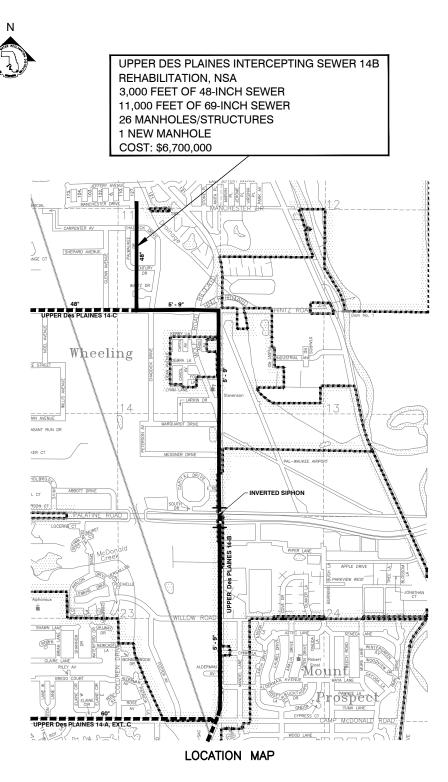
= SEWER TO BE REHABILITATED

DES PLAINES RIVER INTERCEPTING SEWER REHABILITATION, SSA CONTRACT 06-158-3S

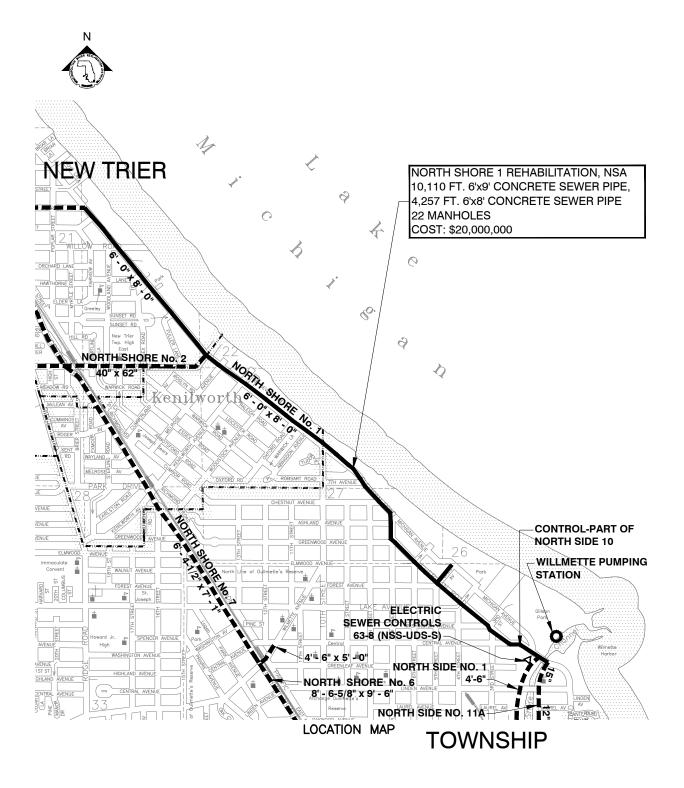




UPPER DES PLAINES INTERCEPTING SEWER 20B REHABILITATION, NSA CONTRACT 06-357-3S



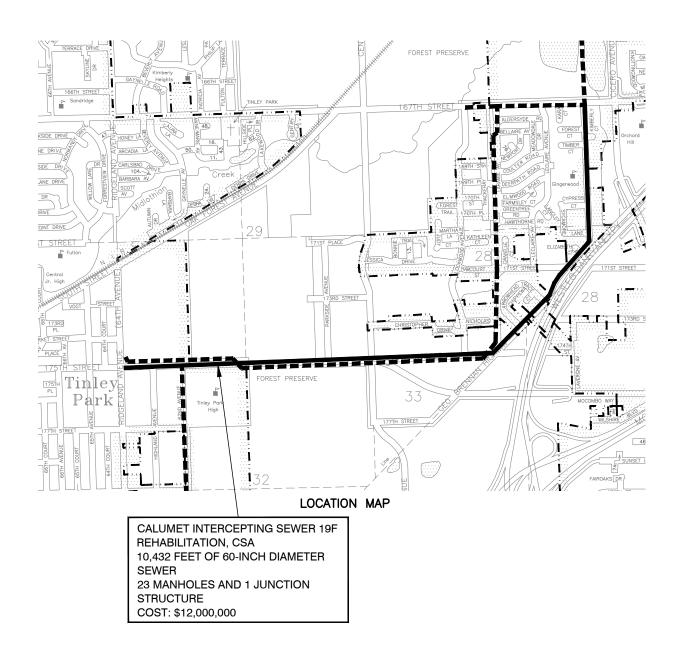
UPPER DES PLAINES INTERCEPTING SEWER 14B REHABILITATION, NSA CONTRACT 06-360-3S

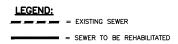


LEGEND:
------ = EXISTING SEWER
------ = SEWER TO BE REHABILITATED

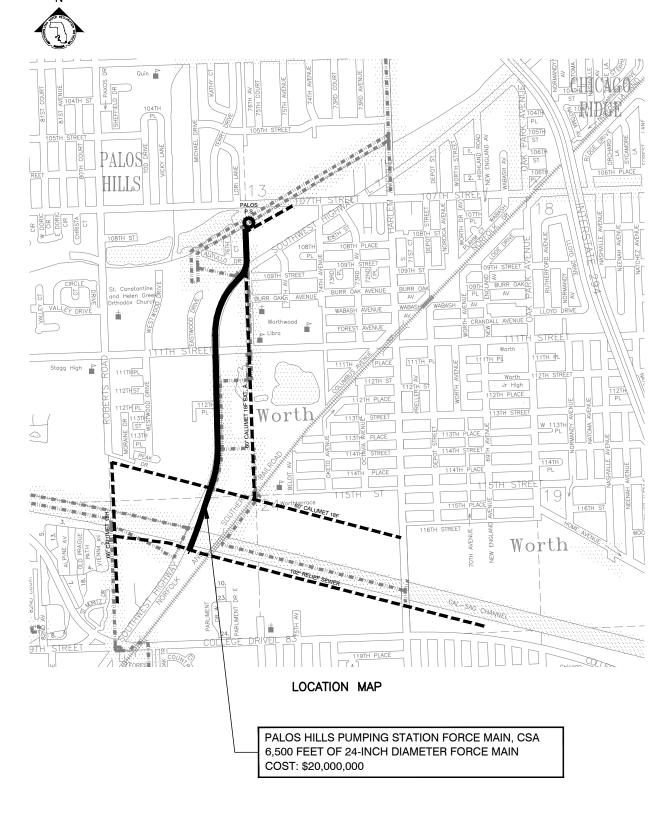
NORTH SHORE 1 REHABILITATION, NSA CONTRACT 10-047-3S





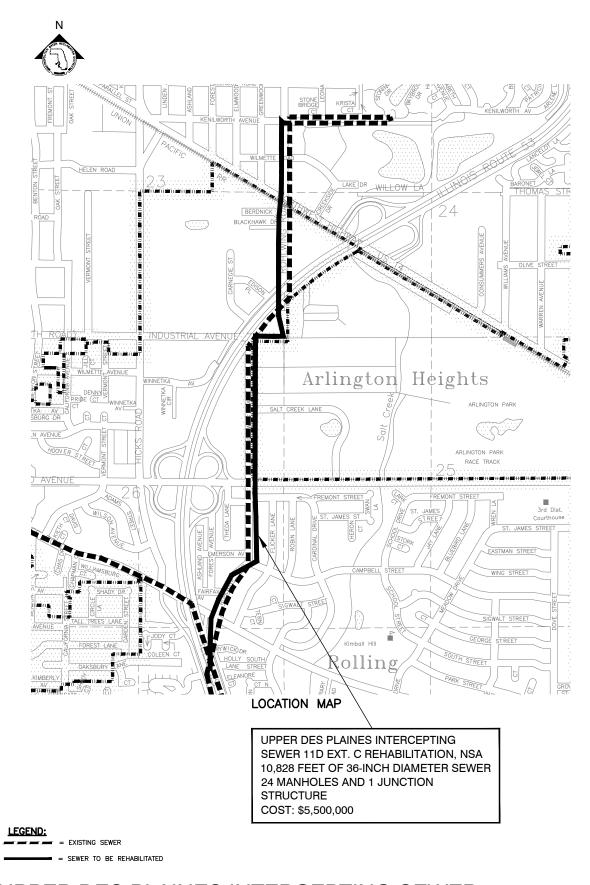


CALUMET INTERCEPTING SEWER 19F REHABILITATION, CSA CONTRACT 11-239-3S

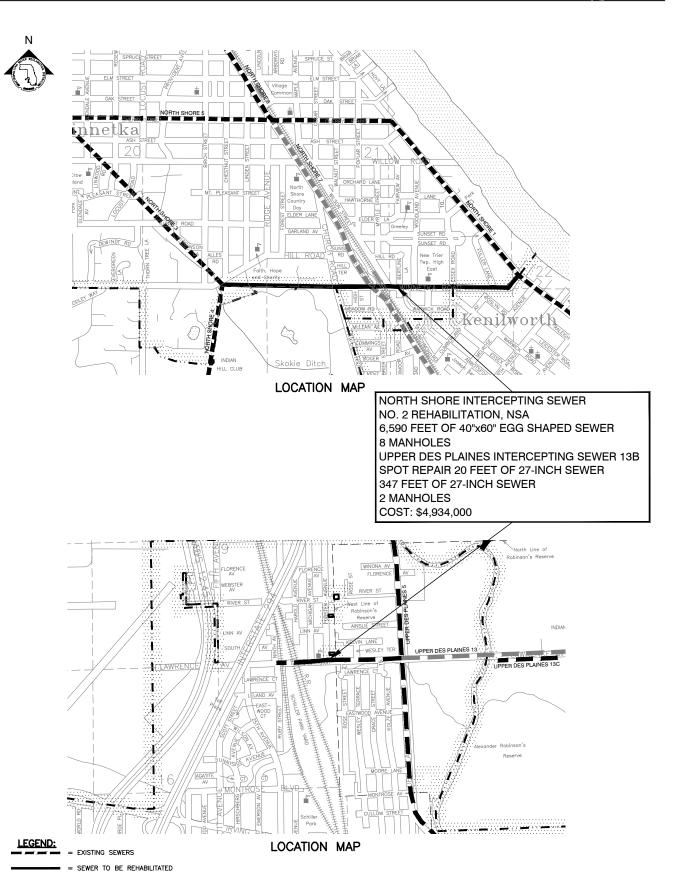




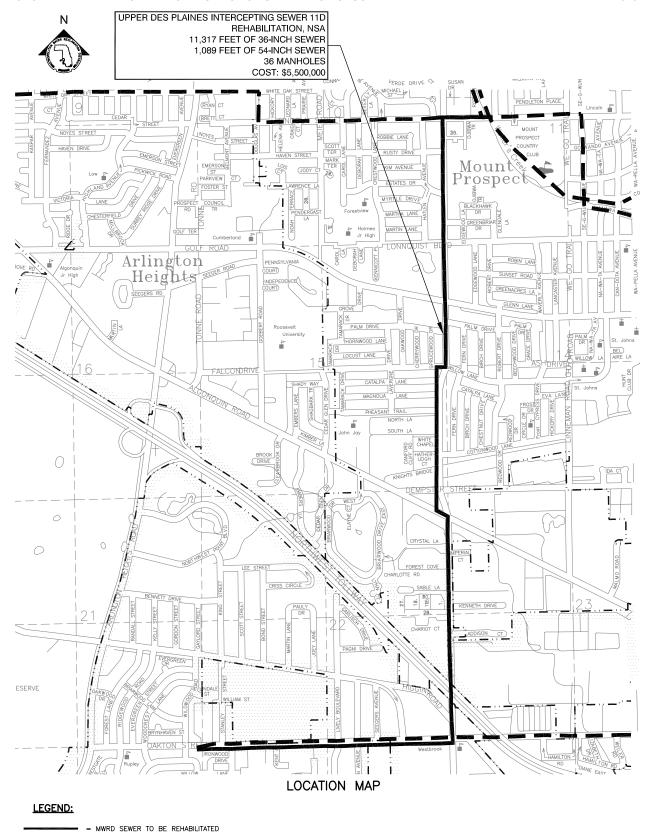
PALOS HILLS PUMPING STATION FORCE MAIN, CSA CONTRACT 11-242-3S



UPPER DES PLAINES INTERCEPTING SEWER 11D EXT. C REHABILITATION, NSA CONTRACT 11-404-3S



NORTH SHORE INTERCEPTING SEWER NO. 2 REHABILITATION, NSA CONTRACT 12-057-3S



UPPER DES PLAINES INTERCEPTING SEWER 11D REHABILITATION NSA, CONTRACT 12-369-3S

= MWRD SEWER NOT TO BE REHABILITATED

Stormwater Management Capital Improvements Bond Fund Program

			Est.				
Aw	ards in 2015		Constr-	Dura-			Est.
1		Project	uction	tion	Prof.	Land	Award
#	Project Name	Number	Cost	(days)	Svcs.	Cost	Date
1	Flood Control Project for Upper Salt Creek	10-884-AF	\$ 1,09	7 370	\$ -	\$ -	Jan-15
2	Streambank Stabilization Project on Oak Lawn Creek	10-237-3F	4,10	0 365	-	-	Jan-15
3	Streambank Stabilization Project on Melvina Ditch	13-248-3F	8,00	0 425	-	-	Feb-15
4	Streambank Stabilization Project along Calumet Union	10-882-BF	1,83	9 370	-	-	Feb-15
	Drainage Ditch						
5	Streambank Stabilization Project along Midlothian Creek	10-882-CJ	30	7 370	-	-	Feb-15
6 *	Streambank Stabilization Projects for Addison Creek	14-108-3F	45	0 366	-	-	Mar-15
7	Streambank Stabilization Project on Tinley Creek in	10-882-AF	3,80	6 370	-	-	Apr-15
	Orland Park, IL						
8	Flood Control Project on the East Branch of Cherry	10-883-CF	3,41	0 370	-	-	Apr-15
	Creek in Flossmoor, IL						
9	Streambank Stabilization Projects for the Middle Fork	11-052-3F	2,49	6 541	-	-	Apr-15
	and West Fork of the North Branch of the Chicago River						
10	Flood Control Project at Arrowhead Lake in the City of	10-883-BF	50	9 370	-	-	May-15
	Palos Heights, IL						
11	Flood Control Project for Deer Creek	10-884-BF	3,44	0 370	-	-	May-15
12	Flood Control Project on Farmers and Prairie Creeks	12-056-3F	14,59	5 670	-	-	Jun-15
13	Flood Control Project on the Des Plaines River in Lyons	13-199-3F	9,80	0 365	-	-	Nov-15
		-		<u> </u>			_
	Total 2015 Awards		\$ 53,84	9	\$ -	\$ -	

<u>Pro</u> #	pjects Under Development Project Name	Project Number	Est. Construction Cost	Dura- tion (days)	Prof Svcs		Lai Co		Est. Award Date
14	Buffalo Creek Reservoir Expansion	13-370-3F	\$ 15,000	548	\$	-	\$	-	Jan-16
15	Flood Control Project for the West Fork of the North	12-055-3F	25,000	730		-		-	Jun-16
	Branch of the Chicago River								
16	Addison Creek Reservoir	11-186-3F	104,327	1,825		-		-	Apr-17
17	Addison Creek Channel Improvements	11-187-3F	29,595	730		-		-	Jan-19
	Total Future Awards	s	\$ 173,922		\$	-	\$		

^{*}This project is funded by the Capital Improvements Bond Fund and the Stormwater Management Fund. Refer to Section VI Stormwater Management Fund for more information about the Stormwater Management Capital Improvement Program.

Note: All cost figures are in thousands of dollars; inflation factor is 0 percent.

Cumulative 2015 and Future Awards

Method of Financing										
State										
Revolving										
Fund	Alternate									
Loans	Bonds	<u>Total</u>								
\$ 154,613	\$ 73,158	\$ 227,771								

\$ 227,771

\$

Stormwater Management Capital Improvements Bond Fund Program Operating Impacts

	crating impacts		Justification					Impact		
		Project	Capacity Needs	$U_{SefulLife}$	$E_{Conomic}$ B_{enefit}	Safety/Regulatory	$M_{anpow_{er}}$	E_{nergy}	$C_{hemicaJ}$	
#	Project Name	Number	\(\mathcal{P}\)	కో	B	S_{a_i}	W	E_{n}	<i>\(\frac{\pi}{2} \)</i>	
Awa	ards in 2015		_							
1	Flood Control Project for Upper Salt Creek	10-884-AF				X	=	=	=	
2	Streambank Stabilization Project on Oak Lawn Creek	10-237-3F				X	=	=	=	
3	Streambank Stabilization Project on Melvina Ditch	13-248-3F				X	=	=	=	
4	Streambank Stabilization Project along Calumet Union Drainage Ditch	10-882-BF				X	=	=	=	
5	Streambank Stabilization Project along Midlothian Creek	10-882-CJ				X	=	=	=	
6	Streambank Stabilization Projects for Addison Creek	14-108-3F				Х	П	=	=	
7	Streambank Stabilization Project on Tinley Creek in Orland Park, IL	10-882-AF				Х		=	=	
8	Flood Control Project on the East Branch of Cherry Creek in Flossmoor, IL	10-883-CF				Х	=	=	=	
9	Streambank Stabilization Projects for the Middle Fork and West Fork of the North Branch of the Chicago River	11-052-3F				х	=	=	=	
10	Flood Control Project at Arrowhead Lake in the City of Palos Heights, IL	10-883-BF				х	=	=	=	
11	Flood Control Project for Deer Creek	10-884-BF				X	=	=	=	
12	Flood Control Project on Farmers and Prairie Creeks	12-056-3F				Х	=	=	=	
13	Flood Control Project on the Des Plaines River in Lyons	13-199-3F				Х	=	=	=	
Pro	jects Under Development			_				•	•	
14	Buffalo Creek Reservoir Expansion	13-370-3F		Ī		X	=	=	=	
15	Flood Control Project for the West Fork of the North Branch of the Chicago River	12-055-3F				Х	=	=	=	
16	Addison Creek Reservoir	11-186-3F				Х	=	=	=	
17	Addison Creek Channel Improvements	11-187-3F				X	=	=	=	

		LEGENI)							
Under	"Justification", the marked columns note the categories of benefits	s expected fi	rom each project.							
		Manpowe	r							
+ or -	Labor savings (+) or increases (-) expected to result in	++ or	Labor impact significant enough to ultimately result in reduction (++)							
	redirecting existing manpower away from or toward facility		or increase () in personnel. See additional cost details contained							
	or process to other tasks with no net change in total position costs		in the Project Fact Sheets.							
	Energy									
+ or -	Minor energy savings (+) or costs (-) having a negligible	++ or	Major energy savings (++) or costs () expected to result in significant							
	impact on the District's overall energy budget.		revisions to a facility's energy budget. See additional cost details contained							
			in the Project Fact Sheets.							
		Chemica	I							
+ or -	Chemical savings (+) or costs (-) having a negligible	++ or	Major chemical savings (++) or costs () expected to result in							
	impact on the District's overall chemical costs.		significant revisions to the budgeted chemical expenditures for the							
			associated process. See additional cost details contained in the							
=	No budgetary impact expected.		Project Fact Sheets.							

50000 CAPITAL IMPROVEMENTS BOND FUND

Number of projects proposed

Number of contracts awarded

Plans available for award

OBJECTIVES AND PROGRAM SUMMARY

16

11

11

29

26

26

26

OBJECTIVES BY PRIORITY:		Cost	Percent
 TREATMENT FACILITIES: Award six construction projects: Digester Gas Utilization Facilities, CWRP, Central Boiler Facility and Electrical Updates, and four other projects that will reduce operation and maintenance costs or provide facility improvements. 		\$ 83,500,0	000 17.0%
 COLLECTION FACILITIES: Award two construction projects: Salt Creek Intercepting Sewer 2 Rehabilitation, SSA and one other project that will reduce operation costs or provide facility improvements. 		\$ 53,000,0	10.8%
 SOLIDS PROCESSING AND DISPOSAL FACILITIES: Award three construction projects: Organic Waste R and Processing Facility, CWRP and two other projects. 	eceiving	\$ 46,000,0	9.4%
 FLOOD AND POLLUTION CONTROL: Award 15 construction projects: McCook Reservoir Des Plaines Inf Tunnel, Streambank Stabilization on Melvina Ditch, and 13 other projects. 	low	\$ 213,349,0	000 43.5%
 LAND AND RIGHT-OF-WAY ACQUISITION COSTS: Acquisition of land for the expansion of reservoir projects. Payments for land easements. 		\$ 10,550,0	000 2.2%
 PROJECT SUPPORT: Administration, design, and construction inspection for current and future contracts, funding support, and construction services such as concrete and soil testing. 		\$ 83,797,9	000 17.1%
	Total	\$ 490,196,9	100.0%
IEASURABLE GOALS:	2013	2014	2015
Awarding Contracts for the continued implementation of the District's Capital Improvement Program.	Actual	Estimated	d Proposed

The projects proposed for each year are based upon the requirements dictated by the Capital Improvement Program. The number of actual projects awarded may not, on face value, quantify performance. There are several factors that could either increase or decrease the number of projects awarded. Some of these factors are project size, project complexity, and unforeseen obstacles. These numbers are provided only as a general indicator of performance.

50000 CAPITAL IMPROVEMENTS BOND FUND

OBJECTIVES AND PROGRAM SUMMARY

PROGRA	AMS BY PRIORITY:		2013]	Budge	eted		Chang	e	
Number	Name		Actuals		FTEs		Dollars		Dollars	Percent	
1700	Collection Design	\$	1,103,436	2015	-	\$	-	\$	-	-	
				2014	-	\$	-				
1800	Collection Construction	\$	10,593,692	2015	_	\$	59,150,000	\$	(22,050,000)	(27.2)	a)
1600	Collection Construction	Ψ	10,373,072	2013	_	\$	81,200,000	Ψ	(22,030,000)	(21.2)	a,
				2011		Ψ	01,200,000				
2700	Treatment Design	\$	7,074,080	2015	-	\$	2,483,600	\$	400,000	19.2	b)
				2014	-	\$	2,083,600				
	_									(====)	
2800	Treatment Construction	\$	47,299,016	2015	-		104,775,000	\$	(64,170,000)	(38.0)	c)
				2014	-	\$	168,945,000				
3700	Solids Processing Design	\$	4,866	2015	_	\$	_	\$	_	_	
3,00	bolids Frocessing Design	Ψ	1,000	2014	-	\$	-	Ψ			
3800	Solids Processing Construction	\$	15,945,652	2015	-	\$	48,500,000	\$	24,381,000	101.1	d)
				2014	-	\$	24,119,000				
4200	C	¢		2015		ď	92.026.600	ď	25.060.200	42.2	
4300	Stormwater Management	\$	-	2015 2014	-	\$ \$	83,026,600 57,957,300	3	25,069,300	43.3	e)
				2014	-	ф	31,731,300				
4700	Flood & Pollution Control Design	\$	2,206,462	2015	-	\$	2,250,000	\$	-	-	
	5			2014	-	\$	2,250,000				
4800	Flood & Pollution Control Construction	\$	70,906,200	2015	-		189,661,700	\$	140,358,300	284.7	f)
				2014	-	\$	49,303,400				
5800	Solids Disposal Construction	\$	4,393,515	2015		\$	100,000	\$			
3800	Sonds Disposal Construction	•	4,393,313	2013	-	\$ \$	100,000	Þ	-	-	
				2014		Ψ	100,000				
7740	Land and Easements	\$	31,851	2015	-	\$	250,000	\$	-	_	
				2014	-	\$	250,000				
		_						L			
		Totals \$	159,558,770	2015	-		490,196,900	\$	103,988,600	26.9%	
				2014	-	\$	386,208,300				

- a) Decrease is due to the 2014 award of Contracts 06-158-3S, Des Plaines River Intercepting Sewer Rehabilitation, SSA (\$11,445,000) and 12-057-3S, North Shore Intercepting Sewer No. 2 Rehabilitation, North Service Area (\$5,880,000) and the rescheduling of Contract 10-047-3S, North Shore 1 Rehabilitation (\$21,000,000), offset by the anticipated 2015 award of Contracts 06-155-3S, Salt Creek Intercepting Sewer 2 Rehabilitation, SSA (\$3,675,000) and 11-239-3S, Calumet Intercepting Sewer 19F Rehabilitation, CSA (\$12,600,000).
- b) Increase is due to the expected 2015 award of Contract 09-875-3D, Civil, Structural, and Architectural Support Services (\$2,400,000), offset by the cancellation of Contract 09-044-3P, Aeration Blower and Raw Sewage Pump, NSWRP (\$2,000,000) in 2014.
- c) Decrease is due to 2014 contract awards, including 04-128-3P, West Side Primary Settling Tanks 1-9 and Aerated Grit Facility, SWRP and 11-405-3M Coarse Screens and Raw Sewage Pump Slide Gates Replacement, EWRP (\$100,065,000), and decreased requests for legal services (\$250,000) and asbestos removal (\$80,000), offset by 2015 contract awards, including 09-182-3E, D799 Switchgear Replacement, SWRP and 11-189-3P, Digester Gas Utilization Facilities, SWRP (\$36,225,000).
- d) Increase is due to the expected 2015 award of Contracts 11-240-3P, Organic Waste Receiving and Processing Facility, CWRP (\$28,350,000) and 14-250-3P, Digester Gas Utilization Facilities, SWRP, (\$13,650,000), offset by the 2014 award of various agreements relating to Contract 11-195-3P, Phosphorus Recovery System, SWRP, (\$17,010,000).
- e) Increase is due to the flood mitigation construction projects budgeted for award in 2014 (\$45,457,300) being less than contracts budgeted for award in 2015 (\$64,526,600), and increased 2015 requests for design and post-award consulting and land acquisition (\$6,000,000).
- f) Increase is due to the addition of construction Contract 13-106-4F, McCook Reservoir Des Plaines Inflow Tunnel.

401 50000	Fund: Capital Improvements Bond Department: Engineering			LINE	ITEM ANA	LYSIS		
20000	Division:	2013		20	14		20)15
Account Number	Account Name	Expenditure	Original * Appropriation	Adjusted ** Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601170	Payments for Professional Services	\$ 137,640	\$ 1,100,000	\$ 1,636,339	\$ 756,573	\$ 582,000	\$ 950,000	\$ -
601410	Personal Services Exp for Prelim Engineering Rpts & Studies	637,466	250,000	503,077	353,077	253,100	250,000	-
601420	Personal Services Exp for Constr Drawings, Specs, & Cost Est	9,098,844	7,000,000	25,372,053	20,929,677	9,588,000	10,900,000	-
601440	Personal Svcs for Post-Award Engr for Construction Projects	4,061,945	2,900,000	32,783,739	31,333,530	5,527,600	2,000,000	-
100	TOTAL PERSONAL SERVICES	13,935,896	11,250,000	60,295,209	53,372,858	15,950,700	14,100,000	-
612090	Reprographic Services	-	40,000	64,000	34,000	1,000	10,000	-
612240	Testing and Inspection Services	74,463	500,000	1,075,017	875,017	60,000	-	-
612250	Court Reporting Services	5,133	25,000	25,001	25,000	5,000	5,000	-
612380	Soil and Rock Mechanics Investigation	17,463	-	681,090	681,090	200,000	-	-
612490	Contractual Services, N.O.C.	7,564	83,600	83,600	-	60,000	83,600	-
612780	Safety Repairs and Services	-	180,000	180,000	-	100,000	100,000	-
200	TOTAL CONTRACTUAL SERVICES	104,624	828,600	2,108,707	1,615,106	426,000	198,600	-
634620	Equipment for Waterway Facilities	-	-	-	-	-	422,700	-
400	TOTAL MACHINERY AND EQUIPMENT	-	-	-	-	-	422,700	-
645600	Collection Facilities Structures	31,980,030	11,500,000	111,444,634	111,113,407	42,434,600	1,000,000	-
645620	Waterway Facilities Structures	23,071,965	49,732,700	131,762,784	123,024,907	46,500,000	42,493,600	-
645630	Army Corps of Engineers Services	12,375,000	20,000,000	10,000,000	3,785,000	3,785,000	176,199,000	-
645650	Process Facilities Structures	46,867,881	163,305,000	383,765,073	369,474,478	62,382,000	136,530,000	-
645680	Buildings	1,068,811	730,000	1,199,900	1,188,806	112,500	100,000	-
645690	Capital Projects, N.O.C.	40,000	8,150,000	3,643,157	1,114,013	2,000,000	8,750,000	-
645700	Preservation of Collection Facility Structures	10,296,857	85,450,000	27,496,693	27,120,395	11,119,000	62,875,000	-
645720	Preservation of Waterway Facility Structures	814,469	-	3,584,885	3,151,319	2,926,000	22,033,000	-
645750	Preservation of Process Facility Structures	13,951,264	19,720,000	27,815,570	27,623,316	16,967,000	13,945,000	-
645780	Preservation of Buildings	367,459	6,670,000	10,057,782	10,057,700	-	1,000,000	-
500	TOTAL CAPITAL PROJECTS	140,833,736	365,257,700	710,770,478	677,653,342	188,226,100	464,925,600	-
656010	Land	263,000	7,300,000	7,300,000	203,000	1,000,000	10,300,000	-
600	TOTAL LAND	263,000	7,300,000	7,300,000	203,000	1,000,000	10,300,000	-

401 50000	Fund: Capital Improvements Bond Department: Engineering								
	Division:	2013		20	14		2015		
Account Number	Account Name	Expenditure	Original * Appropriation	Adjusted ** Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment	
667340	Payments for Easements	31,750	250,000	250,000	1,800	250,000	250,000	-	
727102	Principal Expense - Capital Lease	2,042,176	-	49,415,614	49,415,614	2,142,200	-	-	
727112	Interest Expense - Capital Lease	2,347,588	-	20,727,418	20,727,418	2,247,600	-	-	
767300	Bond Issuance Costs	-	1,322,000	1,322,000	-	1,322,000	-	-	
700	TOTAL FIXED AND OTHER CHARGES	4,421,515	1,572,000	71,715,032	70,144,832	5,961,800	250,000	-	
TOTAL	CAPITAL IMPROVEMENTS BOND	\$159,558,770	\$386,208,300	\$852,189,426	\$802,989,138	\$211,564,600	\$490,196,900	\$ -	

^{*} The Capital Improvements Bond Fund is budgeted and accounted for on an obligation basis.

NOTES: 1. Amounts may not add up due to rounding.

- 2. Departmental appropriation totals for salaries in the Line Item Analysis may differ from those contained in the Position Analysis by a factor identified to adjust for vacancies. Additionally, Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.
- ${\it 3. The \ Capital \ Improvements \ Bond \ Fund \ appropriation \ is \ controlled \ on \ the \ Summary \ Object \ level.}$

^{**} The appropriation in the Capital Improvements Bond Fund is adjusted to carry forward open value of contracts from the prior year.

NOTE PAGE

SECTION VI

STORMWATER MANAGEMENT FUND

Stormwater Management is organized with all revenues and expenditures accounted for in a separate fund. The District assumed responsibility for Stormwater Management following the passage of Public Act 093-1049 in November 2004. This law gives the District responsibility for stormwater management for all Cook County, including areas that currently lie outside the District's boundaries.

The District has established seven watershed planning councils. The purpose of the watershed planning councils is to advise the District on the development and implementation of the countywide stormwater management plan, representing concerns of local governments. Municipal leagues are responsible for coordinating activities of the watershed planning councils.

Stormwater Management Fund:

Transmittal Letter	465
Appropriations, Expenditures, & Budgeted Positions, 2006 - 2015	466
Organization Chart	467
Budget Narrative	468
Project List and Operating Impacts	472
Project Fact Sheets	474
Project Exhibits	491
Objectives and Program Summary	495
Line Item Analysis	499
Position Analysis	501

Metropolitan Water Reclamation District of Greater Chicago

100 EAST ERIE STREET

CHICAGO, ILLINOIS 60611-3154

312.751.5600

Kathleen Therese Meany President Barbara J. McGowan Vice President Mariyana T. Spyropoulos Chairman Of Finance Michael A. Alvarez Frank Avila Cynthia M. Santos Debra Shore Kari K. Steele Patrick D. Thompson

September 10, 2014

Mr. David St. Pierre **Executive Director** OFFICE

Dear Sir:

Subject: 2015 Program for the Stormwater Management Fund

The Stormwater Management Fund's program for 2015, as prepared in detail, is transmitted herewith. The budget presentation supports the request for funding of the 2015 initiatives in alignment with and in support of the Strategic Business Plan. The budget requests include all amendments as directed by you during the Executive Director Budget Hearings in August of this

The narrative provides a summary of the fund, 2015 major initiatives and challenges, and 2014 accomplishments. Supporting schedules of objectives, performance, and staffing levels present three years of detailed budgetary information.

Thank you for the opportunity to present the proposed Stormwater Management Fund budget for 2015.

Respectfully submitted,

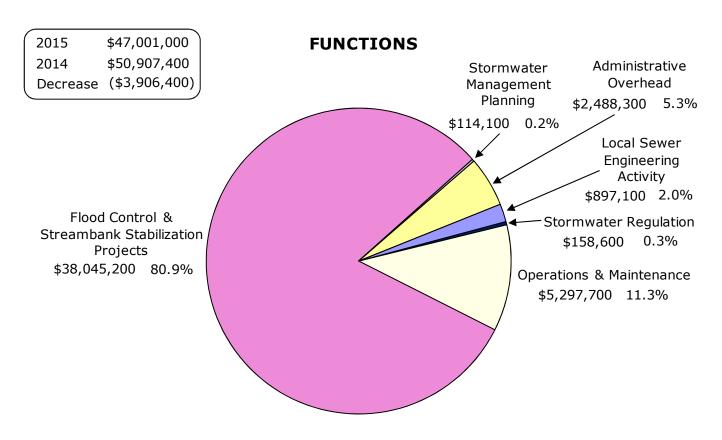
Catterine le- D'Connor

Catherine A. O'Connor Director of Engineering Manju Prakash Sharma

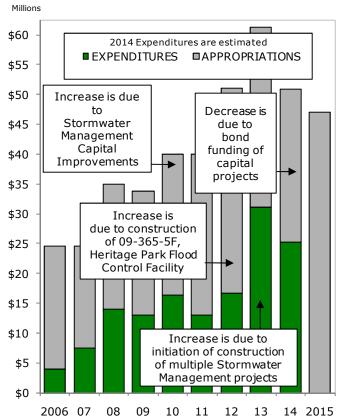
mp Shu

Director of Maintenance & Operations

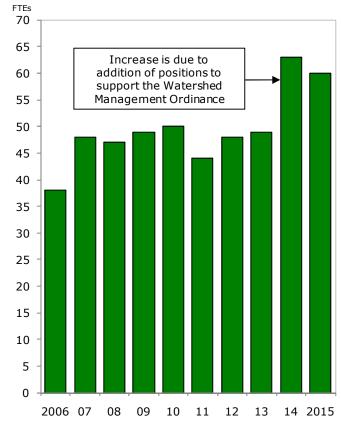
STORMWATER MANAGEMENT



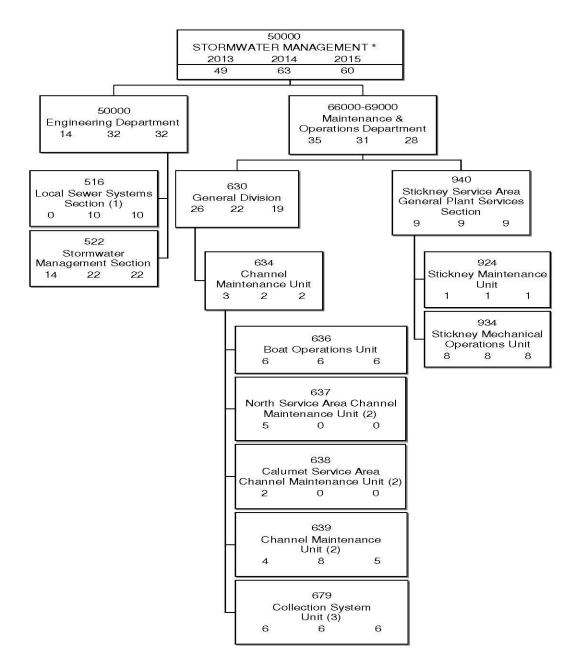
APPROPRIATIONS & EXPENDITURES



BUDGETED FTE POSITIONS



STORMWATER MANAGEMENT



- Positions funded by the Stormwater Management Fund are operationally controlled by the Engineering and Maintenance & Operations Departments.
- (1) Effective 01/01/14, 10 positions were added to support the implementation and administration of the Watershed Management Ordinance.
- (2) Effective 01/01/14, positions in Units 637 and 638 were transferred to Unit 639, and Unit 639 was retitled from Stickney Service Area Channel Maintenance to Channel Maintenance.
- (3) Effective 01/01/14, Unit 679 was retitled from Collection System Central Service Area to Collection System.

STORMWATER MANAGEMENT FUND

The mission of the Stormwater Management Fund is to protect the safety of Cook County's residents and minimize flooding damage by coordinating, planning, implementing, financing, and operating regional stormwater management projects, and to develop and enforce reasonable rules with respect to watershed development.

Fund Summary

The fund consolidates the stormwater management activities of the Engineering and Maintenance & Operations (M&O) Departments and supports the activities outlined in the Cook County Stormwater Management Plan, which serves as a framework for the District's countywide Stormwater Management Program. Under this program, the District has completed Detailed Watershed Plans (DWPs) for all six major watersheds in Cook County, initiated a Stormwater Management Capital Improvement Program, initiated a Small Streams Maintenance Program (SSMP), and adopted and implemented the Watershed Management Ordinance (WMO). More information on the Stormwater Management Program can be found on the District's website at http://stormwater.mwrd.org/.

Summary of 2014 Accomplishments

- Continued design of projects recommended from the DWPs for the established watersheds of Cook County, including the projects summarized below:
 - Streambank stabilization projects on reaches of Tinley Creek, Midlothian Creek, I&M Canal Tributary D, Melvina Ditch, Oak Lawn Creek, Calumet Union Drainage Ditch, Middle Fork and the West Fork of the North Branch of the Chicago River, Addison Creek, Higgins Creek, and McDonald Creek;
 - o Flood control projects on reaches of Upper Salt Creek, Deer Creek, Tinley Creek, Navajo Creek, Cherry Creek East Branch, Addison Creek, Buffalo Creek, Des Plaines River, Flagg Creek Tributary B, Main Stem and the West Fork of the North Branch of the Chicago River, Skokie River, and Farmers Prairie Creek;
- Continued the SSMP with the objective of removing debris and blockages from the 532 miles of small streams and rivers within the District's service area;
- Implemented the WMO, which was adopted by the Board of Commissioners on October 3, 2013. The WMO replaces the Sewer Permit Ordinance (SPO) and establishes uniform, countywide stormwater management regulations;
- Continued the Green Infrastructure Program (GIP), including the identification of potential projects and stakeholder partnerships;
- Achieved final completion and began operation of the Heritage Park Flood Control Facility;
- Negotiated intergovernmental agreements and began preliminary engineering for Stormwater Management Phase II projects, which will relieve areas of localized flooding.

Budget Highlights

The 2015 Stormwater Management Fund appropriation is \$47,001,000, a decrease of \$3,906,400, or 7.7 percent, from 2014. The 2015 staffing level of 60 is a net decrease of three positions. One Principal Civil Engineer was transferred from the Engineering Corporate Fund and one Administrative Specialist was transferred to the Engineering Corporate Fund. One Laborer Foreman and two Maintenance Laborer Class A positions were dropped from M&O.

Significant features of the 2015 budget are:

- Continue preliminary engineering for projects from the DWPs approved by the Board of Commissioners;
- Initiate final design of projects determined to be feasible by preliminary engineering and approved by the Board of Commissioners;
- Begin construction of projects that have completed final design and have been approved by the Board of Commissioners;
- Continue post-award engineering for performance monitoring of the Heritage Park Flood Control Facility;
- Further develop the District's GIP by establishing frameworks and guidelines;
- Continue the SSMP to reduce flooding in urbanized areas;
- Expand the online content related to the Chicago Area Waterway System and the SSMP to provide educational materials, as well as general information regarding the management of the system before, during, and after a storm;
- Initiate preliminary design, final design, or construction of Stormwater Management Phase II projects, which will focus on localized flooding problems;
- Support funding partnership projects, such as construction of the Albany Park Tunnel, Glenwood Floodwall, Elmwood Park Flood Control Project, and Addison Creek Flood Control Project.

2015 Initiatives in Support of the Strategic Plan Include the Following:

Add Value

The Stormwater Management Capital Improvement Program (CIP) utilizes benefit-to-cost ratios developed for the recommended alternatives in the DWPs as the primary basis for prioritizing individual projects.

Excellence

Stormwater staff approach each project with attention to detail, in a spirit of excellence, in order to deliver stormwater management projects that meet or exceed the expectation of the communities served.

The District prepares an annual report summarizing its activities and achievements related to stormwater management. The annual report, along with other publications, including a brochure describing the District's countywide Stormwater Management Program and the SSMP newsletter, are available on the District's website. Staff also attend various community meetings to explain the District's role as the stormwater management authority for Cook County to the general public.

Resource Recovery

Stormwater projects, particularly the Stormwater Phase II projects, will include a mix of both gray and green infrastructure elements. Wherever practical, stormwater recovery and reuse will be included in the project.

• Develop Employees

The dedicated staff from the Engineering and M&O Departments include numerous licensed professional engineers and certified floodplain managers who are leaders in the field. Staff regularly attend and present papers at various conferences and seminars related to stormwater management.

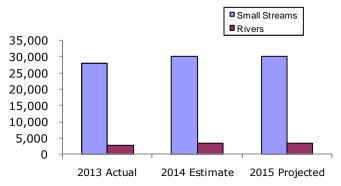
Leading Partnerships

In 2011, the Board of Commissioners granted authority for the establishment of the GIP, which facilitates the planning, design, and construction of multiple green infrastructure projects throughout Cook County in partnership with a variety of stakeholders. Program framework and guidelines will be developed in 2015 in collaboration with stakeholders. Currently, the District is partnered with the Chicago Department of Water Management and the Chicago Public Schools to design and construct large green infrastructure projects at four Chicago Public School campuses. The District is currently partnering with other local municipalities on the design and construction of 25 regional and local stormwater management projects.

SMALL STREAMS MAINTENANCE PROGRAM

Through the management of the SSMP, the M&O Department works to reduce flooding in urbanized areas. Cook County has little elevation; therefore its streams tend to move slowly and are naturally prone to flooding. Many developed areas were originally uninhabited muddy marshes with meandering streams that often overtopped their banks. The streams that flow through the neighborhoods of Cook County are more than just a scenic part of the landscape or a habitat for wildlife. They serve the vital function of draining stormwater and preventing flooding. In order to function properly, the streams must be maintained. The SSMP's top priorities are removing blockages, such as log jams, beaver dams, and other material and debris from the streams and preventing future blockages by removing dead and unhealthy trees and invasive species, such as buckthorn and honeysuckle, which choke out native vegetation, from the streambanks.

Cubic Yards of Debris Removed from Small Streams and Rivers in Cook County



WATERSHED MANAGEMENT ORDINANCE

The Board of Commissioners adopted the WMO on October 3, 2013 and amended it on April 17, 2014 and July 10, 2014. The WMO became effective on May 1, 2014, replacing the SPO. The WMO establishes uniform, countywide stormwater management regulations, sewer construction standards, and requires compliance with a new Infiltration and Inflow (I/I) Control Program. A Technical Guidance Manual has been developed as a useful tool that provides: 1) instructions for applicants on the correct application of the WMO to their developments, 2) guidance on volume control compliance through the implementation of green infrastructure systems, and 3) examples of stormwater management compliance. The Technical Guidance Manual is being further developed to include guidance for implementation and compliance with the new I/I Control Program.

Under the WMO, a permit will be required for a project that develops more than 0.5 acres or for proposed sewer construction that will be tributary to District facilities. Previously, under the SPO, a permit was only required if the project proposed sewer construction that was tributary to District facilities. Therefore, it is anticipated that the District will receive more permit applications under the WMO than the SPO. In response to a community request, the Board of Commissioners has granted

469

authority for local municipalities that meet specific requirements to issue watershed management permits within their corporate limits.

The WMO also requires communities in the separate sewer areas to comply with the new I/I Control Program, which replaces the existing program under the SPO. The goal of the I/I Control Program is to have individual communities adopt a program to inspect, maintain, and rehabilitate their sanitary sewer systems on a continual basis to reduce the number of sanitary sewer overflows and basement backups in their areas. The I/I Control Program requires communities to make annual reports to the District on their progress and plans for removing public and private infiltration and inflow sources from their systems. Therefore, it is anticipated that the District will correspond and communicate with the separate sewer area communities more than under the old program.

CAPITAL IMPROVEMENT PROGRAM

The focus of many of the Stormwater CIP projects is on regional waterways in highly urbanized areas. During the design of these projects, the District focuses on utilizing natural methods for addressing streambank erosion, including the use of biostabilization measures wherever practical.

The Board of Commissioners prioritizes, for funding purposes, potential projects arising from the DWPs on a countywide basis. Two categories have been established for DWP projects. The first category is streambank stabilization, which involves addressing critical active streambank erosion threatening public safety, structures, and/or infrastructure. The second category of projects addresses regional overbank flooding.

Streambank Stabilization Projects

A map of streambank stabilization project locations is provided on the following pages.

Flood Control Projects

The following is a list of flood control projects in the preliminary design stage, where the feasibility of construction has yet to be determined. A map of flood control project locations is provided in the following pages.

• ADCR-6B (Addison Creek);

Watershed: Lower Des Plaines River

Location: Northlake, Stone Park, Melrose Park, Bellwood, and Westchester

Description: Construct a 960 acre-foot (ac-ft) reservoir and conveyance improvements

Conceptual Cost Estimate: \$133,921,000

Status: Preliminary engineering

• SR-08 (Skokie River);

Watershed: North Branch of the Chicago River

Location: Northfield

Description: Construct a levee on both sides of Interstate 94

Conceptual Cost Estimate: \$3,511,600 Status: Approved for preliminary engineering

• WF-06 (West Fork of the North Branch of the Chicago River);

Watershed: North Branch of the Chicago River

Location: Northbrook, Glenview, Golf Road, and Unincorporated Cook County

Description: Construct a floodwall, berm, and compensatory storage

Conceptual Cost Estimate: \$25,000,000

Status: Preliminary engineering

DPR-14D (Des Plaines River);

Watershed: Lower Des Plaines River

Location: Forest View, IL

Description: Construct a floodwall on top of the Lyons Levee and addition of pumping stations to address interior drainage

Conceptual Cost Estimate: \$9,800,000 Status: Preliminary engineering **BUCR-3 (Buffalo Creek Reservoir)**;

Watershed: Lower Des Plaines River

Location: Buffalo Grove

Description: Expand Buffalo Creek reservoir within the Lake County Forest Preserve District

Conceptual Cost Estimate: \$15,000,000

Status: Negotiating intergovernmental agreement

Prior to the completion of the DWPs, projects that provided regional benefits that were studied and approved for funding by regional agencies such as the Illinois Department of Natural Resources/Office of Water Resources and the United States Army Corps of Engineers were considered for funding under the CIP. Construction of the Heritage Park Flood Control Facility,

Corps of Engineers were considered for funding under the CIP. Construction of the Heritage Park Flood Control Facility, which was facilitated through an intergovernmental agreement between the District, the Wheeling Park District, and the Village of Wheeling, began in the spring of 2012 and will provide the required compensatory storage to allow the United States Army Corps of Engineers' Levee 37 project to become operational. The project was substantially completed and operational in early 2014 at a total cost of \$29.5 million.

In 2015, the District will contribute to several other collaborative projects with other agencies and municipalities. Negotiations are currently underway to jointly fund up to \$25,920,000 for the City of Chicago's Albany Park Flood Relief Tunnel, up to \$1,000,000 for the City of Northlake's Addison Creek Wetland Creation Project, up to \$3,870,000 for the Village of Glenwood's Arguilla Park Floodwall, and up to \$5,170,087 for a flood control project within the City of Elmwood Park.

Stormwater Management Fund Program

<u>Aw</u>	Project Name	Project Number	Co	Est. onstr- ction Cost	A	WRD 2015 ppro- iation	Duration (days)	Est. Award Date
1 *	Sucumount Submizution Projects for Plantson Creek	14-108-3F	\$	400	\$	400	366	Mar-15
	Total 2015 Awards		\$	400	\$	400		

Pro	ojects Under Development		Est. Constr-	Cumulative	Dura-	Est.
#	Project Name	Project Number	uction Cost	Const. Cost	tion (days)	Award Date
	Stormwater Management Phase II Projects	Various	\$ 20,000	\$ 20,400		TBD
	Total Future Awards		\$ 20,000	-		
	Cumulative 2015 and Future Awards		\$ 20,400	\$ 20,400		

^{*}This project is funded by the Capital Improvements Bond Fund and the Stormwater Management Fund. Refer to Section V Capital Budget for more information about Stormwater Management projects funded by alternative bonds.

Note: All cost figures are in thousands of dollars; inflation factor is 0 percent.

Stormwater Management Fund Program Operating Impacts

		Justification			Impact			
# Project Name Awards in 2015	Project Number	$C_{apacityNeeds}$	$U_{Seful}L_{ife}$	$E_{Conomic}$ B_{enefit}	Safety/Regulatory	$M_{aupow_{cr}}$	$E_{ner_{SY}}$	$C_{hemicaI}$
Streambank Stabilization Projects for Addison Creek	14-108-3F				Х	=	=	=
Projects Under Development								
Stormwater Management Phase II Projects	Various				X	=	=	=

		LEGEND										
Under "Justification", the marked columns note the categories of benefits expected from each project.												
Manpower												
+ or -	Labor savings (+) or increases (-) expected to result in	++ or	Labor impact significant enough to ultimately result in reduction (++)									
	redirecting existing manpower away from or toward facility		or increase () in personnel. See additional cost details contained									
	or process to other tasks with no net change in total position costs.		in the Project Fact Sheets.									
Energy												
+ or -	Minor energy savings (+) or costs (-) having a negligible	++ or	Major energy savings (++) or costs () expected to result in significant									
	impact on the District's overall energy budget.		revisions to a facility's energy budget. See additional cost details									
			in the Project Fact Sheets.									
Chemical												
+ or -	Chemical savings (+) or costs (-) having a negligible	++ or	Major chemical savings (++) or costs () expected to result in									
	impact on the District's overall chemical costs.		significant revisions to the budgeted chemical expenditures for the									
			associated process. See additional cost details contained in									
=	No budgetary impact expected.		the Project Fact Sheets.									

Streambank Stabilization Project on Oak Lawn Creek

Project Number: 10-237-3F

Service Area: Calumet

Location: Oak Lawn, IL

Engineering Consultant: MWH Americas, Inc.

General Contractor: To be determined

Estimated Construction Cost: \$4,100,000

Contract Award Date: January 20, 2015*

Substantial Completion Date: January 20, 2016*



<u>Project Description</u>: Stabilization of approximately 1,200 linear feet of Oak Lawn Creek, from Central Avenue to Massassoit Avenue in Oak Lawn, using soldier piles and precast concrete panels. Trees and other plantings will be installed upon completion of the wall.

<u>Project Justification</u>: Safety/Regulatory. The creek banks have deteriorated due to hydraulic erosion and slope failures, thus potentially compromising the slopes and impacting residential structures that are in the vicinity.

<u>Project Status</u>: The 98 percent documents were issued in November 2013. Currently awaiting Illinois Department of Natural Resources permit review.

This project is funded under the Capital Improvements Bond Fund. See Section V Capital Budget for additional information.

*Information shown is estimated.

Streambank Stabilization Project on Tinley Creek in Orland Park, IL

Project Number: 10-882-AF

Service Area: Calumet

Location: Orland Park, Illinois

Engineering Consultant: Michael Baker Jr., Inc.

General Contractor: To be determined

Estimated Construction Cost: \$3,806,000

Contract Award Date: April 10, 2015*

Substantial Completion Date: April 14, 2016*



<u>Project Description</u>: This project will stabilize Tinley Creek at two locations in the Village of Orland Park: approximately 2,200 linear feet between 86th Avenue and Crystal Creek Drive and 2,800 linear feet between 151st Street and Oriole Court.

<u>Project Justification</u>: Safety/Regulatory. This project will protect structures and infrastructure in imminent danger of failure due to active streambank erosion.

Project Status: This project is at the 98 percent design stage.

This project is funded under the Capital Improvements Bond Fund. See Section V Capital Budget for additional information.

*Information shown is estimated.

Streambank Stabilization Project along Calumet Union Drainage Ditch

Project Number: 10-882-BF

Service Area: Calumet

Location: Markham, IL

Engineering Consultant: Michael Baker, Jr., Inc.

General Contractor: To be determined

Estimated Construction Cost: \$1,839,000

Contract Award Date: February 15, 2015*

Substantial Completion Date: February 20, 2016*



<u>Project Description</u>: This project will stabilize approximately 3,559 linear feet of the Calumet Union Drainage Ditch between Sunset and Central Park Avenues in the City of Markham.

Project Justification: Safety/Regulatory. This project will protect structures and infrastructure in imminent danger of failure from active streambank erosion and flooding.

<u>Project Status</u>: This project is at the 98 percent design stage. An intergovernmental agreement with the City of Markham has been executed. The District is procuring easements from affected property owners.

This project is funded under the Capital Improvements Bond Fund. See Section V Capital Budget for additional information.

*Information shown is estimated.

Streambank Stabilization Project along Midlothian Creek

Project Number: 10-882-CJ

Service Area: Calumet

Location: Tinley Park, IL

Engineering Consultant: Michael Baker, Jr., Inc.

General Contractor: To be determined

Estimated Construction Cost: \$307,000

Contract Award Date: February 15, 2015*

Substantial Completion Date: February 20, 2016*



<u>Project Description</u>: This project will stabilize approximately 495 linear feet of Midlothian Creek from 66th Court, north of 173rd Street, extending east approximately 300 feet, in the Village of Tinley Park.

<u>Project Justification</u>: Safety/Regulatory. This project will protect structures and infrastructure in imminent danger of failure from active streambank erosion and flooding.

<u>Project Status</u>: This project is at the 98 percent design stage. An intergovernmental agreement is under municipal review and the necessary easement requests were submitted to the affected property owners.

This project is funded under the Capital Improvements Bond Fund. See Section V Capital Budget for additional information.

*Information shown is estimated.

Streambank Stabilization/Flood Control Project on Tinley Creek in Orland Hills

Project Number: 10-882-DF

Service Area: Calumet

Location: Orland Hills, IL

Engineering Consultant: CH2M Hill Engineers, Inc.

General Contractor: To be determined

Estimated Construction Cost: \$200,000

Contract Award Date: December 18, 2014*

Substantial Completion Date: December 23, 2015*



<u>Project Description</u>: This project will provide naturalized channel stabilization/flood control on Tinley Creek from Lake Lorin to 88th Avenue in Orland Hills, Illinois.

<u>Project Justification</u>: Safety/Regulatory. This project will protect against erosion along a segment of Tinley Creek and reduce the risk of overtopping of the Lake Lorin outlet structure.

Project Status: This project has reached the 98 percent design stage. One easement is being acquired.

^{*}Information shown is estimated.

Flood Control/Streambank Stabilization Project on Tinley Creek in Crestwood, IL

Project Number: 10-883-AF

Service Area: Calumet

Location: Crestwood, IL

Engineering Consultant: CH2M Hill Engineers, Inc. and Infrastructure

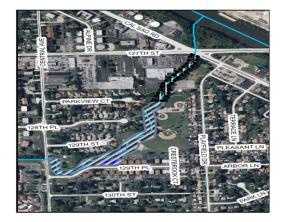
Engineering, Inc.

General Contractor: To be determined

Estimated Construction Cost: \$4,101,000

Contract Award Date: December 18, 2014*

Substantial Completion Date: December 23, 2015*



<u>Project Description</u>: This project will increase the conveyance capacity of Tinley Creek downstream of Central Avenue and will stabilize approximately 1,000 linear feet of Tinley Creek downstream of the conveyance improvements.

Project Justification: Safety/Regulatory. This project will provide protection from the 100-year flood event for approximately 173 structures and will protect an existing bike path, a commercial building, two pedestrian bridges, and potable water infrastructure from failure due to erosion of the streambank.

Project Status: This project is currently at the 98 percent design stage.

This project is funded under the Capital Improvements Bond Fund. See Section V Capital Budget for additional information.

*Information shown is estimated.

Flood Control Project at Arrowhead Lake in the City of Palos Heights, IL

Project Number: 10-883-BF

Service Area: Calumet

Location: Palos Heights, IL

Engineering Consultant: CH2M Hill Engineers, Inc.

General Contractor: To be determined
Estimated Construction Cost: \$509,000
Contract Award Date: May 15, 2015*

Substantial Completion Date: May 19, 2016*



<u>Project Description</u>: This project will raise an existing bike trail on the north side of Arrowhead Lake in unincorporated Palos Heights to increase stormwater storage in the lake.

Project Justification: Safety/Regulatory. This project will remove approximately 70 structures from the FEMA Zone A floodplain.

<u>Project Status</u>: This project is currently at the 60 percent design completion stage. After review by the Illinois Department of Natural Resources, the District will request a permit from the Forest Preserve District of Cook County.

This project is funded under the Capital Improvements Bond Fund. See Section V Capital Budget for additional information.

*Information shown is estimated.

Flood Control Project on the East Branch of Cherry Creek in Flossmoor, IL

Project Number: 10-883-CF

Service Area: Calumet

Location: Flossmoor, IL

Engineering Consultant: CH2M Hill Engineers, Inc.

General Contractor: To be determined

Estimated Construction Cost: \$3,410,000

Contract Award Date: April 10, 2015*

Substantial Completion Date: April 14, 2016*



<u>Project Description</u>: This project consists of constructing an overflow channel on Homewood-Flossmoor High School property west of Governors Highway, replacing two collapsed culverts, and creating shelf storage on Cherry Creek.

Project Justification: Safety/Regulatory. This project will remove 16 structures from the regulatory floodplain.

<u>Project Status:</u> This project is currently approaching the 98 percent design completion stage. The District is currently incorporating comments from the United States Army Corps of Engineers in order to finalize permitting and incorporate comments from the municipality to finalize the intergovernmental agreement.

This project is funded under the Capital Improvements Bond Fund. See Section V Capital Budget for additional information.

*Information shown is estimated.

Flood Control Project for Upper Salt Creek

Project Number: 10-884-AF

Service Area: North

Location: Palatine, IL

Engineering Consultant: Black & Veatch Corporation

General Contractor: To be determined

Estimated Construction Cost: \$1,097,000

Contract Award Date: January 20, 2015*

Substantial Completion Date: January 25, 2016*



<u>Project Description</u>: This project will reduce flooding damage by bypassing flow from an inundated area south of Dundee Road to an outfall into Upper Salt Creek to be located south of Cherry Brook Village in the Village of Palatine. The proposed project includes approximately 1,100 linear feet of storm sewer, an engineered berm, and backflow preventers.

<u>Project Justification</u>: Safety/Regulatory. This project will help alleviate public health and safety concerns by reducing overbank flooding affecting 18 structures within the Village of Palatine.

<u>Project Status</u>: Contract plans and specifications, right-of-way, permits, and intergovernmental agreements are being finalized. This contract has a planned advertisement date of November 2014.

This project is funded under the Capital Improvements Bond Fund. See Section V Capital Budget for additional information.

*Information shown is estimated.

Flood Control Project for Deer Creek

Project Number: 10-884-BF

Service Area: Calumet

Location: Ford Heights, IL

Engineering Consultant: Black & Veatch Corporation

General Contractor: To be determined

Estimated Construction Cost: \$3,440,000

Contract Award Date: May 15, 2015*

Substantial Completion Date: May 19, 2016*



Project Description: This project will reduce flood damages by improving channel conveyance and raising a berm for approximately 3,000 feet between U.S. 30 and Hammond Lane within the Village of Ford Heights. This project includes the construction of a vegetated berm, stabilization of bank slopes, placement of pools and rock riffles, and planting of diverse native landscaping.

Project Justification: Safety/Regulatory. This project will help alleviate public health and safety concerns by reducing overbank flooding affecting approximately 270 structures within the Village of Ford Heights.

<u>Project Status</u>: This project is at the 98 percent design completion stage. The District is working on getting the required easements and acquisition for the project. Permits need to be finalized with the United States Army Corps of Engineers and the Illinois Department of Natural Resources. Finalization of an intergovernmental agreement with the Village of Ford Heights is in progress.

This project is funded under the Capital Improvements Bond Fund. See Section V Capital Budget for additional information.

*Information shown is estimated.

Streambank Stabilization of I&M Canal Tributary D

Project Number: 10-885-AF

Service Area: Stickney

Location: Willow Springs, Illinois

Engineering Consultant: Infrastructure Engineering, Inc.

General Contractor: To be determined
Estimated Construction Cost: \$970,000
Contract Award Date: October 16, 2014*

Substantial Completion Date: July 9, 2015*



<u>Project Description</u>: The District will stabilize approximately 1,000 linear feet of I&M Canal Tributary D downstream of Archer Avenue in Willow Springs, Illinois. A hybrid design of concrete armour units and native plantings will stabilize the eroded channel.

<u>Project Justification</u>: Safety/Regulatory. This project will alleviate public safety risks by protecting infrastructure and structures from the danger of failure due to active streambank erosion. Approximately 900 linear feet of roadway and various structures will be protected.

Project Status: This project is being re-bid and was advertised on July 9, 2014.

*Information shown is estimated.

Streambank Stabilization Projects for the Middle Fork and West Fork of the North Branch of the Chicago River

Project Number: 11-052-3F

Service Area: North

Location: Northbrook and Northfield, IL

Engineering Consultant: AMEC E&I, Inc.

General Contractor: To be determined

Estimated Construction Cost: \$2,496,000

Contract Award Date: April 10, 2015*

Substantial Completion Date: October 2, 2016*



Project Description: Project WF-03 will stabilize approximately 1,420 linear feet along the West Fork of the North Branch of the Chicago River, Project MF-07 will stabilize approximately 1,205 linear feet along the Middle Fork of the North Branch of the Chicago River, and Project MF-06 will stabilize approximately 1,730 linear feet along the Middle Fork of the North Branch of the Chicago River.

<u>Project Justification</u>: Safety/Regulatory. This project will address public safety and protect structures and infrastructure in imminent danger of failure due to active streambank erosion.

<u>Project Status</u>: This project is currently approaching the 98 percent design completion stage. The intergovernmental agreement is currently under municipal review and easement requests have been distributed to affected property owners.

This project is funded under the Capital Improvements Bond Fund. See Section V Capital Budget for additional information.

*Information shown is estimated.

Streambank Stabilization Projects for Higgins Creek and McDonald Creek

Project Number: 11-889-5F

Service Area: North

Location: Des Plaines and Mount Prospect, IL

Engineering Consultant: Burns & McDonnell Engineering Company, Inc.

General Contractor: To be determined

Estimated Construction Cost: \$1,592,000

Contract Award Date: October 23, 2014*

Substantial Completion Date: October 28, 2015*



<u>Project Description</u>: The scope of work involves construction of three streambank stabilization projects located in the Lower Des Plaines River Watershed. Work will be performed on Higgins Creek in the City of Des Plaines, Higgins Creek in unincorporated Elk Grove Township, and McDonald Creek in the Village of Mount Prospect.

Project Justification: Safety/Regulatory. This project will address critical erosion threatening buildings, roads, and utilities.

Project Status: This project has completed the design stage and was advertised on July 16, 2014.

^{*}Information shown is estimated.

Flood Control Project on Farmers and Prairie Creeks

Project Number: 12-056-3F

Service Area: North

Location: Des Plaines, Park Ridge, Maine Township

Engineering Consultant: HNTB Corporation

General Contractor: To be determined

Estimated Construction Cost: \$14,595,000

Contract Award Date: June 12, 2015*

Substantial Completion Date: April 12, 2017*



<u>Project Description</u>: Flood storage and conveyance improvements along Farmers and Prairie Creeks including channel modifications, detention expansion, diversion sewer construction, and streambank stabilization.

<u>Project Justification</u>: Safety/Regulatory. This project will help alleviate public health and safety concerns by reducing overbank flooding to approximately 128 structures, and will protect numerous buildings through streambank stabilization.

Project Status: Final Design - 60 percent documents to be issued in November 2014.

This project is funded under the Capital Improvements Bond Fund. See Section V Capital Budget for additional information.

*Information shown is estimated.

Flood Control Project on the Des Plaines River in Lyons

Project Number: 13-199-3F

Service Area: Stickney

Location: Lyons

Engineering Consultant: MC Consulting, Inc.

General Contractor: To be determined

Estimated Construction Cost: \$9,800,000

Contract Award Date: November 5, 2015*

Substantial Completion Date: November 4, 2016*



Project Description: The Lyons Levee is located on the east bank of the Des Plaines River, and is approximately 4,000 feet long, beginning at Joliet Road at the upstream end and extending approximately 700 feet downstream of 47th Street. The scope of the project involves the restoration and/or enhancement of the levee to a condition that will elevate the levee to United States Army Corps of Engineers' standards, and to a crest height that will prevent overtopping from a 100-year flood event.

<u>Project Justification</u>: Safety/Regulatory. This project will provide protection against overtopping of the levee during a 100-year flood. Overtopping has resulted in major flooding in the recent past (2013), impacting the Village of Forest View located east of the levee. Overtopping could also jeopardize the ComEd substation located east of Forest View and create the potential for power disruptions or failures at Midway Airport and the Stickney Water Reclamation Plant.

<u>Project Status</u>: This project is in the preliminary design stage. Short-term, temporary stabilization measures were implemented in 2014, pending long-term restoration measures.

This project is funded under the Capital Improvements Bond Fund. See Section V Capital Budget for additional information.

*Information shown is estimated.

Streambank Stabilization Project on Melvina Ditch

Project Number: 13-248-3F

Service Area: Calumet

Location: Oak Lawn and Chicago Ridge, IL

Engineering Consultant: MWH Americas, Inc.

General Contractor: To be determined

Estimated Construction Cost: \$8,000,000

Contract Award Date: February 15, 2015*

Substantial Completion Date: April 15, 2016*



<u>Project Description</u>: Streambank stabilization along Melvina Ditch, from 95th Street to 99th Street. Approximately 150 linear feet of the ditch at the north end of the project site will be stabilized with twin box culverts. The remaining approximately 2,500 linear feet of the ditch will be stabilized with a precast concrete modular block retaining wall system.

<u>Project Justification</u>: Safety/Regulatory. The banks have deteriorated due to hydraulic erosion and slope failures, thus potentially compromising roadways and structures that are in the vicinity.

Project Status: 60 percent documents were issued on July 25, 2014.

This project is funded under the Capital Improvements Bond Fund. See Section V Capital Budget for additional information.

*Information shown is estimated.

Streambank Stabilization Projects for Addison Creek

Project Number: 14-108-3F

Service Area: Stickney

Location: Northlake and North Riverside, IL

Engineering Consultant: Burns & McDonnell Engineering Company, Inc.

General Contractor: To be determined
Estimated Construction Cost: \$850,000
Contract Award Date: March 6, 2015*

Substantial Completion Date: March 6, 2016*



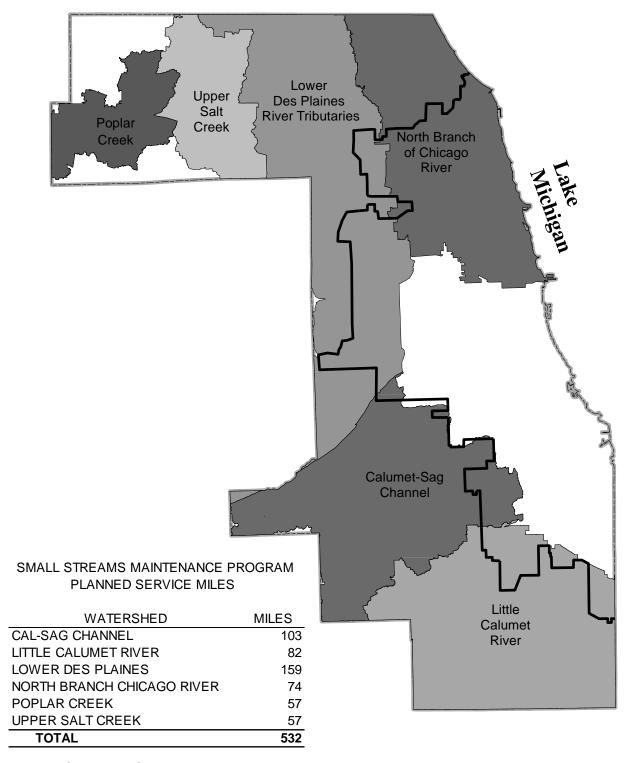
<u>Project Description</u>: The scope of work involves construction of two streambank stabilization projects located in the Lower Des Plaines River Watershed. Work will be performed on Addison Creek in the Village of Northlake and Addison Creek in the Village of North Riverside.

Project Justification: Safety/Regulatory. This project will address critical erosion threatening buildings, roads, and utilities.

<u>Project Status</u>: Project design is complete. Securing final property easements with one private land owner. Awaiting finalization of intergovernmental agreements with the Village of North Riverside and the Forest Preserve District of Cook County.

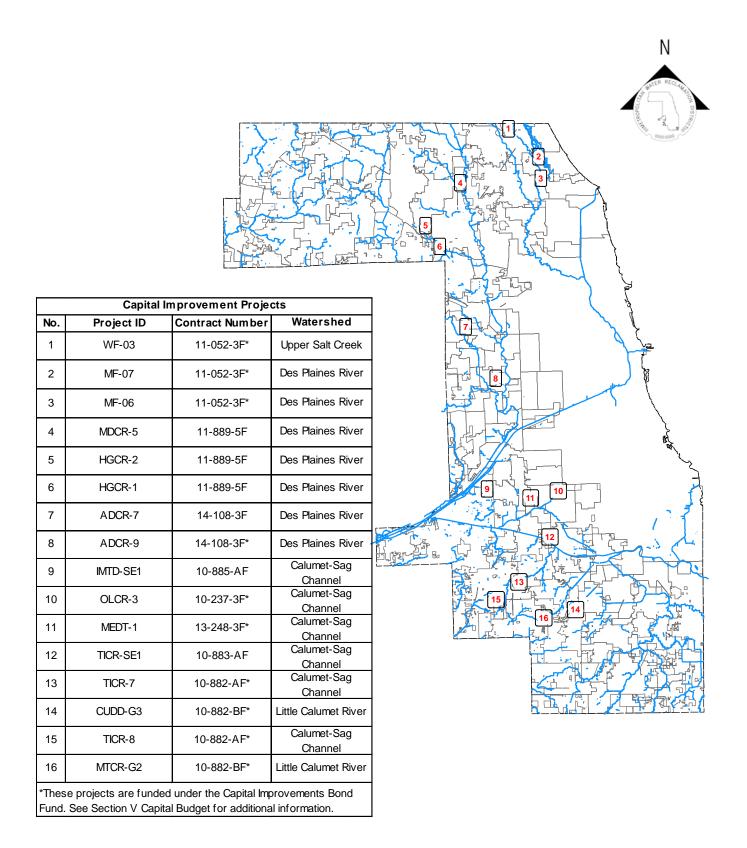
*Information shown is estimated.

STORMWATER MANAGEMENT WATERSHEDS

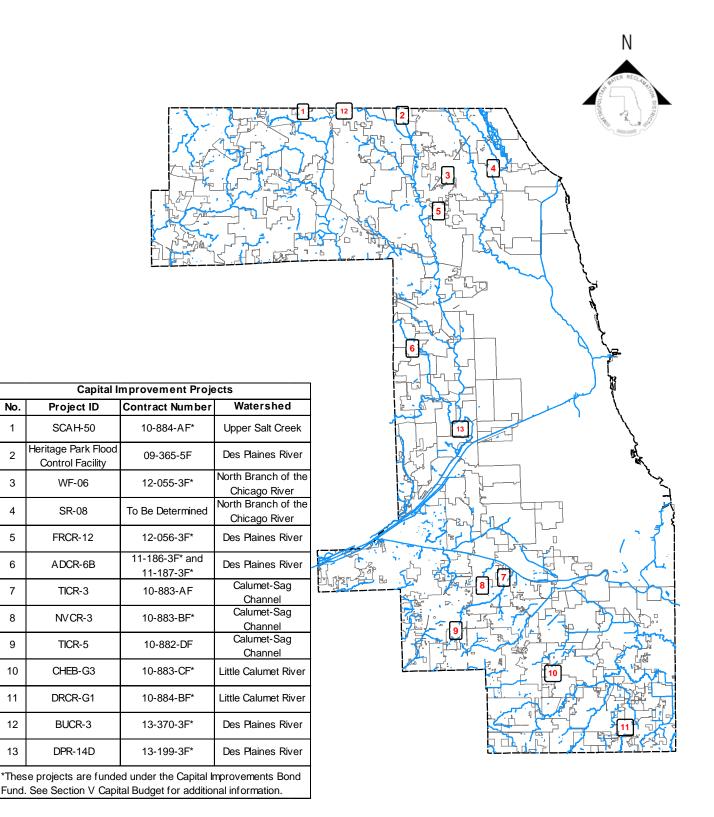


Combined Sewer Area Boundary

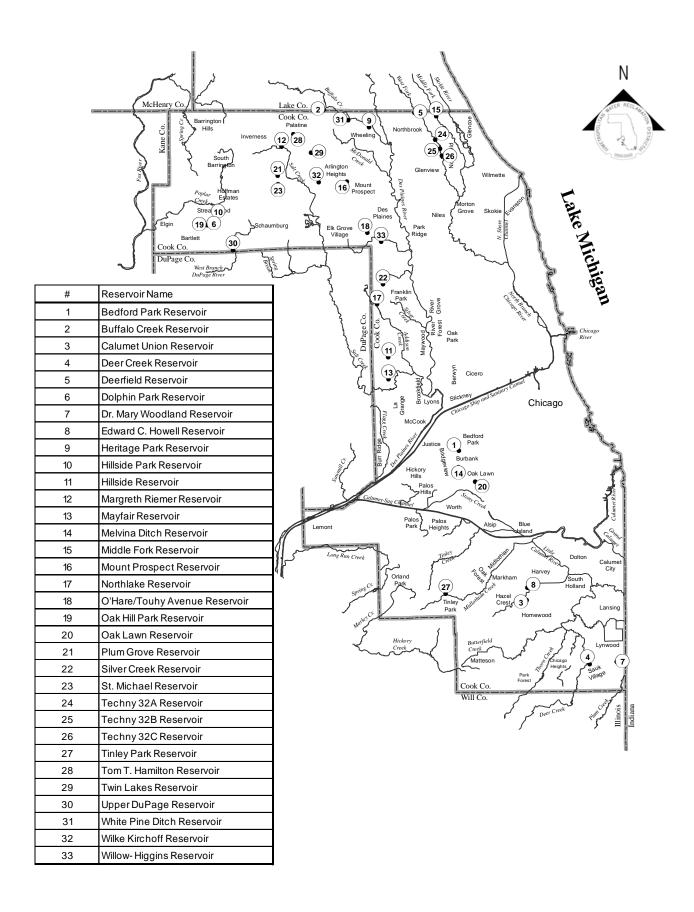
STORMWATER MANAGEMENT PROJECTS STREAMBANK STABILIZATION



STORMWATER MANAGEMENT PROJECTS FLOOD CONTROL



EXISTING MWRD SUPPORTED FLOOD CONTROL RESERVOIRS



OBJECTIVES AND PROGRAM SUMMARY

OBJECTIVES BY PRIORITY:				Cost	Percent
1. Implementation of a Watershed Management Ordinance. Initiation of the progracontrol, manage runoff, and improve water quality throughout Cook County, an uniform rules and regulations.			\$	3,563,700	7.6%
2. Planning, design, and construction of stormwater management projects by the I agencies under agreement.	District or outside		\$ 3	38,087,500	81.0%
 Ongoing public information efforts to promote awareness and understanding of management issues. 	stormwater		\$	52,100	0.1%
 Operation and maintenance of natural and manmade drainageways for the purpostormwater management. 	ose of		\$	5,297,700	11.3%
		Total	\$ 4	47,001,000	100.0%
MEASURABLE GOALS:	Unit of Measure	2013 Actual	E	2014 Estimated	2015 Proposed
Awarding contracts for the continued implementation of the Stormwater Management Capital Improvement Plan. Number of Contracts to be Advertised Number of Contracts to be Awarded		1 1		4	14* 14*
		000/		100%	n/a
2. Development of Watershed Management Ordinance.	Percent Complete	80%		100%	
 Development of Watershed Management Ordinance. Implementation of Watershed Management Ordinance. 	Percent Complete Percent Complete	0%		100%	n/a
	-		\$14		n/a \$20,953,80

OBJECTIVES AND PROGRAM SUMMARY

PROGRA	PROGRAMS BY PRIORITY:		2013			Budgeted			Change			
Number	Name			Actuals		FTEs		Dollars		Dollars	Percent	1
1500	Local Sewer Engineering Activity		\$	-	2015	10	\$	897,100	\$	500	0.1	1
					2014	11	\$	896,600				
4310	Stormwater Management Planning		\$	92,930	2015	1	\$	114,100	\$	(179,600)	(61.2)	a)
					2014	1	\$	293,700				
4320	Stormwater Management Regulation		\$	160,913	2015	1	\$	158,600	\$	(6,500)	(3.9)	
					2014	1	\$	165,100				
4330	Operations and Maintenance		\$	4,751,149	2015	27	\$	5,297,700	\$	(246,000)	(4.4)	b)
					2014	30	\$	5,543,700				
4340	Flood Mitigation Projects		\$	25,234,013	2015	19	\$	38,045,200	\$ 1	(3,662,600)	(8.8)	c)
					2014	18	\$	41,707,800				
4350	Administrative Overhead		\$	827,630	2015	2	\$	2,488,300	\$	187,800	8.2	d)
					2014	2	\$	2,300,500				
		Totals	\$	31,066,635	2015	60	\$	47,001,000	\$ 1	(3,906,400)	(7.7%)	•
					2014	63	\$	50,907,400				

- a) Decrease is due to the reprioritization of public outreach activities (\$135,000), the reallocation of duties for an Assistant Civil Engineer position (\$8,000), and a decrease in requests for reprographic services (\$50,000), offset by an increase in salaries due to the transfer of a Principal Civil Engineer position from the Corporate Fund (\$14,300).
- b) Decrease is due to the drop of one Laborer Foreman and two Maintenance Laborer Class A positions (\$226,400) and reduced requests for waterways maintenance (\$176,100), offset by increased requests for rain barrels (\$125,000).
- c) Decrease is due to an overall reduction in construction contracts, primarily due to the completion of the Heritage Park Flood Control Facility (\$5,110,400) and reduced requests for green infrastructure projects (\$1,500,000), legal services for land acquisitions and permit reviews (\$520,000), and easement payments (\$230,200), offset by increased requests for contractual services, including intergovernmental agreements (\$1,968,900), land acquisitions (\$1,386,800), professional engineering services (\$252,100), and salaries due to a reallocation of duties (\$134,200).
- d) Increase is due to increased requests for mitigation fees (\$158,800) and a contingency for salary adjustments (\$76,900), offset by a decrease in non-salary related employee expense requests (\$47,900).

PERFORMANCE DATA

Progra					2013		2014		2015	
Numb	er	Measurable Activity Title			Actual		Budgeted]	Estimated	
1500		Local Sewer Engineering Activity								
	1530	Local Sewer Permit Activity	Cost	\$	-	\$	687,400	\$	701,700	
	1560	Local Sewer Public Service Coordination	Cost	\$	-	\$	160,300	\$	140,400	
	1570	Local Sewer Rehabilitation	Cost	\$	-	\$	48,900	\$	55,000	
4310		Stormwater Management Planning								
	4311	Watershed Councils	Cost	\$	17,523	\$	20,600	\$	19,700	
	4314	Publications and Public Information	Cost	\$	33,733	\$	222,800	\$	52,100	a)
	4315	GIS System	Cost	\$	41,674	\$	50,300	\$	42,300	b)
4320		Stormwater Regulation								
	4322	Storm & Flood Ordinance Development	Cost	\$	148,402	\$	154,400	\$	147,900	
	4323	Inspections	Cost	\$	12,511	\$	10,700	\$	10,700	
4330		Operations & Maintenance								
	4331	Stormwater Detention Reservoir Activity	Cost	\$	1,136,910	\$	1,079,100	\$	1,142,200	
	4332	Small Stream Maintenance	Cost	\$	3,443,049	\$	4,294,900	\$	4,007,400	c)
		Debris	Cubic Yards Removed	¢.	30,821	dr.	33,500	dr.	33,500	
			Cost per Cubic Yard	\$	111.71	\$	128.21	\$	119.62	
	4334	Operations & Maintenance Contracted with Other Governments	Cost	\$	149,895	\$	147,500	\$	148,100	
	4335	Waterways Debris Removal	Cost	\$	21,295	\$	22,200	\$	-	d)

a) Decrease is due to the reprioritization of public outreach activities (\$135,000) and a decrease in requests for reprographic services (\$50,000), offset by an increase in salaries due to the transfer of a Principal Civil Engineer position from the Corporate Fund (\$14,300).

b) Decrease is due to the reallocation of duties for an Assistant Civil Engineer position (\$8,000).

c) Decrease is due to the drop of one Laborer Foreman and two Maintenance Laborer Class A positions (\$190,400) and reduced requests for waterways maintenance (\$176,100), offset by an increase in requests for rain barrels (\$125,000).

d) Decrease is due to the drop of one Maintenance Laborer Class A position.

PERFORMANCE DATA

Program		2013	2014	2015	
Number	Measurable Activity Title	Actual	Budgeted	Estimated	
4340	Flood Mitigation Projects				
4341	Planning/Design Cost	\$ 3,447,152	\$ 13,625,100	\$ 14,165,600	e)
4342	Contract Administration Cost	\$ 278,267	\$ 538,800	\$ 599,200	
4343	Construction Cost	\$ 20,335,942	\$ 14,566,200	\$ 7,589,500	f)
4344	Flood Mitigation Projects Contracted with Other Governments Cost	\$ -	\$ 11,121,100	\$ 13,226,900	g)
4345	Land & Easements Cost	\$ 1,172,652	\$ 1,856,600	\$ 2,464,000	h)
4350	Administrative Overhead Cost	\$ 827,630	\$ 2,300,500	\$ 2,488,300	i)
	Total	\$ 31,066,635	\$ 50,907,400	\$ 47,001,000	

- e) Increase is due to additional requests for Stormwater Management Phase II preliminary engineering projects (\$5,147,400), offset by reduced requests for Stormwater Management Phase II final design projects (\$2,000,000) and carryforward requests for consulting services (\$2,568,800).
- f) Decrease is due to the completion of the Heritage Park Flood Control Facility in 2014 (\$9,796,700), and reduced requests for Stormwater Management Phase II and green infrastructure capital projects (\$1,500,000), contractual services for green infrastructure projects (\$1,500,000), waterway facilities improvement projects (\$1,119,900), and post-ward engineering services (\$352,900), offset by new requests for construction projects, including 14-108-3F, Streambank Stabilization Projects for Addison Creek, 11-889-5F, Streambank Stabilization Project for Higgins and McDonald Creeks, and 10-883-AF, Flood Control/Streambank Stabilization on Tinley Creek in Crestwood (\$7,306,200).
- g) Increase is due to new requests for intergovernmental agreements, including Chicago Public Schools Green Infrastructure (\$3,000,000), Glenview East of Harms Road (\$4,000,000), Village of Winnetka New Storm Sewers and Berms (\$1,250,000), and Des Plaines Relief Storm Sewer (\$700,000), offset by reduced requests for Stormwater Management Phase II intergovernmental agreements (\$3,771,100), the Elmwood Park Flood Control project (\$1,915,000), and the Albany Park Flood Control project (\$1,200,000).
- h) Increase is due to an increased request for land acquisitions (\$1,386,800), offset by reduced requests for legal services for land acquisitions (\$445,000), easement payments (\$230,200), and permit reviews (\$75,000).
- i) Increase is due to increased requests for mitigation fees (\$158,800) and a contingency for salary adjustments (\$76,900), offset by a decrease in non-salary related employee expense requests (\$47,900).

I	Fund: Stormwater Management Department: Stormwater Management			LINE	ITEM ANA	LYSIS		
22000	Division:	2013		20)14		20	015
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 3,800,108	\$ 5,547,200	\$ 5,547,200	\$ 2,922,163	\$ 4,660,800	\$ 5,449,700	\$ -
601060	Compensation Plan Adjustments	77,710	114,700	114,700	95,751	114,700	153,800	-
601080	Salaries of Nonbudgeted Employees	-	20,000	20,000	-	-	-	-
601100	Tuition and Training Payments	4,909	27,200	27,200	6,755	11,600	10,000	-
601170	Payments for Professional Services	14,236	929,000	929,000	-	-	350,000	-
601250	Health and Life Insurance Premiums	478,866	550,000	550,000	344,247	513,100	578,000	-
601270	General Salary Adjustments	-	-	-	-	-	75,900	-
	Personal Services Exp for Prelim Engineering Rpts & Studies	1,682,371	5,742,500	6,400,200	6,399,250	5,059,000	10,159,800	-
601420	Personal Services Exp for Constr Drawings, Specs, & Cost Est	1,160,687	5,642,100	4,984,400	3,229,052	2,159,200	1,337,800	-
601440	Personal Svcs for Post-Award Engr for Construction Projects	868,547	360,900	360,900	338,971	339,000	500,000	-
100	TOTAL PERSONAL SERVICES	8,087,434	18,933,600	18,933,600	13,336,189	12,857,400	18,615,000	-
612010	Travel	1,959	5,200	5,200	903	1,000	2,000	-
612030	Meals and Lodging	3,899	6,000	6,000	3,114	5,000	4,700	-
612040	Postage, Freight, and Delivery Charges	1,884	1,000	1,000	1,000	1,000	1,000	-
I	Compensation for Personally-Owned Automobiles	23,049	38,000	38,000	12,055	13,000	24,000	-
612080	Motor Vehicle Operating Services	523	500	500	336	400	800	-
612090	Reprographic Services	-	60,000	60,000	-	10,000	-	-
612240	Testing and Inspection Services	7,884	50,000	50,000	20,000	10,000	20,000	-
612250	Court Reporting Services	12,895	10,000	10,000	10,000	10,000	10,000	-
612330	Rental Charges	134	1,000	1,000	-	300	-	-
612360	Advertising	-	80,000	80,000	-	80,000	-	-
612380	Soil and Rock Mechanics Investigation	-	25,000	25,000	25,000	10,000	25,000	-
612410	Governmental Service Charges	-	-	-	-	-	500	-
612490	Contractual Services, N.O.C.	200,975	14,108,100	14,108,100	4,055,662	4,055,700	14,577,000	-
612520	Waste Material Disposal Charges	43,882	60,000	60,000	46,000	25,000	54,000	-
612600	Repairs to Collection Facilities	66,063	50,000	50,000	-	40,000	50,000	-

501 50000	Fund: Stormwater Management Department: Stormwater Management			LINE	ITEM ANA	LYSIS		
	Division:	2013		20)14		20)15
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
612620	Repairs to Waterway Facilities	2,215,262	2,676,100	2,676,100	2,370,825	1,809,500	2,500,000	-
612820	Computer Software Maintenance	-	1,000	1,000	-	-	-	-
612860	Repairs to Vehicle Equipment	-	9,900	9,900	4,000	2,500	-	-
612990	Repairs, N.O.C.	3,472	12,000	12,000	9,000	5,000	5,000	-
200	TOTAL CONTRACTUAL SERVICES	2,581,881	17,193,800	17,193,800	6,557,895	6,078,400	17,274,000	-
623520	Office, Printing, & Photo Supplies, Equipment, & Furniture	2,198	4,500	4,500	3,406	4,000	5,000	-
623560	Processing Chemicals	4,405	5,000	5,000	5,000	4,400	5,000	-
623680	Tools and Supplies	-	6,000	6,000	4,772	500	2,000	-
623700	Wearing Apparel	522	6,000	6,000	2,000	500	2,000	-
623850	Communications Supplies	-	500	500	-	200	-	-
623990	Materials and Supplies, N.O.C.	3,511	195,000	195,000	175,631	50,000	330,000	-
300	TOTAL MATERIALS AND SUPPLIES	10,635	217,000	217,000	190,809	59,600	344,000	-
645620	Waterway Facilities Structures	19,366,485	10,916,600	9,153,300	6,738,394	5,636,700	4,510,800	-
645690	Capital Projects, N.O.C.	-	2,841,200	2,841,200	-	-	1,500,000	-
645720	Preservation of Waterway Facility Structures	-	-	1,763,300	167,172	159,300	2,795,400	-
500	TOTAL CAPITAL PROJECTS	19,366,485	13,757,800	13,757,800	6,905,566	5,796,000	8,806,200	-
656010	Land	1,020,200	125,000	125,000	-	125,000	1,511,800	-
600	TOTAL LAND	1,020,200	125,000	125,000	-	125,000	1,511,800	-
667340	Payments for Easements	-	680,200	680,200	-	373,000	450,000	-
700	TOTAL FIXED AND OTHER CHARGES	-	680,200	680,200	-	373,000	450,000	-
TOTAL	STORMWATER MANAGEMENT	\$ 31,066,635	\$ 50,907,400	\$ 50,907,400	\$ 26,990,459	\$ 25,289,400	\$ 47,001,000	\$ -

NOTES: 1. Amounts may not add up due to rounding.

Departmental appropriation totals for salaries in the Line Item Analysis may differ from those contained in the Position Analysis by a factor identified to adjust for vacancies.
 Additionally, Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.

Fund	Stormwater Management	2013	1	POS	SITIO	N ANALYSIS 2015	
Dept: Division:		2013		2014	PROPOSED BY EXECUTIVE		
			D		Q	DIRECTOR	
PAY PLAN		ACTUAL FTEs	BUDGETED FTEs	APPROPRIATION IN DOLLARS	BUDGETED FTEs	APPROPRIATION IN DOLLARS	
& GRADE 50000	CLASS TITLE Engineering		В		В		
516	Local Sewer Systems Section						
HP18	Principal Civil Engineer	-	1		1		
HP17	Senior Civil Engineer	-	2		2		
HP15	Associate Civil Engineer	-	3		3		
HP14	Assistant Civil Engineer	-	3		3		
HP14	Engineering Technician V	-	1		-		
HP12	Engineering Technician IV	-	-		1		
TOTAL	Local Sewer Systems Section	-	10	841,064.64	10	896,475.58	
522	Stormwater Management Section						
HP20	Supervising Civil Engineer	1	-		-		
HP20	Managing Civil Engineer	-	1		1		
HP18	Principal Civil Engineer	1	2		3		
HP17	Senior Civil Engineer	6	7		7		
HP15	Associate Civil Engineer	3	6		6		
HP14	Assistant Civil Engineer	2	4		4		
HP11	Administrative Specialist	-	2		1		
HP09	Administrative Clerk	1	-		-		
TOTAL	Stormwater Management Section	14	22	2,163,712.98	22	2,228,203.64	
TOTAL	Engineering	14	32	3,004,777.62	32	3,124,679.22	
60000	Maintenance & Operations						
630	General Division						
634	Channel Maintenance Unit						
HP17	Senior Civil Engineer	1	1		1		
HP15	Associate Civil Engineer	2	1		1		
TOTAL	Channel Maintenance Unit	3	2	208,436.54	2	213,079.10	
636	Boat Operations Unit						
HP14	Engineering Technician V	1	1		1		

Fund	Stormwater Management	2013	l	POS 2014	SITIOI I	N ANALYSIS 2015
Puna: Dept: Division:		2013		2017		PROPOSED BY EXECUTIVE
Division;						DIRECTOR
PAY PLAN & GRADE	CLASS TITLE	ACTUAL FTEs	BUDGETED FTEs	APPROPRIATION IN DOLLARS	BUDGETED FTEs	APPROPRIATION IN DOLLARS
HP14	Engineering Technician V #4	1	1		1	
HP12	Engineering Technician IV	1	1		1	
HP12	Engineering Technician IV #4	1	1		1	
NR8650	Maintenance Laborer Class A Shift	2	2		2	
TOTAL	Boat Operations Unit	6	6	501,706.40	6	505,307.40
637	North Service Area Channel Maintenance Unit					
HP14	Engineering Technician V	1	-		-	
NR8650	Maintenance Laborer Class A Shift	4	-		-	
TOTAL	North Service Area Channel Maintenance Unit	5	-	-	-	-
638	Calumet Service Area Channel Maintenance Unit					
NR8331	Laborer Foreman	1	-		-	
NR8650	Maintenance Laborer Class A Shift	1	-		-	
TOTAL	Calumet Service Area Channel Maintenance Unit	2	-	-	-	-
639	Channel Maintenance Unit (formerly Stickney Service Area Channel Maintenance Unit)					
HP14	Engineering Technician V	-	1		1	
HP14	Engineering Technician V #4	1	1		1	
NR8331	Laborer Foreman	1	2		-	
NR8331	Laborer Foreman #1	-	-		1	
NR8650	Maintenance Laborer Class A Shift	2	4		2	
TOTAL	Stickney Service Area Channel Maintenance Unit	4	8	653,527.94	5	425,975.94
679	Collection System Unit					
NR8331	Laborer Foreman	1	1		1	
NR8650	Maintenance Laborer Class A Shift	4	4		4	
PR6473	Truck Driver	1	1		1	
TOTAL	Collection System Unit (formerly Collection System Unit Central Service Area)	6	6	449,820.80	6	451,193.60
TOTAL	General Division	26	22	1,813,491.68	19	1,595,556.04

Dept: Division:			T		POS	SITIO	N ANALYSIS
PAY PLAN & GRADE CLASS TITLE PROPRIATION PROPERTY Proper			2013		2014	P	2015 PROPOSED BY
PAY PLAN & GRADE CLASS TITLE PAPPROPRIATION PAPPR	Division:						EXECUTIVE
940 Stickney Service Area General Plant Services Section 924 Stickney Maintenance Unit PR7773 Pipefitter 1 1 1 1 TOTAL Stickney Maintenance Unit 1 1 95,680.00 1 95,680.00 934 Stickney Mechanical Operations Unit 4 4 4 4 NR8631 Operating Engineer I 4 4 4 4 NR8650 Maintenance Laborer Class A Shift 4 4 4 4 TOTAL Stickney Mechanical Operations Unit 8 8 661,190.40 8 661,190.40 TOTAL Stickney Service Area General Plant Services Section 9 9 756,870.40 9 756,870.40 9 756,870.40 TOTAL Maintenance & Operations 35 31 2,570,362.08 28 2,352,426.44	PAY PLAN	CLASS TITLE	ACTUAL FTEs	UDGETED		UDGETED	APPROPRIATION
PR7773 Pipefitter 1 1 1 1 1 1 1 1 1 95,680.00 1 95,680.00 1 95,680.00 1 95,680.00 1 95,680.00 1 95,680.00 1 95,680.00 1 95,680.00 1 95,680.00 1 95,680.00 1 95,680.00 1 95,680.00 1 95,680.00 1 95,680.00 1 95,680.00 1 95,680.00 1 95,680.00 1 95,680.00 1 95,680.00 2				В		В	
TOTAL Stickney Maintenance Unit 1 1 95,680.00 1 95,680.00 934 Stickney Mechanical Operations Unit 4 4 4 NR6831 Operating Engineer I 4 4 4 NR8650 Maintenance Laborer Class A Shift 4 4 4 TOTAL Stickney Mechanical Operations Unit 8 8 661,190.40 8 661,190.40 TOTAL Stickney Service Area General Plant Services Section 9 9 756,870.40 9 756,870.40 TOTAL Maintenance & Operations 35 31 2,570,362.08 28 2,352,426.44	924	Stickney Maintenance Unit					
934 Stickney Mechanical Operations Unit 4 4 4 4 NR8631 Operating Engineer I 4 4 4 4 NR8650 Maintenance Laborer Class A Shift 4 4 4 4 TOTAL Stickney Mechanical Operations Unit 8 8 661,190.40 8 661,190.40 TOTAL Stickney Service Area General Plant Services Section 9 9 756,870.40 9 756,870.40 TOTAL Maintenance & Operations 35 31 2,570,362.08 28 2,352,426.44	PR7773	Pipefitter	1	1		1	
NR6831 Operating Engineer I 4 4 4 NR8650 Maintenance Laborer Class A Shift 4 4 4 TOTAL Stickney Mechanical Operations Unit 8 8 661,190.40 8 661,190.40 TOTAL Stickney Service Area General Plant Services Section 9 9 756,870.40 9 756,870.40 TOTAL Maintenance & Operations 35 31 2,570,362.08 28 2,352,426.44	TOTAL	Stickney Maintenance Unit	1	1	95,680.00	1	95,680.00
NR8650 Maintenance Laborer Class A Shift 4 4 4 TOTAL Stickney Mechanical Operations Unit 8 8 661,190.40 8 661,190.40 TOTAL Stickney Service Area General Plant Services Section 9 9 756,870.40 9 756,870.40 TOTAL Maintenance & Operations 35 31 2,570,362.08 28 2,352,426.44	934	Stickney Mechanical Operations Unit					
TOTAL Stickney Mechanical Operations Unit 8 8 661,190.40 8 661,190.40 TOTAL Stickney Service Area General Plant Services Section 9 9 756,870.40 9 756,870.40 TOTAL Maintenance & Operations 35 31 2,570,362.08 28 2,352,426.44	NR6831	Operating Engineer I	4	4		4	
TOTAL Stickney Service Area General Plant Services Section 9 9 756,870.40 9 756,870.40 TOTAL Maintenance & Operations 35 31 2,570,362.08 28 2,352,426.44	NR8650	Maintenance Laborer Class A Shift	4	4		4	
TOTAL Maintenance & Operations 35 31 2,570,362.08 28 2,352,426.44	TOTAL	Stickney Mechanical Operations Unit	8	8	661,190.40	8	661,190.40
	TOTAL	Stickney Service Area General Plant Services Section	9	9	756,870.40	9	756,870.40
TOTAL Stormwater Management	TOTAL	Maintenance & Operations	35	31	2,570,362.08	28	2,352,426.44
	TOTAL	Stormwater Management	49	63	5,575,139.70	60	5,477,105.66

Note: The positions budgeted are funded by the Stormwater Management Fund, while the operations remain in the Engineering and Maintenance & Operations Departments, respectively.

NOTE: Departmental appropriation totals for salaries in the Position Analysis differ from those contained in the Line Item Analysis by a factor identified to adjust for vacancies. Salary ranges corresponding to the pay plan and grade for each class title can be found in the table of Salary Schedules in the Appendix.

NOTE PAGE

SECTION VII

OTHER FUNDS

Other funds included in the annual District Budget are: the Reserve Claim Fund, Bond Redemption & Interest Fund, Retirement Fund, Corporate Working Cash Fund, Construction Working Cash Fund, and Stormwater Working Cash Fund.

The Reserve Claim Fund is used to accumulate resources for the payment of claims and judgments against the District, as well as for emergency repair or replacement of District facilities. A narrative description of the purpose and operation of this fund is contained in this section along with an appropriation schedule. A tax levy ordinance for this Fund is presented in Section VIII of this Budget.

The Bond Redemption & Interest Fund is used to accumulate the proceeds from property taxes and investment income, which are set aside to pay the principal and interest on the outstanding bond issues of the Metropolitan Water Reclamation District of Greater Chicago. These funds are segregated and accounted for by each bond issue. A narrative description of this fund and an appropriation schedule, detailing payment of principal and interest during 2015, are included in this section. A tax levy ordinance for the principal and interest due in 2016 and 2017 from the Bond Redemption & Interest Fund is included in Section VIII of this Budget. Statements of Outstanding Bonds and Estimated Statutory Debt Margin, with a graphic illustration of past, current, and estimated future debt service, are included in the Budgetary and Financial Summaries section, pages 48 and 49.

The Retirement Fund is the pension plan for District employees, accounted for in a trust fund the Illinois Compiled Statutes established as a legal entity separate and distinct from the District. This section contains an appropriation of taxes the District received on behalf of the Retirement Fund. A tax levy ordinance for this Fund is presented in Section VIII of this Budget.

The District utilizes Corporate and Construction Working Cash Funds, as authorized by Illinois Compiled Statutes, to make temporary loans to the Corporate and Construction Funds, and Stormwater Working Cash Fund. Loans are repaid to the Working Cash Funds from the tax levies of the Funds. The use of Working Cash Funds eliminates the need to issue short-term financing. There will be no tax levies for the Corporate, Construction, or Stormwater Working Cash Funds in 2015.

Reserve Claim Fund: Description of Fund, Purpose, and Operation 505 Line Item Analysis 506 Bond Redemption & Interest Fund: Description of Fund, Purpose, and Operation 507 Appropriation for Payment of Outstanding Bonds, 2015 509 Retirement Fund: Description of Fund, Purpose, and Operation 510 Appropriation Ordinance 512

RESERVE CLAIM FUND

Description of Fund, Purpose, and Operation

The Reserve Claim Fund is the District's self-insurance fund. It is maintained at an appropriation level adequate to meet potential liabilities. The fund is capable of providing coverage for those risks that can be expected to be encountered and is able to pay such claims without exposing the agency to financial risk that could curtail normal operations of protecting the public health, safety, and welfare.

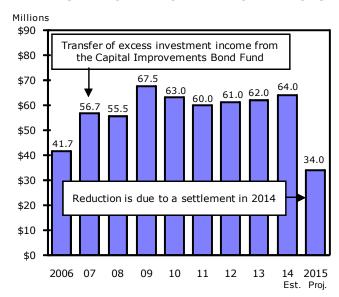
A property tax levy limited by law at 0.5 cents per \$100 of equalized assessed valuation (EAV) provides funds for this purpose. The accumulation of funds, per Illinois State Statute, is not to exceed .05 percent of the equalized assessed valuation, or approximately \$61.7 million. Resources are accumulated in this fund to the extent that revenue from the annual tax levy, personal property replacement tax, and investment income on the fund balance is reduced by the payment of claims.

The policy set by the Board of Commissioners is to accumulate a reserve fund balance towards the statutory limit and to levy at the statutory tax rate limit; however, due to the downturn in the economy, only a portion of the tax rate limit will be levied. This policy is similar in function to insurance company reserves. The estimated 2014 year-end fund balance is \$33.6 million and the projection for 2015 is \$25.8 million.

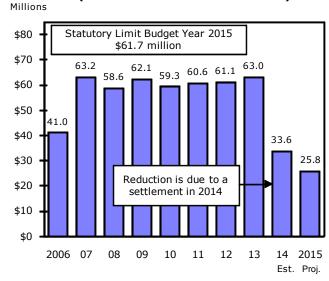
The appropriation for the Reserve Claim Fund is not designed to be spent during any one budget year. The available fund balance plus new revenue to be received must be appropriated each year to authorize the District to fund emergencies and to settle large claims or lawsuits. Designation is also provided for accounts payable and other contingent liabilities. For 2015, accounts payable and other liabilities are estimated at \$2.4 million. The designation for liabilities is reviewed and adjusted on an annual basis.

The fund is appropriated in two line items, Account 601090 (Employee Claims) and Account 667220 (General Claims and Emergency Repair and Replacement Costs). Account 601090 is for the payment of workers' compensation and other District employee claims, while Account 667220 is used to pay general claims or judgments against the District, as well as emergency repairs or replacements of District facilities. The District staff makes considerable efforts to control claim expenditures by implementing aggressive safety training programs and returning employees to work as soon as possible.

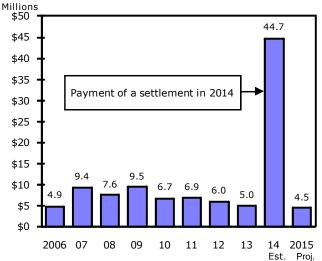
RESERVE CLAIM FUND APPROPRIATIONS



RESERVE CLAIM FUND BALANCE (BUDGETARY BASIS END OF YEAR)



RESERVE CLAIM FUND EXPENDITURES



901	Fund: Reserve Claim Department:			LINE	ITEM ANA	LYSIS			
	Division:	2013		20	014		2015		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment	
601090	Employee Claims	\$ 4,769,637	\$ 10,000,000	\$ 10,000,000	\$ 2,532,103	\$ 3,082,100	\$ 10,000,000	\$ -	
100	TOTAL PERSONAL SERVICES	4,769,637	10,000,000	10,000,000	2,532,103	3,082,100	10,000,000	-	
667220	General Claims & Emerg Repair & Replacement Costs	205,917	54,000,000	54,000,000	1,946,175	41,600,000	24,000,000	-	
700	TOTAL FIXED AND OTHER CHARGES	205,917	54,000,000	54,000,000	1,946,175	41,600,000	24,000,000	-	
TOTAL	RESERVE CLAIM FUND	\$ 4,975,554	\$ 64,000,000	\$ 64,000,000	\$ 4,478,278	\$ 44,682,100	\$ 34,000,000	\$ -	

NOTES: 1. Amounts may not add up due to rounding.

^{2.} Public Act 098-0069 signed into law by the Governor on July 15, 2013, amends the District Act to expand the type of claims payable from the Reserve Claim Fund, as well as the legal costs in defense of such claims, and lastly, removes the \$10,000 threshold for repairs to the District's facilities in the event of fire or emergency.

BOND REDEMPTION & INTEREST FUND

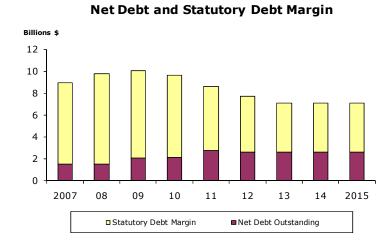
Description of Fund, Purpose, and Operation

The District's Bond Redemption & Interest Fund is a debt service fund established to account for annual property tax levies and certain other revenues, principally interest on investments, which are used for the payment of interest and redemption of general obligation bond issues. Sub-funds are established for each debt issue.

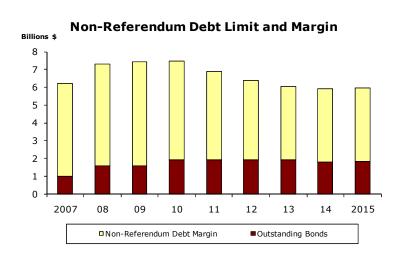
Debt Limits, Margins, and Borrowing Authority

Applicable Illinois Statutes establish the following limitations relative to the District:

- General Obligation Notes may be issued at an amount not to exceed 85 percent of the current General Corporate Fund tax levy.
- The District may fund up to 100 percent of the aggregate total of the estimated amount of taxes levied or to be levied for corporate purposes plus the General Corporate Fund portion of the personal property replacement tax allocation certified for distribution during the budget year, through borrowing from the Corporate Working Cash Fund and the issuance of tax anticipation notes or warrants.



- The District's debt may not exceed 5.75 percent of the last published equalized assessed valuation (EAV) of taxable real estate (\$123.4 billion for 2013) within the District. On December 31, 2014, the District's statutory debt limit is estimated at \$7.1 billion, with a net applicable debt of \$2.6 billion and an estimated statutory debt margin of \$4.5 billion.
- The amount of non-referendum Capital Improvements Bonds which may be outstanding may not exceed 3.35 percent of the last-known EAV of taxable real property within the District. On December 31, 2014, it is estimated that the District's outstanding capital improvement and refunding bonds will total \$1.8 billion with a non-referendum statutory debt limit of \$4.1 billion and a non-referendum bonded debt margin of \$2.3 billion.
- The Illinois Compiled Statutes provide authorization for the funding of the District's Capital Improvement Program by the issuance of non-referendum Capital Improvements Bonds through the year 2024, as extended, effective January 1, 2011. Bonds may be issued during any one budget year in an amount not to exceed \$150 million plus the amounts of any bonds authorized and unissued during the three preceding budget years. This amount was increased from \$100 million during 2003 as the result of Public Act 93-279. The extension of non-referendum bonding authority is a significant change that accommodates funding of the capital program as planned. Build America Bonds were issued in the amount of \$600 million in August 2009, and were exempted from the non-referendum authority by statute.
- This non-referendum authority had been significantly impacted by enactment of the Tax Cap laws, Public Acts 89-1 and 89-385. Public Act 89-1 restricted the District's non-referendum authority to only apply to projects initiated prior to October 1, 1991. There was a specific exception, essentially to exclude debt for the TARP project, to the more restrictive provisions of the Act which require referendum approval of all new debt. A subsequent law, Public Act 89-385, provides additional non-referendum authority to the District by authorizing the issuance of "limited bonds". These "limited bonds" allow the District to issue non-referendum debt for projects initiated after October 1, 1991. Limited bonds can be issued to the extent that the total debt service requirements of any new debt when combined with existing debt service, does not exceed the debt service extension base established by the Act. The debt service extension limitation for the District is \$156.9 million.



BOND REDEMPTION & INTEREST FUND

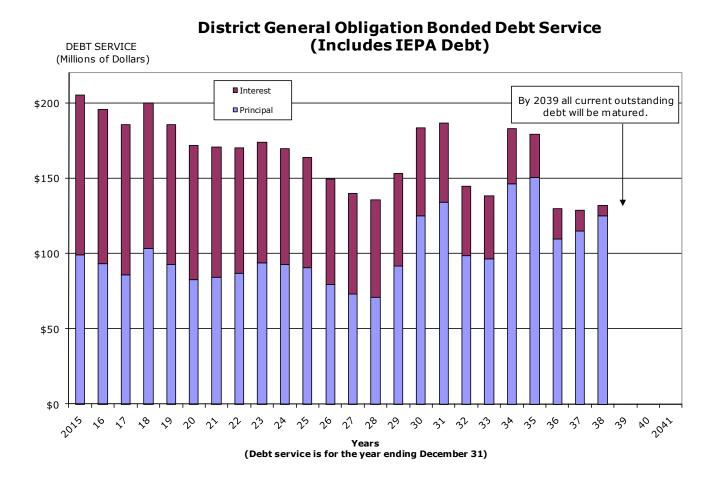
Description of Fund, Purpose, and Operation (continued)

- Additional legislation was passed in 1997 to expand the "limited bond" authority for the District. Public Act 90-485 excludes debt associated with the TARP program from the limitations imposed by prior Tax Cap legislation. Public Act 96-0501 allows for an annual increase in this debt service extension limitation base by the lesser of five percent or the percentage increase in the CPI beginning with the 2009 levy.
- The amount of non-referendum Corporate Working Cash Bonds which, when added to a) proceeds from the sale of working cash bonds previously issued, b) any amounts collected from the corporate working cash fund levy, and c) amounts transferred from the construction working cash funds, may not exceed 90 percent of the amount produced by multiplying the maximum general corporate tax rate (41 cents per \$100 of EAV) permitted by the last known EAV of all property in the District (\$123.4 billion for 2013) at the time the bonds are issued, plus 90 percent of the last-known entitlement of the Personal Property Replacement Tax. At December 31, 2013 (last audited numbers), the District's remaining Corporate Working Cash Fund Bond authorization equaled \$235.5 million.

Current and Future Bond Debt Service

The exhibit below reflects the current debt service obligation of the District. Bond sale proceeds provide partial financing for the ongoing new construction and rehabilitation program of the District. As current State Revolving Fund loans are converted to bonds, additional annual debt service will be added. These amounts will be in the range of \$4 to \$6 million per year.

The debt for future bond sales is not included in this exhibit. Future bond sales are based on estimated cash flow requirements of the Capital Improvements Bond Fund new construction and rehabilitation program. It is estimated that the next Capital Improvements Bond issue will be in 2016. The estimates for total debt service assuming future bond sales are included in the Five-Year Financial Forecast included in Section II, Financial Summaries by Fund, of this budget document.



BOND REDEMPTION & INTEREST FUND

Appropriation for Payment of Outstanding Bonds During the Year 2015

		JANU	JARY 1, 2015		JULY 1, 2015	
	RATES OF	INTEREST	PRINCIPA	AL INTERES		TOTAL
BOND ISSUE	INTEREST	PAYABLE	PAYABI			
Conital Improvements Dands Society						
Capital Improvements Bonds - Series: July 2006 Limited Tax	5.0	\$ 2,489,000	(1) ¢	¢ 2.490.00	0 (2) € 11 005 000	(2) \$ 16,072,000
•		. , ,	() .		0 (2) \$ 11,995,000	
August 2009 Limited Tax	5.72	17,160,000	· /	- 17,160,00	` /	(2) 34,320,000
July 2011 Limited Tax Series A	0.891 to 2.229		` /		6 (2) 4,175,000	
July 2011 Limited Tax Series B	5.0	6,703,922		- 6,703,92		(=) 15,107,011
July 2011 Unlimited Tax Series C	3.0 to 5.0	1,869,116	(1)	- 1,869,11	6 (2) 16,900,000	(2) 20,638,232
State Revolving Fund Bonds - Series:						
92Q SRF L 170874	2.50	10,141	811,29	4		821,435
94R SRF L 170820	2.50	61,043	788,83	1 51,18	2 798,692	1,699,748
92S SRF L 170875	2.50	16,825	443,09			
92T SRF L 170876	2.50	36,985	577,13			
92U SRF L 170877	2.50	49,639	641,46			
94V SRF L 171150	2.50	102,038	976,56			
97AA SRF L 170822	2.506	191,063	1,440,82			
97BB SRF L 171151	2.535	45,956	281,65			
97CC SRF L 172031	2.535	205,012	985,83			
97DD SRF L 171152	2.905	118,772	400,75	,		, ,
01A SRF L 172126	2.57	408,922	1,489,41			
01B SRF L 172127	2.50	442,612	1,484,96			
01C SRF L 172128	2.50	421,784	1,275,36			
04A SRF L 172485	2.50	186,245	488,51			
04B SRF L 172488	2.50	254,552	667,68			
04C SRF L 172493	2.50	23,046	63,27		,	
04D SRF L 172494	2.50	22,101	60,68			
04E SRF L 172495	2.50	73,701	184,94			
04F SRF L 172496	0.00	-	99,36		- 99,367	
04G SRF L 172611	2.50	35,903	98,58			268,970
04H SRF L 172849	2.50	535,039	1,233,68	3 519,61	8 1,249,104	3,537,444
07A SRF L 172625	2.50	442,742	942,48	7 430,96	1 954,268	2,770,458
07B SRF L 172850	2.50	303,459	621,67	7 295,68	9 629,448	1,850,273
07C SRF L 172770	0.00	-	1,666,66	7	- 1,666,667	3,333,334
07D SRF L 172763	2.50	100,985	214,97	1 98,29	7 217,658	631,911
09A SRF L173074	1.25	269,129	1,070,32	5 262,44	0 1,077,014	2,678,908
09B SRF L 173064	0.00	-	191,44	.5	- 191,445	382,890
09C SRF L 173063	0.00	-	55,97	9	- 55,979	111,958
09D SRF L174588	2.30	324,530	597,93	5 317,66	8 604,796	1,844,929
09E SRF L 173005	1.25	217,052	922,44			
09F SRF L 174557	1.25	365,798	1,456,34	,	,	
09G SRF L173075	1.25	177,173	683,35			
09H SRF L 173800	0.00	-	17,04		- 17,041	
09I SRF L 174675	1.25	58,650	256,93			
12A SRF L 174710	2.295	130,846	79,55			
12B SRF L 174712	2.295	68,256	102,59	,		
Refunding Bonds - Series:						
May 2006 Unlimited	5.035	8,665,000	(1)	- 8,665,00	0 (2)	(2) 17,330,000
May 2006 Limited	5.035	1,269,750		- 1,269,75	* *	(2) 2,539,500
March 2007 Unlimited Series A	4.0 to 5.0	4,201,375		- 4,201,37	* *	
March 2007 Unlimited Series B	4.0 to 5.0	2,410,932		- 2,410,93		(2) 4,821,863
March 2007 Limited Series C	4.0 to 5.0	2,673,825		- 2,673,82	* *	(2) 5,347,650
TOTAL		\$ 53,238,415	\$23,373,69	5 \$ 52,936,08	5 \$ 75,599,586	\$205,147,781

⁽¹⁾ Interest Payable June 1, 2015.

⁽²⁾ Interest and Principal Payable December 1, 2015.

RETIREMENT FUND

Description of Fund, Purpose, and Operation

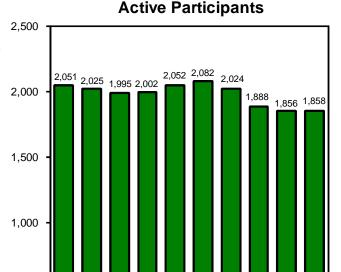
The Metropolitan Water Reclamation District Retirement Fund (Fund) is a defined benefit public employee retirement system that provides retirement, death, and disability benefits to the employees of the Metropolitan Water Reclamation District of Greater Chicago according to Chapter 40, Act 5, Articles 1, 13, and 20 of the Illinois Compiled Statutes.

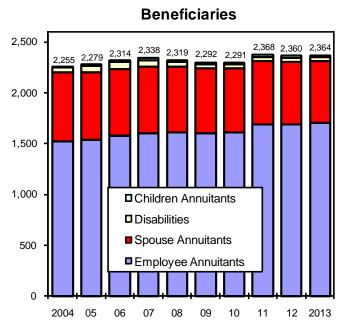
On August 3, 2012, the Governor signed Public Act 97-0894. This law increased the required contributions one percent per year for three years beginning in 2013 for employees who first became a member of the Fund or certain reciprocal systems before January 1, 2011. The employee contribution rate will be reduced to nine percent when the funded ratio reaches 90 percent. This bill also changes the manner in which the District calculates the annual tax levy. Beginning in 2013, the tax levy will be based on the Fund's actuarially determined contribution requirement but shall not exceed an amount equal to employee contributions two years prior multiplied by 4.19.

As of December 31, 2013, there were 1,858 active (contributing) participants in the Fund and 2,364 beneficiaries. Annuitants accounted for 2,329 of these beneficiaries, including 1,704 retired employees, 605 surviving spouses, and 20 children. Additionally, the Fund paid disability benefits to 35 District employees.

Gross income for the Fund is composed of the following items:

- Employee contributions beginning in 2015, employees hired prior to January 1, 2011 will contribute 12 percent of salary to the Fund. Employees hired on or after January 1, 2011 will contribute nine percent of salary to the Fund since they are entitled to reduced benefits under the new provisions which include a higher retirement age and a longer final average salary period.
- Employer contributions include real estate property tax levies and the Personal Property Replacement Tax. In 2015, the District shall annually levy a tax which will produce a sum that will be sufficient to meet the Fund's actuarially determined contribution requirement but shall not exceed an amount equal to the employee contributions two years prior multiplied by 4.19. The tax levy calculation is defined under the Illinois Compiled Statutes and is only changed upon recommendation by the Trustees of the Fund based on Fund requirements and approval by the Illinois State Legislature.
- <u>Investment income</u> includes dividends and interest, as well as realized and unrealized appreciation (depreciation) in the fair value of the investments.





80

09

10

11

12 2013

Gross income for 2013 was \$341.4 million which is a combination of employee and employer contributions of \$109.8 million, investment income of \$231.0 million, securities lending income of \$545 thousand, and other income of \$7 thousand; reflecting an income of \$140.5 million more than in 2012. The increase was primarily due to returns in the equity markets during 2013.

500

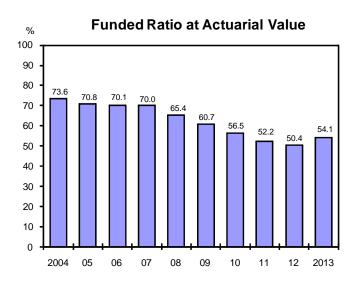
2004 05

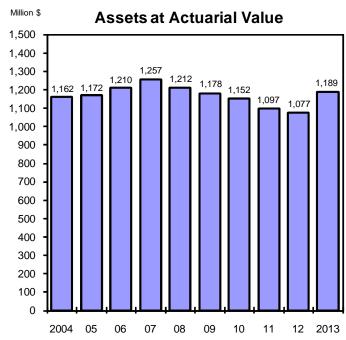
06 07

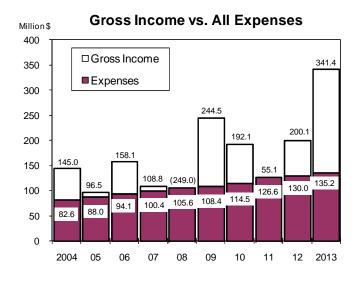
Expenses for 2013 include annuity and disability benefit payments of \$127.2 million, investment management expenses of \$5.5 million, administrative expenses of \$1.4 million, and refunds of \$1.1 million for a total of \$135.2 million.

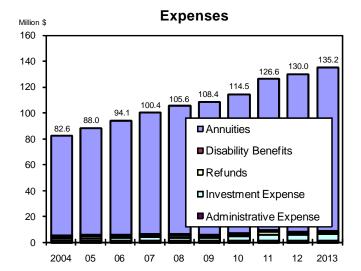
As of December 31, 2013, the funded ratio of the Fund was 54.1 percent. Beginning in 1997, Fund assets and this ratio are reported at the new Actuarial Asset Value required by the Governmental Accounting Standards Board. The funded ratio has been in the range of 50.4 percent to 73.6 percent during the last ten years.

For the 2015 Budget, the gross levy totals \$58.0 million, an increase of \$7.5 million, or 14.8 percent, above the 2014 adjusted levy. The 2015 appropriation is \$61.7 million, a decrease of \$13.3 million, or 17.8 percent, below the 2014 Adjusted Budget.









Appropriation Ordinance

THE METROPOLITAN WATER RECLAMATION DISTRICT RETIREMENT FUND

Amount of Estimated Expenditures for the Purpose of the Metropolitan Water Reclamation District Retirement Fund \$61,654,000.

Section 9. That the appropriation herein of the amounts for the payment of "unpaid bills" or "contractual liabilities," or to defray the expense of any project or purpose, shall not be construed as an approval or an admission of liability by the Board of Commissioners of any said bills or contractual liabilities, or of any project or purpose mentioned herein but shall be regarded only as the provision of a fund or funds, for the payment thereof when

said bills or contractual liabilities have been found to be valid and legal obligations against the Metropolitan Water Reclamation District of Greater Chicago and when properly vouchered and audited by the Department of Finance, or when any project or purpose is approved and authorized by the Board of Commissioners of the Metropolitan Water Reclamation District of Greater Chicago, as the case may be.

Section 10. This ordinance shall take effect January 1, 2015.

Approved as to Form and Legality:

Approved:

Head Assistant Attorney

President,
Board of Commissioners of the
Metropolitan Water Reclamation District
of Greater Chicago

General Counsel

SECTION VIII

TAX LEVY ORDINANCES

The Tax Levy Ordinances are the means by which tax levies, enacted by the Board of Commissioners under authority of the Illinois Compiled Statutes, are given legal effect.

Each tax levy states the revenue which is to be raised, through the collection of property taxes, to finance the operations of a specific fund. The gross tax levy, which allows for loss in collection, is presented with the amount of estimated loss, where applicable. A factor of 3.5 percent for loss in collection is used for 2015 levies.

This section includes 2015 Tax Levy Ordinances for the Retirement Fund, Corporate Fund, Construction Fund, Reserve Claim Fund, and Stormwater Management Fund. A Tax Levy Ordinance, to pay the interest on outstanding bonds and to discharge the principal thereof, along with a detailed schedule of the 2015 Tax Levy for Payment of Outstanding Bonds, can be found in this section.

Retirement Fund and Corporate Fund	513
Construction Fund	514
Bond Redemption & Interest Fund:	
Tax Levy Ordinance for Outstanding Bonds	515
Tax Levy for Payment of Outstanding Bonds, 2015	517
Reserve Claim Fund	519
Stormwater Management Fund	520

FOR THE LEVY OF TAXES FOR THE FISCAL YEAR
BEGINNING JANUARY 1, 2015 AND ENDING DECEMBER 31, 2015
UPON ALL TAXABLE PROPERTY WITHIN THE TERRITORIAL LIMITS OF THE
METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
AS SAID TERRITORIAL LIMITS EXIST ON JANUARY 1, 2015
FOR THE PURPOSE OF PROVIDING REVENUES FOR
THE METROPOLITAN WATER RECLAMATION DISTRICT
RETIREMENT FUND AND CORPORATE FUND

BE IT ORDAINED by the Board of Commissioners of the Metropolitan Water Reclamation District of Greater Chicago:

Section 1. That there be and is hereby levied upon all taxable property within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago, as said territorial limits exist on January 1, 2015, for the fiscal year ending December 31, 2015, the amounts of money hereinafter stated as follows:

For the amount certified to the Board of Commissioners of the Metropolitan Water Reclamation District of Greater Chicago by the Retirement Board of the Metropolitan Water Reclamation District Retirement Fund for the purpose of providing the revenue for the Retirement Fund of the Metropolitan Water Reclamation District pursuant to Article 13 of the Illinois Pension Code, the sum of \$58,004,000 which includes the sum of \$2,030,140 as a reserve for loss in collection of taxes, distributed as

Contributions for Service Retirement Allowances and Spouses' Allowances	\$13,075,500
Contributions for Ordinary Disability Benefits	891,100
Contributions for Duty Disability Benefits	390,100
Contributions for Expense of Administration	
Contributions for Children's Annuities	93,400
Contributions for Current and Past Service Requirements	<u>42,296,600</u>
•	\$58,004,000

For Corporate Purposes of the said Metropolitan Water Reclamation District of Greater Chicago "the sum of \$227,196,000 which includes the sum of \$7,951,860 as a reserve for loss in the collection of taxes."

Section 2. That the Clerk of the Metropolitan Water Reclamation District of Greater Chicago be, and is hereby directed to certify to the County Clerk of Cook County, the several amounts above set forth to be raised by taxation in the year 2015 and to file a certified copy of the Ordinance with the said County Clerk of Cook County and said County Clerk of Cook County aforesaid, is hereby directed to cause the aforesaid amounts of money to be extended upon and against the taxable property within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago, as said territorial limits exist on January 1, 2015, all in accordance with the laws and statutes of the State of Illinois in such case made and provided, and the Clerk of the Metropolitan Water Reclamation District of Greater Chicago is hereby directed to cause this Ordinance to be published at least once in a newspaper published within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago and to incur the necessary expenses therefor.

Section 3. This Ordinance shall take effect January 1, 2015.

Approved as to Form and Legality: Approved:

Head Assistant Attorney President,

Board of Commissioners of the Metropolitan Water Reclamation District

of Greater Chicago

General Counsel

FOR THE LEVY OF TAXES FOR THE FISCAL YEAR
BEGINNING JANUARY 1, 2015 AND ENDING DECEMBER 31, 2015
UPON ALL TAXABLE PROPERTY WITHIN THE TERRITORIAL LIMITS OF THE
METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
AS SAID TERRITORIAL LIMITS EXIST ON JANUARY 1, 2015
FOR THE PURPOSE OF PROVIDING REVENUES
FOR THE CONSTRUCTION FUND

BE IT ORDAINED by the Board of Commissioners of the Metropolitan Water Reclamation District of Greater Chicago:

Section 1. That there be and is hereby levied upon all taxable property within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago, as said territorial limits exist on January 1, 2015, for the fiscal year ending December 31, 2015, to provide revenue for the replacement, remodeling, completion, alteration, construction, and enlargement, including alterations, enlargements and replacements which will add appreciably to the value, utility, or the useful life of sewage treatment works or flood control facilities, and additions therefor, pumping stations, tunnels, conduits and intercepting sewers connecting therewith, and outlet sewers together with the equipment and appurtenances necessary thereto, and for the acquisition of the sites and rights of way necessary thereto, and for engineering expenses for designing and supervising the construction of the works above described, "the sum of \$16,500,000 which includes the sum of \$577,500 as a reserve for loss in collection of taxes."

Section 2. That the Clerk of the Metropolitan Water Reclamation District of Greater Chicago be, and is hereby directed to certify to the County Clerk of Cook County, the amount above set forth to be raised by taxation in the year 2015 and to file a certified copy of the Ordinance with the

of Cook County aforesaid, is hereby directed to cause the aforesaid amount of money to be extended upon and against the taxable property within the territorial limits of the Metropolitan Water Reclamation of Greater Chicago, as said territorial limits exist on January 1, 2015, all in accordance with the laws and statutes of the State of Illinois in such case made and provided, and subject to reduction as provided in the text below, and the Clerk of the Metropolitan Water Reclamation District of Greater Chicago is hereby directed to cause this Ordinance to be published at least once in a newspaper published within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago and to incur the necessary expenses therefor.

said County Clerk of Cook County, and said County Clerk

Section 3. That said County Clerk of Cook County, as tax extension officer for said District, is hereby directed to reduce this levy of taxes by the District for the year 2015 by the amount necessary to enable said District's aggregate tax levies to comply with the Property Tax Extension Limitation Law; that is, the entire reduction in the aggregate of all tax levies for said District for the year 2015 required by said Law shall be taken against the Construction Fund levy as set forth in this Ordinance.

Section 4. This Ordinance shall take effect January 1, 2015.

Approved as to Form and Legality:

Approved:

Head Assistant Attorney

President, Board of Commissioners of the Metropolitan Water Reclamation District of Greater Chicago

General Counsel

FOR THE LEVY OF TAXES FOR THE FISCAL YEAR BEGINNING JANUARY 1, 2015 AND ENDING DECEMBER 31, 2015 TO PAY THE INTEREST ON OUTSTANDING BONDS AND TO DISCHARGE THE PRINCIPAL THEREOF

BE IT ORDAINED by the Board of Commissioners of the Metropolitan Water Reclamation District of Greater Chicago:

Section 1. For the purpose of creating a sinking fund to pay the principal and interest on outstanding bonds, there is hereby levied upon all taxable property within the territorial limits of the Metropolitan Water

Reclamation District of Greater Chicago, as said territorial limits exist on January 1, 2015, and all taxable property in townships or parts of townships disconnected from the Metropolitan Water Reclamation District of Greater Chicago prior to January 1, 2015, but after the issuance of any bonds, the amounts of money hereinafter stated:

August 2009 Limited Tax	08 26 00	25 564 767
July 2011 Limited Tax Series A	07 21 11	5 646 421
July 2011 Limited Tax Series B		13,894,139
July 2011 Unlimited Tax Series C		13,205,422
Pending December 2014	TBD	13,471,503
State Revolving Funds Bonds – Series:		
92T SRF 170876		
92U SRF L170877		
94R SRF L170820		1.761.396
94V SRF L171150		
97AA SRF 170822		
97BB SRF L171151		
97CC SRF L172031		
97DD SRF L171152		
01A SRF L172126		
01B SRF L172127		
O1C SRF L172128		
04A SRF L172485		
04B SRF L172488		1 911 370
04C SRF L172493	••••••	178 912
04D SRF L172494		
04E SRF L172495		
04F SRF L172496		205 942
04G SRF L172611		
04H SRF L172849	••••••	3 665 744
07A SRF L172625	••••••	2 870 940
07B SRF L172850		
07C SRF L172770	••••••	3 454 231
07D SRF L172763		
09A SRF L173074	••••••	2 776 069
09B SRF L173064	••••••	396 777
09C SRF L173063		
09D SRF L174558	••••••	1 911 844
09E SRF L173005		
09F SRF L174557	••••••	3 776 466
09G SRF L173075	••••••	1 783 487
09H SRF L173800	••••••	35 319
09I SRF L174675		
12A SRF L174710		
12B SRF L174712		
12C SRF L174621		
12D SRF L174988		
12E SRF L174709		
12F SRF L174989	•••••	2 550 585
12H SRF L174924		
12I SRF L174524		
121 DIG 1117337		207,974

FOR THE LEVY OF TAXES FOR THE FISCAL YEAR BEGINNING JANUARY 1, 2015 AND ENDING DECEMBER 31, 2015 TO PAY THE INTEREST ON OUTSTANDING BONDS AND TO DISCHARGE THE PRINCIPAL THEREOF (CONTINUED)

State Revolving	Funds	Bonds –	Series	(continued):

12J SRF L175172	
12K SRF L175925	
12L SRF L175161	
12M SRF L175168	538,860
12N SRF L175164	
120 SRF L175166	
12P SRF L175223	

Refunding Bonds – Series:

ones series.		
May 2006 Unlimited Tax	05-01-06	17,958,549
May 2006 Limited Tax		
March 2007 Unlimited Tax Series A		29,061,140
March 2007 Unlimited Tax Series B		4,996,749
March 2007 Limited Tax Series C		5,541,606
		\$228.575.957

Section 2. That the Clerk of the Metropolitan Water Reclamation District of Greater Chicago be, and is hereby directed to certify to the County Clerk of Cook County, the several amounts above set forth to be raised by taxation in the year 2015 for the purpose of providing the funds to pay the interest on bonds and discharge the principal thereof, and to file a certified copy of this Ordinance with said County Clerk of Cook County, and said County Clerk of Cook County is hereby directed to cause aforesaid amounts of money to be extended upon and against taxable property within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago as said territorial limits exist on January 1, 2015, and the County Clerk of Cook County is further directed to extend upon all taxable property in all townships or

parts of townships disconnected from the Metropolitan Water Reclamation District of Greater Chicago prior to January 1, 2015 those amounts aforesaid necessary to pay the principal and interest for any bonds issued prior to the date of disconnection, all in accordance with the laws and statutes of the State of Illinois in such case made and provided, and the Clerk of the Metropolitan Water Reclamation District of Greater Chicago is hereby directed to cause this Ordinance to be published at least once in a newspaper published within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago and to incur the necessary expenses therefor.

Section 3. This Ordinance shall take effect January 1, 2015.

Approved as to Form and Legality:

Approved:

Head Assistant Attorney

President,
Board of Commissioners of the
Metropolitan Water Reclamation District
of Greater Chicago

General Counsel

BOND REDEMPTION AND INTEREST FUND

2015 Tax Levy for Payment of Outstanding Bonds

BOND ISSUE	ISSUE DATED	INTEREST PAYMENT DATES	INTEREST	PRINCIPAL	RESERVE FOR UNCOLLECTED TAX (A)	GROSS LEVY
BOND ISSUE	DATED	DATES	INTEREST	TRINCHAL	TAX (A	<u>, </u>	LL V I
Capital Improvement Bonds - S							
July 2006 Limited Tax	07-01-06	6/1/15- 12/1/15	\$ 4,378,250	\$ 11,515,000	\$ 576,439	\$	16,469,689
August 2009 Limited Tax	08-26-09	6/1/15- 12/1/15	34,320,000	-	1,244,767		35,564,767
July 2011 Lim Tax Series A	07-21-11	6/1/15- 12/1/15	118,806	5,330,000	197,625		5,646,431
July 2011 Lim Tax Series B	07-21-11	6/1/15- 12/1/15	13,407,844	-	486,295		13,894,139
July 2011 Unlim Tax Series C	07-21-11	6/1/15- 12/1/15	2,893,232	9,850,000	462,190		13,205,422
Pending December 2014	TBD	TBD	_	13,000,000	471,503		13,471,503
State Revolving Funds Bonds -	Series:						
92T SRF L170876	01-02-97	7/1/15- 1/1/16	22,652	1,205,589	44,548		1,272,789
92U SRF L170877	07-01-00	7/1/15- 1/1/16	42,241				
				1,339,969	50,132		1,432,342
94R SRF L170820	07-01-99	7/1/15-1/1/16	51,945	1,647,802	61,649		1,761,396
94V SRF L171150	01-01-03	7/1/15-1/1/16	117,243	2,039,963	78,241		2,235,447
97AA SRF L170822 97BB SRF L171151	01-08-99 10-24-00	7/1/15- 1/1/16 7/1/15- 1/1/16	253,701 66,512	3,010,079 588,708	118,375 23,764		3,382,155 678,984
97CC SRF L17131	04-27-02	7/1/15- 1/1/16	321,120	2,060,580	86,383		2,468,083
97DD SRF L171152	08-01-03	7/1/15- 1/1/16	196,030	843,018	37,686		1,076,734
01A SRF L172126	01-15-04	7/1/15 1/1/16	681,641	3,115,030	137,703		3,934,374
01B SRF L172127	01-15-05	7/1/15- 1/1/16	753,187	3,101,961	139,824		3,994,972
01C SRF L172128	06-27-08	7/1/15- 1/1/16	730,168	2,664,122	123,109		3,517,399
04A SRF L172485	06-30-08	7/1/15- 1/1/16	329,053	1,020,470	48,946		1,398,469
04B SRF L172488	06-30-08	7/1/15- 1/1/16	449,736	1,394,736	66,898		1,911,370
04C SRF L172493	06-05-07	7/1/15- 1/1/16	40,465	132,185	6,262		178,912
04D SRF L172494	06-05-07	7/1/15- 1/1/16	38,805	126,762	6,005		171,572
04E SRF L172495	06-30-08	7/1/15- 1/1/16	130,958	386,324	18,762		536,044
04F SRF L172496	12-01-09	7/1/15- 1/1/16	-	198,734	7,208		205,942
04G SRF L172611	06-05-07	7/1/15- 1/1/16	63,040	205,929	9,755		278,724
04H SRF L172849	02-27-09	7/1/15- 1/1/16	960,383	2,577,060	128,301		3,665,744
07A SRF L172625	06-16-10	7/1/15- 1/1/16	801,681	1,968,776	100,483		2,870,940
07B SRF L172850	07-01-10	7/1/15- 1/1/16	551,642	1,298,631	67,108		1,917,381
07C SRF L172770	02-01-11	7/1/15- 1/1/16	102 055	3,333,333	120,898		3,454,231
07D SRF L172763	06-09-10	7/1/15- 1/1/16 7/1/15- 1/1/16	182,855	449,056	22,919		654,830
09A SRF L173074 09B SRF L173064	07-01-13 10-27-09	7/1/15- 1/1/16	491,054	2,187,853 382,890	97,162 13,887		2,776,069 396,777
09C SRF L173063	08-26-11	7/1/15- 1/1/16	_	111,957	4,061		116,018
09D SRF L174558	07-01-14	7/1/15 - 1/1/16	600,317	1,244,612	66,915		1,911,844
09E SRF L173005	08-26-11	7/1/15- 1/1/16	393,421	1,885,575	82,658		2,361,654
09F SRF L174557	06-09-10	7/1/15- 1/1/16	667,367	2,976,923	132,176		3,776,466
09G SRF L173075	06-09-10	7/1/15- 1/1/16	324,208	1,396,857	62,422		1,783,487
09H SRF L173800	06-09-10	7/1/15- 1/1/16	-	34,083	1,236		35,319
09I SRF L174675	06-21-11	7/1/15- 1/1/16	105,969	525,193	22,892		654,054
12A SRF L174710	07-01-14	7/1/15- 1/1/16	141,450	279,351	15,262		436,063
12B SRF L174712	07-01-14	7/1/15- 1/1/16	113,963	227,737	12,393		354,093
12C SRF L174621	07-01-15	7/1/15- 1/1/16	710,000	-	25,751		735,751
12D SRF L174988	07-01-14	7/1/15- 1/1/16	1,820,000	-	66,010		1,886,010
12E SRF L174709	07-01-14	7/1/15- 1/1/16	310,000	-	11,244		321,244
12F SRF L174989	07-01-14	7/1/15- 1/1/16	3,435,000	-	124,585		3,559,585
12H SRF L174924	07-01-14	7/1/15- 1/1/16	1,550,000	-	56,218		1,606,218
12I SRF L174559	07-01-14	7/1/15- 1/1/16	275,000	-	9,974		284,974
12J SRF L175172	07-01-14	7/1/15- 1/1/16	145,000	-	-		150,259

BOND REDEMPTION AND INTEREST FUND

2015 Tax Levy for Payment of Outstanding Bonds (continued)

BOND ISSUE	ISSUE DATED	INTEREST PAYMENT DATES	INTEREST	PRINCIPAL	RESERVE FOR UNCOLLECTED TAX (A)	GROSS LEVY
•		DATES	INTEREST	I KINCII AL	IAA (A)	LEVI
State Revolving Funds Bonds -	Series:					
12K SRF L175925	07-01-15	7/1/15- 1/1/16	775,000	-	28,109	803,109
12L SRF L175161	07-01-15	7/1/15- 1/1/16	1,760,000	-	63,834	1,823,834
12M SRF L175168	07-01-15	7/1/15- 1/1/16	520,000	-	18,860	538,860
12N SRF L175164	07-01-15	7/1/15- 1/1/16	150,000	-	5,440	155,440
12O SRF L175166	07-01-14	7/1/15- 1/1/16	255,000	-	9,249	264,249
12P SRF L175223	07-01-15	7/1/15- 1/1/16	390,000	-	14,145	404,145
Refunding Bonds - Series:						
May 2006 Unlimited Tax	05-01-06	6/1/15- 12/1/15	17,330,000	-	628,549	17,958,549
May 2006 Limited Tax	05-01-06	6/1/15- 12/1/15	2,539,500	-	92,106	2,631,606
March 2007 Unlimited Tax A	03-21-07	6/1/15- 12/1/15	7,459,000	20,585,000	1,017,140	29,061,140
March 2007 Unlimited Tax B	03-21-07	6/1/15- 12/1/15	4,821,863	-	174,886	4,996,749
March 2007 Limited Tax C	03-21-07	6/1/15- 12/1/15	5,347,650	-	193,956	5,541,606
TOTAL			\$ 114,333,952	\$ 106,241,848	\$ 7,994,898	\$ 228,575,957

⁽A) Reserve at 3.5%

FOR THE LEVY OF TAXES FOR THE FISCAL YEAR BEGINNING JANUARY 1, 2015 AND ENDING DECEMBER 31, 2015 UPON ALL TAXABLE PROPERTY WITHIN THE TERRITORIAL LIMITS OF THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO AS SAID TERRITORIAL LIMITS EXIST ON JANUARY 1, 2015 FOR THE PURPOSE OF PROVIDING REVENUES FOR THE RESERVE CLAIM FUND

BE IT ORDAINED by the Board of Commissioners of the Metropolitan Water Reclamation District of Greater Chicago:

Section 1. That there is hereby levied the sum of \$5,700,000 upon all taxable property within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago as said territorial limits exist on January 1, 2015, for the fiscal year ending December 31, 2015, for the purpose of providing revenues for establishing and maintaining a reserve fund for the payment of claims, awards, losses, judgments, liabilities, settlements, or demands and associated attorney's fees and costs that might be imposed on or incurred by such Metropolitan Water Reclamation District in matters including, but not limited to, the Worker's Compensation Act or the Workmen's Occupational Diseases Act, any claim in tort, any claim of deprivation of any constitutional or statutory right or protection, for all expenses, fees, and costs, both direct and in support of the repair or replacement of any property owned by such sanitary district which is damaged by fire, flood, explosion, vandalism or any other peril, natural or manmade.

Section 2. That the Clerk of the Metropolitan Water Reclamation District of Greater Chicago be, and is hereby directed to certify to the County Clerk of Cook County, the amount above set forth to be raised by taxation in the year 2015 and to file a certified copy of the Ordinance with the said County Clerk of Cook County and said County Clerk of Cook County aforesaid, is hereby directed to cause the aforesaid amount of money to be extended upon and against the taxable property within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago, as said territorial limits exist on January 1, 2015, all in accordance with the laws and statutes of the State of Illinois in such case made and provided, and the Clerk of the Metropolitan Water Reclamation District of Greater Chicago is hereby directed to cause this Ordinance to be published at least once in a newspaper published within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago and to incur the necessary expenses therefor.

Section 3. This Ordinance shall take effect January 1, 2015

Approved as to Form and Legality:

Head Assistant Attorney

General Counsel

Approved:

President, Board of Commissioners of the Metropolitan Water Reclamation District of Greater Chicago

FOR THE LEVY OF TAXES FOR THE FISCAL YEAR
BEGINNING JANUARY 1, 2015 AND ENDING DECEMBER 31, 2015
UPON ALL TAXABLE PROPERTY WITHIN THE TERRITORIAL LIMITS OF THE
METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
AS SAID TERRITORIAL LIMITS EXIST ON JANUARY 1, 2015
FOR THE PURPOSE OF PROVIDING REVENUES
FOR THE STORMWATER MANAGEMENT FUND

BE IT ORDAINED by the Board of Commissioners of the Metropolitan Water Reclamation District of Greater Chicago:

Section 1. That there be and is hereby levied upon all taxable property within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago, as said territorial limits exist on January 1, 2015, for the fiscal year ending December 31, 2015, to provide revenue for the development, design, planning, construction, operation, and maintenance of regional stormwater management "the sum of \$24,050,000 which includes the sum of \$841,750 as a reserve for loss in collection of taxes".

Section 2. That the Clerk of the Metropolitan Water Reclamation District of Greater Chicago be, and is hereby directed to certify to the County Clerk of Cook County, the

amount above set forth to be raised by taxation in the year 2015 and to file a certified copy of the Ordinance with the said County Clerk of Cook County, and said County Clerk of Cook County aforesaid, is hereby directed to cause the aforesaid amount of money to be extended upon and against the taxable property within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago, as said territorial limits exist on January 1, 2015, all in accordance with the laws and statutes of the State of Illinois in such case made and provided, and the Clerk of the Metropolitan Water Reclamation District of Greater Chicago is hereby directed to cause this Ordinance to be published at least once in a newspaper published within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago and to incur the necessary expenses therefor.

Section 3. This Ordinance shall take effect January 1, 2015.

Approved as to Form and Legality:

Head Assistant Attorney

General Counsel

Approved:

President,
Board of Commissioners of the
Metropolitan Water Reclamation District
of Greater Chicago

SECTION IX

APPENDIX

This section explains the structure of the District's compensation plan and financial and technical terminology contained in the District's Budget. It also details the various awards the District has received for its accomplishments over the last 41 years.

Compensation Plan Narrative	521
Salary Schedules	522
User Charge Rates/Property Tax Levies and Collections	523
Property Tax Base	524
Financial Glossary	534
Glossary of Technical Terms	
Acronyms	

COMPENSATION PLAN NARRATIVE

In accordance with Illinois State Statute, Chapter 70, Section 2605/4.2, there is created a Department of Human Resources for the District, the executive officer of which is the Director of Human Resources. The Director shall, with the consent and approval of the Civil Service Board of the District, classify all non-exempt and non-represented positions in the District for the purposes of establishing pay grades.

For the purposes of establishing uniformity of pay and title for positions, the Director prescribes the maximum and minimum pay for each grade and title.

While maintaining internal balance as established by the relative evaluation of classes, the compensation for non-represented and non-exempt positions shall be at least equal to the median compensation provided by other employers for similar work in the Metropolitan Chicago labor market or other appropriate labor market.

Salary advancement within salary ranges for non-represented positions and certain exempt positions is provided to recognize growth in the job, and the rate of advance shall be based primarily upon the quality of performance. Salary advancement stages are defined as "steps" within the salary schedules for each grade of position.

Employees in positions covered by collective bargaining agreements shall be compensated on the basis of negotiations between unions representing such employees and the management of the District. The rates paid to all such employees shall be adjusted in accordance with changes caused by the duly prescribed negotiations, provided that any change in rates may be made applicable at the beginning of the next budget year following the date of change in the rate, in the event necessary funds are not available. Compensation for these positions is defined in the Salary Schedule for Labor Trades (LT).

Compensation for exempt positions is established by the Board of Commissioners, with the exception of their own compensation, which is established by Illinois Compiled Statutes. Compensation for exempt positions is defined in the Salary Schedule for Exempt Employees (EX).

SALARY SCHEDULES (bi-weekly rates)

Exempt (EX)

EX01	\$2,884.62	EX09	\$576.92	EX17 \$8,357.72
EX02	\$2,692.31	EX10	\$8,357.72	EX18 \$4,701.23
EX03	\$6,338.99	EX11	\$9,402.43	EX19 None
EX04	\$2,312.67 to \$3,599.73	EX12	\$9,402.43	EX20 None
EX05	\$8,357.72	EX13	\$8,357.72	EX21 \$2,884.62
EX06	\$2,312.67 to \$3,599.73	EX14	\$9,402.43	EX22 \$3,076.92
EX07	\$10,447.19	EX15	\$9,402.43	EX23 \$3,651.91
EX08	\$8,357.72	EX16	\$673.08	EX24 \$3,651.91

Technical, Administrative, and Managerial (HP)

	·			
HP07	\$1,201.58 to \$1,750.02	HP13	\$2,312.67 to \$3,599.73	HP19 \$4,308.55 to \$6,128.30
HP08	\$1,307.75 to \$1,926.69	HP14	\$2,486.65 to \$3,854.95	HP20 \$4,562.66 to \$6,917.71
HP09	\$1,435.10 to \$2,138.80	HP15	\$2,729.27 to \$4,157.70	HP21 \$5,002.94 to \$7,506.66
HP10	\$1,604.94 to \$2,421.56	HP16	\$3,028.92 to \$4,531.62	HP22 \$5,522.46 to \$8,201.63
HP11	\$1,803.15 to \$2,751.45	HP17	\$3,380.92 to \$4,970.87	HP23 \$6,140.45 to \$8,932.30
HP12	\$2,043.76 to \$3,152.04	HP18	\$3,794.82 to \$5,487.27	TM01 \$1,040.00

Labor Trades (LT)

	-,			
NR1541 \$2,817.50	NR6272 \$3,827.20	PR5153 \$3,468.00	PR5973 \$3,440.00	PR7573 \$3,548.00
NR1835 \$2,528.00	NR6275 \$4,216.80	PR5155 \$3,628.00	PR5975 \$3,600.00	PR7575 \$3,748.00
NR1853 \$2,854.40	NR6441 \$3,043.20	PR5159 \$3,668.00	PR5989 \$3,720.00	PR7579 \$3,828.00
NR1857 \$3,043.20	NR6810 \$2,984.00	PR5353 \$3,254.40	PR6453 \$3,768.00	PR7743 \$3,876.00
NR2483 \$2,854.40	NR6831 \$3,503.20	PR5553 \$3,340.00	PR6459 \$4,088.00	PR7773 \$3,680.00
NR3641 \$2,045.60	NR6832 \$3,629.60	PR5555 \$3,548.80	PR6473 \$2,812.80	PR7775 \$3,920.00
NR3642 \$2,238.40	NR7393 \$3,827.20	PR5753 \$3,732.00	PR6479 \$2,992.80	PR7779 \$4,080.00
NR5369 \$2,868.80	NR7394 \$4,552.80	PR5755 \$3,892.00	PR7343 \$3,520.00	PR1025 \$1,951.20 to \$3,193.60
NR6210 \$3,140.00	NR7399 \$3,102.40	PR5759 \$3,972.00	PR7347 \$4,000.00	TR3509 \$1,864.98
NR6232 \$3,297.60	NR8331 \$3,043.20	PR5933 \$3,512.00	PR7349 \$3,760.00	
NR6233 \$3,461.60	NR8650 \$2,854.40	PR5935 \$3,792.00	PR7423 \$3,688.00	
NR6251 \$4,016.80	NR8651 \$2,717.60	PR5953 \$3,322.40	PR7424 \$4,088.00	
NR6271 \$4,044.00	NR8652 \$1,895.20	PR5955 \$3,621.60	PR7425 \$4,408.00	

The Position Analysis for each Department shows the Pay Plan and Grade for each budgeted position. The Salary Schedules above display the salary ranges associated with each Pay Plan and Grade. For example, in Section 922 of the Stickney Division of Maintenance & Operations, the Principal Mechanical Engineer position is associated with the HP (Technical, Administrative, and Managerial) Pay Plan at Grade 18. By looking up HP18 in the second table above, the salary range for this or any other title at that Pay Plan and Grade is \$3,794.82 to \$5,487.27 bi-weekly. By multiplying those rates by 26, it can be determined that the annual salary range for such positions is \$98,665.32 to \$142,669.02. For the HP and some EX Pay Plans, the actual salary earned in a position is dependent on the "step" of the incumbent occupying the position. Where applicable, there are nine steps in each Pay Plan and Grade. Which step an incumbent is at is determined by a combination of the incumbent's longevity in the title and at the District. Incumbents with the greatest longevity factors will be at the highest steps, assuming satisfactory job performance.

USER CHARGE RATES

	Large Commercial/Industrial Users			<u>-</u>	Tax-Exempt Users				
	Flow per million	BOD ₅ per	SS per	O, M&R	Flow per million	BOD ₅ per	SS per	Revenues in	
Year	gallons	1,000 pounds	<u>1,000 pounds</u>	<u>Factor</u>	gallons	1,000 pounds	<u>1,000 pounds</u>	\$ millions	
2015	\$ 250.51	\$ 240.49	\$ 154.08	43.5%	\$ 250.51	\$ 240.49	\$ 154.08	\$ 51.0	
2014	246.08	245.75	159.72	43.5%	246.08	245.75	159.72	40.0	
2013	241.73	250.76	165.25	42.4%	245.18	254.34	167.60	53.7	
2012	256.48	259.22	195.95	48.6%	263.48	266.27	201.24	77.6	
2011	243.99	247.48	191.18	47.3%	250.31	253.89	199.21	48.3	
2010	262.44	270.68	200.33	55.7%	269.25	277.70	205.33	48.7	
2009	229.37	231.90	174.25	50.4%	235.96	238.56	179.25	45.0	
2008	223.72	229.23	178.11	49.9%	230.29	235.98	183.35	54.4	
2007	224.87	228.39	173.01	50.4%	231.07	234.69	177.77	53.6	
2006	225.80	239.79	183.41	56.8%	235.40	249.99	191.20	53.6	
2005	210.91	226.64	174.33	56.8%	219.30	235.65	181.26	44.1	
2004	202.39	215.86	168.16	56.9%	209.31	223.25	173.92	50.8	
2003	217.74	227.39	182.75	62.4%	223.29	233.19	187.41	50.5	
2002	185.09	197.10	151.53	55.8%	190.74	203.22	156.16	47.1	

 BOD_5 Biochemical Oxygen Demand based on standard 5-day test

SS Suspended Solids

O, M&R Portion of real estate taxes credited to users for the District's Operations, Maintenance, and Replacement costs

User charges are calculated based on sewer discharge volumes and representative sampling of the discharge for concentrations of BOD₅ and suspended solids. Loadings in thousands of pounds annually are extrapolated from the volume and concentration measurements, with the rates listed above applied. Users are given a credit for real estate taxes paid to the District multiplied by the O, M&R factor. Users owing more than \$12,000 annually pay monthly estimates.

PROPERTY TAX LEVIES AND COLLECTIONS

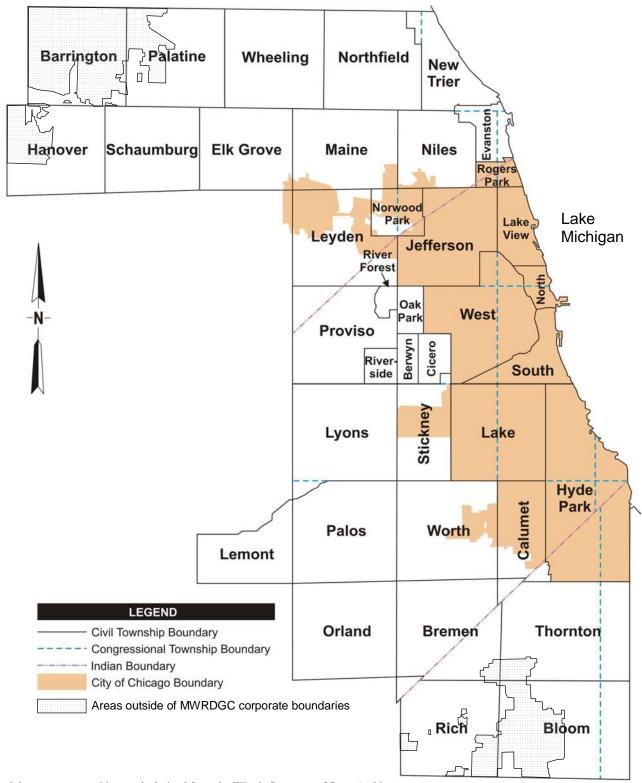
(in thousands of dollars)

		Collecte	d within the Fir	st Year		Total Collecti	ons to Date
Fiscal Year	Taxes Levied				Collections in		
Ended	for the Fiscal		Percentage of	Final Due	Subsequent		Percentage of
Dec. 31	Year	Amount	Levy	Date	Years	Amount	Levy
2013	515,590	-	-	08/01/14	-	-	-
2012	493,673	476,881	96.6	08/01/13	-	476,881	96.6
2011	476,955	460,618	96.6	08/01/12	8,666	469,284	98.4
2010	457,356	435,009	95.1	10/01/11	13,246	448,255	98.0
2009	455,361	383,612	84.2	12/13/10	58,471	442,083	97.1
2008	428,645	400,048	93.3	12/01/09	13,987	414,035	96.6
2007	410,208	390,440	95.2	11/03/08	5,393	395,833	96.5
2006	401,771	353,566	88.0	12/03/07	34,881	388,447	96.7
2005	411,348	398,343	96.8	09/01/06	446	398,789	96.9
2004	413,064	399,017	96.6	11/01/05	2,738	401,755	97.3

Note: The source for Property Tax Levies and Collection is the Comprehensive Annual Financial Report of the Metropolitan Water Reclamation District of Greater Chicago for the Year Ended December 31, 2013.

PROPERTY TAX BASE

The Metropolitan Water Reclamation District of Greater Chicago receives the majority of its income from local real estate taxes. Taxes are collected by the Cook County Treasurer based on property values established by the Cook County Assessor. North, South and City of Chicago townships are reassessed on a three-year rotation.



The underlying county township map is derived from the Illinois Secretary of State Archives: http://www.cyberdriveillinois.com/departments/archives/IRAD/cook.html

PROPERTY TAX BASE

MWRDGC Equalized Assessed Valuation by Township 2008 - 2013

(in \$ millions)	0000	2000		0044	0040	0040	Average Annual
Township Suburban	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>Change</u>
Barrington	\$ 470	\$ 447	\$ 457	\$ 389	\$ 353	\$ 325	-31.58%
Berwyn	920	Ψ 11 / ₁ 915	935	Ψ 363 753	φ 555 ₁	647	-30.68%
Bloom	695	701	698	551	503	474	-33.43%
Bremen	2,167	2,190	2,204	1,853	1,689	1,566	-28.55%
Calumet	248	247	244	202	184	176	-30.74%
Cicero	888	895	914	678	625	586	-35.23%
Elk Grove	5,013	4,790	4,456	3,996	3,652	3,128	-44.04%
Evanston	2,938	3,306	3,042	2,727	2,515	2,202	-25.06%
Hanover	2,111	2,193	2,018	1,808	1,647	1,406	-36.87%
Lemont	990	1,012	1,001	841	778	733	-25.35%
Lyden	3,583	3,468	3,193	2,891	2,655	2,331	-40.05%
Lyons	4,781	4,826	4,857	3,961	3,680	3,465	-27.06%
Maine	5,827	5,714	5,349	4,881	4,531	3,729	-40.83%
New Trier	5,972	6,349	5,507	4,947	4,595	4,151	-32.95%
Niles	5,876	5,664	5,246	4,696	4,333	3,810	-40.13%
Northfield	7,036	7,048	6,339	5,676	5,290	4,722	-36.75%
Norwood Park	1,123	1,085	1,035	929	859	726	-40.06%
Oak Park	1,741	1,844	1,851	1,597	1,470	1,369	-20.02%
Orland	3,792	3,919	3,915	3,366	3,098	2,921	-22.32%
Palatine	3,828	3,950	3,559	3,240	3,001	2,597	-35.40%
Palos	1,881	1,924	1,944	1,583	1,459	1,369	-27.17%
Proviso	3,765	3,811	3,811	3,130	2,893	2,723	-28.61%
Rich	1,563	1,558	1,531	1,241	1,138	1,044	-35.99%
River Forest	597	641	704	573	529	493	-13.21%
Riverside	729	692	700	592	541	505	-32.41%
Schaumburg	6,095	6,047	5,379	4,835	4,460	3,949	-40.31%
Stickney	1,445	1,408	1,377	1,139	1,049	972	-35.34%
Thornton	2,639	2,646	2,584	2,064	1,867	1,718	-38.21%
Wheeling	6,238	6,391	5,805	5,289	4,875	4,185	-36.56%
Worth	4,168	4,198	4,178	3,497	3,194	3,011	-28.37%
City of Chicago							\
Hyde Park	4,627	5,038	4,884	4,453	3,748	3,576	-22.58%
Jefferson	14,250	14,516	14,363	13,317	11,060	10,529	-26.99%
Lake	8,298	8,552	8,593	8,122	6,488	6,227	-24.72%
Lake View	10,727	12,140	11,730	10,389	8,886	8,416	-20.21%
North Chicago	14,927	15,949	15,056	13,717	12,745	12,079	-18.82%
Rogers Park	1,866	2,040	1,984	1,750	1,391	1,299	-31.40%
South Chicago	15,912	15,561	15,001	13,717	12,616	12,050	-22.82%
West Chicago	10,371	10,791	10,478	9,658	8,317	8,188	-21.04%
Total EAV	170,097	174,468	166,918	149,048	133,398	123,400	-28.95%

Shaded figures indicate assessed values following triennial reassessments.

AWARDS AND ACHIEVEMENTS RECOGNITION

Academy of Interactive and Visual Arts	2014	The Interactive Multimedia Communicator Award for "National Save for Retirement Week Campaign"
American Academy of Environmental Engineers	2012	Excellence in Environmental Engineering Grand Prize for the University Research for Chicago Health, Environmental Exposure, and Recreation Study (CHEERS)
	2010	Excellence in Environmental Engineering Honor Award in Research for the Microbial Risk Assessment for Recreational Use of the Chicago Area Waterways
	1995	Honor Award for the Sidestream Elevated Pool Aeration Stations
	1989	Grand Prize Award for Planning the Sidestream Elevated Pool Aeration Stations
American Council of Engineering Companies of Illinois	2010	Special Achievement Award for the Calumet Isolation Chamber
American Public Works Association	2012	Chicago City Branch: Project of the Year in the Environmental \$25 to \$75 Million Category for the design of the Calumet Central Boiler Facility
		Chicago Metro Chapter: Project of the Year in the Environmental \$25 to \$75 Million Category for the design of the Calumet Central Boiler Facility
		Chicago Metro Chapter: Public Works Project Excellence Award for the design of the Calumet Central Boiler Facility.
	2003	Environmental Project of the Year, Over \$10 Million Category, for the Thornton Transitional Reservoir
	2000	Reversal of the Chicago River, one of the "Top Ten Public Works Projects of the Century"
		Tunnel and Reservoir Plan Phase I, one of the "Top Ten Chicago Area Public Works Projects of the 20th Century"
		Tunnel and Reservoir Plan Phase I, Member's Choice for "Most Significant Chicago Area Public Works Projects of the 20th Century"
	1995	The American Public Works Association Award for the District's Innovative Energy Audit and Control Program
	1981	Outstanding Public Works Project of the Year for the Tunnel and Reservoir Plan
American Rivers, Incorporated	1994	Scientific or Engineering Breakthrough Award for the Calumet River System Sidestream Elevated Pool Aeration Project
American Society of Civil Engineers - Illinois Section	2003	Outstanding Civil Engineering Achievement of the Year Award, Over \$5 Million Category, for the Thornton Transitional Reservoir
	2000	District's wastewater treatment system was recognized as representing one of civil engineering's "Monuments of the Millennium" of the 20th century
	1998	Outstanding Civil Engineering Achievement Award for the O'Hare-CUP Reservoir Project
	1996	Public Sector Employer Recognition Award
	1994	Outstanding Civil Engineering Award received for Sidestream Elevated Pool Aeration Project
	1986	Outstanding Civil Engineering Award received for Tunnel and Reservoir Plan
		Outstanding Civil Engineering Achievement of Past 100 Years in Illinois for the Tunnel and Reservoir Plan

American Society of Civil Engineers - Illinois Section (continued)	1985	Tunnel and Reservoir Plan Mainstream System, Phase 1, the "Outstanding Civil Engineering Achievement of 1985"
	1974	Outstanding Civil Engineering Award received for the Prairie Plan in Fulton County
Black Contractors United	1994	Agency of the Year for Affirmative Action Program
Chicago Federation of Labor - AFL CIO	2001	Michael J. Bruton Workplace Safety Award
Chicago Public Schools	2011-2010	Certificate of Appreciation for providing outstanding work-based learning experiences for Chicago Public School Career and Technical Education students through participation in the Work-Based Learning Program
Chicago Southland Convention and Visitor Bureau	2009	Hospitality Award of Merit for outstanding work on behalf of the Calumet- Sag Trail
Chicago Wilderness and United States Environmental Protection Agency	2007	Conservation and Native Landscaping Award for Native Prairie Restorations at the Lemont and North Side Water Reclamation Plants
City of Chicago	2000	Best Practices in expanding employment opportunities for people with disabilities
Conservation Foundation & DuPage River Coalition	2002	DuPage River Clean Water Award
	2006-2005	Clean Water Award for Hanover Park Water Reclamation Plant
Engineering News Record	1999	Construction of the Chicago Sanitary and Ship Canal in 1900 and Tunnel and Reservoir Plan in 1985 named as two of the top 125 engineering projects of the past 125 years
Federation of Women Contractors	2012	Outstanding Program of the Year Award for the MWRD Affirmative Action Program
	2007	Advocacy Award for Affirmative Action Program
Government Finance Officers Association of the United States and Canada	2013-1985	Budget document recognized for Distinguished Budget Presentation
	2012	Certificate of Recognition for Budget Preparation
	2012-2007	Award of Financial Reporting Achievement for the Retiree Health Care Trust
	2012-1975	Certificate of Achievement for Excellence in Financial Reporting - Comprehensive Annual Financial Report for Fiscal Years 1975 through 2012
	2012-1993	Certificate of Achievement for Excellence in Financial Reporting - MWRD Retirement Fund, Comprehensive Annual Financial Report for Fiscal Years 1993 through 2012
	1999, 1996-1993	Outstanding Achievement in Popular Annual Financial Reporting
	1998-1988	Budget document recognized as "Especially Notable" or "Outstanding"
Illinois Engineering Council	2006	Outstanding Engineering Achievement Award for Tunnel and Reservoir Plan
Illinois Environmental Protection Agency	1994, 1983, 1981	Certificate of Excellence Award for Wastewater Safety for James C. Kirie Water Reclamation Plant
	1993-1992	Certificate of Excellence Award for Safety received by various treatment plants
	1992-1987	Certificate of Excellence Award for Wastewater Safety received by various treatment plants

Illinois Environmental Protection Agency (continued)	1991-1988	Letters of Commendation of Excellence on Maintenance, Operation, and Compliance for various treatment plants
	1988	Hanover Park Treatment Plant named Plant of the Year
Illinois Safety Council and Greater Chicago Safety Council	2007	Safety and Health Outstanding Safety Performance Award for North Side and Calumet Water Reclamation Plants
		Fleet and Transportation Outstanding Safety Performance Award - District- wide
	2006	Safety and Health Outstanding Safety Performance Award for Calumet and Stickney Water Reclamation Plants
	2005	Safe Driving Award - District-wide, Fulton County Prairie Plan, Main Office Building, Main Office Building Annex, Lockport Powerhouse, John E. Egan, Hanover Park, James C. Kirie, Lemont, North Side, and Stickney Water Reclamation Plants
		Health and Safety Award for North Side Water Reclamation Plant
	2004, 2001	Transportation Award for Outstanding Safety Performance - District-wide
	2004	Health and Safety Award - Fulton County Prairie Plan, James C. Kirie Water Reclamation Plant, Lawndale Avenue Solids Management Area, Racine Avenue Pumping Station, Main Office Building Annex, Lemont, North Side, and Stickney Water Reclamation Plants
		Outstanding Safety Performance Award
	2003	Health and Safety Award - District-wide, Fulton County Prairie Plan, Lockport Powerhouse, Main Office Building, Main Office Building Annex, John E. Egan, Hanover Park, James C. Kirie, Lemont, and North Side Water Reclamation Plants
	2003-2002 1996-1994	Safety and Health Award for Outstanding Safety Performance
	2002, 2000	Outstanding Safety Performance in maintaining a safe and healthy working environment for its employees
Illinois Society of Professional Engineers	2010	Chicagoland Excellence in Engineering Project Award, Mechanical Division, for the Calumet Central Boiler Facility
	1986	MWRDGC System deemed one of the "Ten Outstanding Engineering Achievements in Illinois in the Last 100 Years"
	1985	Outstanding Engineering Accomplishment Award for the Tunnel and Reservoir Plan - Phase I System
	1984	Outstanding Engineering Accomplishment Award for Upper Salt Creek Watershed Floodwater Management Plan
Illinois Water Environment Association	2013	Debra Shore, Commissioner, is the recipient of the inaugural Public Official of the Year award. The Public Official of the Year award is presented to an elected or appointed public official that has made a documented significant contribution in the areas of clean water legislation, public policy, government service, or another area of public prominence that resulted in improvements to the water environment.
	2010	Best Technical Presentation Award: Protozoa as Indicators of Activated Sludge Treatment System Conditions
	2008	Best Technical Presentation Award: Concerns about Endocrine Disrupting Chemicals in Land Applied Biosolids - Media Hype or Reality?

International Personnel Management Association	1995	Award for Excellence - Best personnel department in a medium-sized agency
Lake Michigan Water Analysts	1995	Award of Excellence
Metropolitan Chicago Masonry Council	1981	"Excellence in Masonry '80" for James C. Kirie Water Reclamation Plant Masonry Design
National Association of Clean Water Agencies, formerly known as Association of Metropolitan Sewage Agencies	2014	Excellence in Management Platinum Award for excellence in utility management and successful implementation of programs that address the range of management challenges facing public wastewater utilities in today's competitive environment
	2013	NACWA Award for Compliance with National Pollutant Discharge Elimination System, Platinum Award for 22 consecutive years of full compliance for Calumet Water Reclamation Plant; Platinum Award for 17 consecutive years of full compliance for Lemont Water Reclamation Plant; Platinum Award for nine consecutive years of full compliance for James C. Kirie Water Reclamation Plant; Platinum Award for eight consecutive years of full compliance for Terrence J. O'Brien Water Reclamation Plant; and Platinum Award for six consecutive years of full compliance for Hanover Park Water Reclamation Plant
		NACWA Award for Compliance with National Pollutant Discharge Elimination System, Silver Award for John E. Egan and Stickney Water Reclamation Plants
		Richard Lanyon, former Executive Director, was inducted into the Hall of Fame and became the fifth former District executive in its ranks. The other four are former Director of M&R Dr. Cecil Lue-Hing and former General Superintendents Bart Lynam, Hugh McMillan, and Ben Sosewitz.
	2012	NACWA Award for Compliance with National Pollutant Discharge Elimination System, Platinum Award for 21 consecutive years of full compliance for Calumet Water Reclamation Plant; Platinum Award for 16 consecutive years of full compliance for Stickney and Lemont Water Reclamation Plants; Platinum Award for eight consecutive years of full compliance for James C. Kirie Water Reclamation Plant; Platinum Award for seven consecutive years of full compliance for North Side Water Reclamation Plant; and Platinum Award for five consecutive years of full compliance for Hanover Park Water Reclamation Plant
		NACWA Award for Compliance with National Pollutant Discharge Elimination System, Silver Award for John E. Egan Water Reclamation Plant

Reclamation Plant

2011

NACWA Award for Full Compliance with National Pollutant Discharge Elimination System, Gold Award for Hanover Park Water Reclamation Plant

NACWA Award for Compliance with National Pollutant Discharge Elimination System, Platinum Award for 20 consecutive years of full compliance for Calumet Water Reclamation Plant; Platinum Award for 15 consecutive years of full compliance for Stickney and Lemont Water Reclamation Plants; Platinum Award for seven consecutive years of full compliance for James C. Kirie Water Reclamation Plant; and Platinum Award for six consecutive years of full compliance for North Side Water

NACWA Award for Compliance with National Pollutant Discharge Elimination System, Silver Award for John E. Egan Water Reclamation Plant

National Association of Clean Water Agencies, formerly known as Association of Metropolitan Sewage Agencies (continued) 2010 NACWA Award for Compliance with National Pollutant Discharge
Elimination System, Platinum Award for 19 consecutive years of full
compliance for Calumet Water Reclamation Plant; Platinum Award for 14
consecutive years of full compliance for Stickney and Lemont Water
Reclamation Plants; Platinum Award for six consecutive years of full
compliance for John E. Egan and James C. Kirie Water Reclamation Plants;
and Platinum Award for five consecutive years of full compliance for North

NACWA Award for Full Compliance with National Pollutant Discharge Elimination System, Gold Award for Hanover Park Water Reclamation Plant

2009 NACWA Award for Full Compliance with National Pollutant Discharge Elimination System, Gold Award for Hanover Park and North Side Water Reclamation Plants

Side Water Reclamation Plant

NACWA Award for Full Compliance with National Pollutant Discharge Elimination System, Platinum Award for John E. Egan, James C. Kirie, Stickney, Calumet, and Lemont Water Reclamation Plants

2008 National Environmental Achievement Award in Public Information and Education - Education Program category for "Mission Possible: Educating People to Promote Beneficial Use of Biosolids"

NACWA Award for Full Compliance with National Pollutant Discharge Elimination System, Gold Award for John E. Egan, Hanover Park, James C. Kirie, and North Side Water Reclamation Plants

NACWA Award for Compliance with National Pollutant Discharge Elimination System, Platinum Award for 17 consecutive years of full compliance for Calumet Water Reclamation Plant and Platinum Award for 12 consecutive years of full compliance for Stickney and Lemont Water Reclamation Plants

2007 NACWA Award for Compliance with National Pollutant Discharge Elimination System, Silver Award for Hanover Park Water Reclamation Plant

> NACWA Award for Full Compliance with National Pollutant Discharge Elimination System, Platinum Award for Stickney, Calumet, and Lemont Water Reclamation Plants

> NACWA Award for Full Compliance with National Pollutant Discharge Elimination System, Gold Award for James C. Kirie, John E. Egan, and North Side Water Reclamation Plants

2006 NACWA Award for Compliance with National Pollutant Discharge Elimination System, Platinum Award for Stickney, Calumet, and Lemont Water Reclamation Plants

> NACWA Award for Full Compliance with National Pollutant Discharge Elimination System, Gold Award for James C. Kirie, John E. Egan, Hanover Park, and North Side Water Reclamation Plants

2005-2003 Certificate of Recognition for Excellence in Management for excellence in utility management and successful implementation of programs that address the range of management challenges facing public wastewater utilities in today's competitive environment

2005 NACWA Award for Compliance with National Pollutant Discharge Elimination System, Silver Award for North Side Water Reclamation Plant

National Association of Clean Water	2005	NACWA Award for Full Compliance with National Pollutant Discharge
Agencies, formerly known as Association of		Elimination System, Gold Award for Stickney, Calumet, James C. Kirie, John
Metropolitan Sewage Agencies (continued)		E. Egan, Hanover Park, and Lemont Water Reclamation Plants

2004 NACWA Award for Full Compliance with National Pollutant Discharge Elimination System, Gold Award for Stickney, Calumet, North Side, and Lemont Water Reclamation Plants

NACWA Award for Compliance with National Pollutant Discharge Elimination System, Silver Award for James C. Kirie, John E. Egan, and Hanover Park Water Reclamation Plants

2003 Award for Full Compliance with National Pollutant Discharge Elimination System, Gold Award for Stickney, Calumet, North Side, Hanover Park, John E. Egan, James C. Kirie, and Lemont Water Reclamation Plants

2002 Award for Full Compliance with National Pollutant Discharge Elimination System, Platinum Award for Hanover Park, North Side, and Calumet Water Reclamation Plants

> Award for Full Compliance with National Pollutant Discharge Elimination System, Gold Award for John E. Egan, James C. Kirie, Stickney, and Lemont Water Reclamation Plants

2001 Research and Technology Award on "Biosolids as a Topsoil Substitute for the Germination and Growth of Turf, Forage, Prairie Grasses and Wild Flower Plants"

National Environmental Achievement Award for Excellence in Research and Technology

Award for Full Compliance with National Pollutant Discharge Elimination System, Platinum Award for Stickney and Lemont Water Reclamation Plants

Award for Compliance with National Pollutant Discharge Elimination System, Silver Award for John E. Egan Water Reclamation Plant

Award for Full Compliance with National Pollutant Discharge Elimination System, Gold Award for Hanover Park, James C. Kirie, North Side, and Calumet Water Reclamation Plants

2000 Award for Compliance with National Pollutant Discharge Elimination System, Silver Award for John E. Egan and James C. Kirie Water Reclamation Plants

> Award for Full Compliance with National Pollution Discharge System Permit Standards, Gold Award for Hanover Park, North Side, Stickney, Calumet, and Lemont Water Reclamation Plants

1999 Gold Award for 100% Compliance with National Pollution Discharge System Permit Standards - Stickney, Calumet, North Side, Hanover Park, John E. Egan, James C. Kirie, and Lemont Water Reclamation Plants

> National Environmental Achievement Award - Research and Technology for Optimization of Conventional Low Technology Sludge Process to Produce Class A Sludge

1998 Gold Award for 100% Compliance with National Pollution Discharge System Permit Standards - Stickney, Calumet, North Side, Hanover Park, James C. Kirie, and Lemont Water Reclamation Plants

1997 National Achievement Outstanding Operations Award to North Side Water Reclamation Plants for its Instrumentation Project

		· · · · · · · · · · · · · · · · · · ·
National Association of Clean Water Agencies, formerly known as Association of Metropolitan Sewage Agencies (continued)	1997	Platinum Award for 100% Compliance for more than five years with National Pollution Discharge System Permit Standards - Calumet and North Side Water Reclamation Plants
		Gold Award for 100% Compliance with National Pollution Discharge System Permit Standards - James C. Kirie, Lemont, and Stickney Water Reclamation Plants
		Silver Award for 99.9% Compliance with National Pollution Discharge System Permit Standards - John E. Egan and Hanover Park Water Reclamation Plants
	1993	Outstanding Operations Award for Sidestream Pool Aeration Stations
National Association of Government Defined Contribution Administrators	2013, 2009	Leadership Recognition Award of Distinction for National Save for Retirement Week Campaign
National Biosolids Partnership (Water Environment Federation and National Association of Clean Water Agencies)	2008	Certificate of Achievement for meeting all the requirements for admittance and certification to the National Biosolids Partnership Environmental Management System Program
National Institute of Governmental Purchasing	2015-2003	Outstanding Agency Accreditation Achievement Award
National Purchasing Institute	2006-2005	Achievement of Excellence in Procurement
National Society of Professional Engineers	1985	Outstanding Engineering Accomplishment Award for the Tunnel and Reservoir Plan - Phase I System
	1973	Outstanding Engineering Achievements in the United States for the Brookfield LaGrange Rock Tunnel
Structural Engineers Association of Illinois	1985	Honor Award for the Structural-Geotechnical Design of the Tunnel and Reservoir Plan Mainstream Pumping Station
The Consulting Engineers Council of Illinois	1985	Engineering Excellence Honor Award for the Tunnel and Reservoir Plan Mainstream System Phase I
United States Department of Defense	2003	Certificate of Appreciation for Outstanding Achievement through Value Engineering
United States Environmental Protection Agency	2008	Exemplary Biosolids Management Award - First Place in the Public Acceptance Category
	2004	National Second Place Clean Water Act Recognition Award, James C. Kirie Water Reclamation Plant, for Outstanding Operations and Maintenance, Large Advanced Plant
	2003	Certificate of Recognition as a Clean Water Partner for the 21st Century
	1998	Designation of the Chicago River as "One of the 25 Outstanding Success Stories in the Nation on the Occasion of the 25th Anniversary of the Clean Water Act"
	1996	Award of Excellence for First Place in Category Five in the National Pretreatment Program
	1995	National Pretreatment Award recognizing excellence in the administration of the District's Pretreatment Program
	1994	National First Place Award recognizing the District's Outstanding Combined Sewer Overflow Control Program
		Award for Excellence in Maintenance and Operations Category in Region V as the Best Large Advanced Plant - James C . Kirie Water Reclamation Plant

United States Environmental Protection Agency (continued)	1993	Second Place for Outstanding Treatment Facility by Stickney and John E. Egan Water Reclamation Plants in the Area of Maintenance and Operations
	1992	North Side Treatment Plant named "Best in the Midwest" for Municipal Pollution Control
		Affirmative Action Program named "Best in the Country"
	1991	Special Award for Sustained Outstanding Long-Term Contribution to the Beneficial Use of Sludge at the Prairie Plan, Fulton County
		Award for the Affirmative Action Program
Water Environment Federation	1992	Recognition for the Solids Dewatering Prototype at the Stickney Water Reclamation Plant
	1999-1989	Award for Outstanding Achievement in Water Quality Improvement
Water Environment Research Foundation	2013	Award for Excellence in Innovation
The Waterfront Center	2008	Excellence on the Waterfront Award for Sidestream Elevated Pool Aeration Project

FINANCIAL GLOSSARY

Abatement: A complete or partial cancellation of tax levy imposed by a government.

Accrual Basis of Accounting: The basis of accounting under which transactions are recognized when they occur, regardless of the timing of cash receipts and disbursements.

Accrued: The accumulation of a receivable or payable during a given period even though no explicit transaction occurs within that period.

Activities: The major programs and projects performed by an organizational unit.

Ad Valorem Tax: A tax levied in proportion to the value of the property against which it is levied (also known as property tax).

Appropriation: An amount of money in the budget, authorized by the Board of Commissioners, for expenditure or obligation within organizational units for specific purposes. The Corporate Fund appropriates money for operating and general purposes. The Capital Improvements Bond Fund appropriates money for major improvements, plant expansion, sewers, etc.

Assessed Valuation: The value of all taxable property within the boundaries of the District as a basis for levying taxes (i.e., the property's value). See tax base.

Assets: Resources owned or held by the District which have monetary value.

Balance Sheet: A statement showing the financial position at a given time, disclosing assets, liabilities and fund balances.

Balanced Budget: Budgeted resources are equal to budgeted requirements.

Bond: A written promise to pay a specified sum of money (called the principal) at a specified date in the future, together with periodic interest at a specified rate. In the budget document, these payments are identified as debt service.

Bond Redemption and Interest Fund (Debt Service Fund): Established to account for annual property tax levies and certain other revenues, primarily interest on investments, which are used for the payment of principal and interest of general obligation bond issues.

Budget: A balanced financial plan for a given period of time, which includes appropriations and tax levy ordinances for the various sources of revenue which finance the various funds. The budget is not only a financial plan; it also serves as a policy guide, as an operations guide and as a communications medium.

Capital Equipment: Fixed assets such as vehicles, marine equipment, computers, furniture, technical instruments etc., which have a life expectancy of more than one year and a value over \$5,000.

Capital Improvement Program: The aggregate compilation of those individual construction projects identified as necessary for new facilities, or to rehabilitate, replace, or expand existing District facilities for the District to continue to meet its statutory service mandates in keeping with existing regulatory requirements.

Capital Improvements Bond Fund: Established to account for the proceeds of bonds authorized by the Illinois General Assembly, government grants and certain other revenues, all to be used in connection with improvements, replacements and additions to the District's facilities.

Capital Outlay: Expenditures which result in the acquisition of, or addition to, fixed assets, including land, buildings, improvements, machinery and equipment. Most equipment or machinery is included in the annual operating budget. Capital improvements such as acquisition of land, construction and engineering expenses are included in the Capital Budget.

Capital Projects Fund: Established to account for all resources, principally bond proceeds and construction grants, which are used for the acquisition or construction of capital facilities. Included in Capital Projects Funds are the Capital Improvements Bond Fund and the Construction Fund.

Capitalized: Capital outlays recorded as additions to the asset account, not as expenses.

Carryover (Net Assets Appropriable): That resource balance left after subtracting Current Liabilities and Designated Fund Balances from Current Assets.

Cash Basis of Accounting: Revenues are not recorded until cash is received, and expenditures are recorded only when cash is disbursed.

Cash Management: A conscious effort to manage cash flows in such a way that interest and penalties paid are minimized and interest earned is maximized. Funds received are deposited on the day of receipt and invested as soon as the funds are available. The District maximizes the return on all funds available for investment without sacrifice of safety or necessary liquidity.

Classification of Budgetary Code Accounts: A manual published yearly which specifies the official code designations set forth in the annual budget for the purposes of accounting and expenditure control. Budgetary code listings for funds, organizations, locations, programs and line items are included.

Commitment Items: Expenditure classifications established to account for and budget the appropriations approved. Also referred to as Line Item.

Construction Fund: Established to account for an annual property tax levy and certain other revenues to be used in connection with improvements, replacements and additions to the District's facilities.

FINANCIAL GLOSSARY (continued)

Construction Working Cash Fund: Established to make temporary loans (repayable from the tax levy of the applicable year) to the Construction Fund, reducing the need for issuing short-term debt and the resultant interest expense.

Consumer Price Index (CPI): A measure of the average change over time in the prices paid by urban consumers for a market basket of consumer goods and services.

Corporate Fund: Established to account for an annual property tax levy and certain other revenues which are to be used for the operations and payments of general expenditures of the District not specifically chargeable to other funds.

Corporate Working Cash Fund: Established to make temporary loans (repayable from the tax levy of the applicable year) to the Corporate Fund, thus reducing the need for issuing short-term debt and the resultant interest expense.

Crosshatch (#): The crosshatch mark (#) indicates a restriction on the filling of a vacated position.

Current Assets: Cash plus assets that are expected to be converted to cash, sold or consumed during the next twelve months or as a part of the normal operating cycle.

Current Liabilities: Obligations that will become due within the next year or within the normal operating cycle, if longer than a year.

Debt Service Fund: See Bond Redemption and Interest Fund.

Debt Service Requirements: The amount of money required to pay interest and principal on outstanding debt.

Delinquent Taxes: Taxes remaining unpaid on and after the date to which a penalty for nonpayment is attached.

Depreciation: The allocation of the acquisition cost of plant, property and equipment to the particular periods or products that benefit from the utilization of the asset in service.

Disbursements: Payments made on obligations.

Encumbrances: Obligations incurred in the form of orders, contracts and similar items that will become payable when goods are delivered or services rendered.

Equalization: After the County Assessor has established the assessed valuation for a given year, and following any revisions by the Board of (Tax) Appeals, the Illinois Department of Revenue is required by statute to review the assessed valuation. The Illinois Department of Revenue establishes an equalization factor, commonly called the "multiplier," for each county to make all valuations uniform among the 102 counties in the state.

Equalized Assessed Valuation (EAV): Once the equalization factor (multiplier) is established, the assessed valuation, as revised by the Board of (Tax) Appeals, is multiplied by the equalization factor (multiplier) to determine the EAV.

Expenditure: An amount of money disbursed or obligated. Expenditures include current operating expenses requiring the present or future use of net current assets, debt service, and capital outlays. (see Accrual and Cash Basis of Accounting).

Fiduciary Funds: Established to account for transactions related to assets held in trust for a public purpose.

Fiscal Year: The time frame to which the budget applies. For the District, this is the period from January 1 through December 31.

Fixed Assets: Long-term tangible assets that have a normal use expectancy of more than one year and do not lose their individual identity through use. Fixed assets include buildings, equipment, improvements other than buildings and land.

Function: A group of related tasks, such as sewage treatment and collection, or the reduction of water pollution, which is aimed at accomplishing a major service or regulatory program for which a governmental unit is responsible.

Fund: An accounting entity established to account for sums of money or other resources, such as taxes, charges, fees, etc., to conduct specified operations and to attain certain objectives. Funds are frequently under specific limitations. For more information regarding specific funds, refer to the Financial Narrative in Section III, "Financial Statements by Fund."

Fund Accounting: A governmental accounting system which is organized and operated on a fund basis.

Fund Balance: The cumulative difference of all revenues and all expenditures of the fund from the time the governmental entity was established. Fund balance is also considered to be the difference between fund assets and fund liabilities and is sometimes referred to as "fund equity."

Generally Accepted Accounting Principles (GAAP): Uniform minimum standards of, and guidelines for, external financial accounting and reporting. They govern the form and content of the basic financial statements of an entity. GAAP encompasses the conventions, rules, and procedures necessary to define accepted accounting practices at a particular time. They include not only broad guidelines of general application, but also detailed practices and procedures. GAAP provides a standard by which to measure financial presentations. The primary authoritative statement on the application of GAAP to state and local governments is Government Accounting Standards Board pronouncements.

General Obligation Bonds: Bonds, the payment for which the full faith and credit of the issuing government are pledged.

Governmental Funds: Group of funds utilized to account for revenues and expenditures in compliance with the legal requirements and constraints of current statutes for governmental agencies.

FINANCIAL GLOSSARY (continued)

Grant: A contribution by one governmental unit to another unit. The contribution is usually made to aid in the support of a specified function, such as sewer construction, pollution control, etc.

Home-Rule Unit: The principle or practice of self-government in the internal affairs of a dependent political unit. In Illinois, any municipality with population of more than 25,000 is a home-rule unit unless it elects by referendum not to be a home-rule unit. Any other municipality may elect by referendum to become a home-rule unit.

Internal Control: Methods and procedures that are mainly concerned with the authorization of transactions, safeguarding of assets, and accuracy of the financial records.

Liabilities: Obligations incurred in past or current transactions requiring present or future settlement.

Limited Tax Bonds: A form of nonreferendum bonding authority granted by Illinois PA 89-385 allowing the District to issue additional debt for projects initiated after October 1, 1991. Limited Tax Bonds can be issued to the extent that the total debt service requirements of any new debt, when combined with existing debt service, do not exceed the debt service extension base established by the Act.

Line Items: Expenditure classifications established to account for and budget the appropriations approved. Also referred to as Commitment Item.

Mid-Year Reviews: Twice during the fiscal year (in May and August), the current year budget is evaluated based on spending to date and current projections. The primary areas reviewed and analyzed are (1) current year budget versus previous year revenues and expenditures; (2) year-to-date expenditure and revenue status plus expenditure and revenue projections for the remainder of the year; and (3) data to support recommendations for budget transfers.

Modified Accrual Basis of Accounting: The basis of accounting under which revenues are recognized when measurable and available to pay liabilities, and expenditures are recognized when the liability is incurred except for interest on long-term debt which is recognized when due.

Multiplier: See Equalization.

Net Assets Appropriable: That resource balance left after subtracting Current Liabilities and Designated Fund Balances from Current Assets. Commonly referred to as carryover.

Net Present Value: A mathematical formula used to measure the expected return on investments by calculating how much money needs to be invested today to result in a certain sum at a future time.

Object Classification: A grouping of expenditures on the basis of goods or services purchased (e.g., personal services, materials and supplies, equipment, etc.), also referred to as Object of Expenditure.

Objectives: The yearly organizational levels of achievement expected. A statement of purpose defined more specifically than a goal. (A goal can include several related objectives.) Objectives are listed in order of priorities with their associated costs including estimates of salaries, equipment, supplies, etc.

Obligations: Amounts which a government may be legally required to meet out of its resources. They include not only actual liabilities, but also encumbrances not yet paid.

Ordinance: A bill, resolution or order by means of which appropriations are given legal effect. It is the method by which the appropriation of the annual budget is enacted into law by the Board of Commissioners per authority of state statutes.

Other Post-Employment Benefits (OPEB): Cost of retiree health insurance benefits recognized over the active service life of the employees rather than on a pay-as-you-go basis.

Performance: The measurable unit of types of work, related to District activities and, where meaningful, the costs of operation that are used to develop the costs for each unit of activity (i.e., dollars per one million gallons of sewage treated).

Personal Property Replacement Tax: Since July 1979, this income tax on corporations, partnerships and invested capital of utilities replaces the personal property taxes previously levied.

Pollution Control Facilities: The State of Illinois directly assesses all pollution control facilities which have been certified by the Pollution Control Board. Pollution control facilities include any system, method, construction, device or appliance appurtenant that is designed, constructed, installed or operated for the primary purpose of eliminating, preventing or reducing air and water pollution as defined in the Environmental Protection Act. This does not include any pollution control facility used for radioactive waste, nuclear generation of electric power or for sewage disposal or treatment.

Programs: The essential activities performed by the District such as collection, treatment, flood and pollution control, etc., including specific and related sub-activities.

Property Tax Extension Limitation Laws: Illinois Public Act 89-1 provides for limitations on real estate property tax levies. As applicable to the District, the 1994 tax levy, payable in 1995 is limited to a 5 percent increase from the 1993 levy. Future levies are limited to increases of the lesser of 5 percent or the percentage change in the national consumer price index (CPI-U).

Property Tax Rate: The amount of tax stated in terms of a unit of the tax base, expressed as dollars per \$100 of equalized assessed valuation.

Railroad Property: The State of Illinois directly assesses railroad property which includes all railroad "operating property." Tracks and right-of-way, all structures, equipment, and all property connected with or used in the operation of the railroad along with real estate held for expansion. Nonoperating railroad property is assessed by the County Assessor.

FINANCIAL GLOSSARY (continued)

Real Property: Real Estate, including land and improvements (buildings, fences, pavements, etc.) classified for purposes of assessment.

Refunding Bonds: Bonds issued to retire bonds already outstanding.

Reserve Claim Fund: Established for the payment of claims, awards, losses, judgments or liabilities which might be imposed against the District, and for the emergency repair or replacement of damaged District property.

Resources: The actual assets of a governmental unit, such as cash, taxes receivable, land, buildings, etc., including estimated revenues applying to the current fiscal year, and bonds authorized and unissued.

Retirement Fund: Established to account for annual pension costs and supported in part by property taxes which are levied in accordance with statutory requirements.

Revenue: Income generated by taxes, notes, bonds, investment income, land rental, user charge, sludge and scrap sales as well as federal and state grants.

Sinking Fund: See Bond Redemption and Interest Fund.

Special District: A governmental entity established by the State of Illinois for a specific purpose or purposes. The District was originally organized under an act of the General Assembly of the State of Illinois in 1889.

State Revolving Fund (SRF): Under the Water Quality Act Amendment of 1987, federal authorization created State Revolving Funds administered by State agencies which provide loans from these funds to municipal agencies for their wastewater construction programs. These loans carry interest rates which are below general rates available in the municipal bond market. Therefore, pollution control facilities receive subsidies which can provide the approximate equivalent of a 25 to 30 percent grant.

Tax Base: The aggregate value of the items being taxed. The base of the District's real property tax is the market value of all taxable real estate within the boundaries of the District. See assessed valuation.

Tax Cap: (Property Tax Extension Limitation Laws). Illinois Public Act 89-1 provides for limitations on real estate property tax levies. As applicable to the District, the 1994 tax levy, payable in 1995 is limited to a 5 percent increase from the 1993 levy. Future levies are limited to increases of the lesser of 5 percent or the percentage change in the National Consumer Price Index (CPI-U).

Taxes: Mandatory charges levied by a governmental unit for the purpose of financing services performed for the common benefit.

Tax Levy: An amount of money raised through the collection of property taxes to finance each fund operation.

Tax Levy Ordinance: An ordinance through which taxes are levied. See ordinance.

Tax Rate: See Property Tax Rate.

User Charge System: In compliance with the 1977 Clean Water Act, the District is required to augment the ad valorem property tax system with a charge related to the actual use of waste treatment services. Users exceeding their ad valorem amount pay additional amounts for services received.

Working Cash Funds (Corporate, Construction, and Stormwater): Authorized by Illinois State Statutes to make temporary loans to the Corporate, Construction, and Stormwater Management Funds. Loans are repaid to the Working Cash Funds from the tax levies of the funds. The use of Working Cash funds eliminates the need for the issuance of short-term financing.

GLOSSARY OF TECHNICAL TERMS

Biochemical Oxygen Demand (BOD): The quantity of oxygen used in the biochemical oxidation of organic matter in a specified time, at a specific temperature, and under specific conditions; the BOD analysis is a standard test used in assessing wastewater strength. See "Carbonaceous Biochemical Oxygen Demand."

Biological Oxidation: The process whereby living organisms in the presence of oxygen, convert the organic matter contained in wastewater into new cells and subsequently into more stable compounds.

Biosolids: The nutrient-rich organic materials resulting from the treatment of domestic sewage in a wastewater treatment facility. These organic materials are generated when solids (sewage sludge) generated during the treatment of domestic sewage are treated further to meet the 40 CFR (Code of Federal Regulations) Part 503 sewage sludge regulatory requirements for beneficial reuse.

Carbonaceous Biochemical Oxygen Demand (CBOD): The portion of BOD attributable to organic matter containing carbon; does not include nitrogenous oxygen demand.

Centrifuge: A mechanical device in which centrifugal force is used to separate solids from liquids and/or to separate liquids of different densities, i.e., a dewatering device.

Coarse and Fine Screens: A coarse screen is a bar screen with approximate 3" openings located at the point of incoming wastewater which is used to capture large objects and other debris; this device protects the sewage pumps. A fine screen is a bar screen with approximately 5/8" openings to collect and remove small debris via a traveling rake. The screening is conveyed to a scavenger disposal box.

Collection System: A system of underground conduits/sewers collecting wastewater from a source and conveying it to the treatment facility.

Combined Sewer: A sewer that transports wastewater and (in wet weather conditions) stormwater.

Design Capacity: The maximum rate of sewage flow which a treatment plant is capable of treating, on a long-term basis, to continuously attain required effluent quality.

Dewatering: Water removal or concentration of solids by filtration, centrifugation, or drying.

Digestion, Anaerobic: The biological decomposition of organic matter in the absence of oxygen, resulting in partial gasification, liquidation, and mineralization. The digester gas is collected, compressed and used to fuel the plant boilers.

Drying Bed: Large areas on which solids are placed for dewatering by gravity, drainage, and evaporation.

Effluent: The resulting product of the wastewater treatment process which is also used for tank cleaning, grass watering, and conveyor belt cleaning.

503 Regulations: The U.S. EPA issued on February 19, 1993, comprehensive federal sewage sludge use and disposal regulations which are organized in five parts: general provisions, land application, surface disposal, pathogens and vector attraction reduction, and incineration. Parts addressing standards for land application, surface disposal, and incineration practices consist of sections covering applicability and special requirements, management practices, frequency of monitoring, record keeping, and reporting requirements.

Industrial User (IU): A person who conducts any industrial, manufacturing, agricultural, trade, or business process or who conducts the development, recovery or processing of natural resources.

Industrial Waste: All solid, liquid, or gaseous waste resulting from an industrial user.

Infrastructure: Assets that are long-lived capital assets that normally are stationary in nature and normally can be preserved for a significantly greater number of years than most capital assets. Examples from our infrastructure holdings include: wastewater tankage, LASMA Drying sites, SEPA stations, the Deep Tunnel, and sewerage interceptors.

Interceptor: A larger sewer which "intercepts" the wastewater from smaller and/or local sewers.

Interceptor Inspection and Rehabilitation Program (HRP): The inspection and repair of District sewers and interceptors.

Lagoon, Solids: An earthen basin which is used for the storage, continued stabilization, and dewatering of solids.

Lysimeter: A device used for collecting water from the pore spaces of soils and for determining the chemical composition of the water that percolates through a certain depth of soil.

MGD: Millions of gallons per day.

Maintenance Management System (MMS): A District-wide computerized system to assist management in maintaining the District's infrastructure.

National Pollutant Discharge Elimination System (NPDES): The permit and regulation system governing direct discharges into navigable waters administered by the IEPA and USEPA.

Odor Control Program: The systematic modifying or altering of certain processes to minimize obnoxious odors. Ferric chloride, ozonation (conversion of oxygen into ozone), and deodorants are some of the various methods used in combating odors.

Phycoremediation: The process of using algae (macro-algae or micro-algae) for the removal of pollutants, like nutrients (nitrogen and phosphorus), from the wastewater and carbon dioxide (CO2) from waste air.

GLOSSARY OF TECHNICAL TERMS (continued)

Pretreatment (Industrial): Any method, construction, device, arrangement, or appliance installed for the purpose of treating, neutralizing, stabilizing, disinfecting, or disposing of sewage, industrial waste, or other wastes prior to entry into the District's sewerage system.

Pretreatment Program: The District's efforts to identify, monitor and control by enforcement, the discharge of industrial waste from industrial sources into the District's sewerage system, in conformance with federal regulations promulgated pursuant to the Clean Water Act.

Primary Treatment: The District uses a series of large screens to remove large debris from the wastewater which can clog the machinery. Heavy solids like sand and grit are then removed in the grit chamber. Any remaining heavy solids settle to the bottom of the primary settling tanks.

Reservoirs, Storm: Temporary storage areas for containing surface waters during extreme storm conditions.

Secondary Treatment Process: The wastewater flows to aeration tanks which have been seeded with bacteria. Filtered air is pumped through the liquid to provide oxygen for the bacteria. The bacteria consume organic materials in the wastewater, grow and multiply. The mixture of bacteria and water then flow into a secondary settling tank. The bacteria clump together and become heavy "flocs" which settle to the bottom of the tank and are removed. At this point, the water can be discharged to a nearby waterway after disinfection, with over 90 percent of its contaminants removed.

Sewage: Water-carried human wastes or a combination of water-carried wastes from residences, business buildings, institutions and industrial establishments, together with such ground, surface, storm, or other waters as may be present.

Sewage and Waste Control Ordinance: An ordinance to provide for the abatement and prevention of pollution by regulating and controlling the quantity and quality of sewage and industrial waste admitted to or discharged into the sewerage systems, sewage treatment facilities, and waterways under the jurisdiction of the District. This ordinance was originally adopted by the District's Board of Commissioners in 1969 and continues to be amended as necessary.

Sewerage System: Sewers, intercepting sewers, pipes or conduits, pumping stations, force mains, constructed drainage ditches, surface water intercepting ditches, and all other constructions, devices, and appliances used for collecting or conducting sewage, industrial waste, or other wastes to a point of treatment or ultimate disposal.

Sidestream Elevated Pool Aeration (SEPA): A process in which a portion of the flow of a body of water is pumped up approximately 15 feet; the water is then allowed to cascade downward over a series of weirs, thus increasing the dissolved oxygen content of the body of water.

Solids: The accumulated solids separated from wastewater during processing. Also, the precipitate or product resulting from chemical treatment, coagulation, or sedimentation of wastewater

Solids Content: The weight of total solids in sludge per unit total weight of sludge, expressed in percent. Water content plus solids content equal 100 percent.

Solids Processing: A variety of settling or filtering operations (grit and scum dewatering, raw sludge concentration, sludge stabilization, dewatered stabilized sludge air drying, for example) used to collect solid material from wastewater or other liquids for subsequent utilization.

Spoil Pile: Excavated materials consisting of soil and rock that were piled for storage as the result of canal construction activities.

Struvite: A salt precipitate of Magnesium, Ammonium, and Phosphate in wastewater treatment facilities which may build up to the level that cause operational blockages.

Suspended Solids: Solid material that either floats on the surface of, or contained in suspension in, wastewater or other liquids. This material is largely removed by settling or filtering processes at a treatment plant. (See Solids Processing, above.)

TARP (Deep Tunnel): The Tunnel and Reservoir Plan (TARP) is designed to improve water quality by capturing combined sewer overflows (CSOs), storing this polluted wastewater, and then pumping it into a treatment plant for processing.

Tertiary Treatment: The third stage of wastewater treatment which purifies the wastewater by removal of fine particles, nitrates, and phosphates with sand filtration. This process removes 99 percent of the impurities.

USEPA: The United States Environmental Protection Agency. This federal agency is responsible for setting the guidelines and policies related to wastewater effluents and solids disposal. The Illinois EPA issues the District's National Pollutant Discharge Elimination System permit and other regulatory constraints.

Utilization: Solids used for daily landfill cover, final cover for a landfill closure, and to reclaim severely disturbed soil such as strip-mining land.

Wastewater Treatment: Processes which involve physical removal of contaminants from the wastewater by use of coarse screens, fine screens, grit tanks and settling tanks (primary treatment); further treatment via aeration and clarification (secondary treatment); and in some cases, the physical or chemical separation and removal of impurities from secondary-treated effluent (tertiary treatment).

Wetlands: Areas which are inundated by surface or groundwater at a frequency which maintains saturation. The wetlands can be natural (marshes, bogs, swamps, for example) or man-made.

ACRONYN	<u>MS</u>	HPWRP	Hanover Park Water Reclamation Plant
ABAP	Advanced Business Application Programming	HVAC I/I	Heating, Ventilation, and Air Conditioning Infiltration/Inflow
ADAI	language	IAS	Instream Aeration Station
\mathbf{AC}	Appropriation Controlled position	ICAP	Infiltration/inflow Corrective Action Program
ACH	Automated Clearing House	IEPA	Illinois Environmental Protection Agency
AED	Automated External Defibrillator	ILDCEO	Illinois Department of Commerce and
ALD	Analytical Laboratories Division		Economic Opportunity
ASCE	American Society of Civil Engineers	iPACS	The internet-based Publicly owned treatment
ATP	Advisory Technical Panel	IDC	works Administration and Compliance System
BOD BSC	Biochemical Oxygen Demand Business Services Center	IRS IT	Internal Revenue Service Information Technology
CAFR	Comprehensive Annual Financial Report	ITD	Information Technology Information Technology Department
CALSMA	Calumet Solids Management Area	ITSPC	Information Technology Strategic Planning
CAWS	Chicago Area Waterway System		Committee
CBOD	Carbonaceous Biochemical Oxygen Demand	IU	Industrial Users
CFM	Cubic Feet per Minute	IWD	Industrial Waste Division
CIBF	Capital Improvement Bond Fund	KWH	Kilo Watt-Hour
CIP	Capital Improvement Program	KWRP	Kirie Water Reclamation Plant
CPI	Consumer Price Index	LASMA	Lawndale Avenue Solids Management Area
CPR CSA	Cardio-Pulmonary Resuscitation Calumet Service Area	LF LIMS	Linear Feet Laboratory Information Management System
CSO	Combined Sewer Overflow	LPH	Lockport Powerhouse
CUP	Chicago Underflow Plan	LSSS	Local Sewer Systems Section
CWRP	Calumet Water Reclamation Plant	LWRP	Lemont Water Reclamation Plant
DCS	Distributed Control System	M&O	Maintenance & Operations
DO	Dissolved Oxygen	M&R	Monitoring & Research
DT	Dry Tons	MBE	Minority Business Enterprise
DWP	Detailed Watershed Plan	MGD	Million Gallons per Day
EAM	Enterprise Asset Management	MMS	Maintenance Management System
EAP EAV	Employee Assistance Program Equalized Assessed Valuation	MOB	Main Office Building – 100 E. Erie St., Chicago, Illinois
EBPR	Enhanced Biological Phosphorus Removal	MOBA	Main Office Building McMillan Pavilion – 111
EEO	Equal Employment Opportunity	1,10211	E. Erie St., Chicago, Illinois
EGWP	Employer Group Waiver Plan	MOBC	Main Office Building Complex - MOB &
EIS	Economic Impact Study		MOBA
EBPR	Enhanced Biological Phosphorus Removal	MSC	Material Service Corporation
EM&RD	Environmental Monitoring and Research	MSPS	Mainstream Pumping Station
EMS	Division Environmental Management System	NAA NACWA	Net Assets Appropriable National Association of Clean Water Aganaias
ESS	Environmental Management System Employee Self-Service	NACWA NBP	National Association of Clean Water Agencies National Biosolids Partnership
EWRP	Egan Water Reclamation Plant	NBPS	North Branch Pumping Station
F&D	Furnish and Deliver	NCBP	Non-Core Business Projects
FD&I	Furnish, Deliver, and Install	NPDES	National Pollutant Discharge Elimination
FDIC	Federal Deposit Insurance Corporation		System
FESOP	Federally Enforceable State Operating Permit	NRI	Notification and Request for Inspection permits
FICA	Old Age Survivors and Disability Insurance &	NSA	North Service Area
EMI A	Medicare Family Medical Leave Act	NSWRP OM 8-D	North Side Water Reclamation Plant
FMLA FOIA	Family Medical Leave Act Freedom of Information Act	OM&R	Operations, Maintenance, and Replacement costs
FTE	Full-Time Equivalent	OPA	Office of Public Affairs
GAAP	Generally Accepted Accounting Principles	OPEB	Other Post-Employment Benefits
GASB	Government Accounting Standards Board	ORS	Online Reporting System
GFOA	Government Finance Officers Association	OSHA	Occupational Safety and Health Administration
GIP	Green Infrastructure Program	OWRP	O'Brien Water Reclamation Plant
GIS	Geographic Information System	P&B	Pump and Blower
gpcpd	gallons per capita per day	PBF	Public Budget Formulation
GRC	Governance, Risk, and Compliance	PCB PCE	Poly-Chlorinated Bi-phenols
HASMA HMO	Harlem Avenue Solids Management Area Health Maintenance Organization	PCE PFC	Protected Class Enterprise perfluorinated compound
IIIVIO	Treatur Manifeliance Organization	TTC	permuormated compound

ACRONYMS (continued)

PIMS Pretreatment Information Management System

P&MM Procurement & Materials Management

PO Purchase Order

PPO Participating Provider Option
PPRT Personal Property Replacement Tax

PS Pumping Station

RAPS Racine Avenue Pumping Station REI Request for Expression of Interest

RAS Return Activated Sludge RFP Request for Proposal SAN Storage Area Network

SAP SAP is a German computer software firm

SBE Small Business Enterprise
SBP Strategic Business Plan
scfm standard cubic feet per minute

SEPA Sidestream Elevated Pool Aeration stations

SIU Significant Industrial User SPO Sewer Permit Ordinance

SRF State Revolving Fund loan program

SS Suspended Solids SSA Stickney Service Area

SSMP Small Streams Maintenance Program
SWCO Sewage and Waste Control Ordinance
SWRP Stickney Water Reclamation Plant
TARP Tunnel And Reservoir Plan

TCO Total Cost of Operations
 TGM Technical Guidance Manual
 TIF Tax Increment Financing district
 UAA Use Attainability Analysis
 UCO User Charge Ordinance

USEPA United States Environmental Protection

Agency Ultraviolet

VESSA Victims' Economic Security and Safety Act

VFD Variable Frequency Drive WAN Wide Area Network

WBE Women-owned Business Enterprise

WEFTEC Water Environment Federation Technical

Exhibition and Conference

WMO Watershed Management Ordinance

WRP Water Reclamation Plant
WSPS West Side Pumping Station

NOTE PAGE

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO HISTORICAL INFORMATION AND MILESTONES

- 1837 Chicago was incorporated as a city. The city's primary source of drinking water is Lake Michigan. Due to poor drainage and discharges to Lake Michigan, water-borne diseases plague the city throughout the 1800s.
- 1856 Sewers were constructed to collect the city's wastewater.

 These sewers emptied into the Chicago River, ultimately becoming a health hazard.
- 1885 A torrential rainstorm flushed pollution from the river into Lake Michigan prompting public concern for ways to safeguard the quality of the drinking water.
- 1886 A Drainage and Water Supply Commission was created to study the growing problem of contamination of the city's water supply.
- 1889 Illinois Legislature passed an act enabling the establishment of the Sanitary District of Chicago to keep sewage pollution out of Lake Michigan. Referendum passed creating the Sanitary District of Chicago.
- 1892 Ground was broken on the 28-mile Main Channel of the Sanitary and Ship Canal. The canal would reverse the flow of the Chicago River by linking it to the Des Plaines River, and thus prevent pollution of Lake Michigan by the river.
- 1900 Main Channel of the Sanitary and Ship Canal opened.
- 1907 Main Channel Extension including Lockport Powerhouse and Lock completed.
- 1910 North Shore Channel completed.
- 1919 District's Board of Commissioners passed an ordinance committing the District to the construction and operation of treatment plants.
- 1922 The 16-mile Calumet-Sag Channel became operational; Calumet Treatment Plant placed into operation.
- 1928 North Side Treatment Plant placed into operation.
- 1930 U.S. Supreme Court Decree issued reducing diversion of Lake Michigan in steps. Effective January 1, 1939, diversion reduced to 1,500 cubic feet per second; West Side Treatment Plant placed into operation.
- 1939 Southwest Treatment Plant placed into operation.
- 1949 West and Southwest Treatment Plants combined.
- District's name changed to the Metropolitan Sanitary District of Greater Chicago (MSDGC); the Chicago Sewage Disposal System named one of the Seven Wonders of Modern Engineering by the American Society of Civil Engineers (ASCE), recognizing the size of the system, including intercepting sewers, treatment plants, and waterways.
- 1956 Referendum, enabled by legislation, passed adding 412 square miles to the District.
- 1961 Lemont Treatment Plant placed into operation.
- 1963 Hanover Park Treatment Plant placed into operation.
- 1969 Board adopted the Sewage and Waste Control Ordinance, prohibiting any waste discharge into Lake Michigan.
- 1971 Fulton County "Prairie Plan" began whereby abandoned strip-mines were reclaimed into agriculturally productive land; won "Outstanding Civil Engineering Achievement Award" from the ASCE.

- 1972 District adopted the Tunnel and Reservoir Plan (TARP) as recommended by a committee of representatives from the state, city, county, and MSDGC. The plan provided for the collection, transportation, storage, and treatment of combined rainwater and sewage that in periods of heavy rain overflowed into waterways, underpasses, and basements.
- 1975 Construction began on the 31-mile Mainstream tunnel system; Egan Treatment Plant placed into operation.
- 1977 Construction began on the Calumet tunnel system.
- 1980 O'Hare Treatment (later renamed Kirie Water Reclamation)
 Plant and Upper Des Plaines TARP tunnel system placed into operation.
- 1985 Mainstream tunnel system placed into operation-capable of storing one billion gallons of combined sewage and stormwater.
- 1986 Mainstream tunnel system received award for "Outstanding Civil Engineering Achievement" from the ASCE; 9.2 mile Calumet tunnel system placed into operation.
- 1988 Water quality improvements recognized as causing increased real estate development along the waterway system; construction begins on the Des Plaines TARP tunnel.
- 1989 District celebrated its 100th anniversary. As part of the Centennial Celebration, the District changed its name to the Metropolitan Water Reclamation District of Greater Chicago and dedicated the Centennial Fountain.
- 1990 Army Corps of Engineers and the District began construction of the O'Hare-CUP Reservoir, the first of three reservoirs in the TARP program.
- 1992- District's five Sidestream Elevated Pool Aeration Stations
- 1994 (SEPA) completed along the Calumet River system. These stations add oxygen to the waterways to enhance the aquatic environment. The District received "Outstanding Civil Achievement of 1994" by ASCE for these projects.
- 1998 O'Hare-CUP Reservoir placed into operation, capable of storing 350 million gallons of combined sewage and stormwater; North Branch tunnel placed into operation.
- 1999 Des Plaines tunnel placed into operation; construction begins on the McCook Reservoir.
- 2000 District celebrated the 100th anniversary of the reversal of the Chicago River and completed a century of protecting Chicago's water environment; construction began on Thornton Reservoir.
- 2003 Construction began on the major capital improvement program for the Calumet, North Side, and Stickney Water Reclamation Plants.
- 2004 By an act of the Illinois Legislature, the District became responsible for stormwater management in Cook County.
- TARP Phase I 109-mile tunnel system completed; all four TARP tunnel systems in operation.
- 2007 District celebrated 100th anniversary of the Lockport Powerhouse and Dam.
- 2009 Construction of the Thornton Composite Reservoir began.
- 2010 District celebrated the 100th anniversary of the North Shore Channel.
- 2014 District celebrated its 125th anniversary.

Recovering Resources

Transforming Water





THORNTON RESERVOIR

The Metropolitan Water Reclamation District of Greater Chicago's (MWRD's) 7.9 billion gallon Thornton Reservoir (pictured above and on front cover) will go online in 2015. The Thornton Reservoir is a key part of the Tunnel and Reservoir Plan and will reduce flooding and water pollution caused by sewer overflows. It will also capture floodwater from nearby Thorn Creek. The Thornton Reservoir will be connected to 36.7 miles of deep tunnels and will serve an area of 90 square miles that is home to more than 550,000 people.

NUTRIENT RECOVERY at Stickney WRP

In 2015, we will begin using a sustainable biological process to recover phosphorus from water at our Stickney Water Reclamation Plant (WRP) (pictured above right). The recovered phosphorus will be available for use as an essential agricultural nutrient and will no longer impair water quality.

DISINFECTION at O'Brien WRP and Calumet WRP

The treatment process at our O'Brien plant in Skokie and Calumet plant in Chicago will be enhanced as new state-of-the-art disinfection facilities go online in 2015. The disinfection process will inactivate bacteria and pathogens and improve the quality of the cleaned water.

DENITRITATION at John E. Egan WRP

Nitrogen in the form of ammonia can contribute to water quality problems and is energy-intensive to remove from water using existing technology. In 2015, we will begin removing excess nitrogen from water at our Egan plant in Schaumburg using an innovative and efficient process that

will save as much energy as is used by 4,500 homes per year.

BIOSOLIDS

Biosolids are a superior and environmentally-friendly alternative to chemical fertilizer. We are working with the City of Chicago to produce biosolids compost using wood chips. We are also working with the State of Illinois to allow us to develop a residential distribution system to provide biosolids as a high-quality topsoil amendment.

WATER REUSE

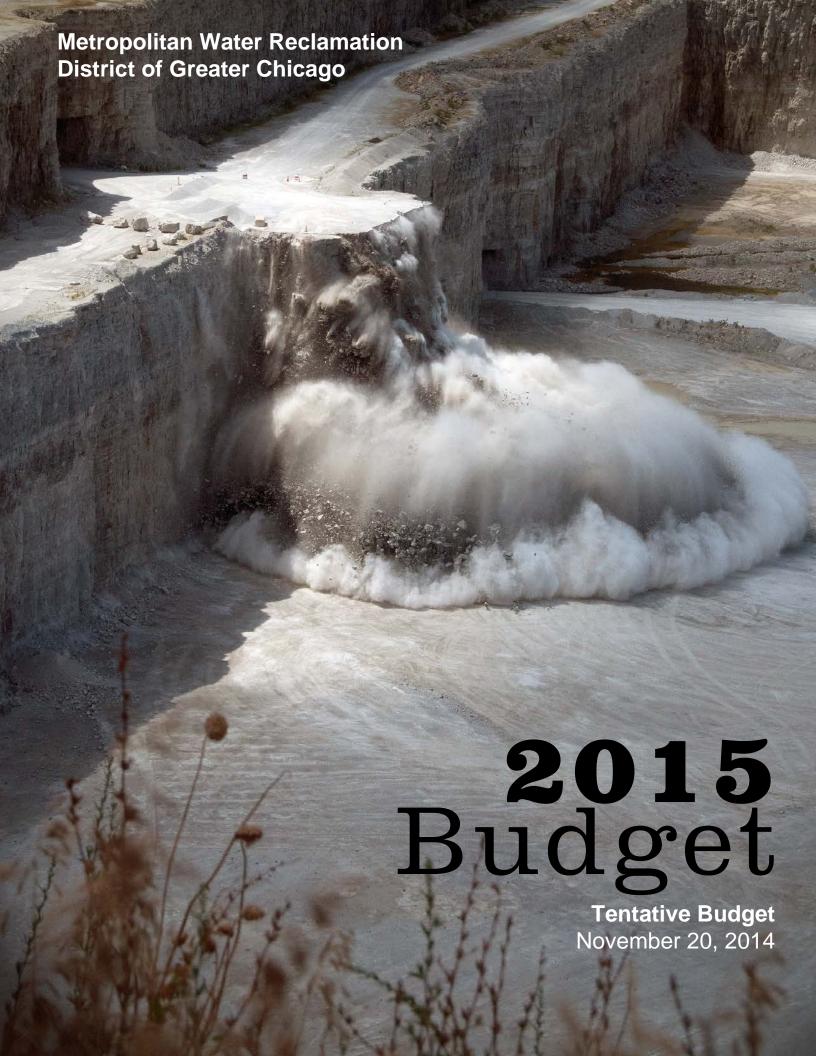
The MWRD is working with the Illinois Department of Natural Resources and large industrial users in the Stickney and Calumet WRP service areas to explore options for the reuse of treated water within the industrial community. By offering this water to industrial users for non-potable use, industries can realize significant cost savings and additional fresh lake water allocations will be conserved and/or made available for communities in need.

DIGESTER ENERGY

The MWRD's anaerobic digesters produce biogas which is used as a fuel to produce steam to heat buildings and treatment plant processes. We are investigating the collection of organic solids to add these waste streams to the digestion process to increase biogas production and divert this waste from landfills.

Metropolitan Water Reclamation District of Greater Chicago

100 East Erie Street Chicago, Illinois 60611-3154





GOVERNMENT FINANCE OFFICERS ASSOCIATION

Distinguished Budget Presentation Award

PRESENTED TO

Metropolitan Water Reclamation District of Chicago Illinois

For the Fiscal Year Beginning

January 1, 2014

Jeffry R. Emer

Executive Director

The Government Finance Officers Association of the United States and Canada (GFOA) presented an award for Distinguished Budget Presentation to the Metropolitan Water Reclamation District of Greater Chicago for its annual budget for the fiscal year beginning January 1, 2014.

In order to receive this award, a governmental unit must publish a budget document the meets

program criteria as a policy document, as an operations guide, as a financial plan and as a communications medium.

The award is valid for a period of one year only. We believe our current budget continues to conform to program requirements, and we are submitting it to GFOA to determine its eligibility for another award.



2015 Budget

Metropolitan Water Reclamation District of Greater Chicago

Tentative Budget November 20, 2014

Officers

DAVID ST. PIERRE Executive Director

ELLEN BARRY Acting Director of Information Technology

MARY ANN BOYLE Treasurer

ALLISON FORE
Public and Intergovernmental
Affairs Officer

THOMAS C. GRANATO Director of Monitoring and Research

RONALD M. HILL General Counsel

DENICE KORCAL
Director of Human Resources

DARLENE A. LoCASCIO Director of Procurement and Materials Management

CATHERINE A. O'CONNOR Director of Engineering

MANJU PRAKASH SHARMA Director of Maintenance and Operations

JACQUELINE TORRES Clerk/Director of Finance

Board of Commissioners



seated, from left to right:

BARBARA J. McGOWAN Vice President

KATHLEEN THERESE MEANY President

MARIYANAT. SPYROPOULOS Chairman of Finance standing, from left to right:

PATRICK D. THOMPSON

KARI K. STEELE

FRANK AVILA

DEBRA SHORE

CYNTHIA M. SANTOS

MICHAEL A. ALVAREZ

For additional copies of this document, contact: Beverly K. Sanders, Budget Officer 100 East Erie Street, Chicago, IL 60611-3154 www.mwrd.org The Tentative 2015 Budget for the Metropolitan Water Reclamation District of Greater Chicago is presented here as a supplement to the October 14, 2014 Executive Director's Recommendations. This supplement includes all of the Line Item Analysis schedules for each department and a Position Analysis schedule only where changes occurred due to actions taken at the November 6, 2014 Committee on Budget and Employment meeting. All changes are highlighted.

TABLE OF CONTENTS

Transmittal Letter, Chairman, Committee on Budget and Employment	1
Report of Committee on Budget and Employment	5
Comparative Statement of Appropriations, Tax Levies, and Tax Rates	7
Account Summary Comparison (Table)	9
Personnel Summary Comparison (Table)	10
Summary of Revenue and Expenditures, 2015-2014	11
Corporate Fund Line Item Analysis and Position Analysis:	13
Board of Commissioners	17
General Administration	18
Monitoring & Research	20
Procurement & Materials Management	24
Human Resources	28
Information Technology	30
Law	32
Finance	33
Maintenance & Operations Overall:	34
General Division	37
North Service Area	40
Calumet Service Area	42
Stickney Service Area	45
Engineering	48
Capital Budget	53
Stormwater Management Fund	62
Reserve Claim Fund	64

NOTE PAGE

ii

Metropolitan Water Reclamation District of Greater Chicago

100 EAST ERIE STREET

CHICAGO, ILLINOIS 60611-3154

312.751.5600

Kathleen Therese Meany President
Barbara J. McGowan Vice President
Mariyana T. Spyropoulos Chairman Of Finance
Michael A. Alvarez
Frank Avila
Cynthia M. Santos
Debra Shore
Kari K. Steele
Patrick D. Thompson

BOARD OF COMMISSIONERS

November 20, 2014

The Honorable Kathleen Therese Meany, President and Members of the Board of Commissioners OFFICE

Honorable Ladies and Gentlemen:

The 2015 Budget as presented by the Executive Director and revised by the Committee on Budget and Employment includes the resources to allow the Metropolitan Water Reclamation District of Greater Chicago (District) to provide a quality water environment for our service area.

Committee Hearings

The Committee on Budget and Employment received the Executive Director's Recommendations on October 14, 2014. A hearing on these recommendations was conducted on November 6, 2014, when the Executive Director and his Executive Team presented major changes and initiatives included in the 2015 Budget. The Executive Director presented a summary of the 2015 Strategic Business Plan and a comprehensive discussion on the financial health of the District. The District has a stable Corporate Fund and a sustainable capital plan, has increased funding to the Retirement Fund, continued its commitment to the Other Post Employee Benefit (OPEB) Fund, and purchased insurance policies to provide for catastrophe-level losses. The Executive Team presented several of the major accomplishments of 2014 and the major initiatives planned for 2015, including resource recovery projects, the exploration of effluent use by industry, completion of the Thornton Reservoir, and a continued commitment to the training and development of District employees.

The 2015 Budget includes the policies, objectives, and resources to allow the District to make significant progress on our vision statement of "Recovering Resources, Transforming Water."

Budget Message

The year 2015 will be an exciting one for the District, and many milestones will be reached. First, the Thornton Reservoir will be coming online, providing needed relief to the southern areas of Cook County. The Thornton Reservoir will have a capacity of 7.9 billion gallons and is the second reservoir in the Tunnel and Reservoir Plan (TARP) to come online. Second, two disinfection facilities will be completed. The Calumet plant will implement chlorination and the O'Brien plant will implement ultraviolet disinfection. These major milestones will start a new chapter in the District's history.

The District is implementing a new Strategic Business Plan for 2015, replacing the previous Strategic Business Plan, which has been our guide since mid-2011. The District has worked over the last four years to improve our environment in four areas. We have improved our financial environment, our public environment, our natural environment, and our employee environment. In evaluating the 2011 Strategic Business Plan, it became clear that 90 percent of the strategies were implemented. Although the District needs to continue to ensure these initiatives move forward, it is time to take on new challenges as we focus on serving the constituents of Cook County.

A review of the past Strategic Business Plan's successes includes a significant improvement in the District's financial position. The pension's unfunded liability saw a marked improvement in 2014 as the actuarial percent funding level increased in December of 2013 after 15 years of steady reduction in the overall funding level. The Board of Commissioners (Board) has adopted a pension policy to ensure maximum funding remains a priority in the coming years. This policy will ensure the Retirement Fund is on schedule to reach a 100 percent funded level as quickly as possible. The OPEB Fund, which is used to fund retiree health care costs, reached a 50 percent funding level in 2014. This funding level exceeds the adopted policy target date of 2055 by 41 years. The Board adopted a new policy for the OPEB Fund, making a commitment to fund this at 100 percent within the next 12 years. The District made adjustments in its operations to ensure responsible financial management in the Corporate Fund budget. Staff has worked hard to ensure capital improvement projects are justified and spending levels are at a sustainable pace. The District will remain focused on ensuring our finances remain healthy as we move forward into the future.

In 2011, the District was facing harsh criticism from the public. Therefore, the District began to focus on improving its public environment. The District hired a Public & Intergovernmental Affairs Officer to communicate our work and help promote the District as a local leader. Several tools are now in place to get out the message of the activities and benefits the District provides Cook County. The District has developed a Facebook account that communicates the successes of the District on a routine basis. The District has created a Twitter account that echoes these accomplishments. The District maintains a media list of over 800 individuals and media outlets including the Associated Press and CNN International. The frequent press releases distributed through this method have improved the District's public environment. Our Public Affairs staff sets up facility visits for scientists, engineers, and other guests from around the world. Staff also participates in local community events throughout the region, distributing handouts and interacting with residents. They schedule local meetings to discuss flooding, how the system operates, and tips on how to protect homes. These efforts have certainly improved the District's image.



Pictured is Reed Dring, Engineer of Treatment Plant Operations I, explaining the wastewater treatment process to students at the Stickney Water Reclamation Plant during a tour in September 2014 at an open house celebrating the District's 125th anniversary.

The District has focused on creating a natural environmental strategy that places the District ahead of environmental initiatives. The District has focused on biological phosphorus removal at four water reclamation plants – Stickney, Calumet, O'Brien, and Kirie. The District has moved forward on these projects with multi-departmental teams headed by the newly created planning group housed in the Monitoring & Research Department. In addition to biological phosphorus efforts, the teams are piloting an algae removal process at the O'Brien plant. The District is also focusing on working with agriculture to establish nutrient controls and improve Illinois waterways. We understand that the Illinois hypoxia plan goals cannot be reached without the cooperation of the agricultural community. By working with farmers on best management practices, the District is creating relationships and partnerships to address the issue of nutrients in our waterways. As stated earlier, the two disinfection facilities will come online in 2015. In addition, the Egan plant will pilot the ANITATM Mox process. This process has the potential of reducing our energy footprint by 40 percent. The first step in utilizing our digester capacity was taken this year as we are currently negotiating a food-to-energy project for the Calumet plant. This project has the potential to lower greenhouse gas emissions by 110,000 metric tons per year and deliver a significant return on investment for our taxpayers. The District

remains engaged in the discussion concerning invasive species transfer between the Great Lakes and the Mississippi River basin. The District remains committed to providing leadership to the region concerning waterway issues and discovering new ways to improve our natural environment.

The District's focus on improving the environment of our employees has resulted in a renewed commitment to employee development. The Board approved increasing the tuition reimbursement program, doubling the level of reimbursement available on an annual basis. In addition, management has a target goal to provide 24 hours of training for every employee. This training is designed to focus on job-specific topics that will advance employees in their field of work. There are no more hiring freezes. Instead, staff is reviewing and adding additional positions needed to accomplish the work of the District. We continue to enjoy having one of the more elite staffs in the country today.

The progress made over the past four years has been tremendous. Therefore, the Executive Team stepped back and reevaluated the strengths, weaknesses, opportunities, and threats the organization faces. The list produced is completely different than the list created in 2011. It is from this new list that the 2015 Strategic Business Plan was created.



Governor Pat Quinn signed three pieces of legislation pertaining to flooding and stormwater management during a press conference and bill signing ceremony at the Centennial Fountain along the Chicago River in August 2014.

In the photo (L-R): Nick O'Connor of the MWRD President's Office; Jen Walling, Executive Director of the Illinois Environmental Council; Marc Miller, Director, Illinois Department of Natural Resources; MWRD President Kathleen Therese Meany; MWRD Chairman of Finance Mariyana Spyropoulos, and MWRD Commissioner Kari Steele. The District passed important legislation this year in Springfield. Another important piece of legislation was signed into law that was brought forward by the Illinois Environmental Protection Agency (IEPA). The first legislation dealt with stormwater issues. The second legislation allows the District to focus on resource recovery. These two bills signed by the Governor in June and July of this year will provide the District with the flexibility to advance its mission into the future. The IEPA bill opens up the State Revolving Fund (SRF) to multiple uses including stormwater projects.

Cook County continues to experience historic rain patterns. These rains are intense, short bursts that overwhelm community systems. *Flooding is the number one issue the District will face in the next five years.* The stormwater bill allows the District to utilize three new tools. The first tool provides the District with the ability to help communities with local stormwater issues. The focus on flooding issues at a local level will help the District protect the communities we serve with desperately needed projects. The second tool allows the District to purchase flood-prone properties where no other solution exists. The third tool gives the District the ability to issue bonds for stormwater projects. Since the District does not own stormwater project property, this ability will allow the District to do more while slowing down tax increases. These tools will mark significant improvements in our stormwater utility and help us build a resilient Chicagoland.

After the stormwater bill was signed, our Engineering and Law Departments moved quickly. A year prior to the signing, the Engineering Department canvassed communities throughout Cook County, collecting a list of local flooding issues. The team also identified possible buyout areas. Using Phase I and Phase II project lists, the team was ready to mobilize when the bill was signed into law. The Law Department immediately presented changes in Board policy needed to enact the local policy. In addition, the Law Department drafted a buyout policy that the Board adopted. There are over 30 projects moving forward that span immediate construction, preliminary design, and design stages. These projects are community partnerships where communities are participating in cost share and maintenance obligations. In addition, the District has identified five pilot areas – one in each Council of Government region and one in the City of Chicago – to begin putting together a Cook County green and gray infrastructure stormwater plan that will protect the community against severe weather events. We can only succeed in addressing flooding in Cook County with all parties working together. The District can be the catalyst that encourages these partnerships.

The resource recovery bill gives the District the ability to resell resources recovered in the treatment process. This important legislation will allow the District to move forward in recovering water, phosphorus, energy, and biosolids. These markets have the ability to provide a revenue stream, enhance the environment, and create value for the District. This revenue stream can accelerate projects needed to reduce flooding in Cook County. Although the District is focused on the four resources mentioned, the future will uncover additional value that can be recovered from the water treatment process. The District will continue to focus on adding value to the community we serve. Incorporating resource recovery allows the District to reduce greenhouse gases, develop a more sustainable society, and utilize resources that would otherwise be wasted.

The IEPA bill that opens up SRF funding to stormwater projects is a bonus. This bill will allow the District to double the amount of projects it can help communities with around Cook County. This bill also allows for the funding of resource recovery and energy related projects at the plants. The expansion of SRF provides low interest loans for District work. This tool, combined with the increase in available dollars from the state in the Clean Water Initiative, will enable funding to all but a handful of projects using low interest loans.

The 2015 Strategic Business Plan adopted the following vision statement: "Recovering Resources, Transforming Water." This statement contains two ideas. The first is straightforward: recover resources for reuse in the public marketplace. The second contains the idea of sustainability and resiliency needed within our fences and the communities we serve. The District is taking on the challenge of providing the leadership in Cook County to influence the changes needed to combat the new weather patterns rolling across our region.



View along Buffalo Creek at the Heritage Park Flood Control Facility with basin spillway in the foreground.

The 2015 Strategic Business Plan has six major goals, each with identified strategies to accomplish and measure progress. These goals represent the major focus areas for staff as we seek to move forward with the vision of "Recovering Resources, Transforming Water."

Goal number one is to "Add Value." Every employee at the District will look for opportunities to add value. There are three main strategy areas of focus within this goal. These areas are customer service opportunities, real estate, and service levels between departments. The idea behind this goal is to advance the understanding of results versus task orientation. Every

employee within the District should understand the end goal of the activity and perform the job with that result in mind. Instead of merely performing tasks, the organization should understand the reason behind the activity and strive for the target.

Goal number two is "Excellence." Nothing of consequence is accomplished without enthusiasm. This simple statement captures the idea behind this goal. Everything must work reliably. Our finances should be managed in an excellent manner, ensuring value for every dollar spent. Our processes should be optimized within our plants to ensure resources are not wasted. We should have a sense of urgency in the delivery of services to our constituents. Every employee should understand their value and role within the organization.

Goal number three is "Resource Recovery." This goal will focus on four resources – water, phosphorus, biosolids, and energy. The District has a potential revenue stream of \$70 million annually through resource recovery. These projects have a significant environmental impact as well. These efforts span from changing IEPA regulations for biosolids to striving for energy neutrality by 2023. These initiatives will play a role in advancing stability at the District and encouraging thoughtful action within the community.

Goal number four is the one carryover from the 2011 plan: "Develop Employees." Value is measured through personal contribution and growth. This phrase describes the intention of this goal. Every employee at the District should be valued. As such, the focus to invest in the personal growth of each employee remains a critical component of the 2015 plan.

Goal number five is "Leading Partnerships." We recognize the importance of active involvement in the world around us. The District is a leader in water. We need to strategically lead in our communities, state, and nation. Having the top staff in the country does not come without responsibility. The District recognizes this responsibility and is positioned to take leadership roles within the community we serve.

Goal number six is "Technology." The District will embrace a new era of technology that delivers reliable and useful information. This initiative recognizes the importance of useful technological tools that are needed to assist the District in all of our efforts. Utilizing information to be transparent and to provide guidance to the organization is critical to our future success.

We hope you will take the time to review the 2015 Strategic Business Plan in full. This is a brief summary of our aspirations for the next five years. The challenges are many. Our role is clear. We are committed as an agency to continue providing the excellent service expected of the District.

Financial Summary

The 2015 five-year financial plan was developed to maintain budgetary fund balances at policy levels using the Strategic Business Plan as a guideline to establish priorities. The operation, maintenance, investment in the District's infrastructure, and other essential services will continue to receive primary focus, while some discretionary activities and non-essential services will be reduced. The District has been aggressive over the past year in addressing some of the primary drivers of the budget, including energy costs, personnel and health care costs, and pension obligations.

These recommendations continue our conservative fiscal management and include the policies, objectives, and resources to allow the District to remain true to our core mission of protecting our water environment and the health of the residents of Cook County.

The District's appropriation and tax levy for 2015 as recommended, compared to the 2014 Budget as adjusted is:

	<u>2015</u>	<u>2014 (Adjusted</u>)	Increase / (Decrease)	Percent Change
Total Tax Levy	\$ 560,025,957	\$ 540,255,741	\$ 19,770,216	3.7
Aggregate Levy	307,400,000	300,930,700	6,469,300	2.1
Appropriation	1,252,258,281	1,219,656,083	32,602,198	2.7

The aggregate levy is statutorily limited to an annual increase of five percent or the Consumer Price Index (CPI), whichever is lower. The increase in the 2015 aggregate levy is equal to the estimated CPI plus new property for 2015.

Respectfully submitted,

Kari K. Steele

Chairman, Committee on Budget and Employment

Debra Shore

Vice-Chairman, Committee on Budget and Employment

CHICAGO, November 20, 2014

REPORT OF COMMITTEE ON BUDGET AND EMPLOYMENT

Presented to the Board of Commissioners of the Metropolitan Water Reclamation District of Greater Chicago

To the Honorable, President and Members of the Board of Commissioners of the Metropolitan Water Reclamation District of Greater Chicago

LADIES AND GENTLEMEN:

Your Chairman of the Committee on Budget and Employment respectfully reports that she has under consideration the resources of the Metropolitan Water Reclamation District of Greater Chicago and its estimated receipts, together with the sum of money required to be appropriated to defray the necessary expenses and liabilities of the Metropolitan Water Reclamation District of Greater Chicago for the fiscal year beginning January 1, 2015 and ending December 31, 2015, as prepared and submitted by the Executive Director in the document entitled "2015 Budget – Executive Director's Recommendations – October 14, 2014," which document is incorporated by reference herein, made a part hereof and attached hereto.

Your Chairman of the Committee on Budget and Employment has duly considered and reviewed the above budget estimates and revised and amended the same, in certain particulars, which estimates, as amended, were and are approved by your Chairman of the Committee on Budget and Employment and are submitted herewith in final revised form, setting forth the details of the estimates of the resources, revenues and expenditures for the future consideration, review, adoption, and passage by the Board of Commissioners. Your Chairman of the Committee on Budget and Employment further reports that in the consideration and revision of the estimated resources and departmental expenditures, it has received, considered, and transmits them herewith for the guidance of the Board of Commissioners and for public information. The budget estimates are prepared and made up of the following three parts:

- a. General Budget summary setting forth the aggregate figures of the budget in such manner as to show the balanced relations between the total proposed expenditures and the total anticipated revenues and other means of financing the budget for the fiscal year ending December 31, 2015, contrasted with the actual receipts and disbursement figures for the preceding year and the estimated figures for the current year. The budget of the Corporate Fund, Construction Fund, Capital Improvements Bond Fund, and Stormwater Management Fund has been planned and balanced with receipts on an actual cash basis and expenditures on an accrual basis pursuant to Statutes,
- b. The several estimates, statements and other detail, and the complete financial plan for the budget year, set forth as required in Section 5.3 of the Metropolitan Water Reclamation District Act (Chap. 70, Sec. 2605/5.3, Illinois Compiled Statutes).

c. Complete draft of the Appropriation Ordinances and Tax Levy Ordinances required to give legal sanction to the appropriation when approved and adopted by the Board of Commissioners of the Metropolitan Water Reclamation District of Greater Chicago.

Your Chairman of the Committee on Budget and Employment further reports that she has prepared and herewith transmits a draft of Ordinances to be adopted and passed by the Board of Commissioners entitled:

"Annual Appropriation Ordinance of the Metropolitan Water Reclamation District of Greater Chicago for the fiscal year beginning January 1, 2015 and ending December 31, 2015";

and

"An Ordinance for the Levy of Taxes for the fiscal year beginning January 1, 2015 and ending December 31, 2015, upon all taxable property within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago as said territorial limits exist on January 1, 2015, for the purpose of providing revenues for the Metropolitan Water Reclamation District Retirement Fund and Corporate Fund";

and

"An Ordinance for the Levy of Taxes for the fiscal year beginning January 1, 2015 and ending December 31, 2015, upon all taxable property within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago as said territorial limits exist on January 1, 2015, for the purpose of providing revenues for the Construction Fund";

and

"An Ordinance for the Levy of Taxes for the fiscal year beginning January 1, 2015 and ending December 31, 2015, to pay the interest on outstanding Bonds and to discharge the principal thereof";

and

"An Ordinance for the Levy of Taxes for the fiscal year beginning January 1, 2015 and ending December 31, 2015, upon all taxable property within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago as said territorial limits exist on January 1, 2015, for the purpose of providing revenues for the Reserve Claim Fund";

and

"An Ordinance for the Levy of Taxes for the fiscal year beginning January 1, 2015 and ending December 31, 2015, upon all taxable property within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago as said territorial limits exist on January 1, 2015, for the purpose of providing revenues for the Stormwater Management Fund";

Your Chairman of the Committee on Budget and Employment also recommends the passage of the following Orders:

Ordered: That the foregoing report and budget estimates as transmitted by the Chairman of the Committee on Budget and Employment, and the following Ordinances submitted with said report, which have not been adopted be and the same are hereby received for the consideration, adoption and passage by the Board of Commissioners of the Metropolitan Water Reclamation District of Greater Chicago:

"Annual Appropriation Ordinance of the Metropolitan Water Reclamation District of Greater Chicago for the fiscal year beginning January 1, 2015 and ending December 31, 2015";

and

"An Ordinance for the Levy of Taxes for the fiscal year beginning January 1, 2015 and ending December 31, 2015 upon all taxable property within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago as said territorial limits exist on January 1, 2015, for the purpose of providing revenues for the Metropolitan Water Reclamation District Retirement Fund and Corporate Fund";

and

"An Ordinance for the Levy of Taxes for the fiscal year beginning January 1, 2015 and ending December 31, 2015, upon all taxable property within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago as said territorial limits exist on January 1, 2015, for the purpose of providing revenues for the Construction Fund";

and

"An Ordinance for the Levy of Taxes for the fiscal year beginning January 1, 2015 and ending December 31, 2015, to pay the interest on outstanding Bonds and to discharge the principal thereof";

and

Approved as to Form and Legality:

Head Assistant Attorney

Consult M. Will

General Counsel

"An Ordinance for the Levy of Taxes for the fiscal year beginning January 1, 2015 and ending December 31, 2015, upon all taxable property within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago as said territorial limits exist on January 1, 2015, for the purpose of providing revenues for the Reserve Claim Fund";

and

"An Ordinance for the Levy of Taxes for the fiscal year beginning January 1, 2015 and ending December 31, 2015, upon all taxable property within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago as said territorial limits exist on January 1, 2015, for the purpose of providing revenues for the Stormwater Management Fund";

and it is further

That upon the adoption and passage of the Ordered: Appropriation Ordinance and the above mentioned Tax Levy Ordinances, the report of your Chairman of the Committee on Budget and Employment, together with the complete budget and statements of the assets, the estimated resources and the revenues of the Metropolitan Water Reclamation District of Greater Chicago for the fiscal year 2015 and the Ordinances listed above which are required to give legal sanction to the appropriations when adopted and passed by the Board of Commissioners, the vote shall be entered in the Proceedings of the Board of Commissioners and the ordinances, report, budget and statements shall be printed in book form for easy reference and examination, and for controlling the expenditures by the Board of Commissioners during the fiscal year beginning January 1, 2015 and ending December 31, 2015;

and it is further

Ordered: That the report of your Chairman of the Committee on Budget and Employment and the Appropriation Ordinances of the Metropolitan Water Reclamation District of Greater Chicago for the year 2015 and the Tax Levy Ordinances listed above which are required to give legal sanction to the appropriation when adopted and passed by the Board of Commissioners together with the summary of estimated revenues and estimated expenditures for the year beginning January 1, 2015 and ending December 31, 2015, shall be published once before January 20, 2015, in a newspaper having general circulation within the territorial limits of the Metropolitan Water Reclamation District of Greater Chicago;

and it is further

Ordered: That the Clerk of the Metropolitan Water Reclamation District of Greater Chicago is hereby authorized and directed to carry out the aforementioned orders and to incur the necessary expenses thereof.

Respectfully submitted,

Chairman.

Committee on Budget and Employment

COMPARATIVE STATEMENT OF APPROPRIATIONS AND TAX LEVIES 2015-2013 ALL FUNDS

	2015**	2014	2014	2013
APPROPRIATIONS		AS PASSED	AS ADJUSTED *	ACTUAL
FUND				
Corporate Fund	\$ 382,754,100	\$ 395,344,700	\$ 395,344,700	\$ 383,607,900
Construction Fund	37,910,700	53,306,000	53,306,000	40,811,900
Capital Improvements Bond Fund ***	484,882,500	386,208,300	386,208,300	349,648,800
Stormwater Management Fund	45,909,200	50,907,400	50,907,400	61,251,000
Retirement Fund	61,654,000	74,984,000	74,984,000	64,761,000
Reserve Claim Fund	34,000,000	64,000,000	64,000,000	62,000,000
Bond Redemption & Interest Fund	205,147,781	194,905,714	194,905,683	192,984,390
TOTAL	\$1,252,258,281	\$1,219,656,114	\$1,219,656,083	\$1,155,064,990
LEVIES				
Corporate Fund	\$ 227,196,000	\$ 230,000,000	\$ 230,000,000	\$ 224,399,734
Construction Fund	16,500,000	17,400,000	17,400,000	11,079,300
Stormwater Management Fund	24,050,000	21,000,000	21,000,000	20,000,000
Retirement Fund	58,004,000	50,530,700	50,530,700	51,620,700
Reserve Claim Fund	5,700,000	3,000,000	3,000,000	6,170,977
Subtotal	\$ 331,450,000	\$ 321,930,700	\$ 321,930,700	\$ 313,270,711
Bond Redemption & Interest Fund:				
Capital Improvement Bonds - Series:				
July 2006 Limited Tax	\$ 16,469,689	\$ 17,588,601	\$ 17,588,601	\$ 5,158,549
August 2009 Limited Tax	35,564,767	35,564,767	35,564,767	35,564,767
July 2011 Limited Tax Series A	5,646,431	4,524,343	4,524,343	16,954,618
July 2011 Limited Tax Series B	13,894,139	13,894,139	13,894,139	13,894,139
July 2011 Unlimited Tax Series C	13,205,422	21,386,768	21,386,768	10,555,681
Pending December 2014	13,471,503	-	-	-
State Revolving Fund Bonds - Series:				
1992 T,U; 1994 R,V; 1997 AA-DD; 2001 A-C; 2004 A-H; 2007 A-D;	70,134,356	65,136,115	65,141,799	59,054,005
2009 A-I; 2012 A-F, H-P				
Refunding Bonds - Series:				
May 2006 Unlimited Tax	17,958,549	17,958,549	17,958,549	17,958,549
May 2006 Limited Tax	2,631,606	2,631,606	2,631,606	2,631,606
March 2007 Unlimited Tax A	29,061,140	29,096,114	29,096,114	29,078,497
March 2007 Unlimited Tax B	4,996,749	4,996,749	4,996,749	4,996,749
March 2007 Limited Tax C	5,541,606	5,541,606	5,541,606	5,541,606
Subtotal Bond Redemption & Interest Fund	\$ 228,575,957	\$ 218,319,357	\$ 218,325,041	\$ 201,388,766
TOTAL	\$ 560,025,957	\$ 540,250,057	\$ 540,255,741	\$ 514,659,477

NOTES: * As Adjusted reflects the 2013 Equalized Assessed Valuation (EAV) (\$123,419,543,828) estimated to increase 2 percent, plus any subsequent supplemental levies and/or appropriations.

^{** 2015} reflects an estimated 3.5 percent increase in the EAV from the 2014 estimated.

^{***} Prior year obligations for the Capital Improvements Bond Fund are included in the Appropriation for Liabilities.

COMPARATIVE STATEMENT OF TAX RATES 2015-2013 ALL FUNDS

Per \$100 in Equalized Assessed Valuation (EAV)

FUND		2015 **		2014 AS PASSED	A	2014 S ADJUSTED	*	2013 ACTUAL
taxı	rate limit							
Gross Corporate Fund	41 ¢	17.44	¢	18.15	¢	18.27	¢	18.18 ¢
Construction Fund	10 ¢	1.27		1.37		1.38		0.90
Stormwater Management Fund	5 ¢	1.85		1.66		1.67		1.62
Retirement Fund		4.45		3.99		4.01		4.18
Reserve Claim Fund	¹∕2 ¢	0.44		0.24		0.24		0.50
Subtotal	-	25.45	¢	25.41	¢	25.57	¢	25.38 ¢
Bond Redemption & Interest Fund	:							
Capital Improvement Bonds - Serie	es:							
July 2006 Limited Tax		1.26	¢	1.39	¢	1.40	¢	0.42 ¢
August 2009 Limited Tax		2.73		2.81		2.83		2.88
July 2011 Limited Tax Series A		0.43		0.36		0.36		1.37
July 2011 Limited Tax Series B		1.07		1.10		1.10		1.13
July 2011 Unlimited Tax Series	C	1.01		1.69		1.70		0.86
Pending December 2014		1.03		-		-		-
State Revolving Fund Bonds - Seri 1992 T,U; 1994 R,V; 1997 AA- 2001 A-C; 2004 A-H; 2007 A-I 2009 A-I; 2012 A-F, H-P	-DD;	5.38		5.14		5.17		4.78
Refunding Bonds - Series:								
May 2006 Unlimited Tax		1.38		1.42		1.43		1.46
May 2006 Limited Tax		0.20		0.21		0.21		0.21
March 2007 Unlimited Tax Ser	ies A	2.23		2.30		2.31		2.36
March 2007 Unlimited Tax Ser	ies B	0.38		0.39		0.40		0.40
March 2007 Limited Tax Series	s C	0.43	_	0.44	_	0.44	_	0.45
Subtotal Bond Redemption & Inter	est Fund	17.53	¢	17.25	¢	17.35	¢	16.32 ¢
TOTAL		42.98	¢	42.66	¢	42.92	¢	41.70 ¢

NOTES: * As Adjusted reflects the 2013 EAV (\$123,419,543,828) estimated to increase 2 percent, plus any subsequent supplemental levies and/or appropriations.

^{** 2015} reflects an estimated 3.5 percent increase in the EAV from the 2014 estimated.

ACCOUNT SUMMARY COMPARISON 2015 - 2014 ALL FUNDS

	Account A	ppropriation	Increase (Decrease) 2015 - 2014		
ORGANIZATION OR FUND	2015	2014	Dollars Percent		
Board of Commissioners	\$ 4,116,700	\$ 4,046,900	\$ 69,800 1.7		
General Administration	17,724,400	16,674,800	1,049,600 6.3		
Monitoring & Research	27,582,800	28,297,600	(714,800) (2.5)		
Procurement & Materials Management	8,492,500	9,364,500	(872,000) (9.3)		
Human Resources	59,908,000	75,266,000	(15,358,000) (20.4)		
Information Technology	16,434,400	16,219,300	215,100 1.3		
Law	7,682,700	8,223,900	(541,200) (6.6)		
Finance	3,463,400	3,609,100	(145,700) (4.0)		
Maintenance & Operations: General Division	25,346,400	25,114,600	231,800 0.9		
North Service Area	41,516,000	39,573,200	1,942,800 4.9		
Calumet Service Area	35,294,600	33,197,900	2,096,700 6.3		
Stickney Service Area	81,815,000	79,072,700	2,742,300 3.5		
TOTAL Maintenance & Operations	\$ 183,972,000	\$ 176,958,400	\$ 7,013,600 4.0		
Engineering	53,377,200	56,684,200	(3,307,000) (5.8)		
TOTAL Corporate Fund	\$ 382,754,100	\$ 395,344,700	\$ (12,590,600) (3.2)		
Construction Fund	37,910,700	53,306,000	(15,395,300) (28.9)		
Capital Improvements Bond Fund	484,882,500	386,208,300	98,674,200 25.5		
TOTAL Capital Budget	\$ 522,793,200	\$ 439,514,300	\$ 83,278,900 18.9		
Stormwater Management Fund	45,909,200	50,907,400	(4,998,200) (9.8)		
Bond Redemption & Interest Fund	205,147,781	194,905,714	10,242,067 5.3		
Retirement Fund	61,654,000	74,984,000	(13,330,000) (17.8)		
Reserve Claim Fund	34,000,000	64,000,000	(30,000,000) (46.9)		
GRAND TOTAL	\$1,252,258,281	\$1,219,656,114	\$ 32,602,167 2.7		

PERSONNEL SUMMARY COMPARISON 2015 - 2013 ALL FUNDS

	Proposed FTEs	Budgeted FTEs	Actual FTEs		(Decrease) 5 - 2014
ORGANIZATION OR FUND	2015	2014	2013	FTEs	Percent
Board of Commissioners	37	37	36	-	-
General Administration	116	113	109	3	2.7
Monitoring & Research	297	288	282	9	3.1
Procurement & Materials Management	63	62	62	1	1.6
Human Resources	74	72	58	2	2.8
Information Technology	70	70	68	-	-
Law	38	36	38	2	5.6
Finance	29	29	29	-	-
Maintenance & Operations: General Division	92	91	99	1	1.1
North Service Area	259	259	257	-	-
Calumet Service Area	200	201	197	(1)	(0.5)
Stickney Service Area	397	397	390	-	-
TOTAL Maintenance & Operations	948	948	943	-	-
Engineering	243	243	242	-	-
TOTAL Corporate Fund	1,915	1,898	1,867	17	0.9
Construction Fund	-	-	-	-	-
Capital Improvements Bond Fund	-	-	-	-	-
TOTAL Capital Budget	-	-	-	-	-
Stormwater Management Fund	60	63	49	(3)	(4.8)
Bond Redemption & Interest Fund	-	-	-	-	-
Retirement Fund	-	-	-	-	-
Reserve Claim Fund	-	-	-	-	-
GRAND TOTAL	1,975	1,961	1,916	14	0.7

ALL FUNDS SUMMARY OF REVENUE AND EXPENDITURES 2015 BUDGETED

(In Thousands)

	_						FUN	D					
		ar ar		The War was a second and a second a second and a second and a second and a second and a second a	s de	\$ [*]	Spenny Market Am	A THE STATE OF THE	POND ROY				E T
REVENUE	_		_			-				_		_	
Net Assets Appropriable Budget Reserve Net Property Taxes Personal Property Replacement Tax Working Cash Borrowings Adjustmen Bond Sales (Present & Future) Grants (Federal & State) Investment Income State Revolving Fund Loans Property & Services User Charge TIF Differential Fee & Impact Fee Equity Transfer	\$ and	(69,324.4) 219,244.1 20,101.6 (4,445.7) - 1,300.0 - 17,500.0 51,000.0 2,225.0	\$	(164,075.9) \$	14,265.7 - 15,922.5 7,000.0 (622.5) - - 300.0 - 300.0 745.0		22,809.2 - 23,208.3 - (408.3) - - 300.0 - -	\$ 61,654.0 - - - - - - - - - -	\$ 192,680. 10,967. 1,500.	- - - - 0	33,600.0	\$	302,667.3 (69,324.4) 258,374.9 27,101.6 (5,476.5) 566,458.4 10,967.0 6,300.0 80,000.0 17,500.0 51,300.0 2,970.0
Miscellaneous	_	3,420.0	-		-	-	-	<u> </u>		<u>-</u>	-	_	3,420.0
TOTAL REVENUE EXPENDITURES	* =	382,754.1	. ^Ф =	484,882.5 \$	37,910.7	Ъ	45,909.2	\$ 61,654.0	\$ 205,147.	<u>8</u>	34,000.0	\$ <u>1</u>	,232,238.3
Board of Commissioners	\$	4,116.7	ф	- \$		\$		\$ -	\$	- \$	_	\$	4,116.7
General Administration Monitoring & Research Procurement & Materials Mgmt. Human Resources Information Technology Law Finance Engineering Maintenance & Operations Stormwater Management Fund Retirement Fund		17,724.4 27,582.8 8,492.5 59,908.0 16,434.4 7,682.7 3,463.4 53,377.2 183,972.0		484,882.5	37,910.7		45,909.2	- - - - - - - - 61,654.0	205 147		-		17,724.4 27,582.8 8,492.5 59,908.0 16,434.4 7,682.7 3,463.4 576,170.4 183,972.0 45,909.2 61,654.7
Bond Redemption & Interest Fund Reserve Claim Fund		-		-	-		-	-	205,147.	.8 -	34,000.0		205,147.8 34,000.0
TOTAL EXPENDITURES	\$	382,754.1	\$	484,882.5 \$	37,910.7	\$	45,909.2	\$ 61,654.0	\$ 205,147.	.8 \$		\$ 1	

^{*} The Capital Improvements Bond Fund is budgeted on an "obligation" basis, which records expenditures in the period in which the contracts or grants are awarded.

ALL FUNDS SUMMARY OF REVENUE AND EXPENDITURES 2014 ESTIMATED

(In Thousands)

					FUND				
REVENUE	<u> </u>	garage .	10 00 00 00 00 00 00 00 00 00 00 00 00 0	S. OF CONTROL OF CONTR	STORY THE STATE OF ST	The state of the s	a de la	A CARREST OF STATE OF	A A A A A A A A A A A A A A A A A A A
** *	\$		(246,076.6) \$		3 28,692.1	\$ 62,984.0	\$ 182,838.7	\$ 71,596.0 \$	285,976.8
Adjustment for Receipts		9,221.9	-	(360.7)	-	-	-	-	8,861.2
Net Property Taxes		221,950.0	-	16,791.0	20,265.0	-	-	-	259,006.0
Personal Property Replacement Tax		18,608.1	-	-	-	-	-	-	18,608.1
Working Cash Borrowings Adjustment	t	(4,358.1)	-	(791.0)	(265.0)	-	-	-	(5,414.1)
Bond Sales (Present & Future)		-	210,865.3	-	-	-	-	-	210,865.3
Grants (Federal & State)		-	-	-	-	-	10,967.0	-	10,967.0
Investment Income		2,100.0	2,700.0	400.0	400.0	-	1,100.0	500.0	7,200.0
State Revolving Fund Loans		-	80,000.0	-	-	-	-	-	80,000.0
Property & Services		18,814.7	-	-	-	-	-	-	18,814.7
User Charge		47,200.0	-	300.0	-	-	-	-	47,500.0
TIF Differential Fee & Impact Fee		4,450.0	-	745.0	-	-	-	-	5,195.0
Equity Transfer		-	-	-	-	12,000.0	-	-	12,000.0
Miscellaneous		4,509.8			98.3				4,608.1
TOTAL REVENUE	\$	485,830.4 \$	47,488.7 \$	39,692.9	49,190.4	\$ 74,984.0	\$ 194,905.7	\$ 72,096.0 \$	964,188.1
EXPENDITURES									
Board of Commissioners	\$	3,913.5 \$	- \$	- \$	S - :	\$ -	\$ -	\$ - \$	3,913.5
General Administration		14,310.4	-	-	_	-	-	-	14,310.4
Monitoring & Research		26,133.7	-	_	_	_	_	-	26,133.7
Procurement & Materials Mgmt.		8,935.6	-	-	_	-	-	-	8,935.6
Human Resources		70,776.2	-	-	_	-	-	-	70,776.2
Information Technology		15,169.3	-	-	-	-	_	-	15,169.3
Law		7,290.0	-	-	_	-	_	-	7,290.0
Finance		3,337.9	-	-	-	-	_	-	3,337.9
Engineering		30,031.4	211,564.6	25,427.2	_	-	-	-	267,023.2
Maintenance & Operations		164,198.9	- '	-	_	-	-	-	164,198.9
Stormwater Management Fund		-	_	_	26,381.2	_	_	-	26,381.2
Retirement Fund		-	_	_	-	74,984.0	_		74,984.0
Bond Redemption & Interest Fund		-	_	_	_	-	194,905.7	-	194,905.7
Reserve Claim Fund							· <u> </u>	44,682.1	44,682.1
TOTAL EXPENDITURES	\$	344,096.9 \$	211,564.6 \$	25,427.2 \$	26,381.2	\$ 74,984.0	\$ 194,905.7	\$ 44,682.1 \$	922,041.7

^{*} The Capital Improvements Bond Fund is budgeted on an "obligation" basis, which records expenditures in the period in which the contracts or grants are awarded.

101 11000 -	Fund: Corporate Department: All	LINE ITEM ANALYSIS								
	Division:	2013		20	014		20)15		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment		
601010	Salaries of Regular Employees	\$161,183,483	\$171,775,200	\$171,345,701	\$119,809,384	\$163,821,000	\$175,071,700	\$175,071,700		
601060	Compensation Plan Adjustments	6,289,964	7,298,900	7,328,900	5,066,868	6,518,100	6,817,000	6,817,000		
601070	Social Security & Medicare Contributions	2,308,358	2,425,000	2,425,000	1,859,508	2,397,800	2,692,800	2,692,800		
601080	Salaries of Nonbudgeted Employees	53,595	127,400	272,400	159,551	218,600	24,800	24,800		
601090	Employee Claims	63,919	100,000	100,000	16,144	60,000	60,200	60,200		
601100	Tuition and Training Payments	770,255	1,419,700	1,419,700	878,137	1,106,100	1,263,900	1,263,900		
601170	Payments for Professional Services	5,469,919	10,793,800	10,612,100	6,208,706	6,892,200	7,203,700	7,203,700		
601250	Health and Life Insurance Premiums	57,299,906	59,646,800	59,646,800	45,812,595	56,284,400	44,526,600	44,526,600		
601270	General Salary Adjustments	-	-	-	-	-	2,249,900	2,249,900		
601300	Personal Services, N.O.C.	209,761	187,500	511,999	223,951	301,300	450,300	450,300		
601410	Personal Services Exp for Prelim Engineering Rpts & Studies	48,100	268,000	275,700	275,094	275,100	50,000	50,000		
100	TOTAL PERSONAL SERVICES	233,697,260	254,042,300	253,938,300	180,309,938	237,874,600	240,410,900	240,410,900		
612010	Travel	45,176	170,500	170,000	40,769	106,300	123,600	123,600		
612030	Meals and Lodging	107,885	285,100	285,100	105,267	222,200	224,900	224,900		
612040	Postage, Freight, and Delivery Charges	120,395	216,000	137,000	101,090	123,800	131,400	131,400		
612050	Compensation for Personally-Owned Automobiles	280,379	373,500	373,900	206,248	295,400	290,100	290,100		
612080	Motor Vehicle Operating Services	74,094	85,200	85,300	55,250	73,400	86,500	86,500		
612090	Reprographic Services	97,370	183,100	183,100	156,543	156,500	111,800	111,800		
612150	Electrical Energy	31,107,430	30,265,100	30,265,100	22,002,259	30,115,100	33,359,100	33,359,100		
612160	Natural Gas	2,241,679	1,779,500	2,789,900	2,323,696	2,769,200	2,432,500	2,432,500		
612170	Water and Water Services	1,337,177	1,374,000	1,374,000	905,775	1,280,700	1,592,700	1,592,700		
612210	Communication Services	1,923,525	1,919,100	2,049,100	1,881,164	1,857,700	1,963,500	1,963,500		
612240	Testing and Inspection Services	127,830	298,700	248,700	118,951	186,900	165,900	166,400		
612250	Court Reporting Services	72,248	131,000	145,000	111,097	125,000	120,000	120,000		
612260	Medical Services	124,236	182,000	275,200	275,010	275,200	227,000	227,000		
612280	Subscriptions and Membership Dues	460,689	933,500	933,000	346,090	544,000	486,600	486,600		
612290	Insurance Premiums	1,000,524	3,300,000	3,291,000	3,291,000	3,291,000	3,500,600	3,500,600		
612330	Rental Charges	220,953	424,700	433,700	303,290	303,800	545,400	545,400		

101 11000 -	Fund: Corporate Department: All			LINE	ITEM ANAI	LYSIS		
	Division:	2013		20	14		20)15
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
612360	Advertising	100,851	175,300	175,300	122,824	161,500	125,000	125,000
612370	Administration Building Operation	988,197	989,100	989,100	946,012	989,100	1,030,000	1,030,000
612390	Administration Building Mc Pav Operation	717,221	675,100	675,100	657,430	668,000	720,000	720,000
612410	Governmental Service Charges	3,313,256	2,775,700	2,775,700	2,180,112	2,772,800	3,197,100	3,197,100
612420	Maintenance of Grounds and Pavements	1,286,729	2,575,300	2,398,500	1,807,525	1,940,100	1,937,600	1,937,600
612490	Contractual Services, N.O.C.	999,429	1,631,500	1,604,500	1,311,812	1,379,400	2,002,100	2,002,100
612520	Waste Material Disposal Charges	8,595,062	12,905,200	12,862,200	12,782,139	9,963,700	14,710,000	14,703,200
612530	Farming Services	24,000	20,000	20,000	20,000	20,000	22,000	22,000
612590	Sludge Disposal	5,201,235	5,400,000	5,400,000	5,361,080	4,030,000	5,522,100	5,522,100
612600	Repairs to Collection Facilities	2,395,749	3,941,800	3,816,900	3,617,372	3,219,300	3,079,000	3,079,000
612620	Repairs to Waterway Facilities	53,450	240,600	240,600	67,790	195,000	111,000	111,000
612650	Repairs to Process Facilities	4,671,899	5,115,200	4,607,900	4,079,888	3,962,200	6,243,000	6,242,500
612670	Repairs to Railroads	169,725	408,400	408,400	236,424	276,000	323,900	323,900
612680	Repairs to Buildings	1,506,206	1,789,900	1,726,300	1,436,905	1,265,000	1,931,800	1,931,800
612760	Repairs to Material Handling and Farming Equipment	287,334	399,000	329,000	318,498	308,900	331,700	331,700
612780	Safety Repairs and Services	407,639	446,200	479,000	395,669	414,200	444,900	444,900
612790	Repairs to Marine Equipment	77,654	143,600	143,600	119,150	116,500	141,300	141,300
612800	Repairs to Office Furniture & Equipment	82,234	147,000	147,000	140,024	72,000	92,500	92,500
612810	Computer Equipment Maintenance	612,257	810,200	670,200	587,736	670,200	642,500	642,500
612820	Computer Software Maintenance	3,251,935	3,511,400	3,280,300	3,124,685	3,257,300	3,677,100	3,677,100
612840	Communications Equipment Maintenance (Includes Software)	514,449	654,500	783,000	752,345	767,100	775,200	775,200
612860	Repairs to Vehicle Equipment	492,903	541,200	620,200	462,189	467,900	525,900	525,900
612970	Repairs to Testing and Laboratory Equipment	447,376	564,500	564,500	459,941	453,300	465,500	465,500
612990	Repairs, N.O.C.	26,407	86,100	86,100	48,130	46,200	35,900	35,900
200	TOTAL CONTRACTUAL SERVICES	75,564,785	87,867,800	87,842,500	73,259,180	79,141,900	93,448,700	93,441,900
623030	Metals	174,167	217,900	217,900	128,878	163,800	194,100	164,100
623070	Electrical Parts and Supplies	1,717,946	2,865,900	2,856,500	2,339,535	2,101,200	1,750,900	1,750,900
623090	Plumbing Accessories and Supplies	905,134	1,632,700	1,631,700	1,237,334	1,282,000	1,082,100	1,062,100

1	Fund: Corporate Department: All	LINE ITEM ANALYSIS									
	Division:	2013		20	014		20	015			
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment			
623110	Hardware	69,057	102,000	112,000	83,436	84,800	88,100	88,100			
623130	Buildings, Grounds, Paving Materials, and Supplies	296,179	504,500	504,500	334,933	337,800	374,100	374,100			
623170	Fiber, Paper, and Insulation Materials	112,593	92,000	92,000	61,358	73,000	54,300	54,300			
623190	Paints, Solvents, and Related Materials	43,032	89,900	89,900	51,599	80,500	44,800	44,800			
623250	Vehicle Parts and Supplies	130,407	289,800	289,800	261,689	216,200	189,900	189,900			
623270	Mechanical Repair Parts	2,400,821	3,530,300	3,530,300	3,093,963	3,038,000	3,049,300	3,049,300			
623300	Manhole Materials	11,245	60,400	60,400	21,155	11,000	11,000	11,000			
623520	Office, Printing, & Photo Supplies, Equipment, & Furniture	296,444	564,500	578,900	477,956	442,000	325,500	331,500			
623530	Farming Supplies	4,793	7,500	7,500	7,447	6,900	9,000	9,000			
623560	Processing Chemicals	5,815,444	7,497,000	7,477,000	7,092,263	6,276,400	9,050,000	9,050,000			
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	897,376	1,011,700	1,012,300	872,417	969,500	959,900	960,700			
623660	Cleaning Supplies	244,954	265,100	265,100	199,558	257,000	250,800	250,800			
623680	Tools and Supplies	262,862	345,700	345,700	310,284	304,500	280,800	280,800			
623700	Wearing Apparel	178,433	236,000	236,000	210,654	224,300	183,200	183,200			
623720	Books, Maps, and Charts	27,597	79,900	79,900	37,703	41,700	39,400	39,400			
623780	Safety and Medical Supplies	411,499	700,500	700,500	498,756	545,100	662,300	662,300			
623800	Computer Software	229,207	302,000	227,000	173,840	213,100	194,400	194,400			
623810	Computer Supplies	526,866	877,600	867,600	641,176	749,900	940,000	940,000			
623820	Fuel	733,336	1,011,000	1,011,000	805,544	878,600	859,200	859,200			
623840	Gases	41,313	116,000	116,000	73,835	112,500	57,000	57,000			
623850	Communications Supplies	89,031	216,100	216,100	170,763	201,300	112,000	112,000			
623860	Lubricants	287,059	329,400	329,400	185,484	298,200	293,500	263,500			
623990	Materials and Supplies, N.O.C.	215,620	616,000	616,000	349,204	467,400	250,400	250,400			
300	TOTAL MATERIALS AND SUPPLIES	16,122,416	23,561,400	23,471,000	19,720,767	19,376,700	21,306,000	21,232,800			
634600	Equipment for Collection Facilities	19,919	49,000	49,000	23,619	30,000	106,000	106,000			
634650	Equipment for Process Facilities	118,506	119,000	119,000	95,499	88,100	128,000	128,000			
634800	Office Furniture and Equipment	31,921	10,000	7,600	-	-	-	-			

101 11000 -	Fund: Corporate Department: All			LINE	ITEM ANA	LYSIS		
1	Division:	2013		20)14		20	015
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
634810	Computer Equipment	45,856	70,000	95,700	89,781	89,800	52,000	52,000
634820	Computer Software	-	70,000	113,000	82,308	83,000	25,500	25,500
634840	Communications Equipment (Includes Software)	7,665	212,500	358,500	358,168	251,200	121,300	121,300
634860	Vehicle Equipment	132,156	60,000	60,000	-	-	-	-
634970	Testing and Laboratory Equipment	402,354	479,500	479,500	403,884	392,700	375,700	375,700
634990	Machinery and Equipment, N.O.C.	38,751	203,000	210,400	192,295	188,900	10,000	90,000
400	TOTAL MACHINERY AND EQUIPMENT	797,129	1,273,000	1,492,700	1,245,553	1,123,700	818,500	898,500
645690	Capital Projects, N.O.C.	-	27,800,000	27,800,000	-	5,800,000	26,000,000	26,000,000
500	TOTAL CAPITAL PROJECTS	-	27,800,000	27,800,000	-	5,800,000	26,000,000	26,000,000
656010	Land	-	50,000	50,000	-	40,000	-	-
600	TOTAL LAND	-	50,000	50,000	-	40,000	-	-
667020	Equity Transfer	30,000,000	-	-	-	-	-	-
667130	Taxes on Real Estate	656,068	750,200	750,200	703,572	740,000	770,000	770,000
700	TOTAL FIXED AND OTHER CHARGES	30,656,068	750,200	750,200	703,572	740,000	770,000	770,000
TOTAL	CORPORATE FUND	356,837,658	395,344,700	395,344,700	275,239,011	344,096,900	382,754,100	382,754,100

^{2.} Departmental appropriation totals for salaries in the Line Item Analysis may differ from those contained in the Position Analysis by a factor identified to adjust for vacancies. Additionally, Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.

101 11000	Fund: Corporate Department: Board of Commissioners			LINE	ITEM ANA	LYSIS		
11000	Division:	2013		20	014		20	015
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 2,997,362	\$ 3,286,600	\$ 3,286,601	\$ 2,290,227	\$ 3,171,400	\$ 3,336,700	\$ 3,336,700
601060	Compensation Plan Adjustments	10,694	84,300	84,300	9,587	76,700	48,100	48,100
601100	Tuition and Training Payments	6,901	25,800	25,800	6,982	15,300	15,000	15,000
601170	Payments for Professional Services	240,277	366,300	366,300	287,746	366,300	355,000	355,000
601300	Personal Services, N.O.C.	209,761	187,500	187,499	177,245	187,500	288,000	288,000
100	TOTAL PERSONAL SERVICES	3,464,995	3,950,500	3,950,500	2,771,787	3,817,200	4,042,800	4,042,800
612010	Travel	4,325	14,600	14,600	4,531	14,600	10,000	10,000
612030	Meals and Lodging	6,136	33,100	33,100	4,610	33,100	20,000	20,000
612040	Postage, Freight, and Delivery Charges	-	100	100	-	100	-	-
612280	Subscriptions and Membership Dues	30,092	31,200	31,200	31,200	31,200	32,700	32,700
612490	Contractual Services, N.O.C.	-	800	800	505	800	1,000	1,000
200	TOTAL CONTRACTUAL SERVICES	40,552	79,800	79,800	40,846	79,800	63,700	63,700
623520	Office, Printing, & Photo Supplies, Equipment, & Furniture	8,625	16,400	16,400	4,542	16,400	10,000	10,000
623990	Materials and Supplies, N.O.C.	-	200	200	22	100	200	200
300	TOTAL MATERIALS AND SUPPLIES	8,625	16,600	16,600	4,564	16,500	10,200	10,200
TOTAL	BOARD OF COMMISSIONERS	\$ 3,514,172	\$ 4,046,900	\$ 4,046,900	\$ 2,817,197	\$ 3,913,500	\$ 4,116,700	\$ 4,116,700

^{2.} Departmental appropriation totals for salaries in the Line Item Analysis may differ from those contained in the Position Analysis by a factor identified to adjust for vacancies.

Additionally, Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.

101 15000	Fund: Corporate Department: General Administration			LINE	ITEM ANA	LYSIS		
	Division:	2013		20)14		20	15
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 8,652,196	\$ 9,425,000	\$ 9,421,500	\$ 6,392,495	\$ 8,450,000	\$ 9,649,800	\$ 9,649,800
601060	Compensation Plan Adjustments	851,040	990,500	990,500	709,200	920,000	834,900	834,900
601080	Salaries of Nonbudgeted Employees	22,264	-	3,500	3,425	3,500	-	-
601100	Tuition and Training Payments	27,910	177,400	177,400	92,846	102,800	50,000	50,000
601170	Payments for Professional Services	570,600	782,400	782,400	581,600	510,000	620,000	620,000
601270	General Salary Adjustments	-	-	-	-	-	2,249,900	2,249,900
100	TOTAL PERSONAL SERVICES	10,124,011	11,375,300	11,375,300	7,779,567	9,986,300	13,404,600	13,404,600
612010	Travel	6,619	10,000	10,000	4,110	4,700	10,000	10,000
612030	Meals and Lodging	13,356	17,200	17,200	14,199	17,000	20,000	20,000
612040	Postage, Freight, and Delivery Charges	108,399	190,700	111,700	85,358	110,000	116,900	116,900
612050	Compensation for Personally-Owned Automobiles	5,335	9,000	9,000	5,692	8,500	5,900	5,900
612080	Motor Vehicle Operating Services	70,046	79,000	79,000	52,959	68,000	80,000	80,000
612090	Reprographic Services	35,746	99,900	99,900	85,636	86,000	53,000	53,000
612150	Electrical Energy	305,824	450,000	450,000	231,289	300,000	365,500	365,500
612160	Natural Gas	33,910	38,000	38,000	26,390	38,000	35,000	35,000
612170	Water and Water Services	4,104	6,000	6,000	3,181	5,400	5,000	5,000
612210	Communication Services	3,000	3,000	3,000	3,000	3,000	3,000	3,000
612280	Subscriptions and Membership Dues	394,870	865,000	865,000	310,039	478,500	450,000	450,000
612330	Rental Charges	12,811	21,500	21,500	15,633	16,000	35,000	35,000
612360	Advertising	8,493	10,000	10,000	4,117	1,200	15,000	15,000
612370	Administration Building Operation	988,197	989,100	989,100	946,012	989,100	1,030,000	1,030,000
612390	Administration Building Mc Pav Operation	717,221	675,100	675,100	657,430	668,000	720,000	720,000
612490	Contractual Services, N.O.C.	155,937	261,700	261,700	218,124	250,000	255,000	255,000
612680	Repairs to Buildings	233,938	397,900	397,900	319,161	377,000	330,000	330,000
612800	Repairs to Office Furniture & Equipment	74,818	134,000	134,000	132,162	60,000	85,000	85,000
612820	Computer Software Maintenance	11,663	6,500	6,500	-	-	-	-
612840	Communications Equipment Maintenance (Includes Software)	15,960	16,000	16,000	15,960	16,000	16,000	16,000

101 15000	Fund: Corporate Department: General Administration			LINE	ITEM ANA	LYSIS		
	Division:	2013		20	014		20	015
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
612860	Repairs to Vehicle Equipment	399,139	388,000	467,000	320,114	335,000	400,000	400,000
612990	Repairs, N.O.C.	-	4,500	4,500	85	500	-	-
200	TOTAL CONTRACTUAL SERVICES	3,599,385	4,672,100	4,672,100	3,450,647	3,831,900	4,030,300	4,030,300
623070	Electrical Parts and Supplies	75,097	20,000	26,000	25,795	24,000	15,000	15,000
623090	Plumbing Accessories and Supplies	17,666	20,000	19,000	16,575	19,000	20,000	20,000
623110	Hardware	16,532	17,000	17,000	13,500	16,000	17,000	17,000
623520	Office, Printing, & Photo Supplies, Equipment, & Furniture	95,180	246,700	241,700	202,241	186,000	125,000	125,000
623660	Cleaning Supplies	1,263	4,500	4,500	4,443	2,400	2,000	2,000
623700	Wearing Apparel	34,934	46,800	46,800	39,282	45,000	40,000	40,000
623720	Books, Maps, and Charts	1,361	24,000	24,000	7,207	5,800	5,000	5,000
623800	Computer Software	-	4,500	4,500	-	-	-	-
623810	Computer Supplies	4,925	5,500	5,500	-	-	-	-
623990	Materials and Supplies, N.O.C.	45,086	72,400	72,400	53,772	44,000	55,500	55,500
300	TOTAL MATERIALS AND SUPPLIES	292,045	461,400	461,400	362,816	342,200	279,500	279,500
634800	Office Furniture and Equipment	31,921	10,000	7,600	-	-	-	-
634990	Machinery and Equipment, N.O.C.	38,751	156,000	158,400	158,400	150,000	10,000	10,000
400	TOTAL MACHINERY AND EQUIPMENT	70,672	166,000	166,000	158,400	150,000	10,000	10,000
667020	Equity Transfer	30,000,000	-	-	-	-	-	-
700	TOTAL FIXED AND OTHER CHARGES	30,000,000	-	-	-	-	-	-
TOTAL	GENERAL ADMINISTRATION	\$ 44,086,113	\$ 16,674,800	\$ 16,674,800	\$ 11,751,431	\$ 14,310,400	\$ 17,724,400	\$ 17,724,400

^{2.} Departmental appropriation totals for salaries in the Line Item Analysis may differ from those contained in the Position Analysis by a factor identified to adjust for vacancies.

Additionally, Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.

101 16000	Fund: Corporate Department: Monitoring & Research			LINE	ITEM ANA	LYSIS		
	Division:	2013		20)14		20)15
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 22,359,189	\$ 24,751,000	\$ 24,676,000	\$ 16,785,146	\$ 23,334,000	\$ 24,707,500	\$ 24,707,500
601060	Compensation Plan Adjustments	493,990	718,500	718,500	526,548	629,000	895,600	895,600
601080	Salaries of Nonbudgeted Employees	-	2,400	117,400	82,458	117,400	-	-
601100	Tuition and Training Payments	51,942	49,000	49,000	32,714	37,000	50,000	50,000
601170	Payments for Professional Services	31,720	456,000	416,000	64,995	105,000	102,300	102,300
100	TOTAL PERSONAL SERVICES	22,936,840	25,976,900	25,976,900	17,491,861	24,222,400	25,755,400	25,755,400
612010	Travel	7,328	35,400	35,400	5,768	15,000	11,200	11,200
612030	Meals and Lodging	18,711	36,400	36,400	16,061	28,000	27,900	27,900
612040	Postage, Freight, and Delivery Charges	5,134	11,300	11,300	7,569	3,800	6,600	6,600
612050	Compensation for Personally-Owned Automobiles	41,268	42,600	42,600	32,803	40,000	45,000	45,000
612080	Motor Vehicle Operating Services	1,256	2,100	2,100	855	2,000	2,700	2,700
612090	Reprographic Services	1,260	3,200	3,200	900	1,500	1,400	1,400
612170	Water and Water Services	663	1,200	1,200	1,200	1,000	600	600
612210	Communication Services	-	1,000	1,000	-	100	-	-
612330	Rental Charges	3,189	5,800	5,800	3,717	3,000	3,300	3,300
612410	Governmental Service Charges	17,000	17,000	17,000	17,000	17,000	17,000	17,000
612490	Contractual Services, N.O.C.	210,807	331,900	331,900	299,250	300,000	303,100	303,100
612790	Repairs to Marine Equipment	26,223	83,600	83,600	62,700	60,000	61,300	61,300
612820	Computer Software Maintenance	100,650	104,000	104,000	103,970	104,000	-	-
612840	Communications Equipment Maintenance (Includes Software)	-	500	500	-	100	-	-
612970	Repairs to Testing and Laboratory Equipment	444,145	555,500	555,500	456,441	450,000	462,800	462,800
612990	Repairs, N.O.C.	1,018	2,700	2,700	2,700	2,000	1,300	1,300
200	TOTAL CONTRACTUAL SERVICES	878,651	1,234,200	1,234,200	1,010,934	1,027,500	944,200	944,200
623520	Office, Printing, & Photo Supplies, Equipment, & Furniture	30,206	48,700	68,100	62,334	40,000	31,000	31,000
623530	Farming Supplies	3,000	2,500	2,500	2,500	2,400	4,000	4,000
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	298,401	409,800	390,400	340,740	350,000	371,600	371,600
623700	Wearing Apparel	14,363	35,500	35,500	35,063	27,500	16,600	16,600

	Fund: Corporate Department: Monitoring & Research			LINE	ITEM ANA	LYSIS		
10000	Division:	2013		20	014		20)15
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Committed Estimated Expenditure sbursement) 12/31/14 09/30/14		Recommended by Committee on Budget and Employment
623720	Books, Maps, and Charts	1,427	8,500	8,500	2,976	3,000	1,000	1,000
623800	Computer Software	-	500	500	-	100	-	-
623810	Computer Supplies	1,612	4,200	4,200	2,449	2,800	2,700	2,700
623820	Fuel	24,611	35,500	35,500	35,000	27,000	35,000	35,000
623850	Communications Supplies	-	2,500	2,500	335	1,000	1,000	1,000
623990	Materials and Supplies, N.O.C.	29,139	79,800	79,800	69,036	55,000	60,300	60,300
300	TOTAL MATERIALS AND SUPPLIES	402,759	627,500	627,500	550,433	508,800	523,200	523,200
634970	Testing and Laboratory Equipment	355,142	459,000	459,000	398,935	375,000	360,000	360,000
400	TOTAL MACHINERY AND EQUIPMENT	355,142	459,000	459,000	398,935	375,000	360,000	360,000
TOTAL	MONITORING & RESEARCH	\$ 24,573,391	\$ 28,297,600	\$ 28,297,600	\$ 19,452,164	\$ 26,133,700	\$ 27,582,800	\$ 27,582,800

21

^{2.} Departmental appropriation totals for salaries in the Line Item Analysis may differ from those contained in the Position Analysis by a factor identified to adjust for vacancies.

Additionally, Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.

Enn de	Cornersta	2012		2014	SITIO	N ANALYSIS 2015
Dept:	Corporate Monitoring & Research	2013		2014		COMMENDED BY
Division:						OMMITTEE ON GET/EMPLOYMENT
PAY PLAN & GRADE	CLASS TITLE	ACTUAL FTEs	BUDGETED FTEs	APPROPRIATION IN DOLLARS	BUDGETED FTEs	APPROPRIATION IN DOLLARS
HP14	Assistant Environmental Chemist	4	4		4	
HP13	Laboratory Technician III	2	2		2	
HP11	Administrative Specialist	-	1		1	
HP11	Laboratory Technician II	6	5		5	
HP10	Laboratory Technician I	8	9		9	
HP09	Administrative Clerk	1	-		-	
HP09	Laboratory Assistant	2	2		2	
TOTAL	Stickney Analytical Laboratory Section	27	27	1,958,810.10	27	1,964,308.06
164	Industrial Waste Analytical Laboratory Section					
HP18	Supervising Environmental Chemist	1	1		1	
HP17	Senior Environmental Chemist	1	1		1	
HP15	Associate Environmental Chemist	2	2		2	
HP14	Assistant Environmental Chemist	3	3		3	
HP13	Laboratory Technician III	2	2		2	
HP11	Laboratory Technician II	6	6		7	
HP11	Laboratory Technician II #4	1	1		-	
HP11	Principal Office Support Specialist #2 (Administrative Specialist)	1	-		-	
HP11	Administrative Specialist	-	1		1	
HP10	Laboratory Technician I	8	7		6	
TOTAL	Industrial Waste Analytical Laboratory Section	25	24	1,807,856.18	23	1,736,220.46
165	Organic Compounds Analytical Laboratory Section					
HP18	Instrumentation Chemist IV	1	1		1	
HP17	Instrumentation Chemist III	2	2		2	
HP16	Instrumentation Chemist II	2	2		2	
HP15	Instrumentation Chemist I	2	2		2	
HP11	Laboratory Technician II	3	3		3	
HP11	Principal Office Support Specialist #2 (Administrative Specialist)	1	-		-	

			1		SITIO	N ANALYSIS
	Corporate Monitoring & Research	2013		2014	REC	2015 COMMENDED BY
Division:			0		CO BUDG	OMMITTEE ON ET/EMPLOYMENT
PAY PLAN & GRADE	CLASS TITLE	ACTUAL FTEs	BUDGETED FTEs	APPROPRIATION IN DOLLARS	BUDGETED FTEs	APPROPRIATION IN DOLLARS
	Administrative Specialist	-	1		1	
TOTAL	Organic Compounds Analytical Laboratory Section	11	11	1,054,494.74	11	1,059,661.72
166	Egan Analytical Laboratory Section					
HP18	Supervising Environmental Chemist	1	1		1	
HP17	Senior Environmental Chemist	1	1		1	
HP15	Associate Environmental Chemist	1	1		1	
HP14	Assistant Environmental Chemist	2	2		3	
HP13	Laboratory Technician III	1	1		-	
HP11	Administrative Specialist	-	-		1	
HP11	Laboratory Technician II	2	2		2	
HP11	Laboratory Technician II #4	1	1		1	
HP10	Laboratory Technician I	7	7		7	
HP09	Laboratory Assistant	2	2		2	
TOTAL	Egan Analytical Laboratory Section	18	18	1,325,436.84	19	1,389,896.56
167	Calumet Analytical Laboratory Section					
HP18	Supervising Environmental Chemist	1	1		1	
HP17	Senior Environmental Chemist	1	1		1	
HP15	Associate Environmental Chemist	2	1		1	
HP14	Assistant Environmental Chemist	1	2		3	
HP13	Laboratory Technician III	2	2		1	
HP11	Laboratory Technician II	2	3		3	
HP11	Principal Office Support Specialist #2 (Administrative Specialist)	1	-		-	
HP11	Administrative Specialist	-	1		1	
HP10	Laboratory Technician I	3	3		4	
HP10	Laboratory Technician I #4	1	1		1	
HP09	Laboratory Assistant	1	1		1	

	Fund: Corporate Department: Procurement & Materials			LINE	ITEM ANA	LYSIS		
	Management Division:	2013		20	014		20)15
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 4,820,233	\$ 5,153,100	\$ 5,153,100	\$ 3,485,644	\$ 4,998,100	\$ 5,211,300	\$ 5,211,300
601060	Compensation Plan Adjustments	59,900	145,500	145,500	10,822	40,500	68,700	68,700
601100	Tuition and Training Payments	848	4,500	4,500	-	1,000	4,500	4,500
100	TOTAL PERSONAL SERVICES	4,880,982	5,303,100	5,303,100	3,496,465	5,039,600	5,284,500	5,284,500
612010	Travel	-	1,400	1,400	378	900	1,400	1,400
612030	Meals and Lodging	-	3,000	3,000	230	1,000	3,000	3,000
612040	Postage, Freight, and Delivery Charges	-	1,900	1,900	-	1,000	-	-
612050	Compensation for Personally-Owned Automobiles	2,103	2,200	2,200	1,453	2,200	2,200	2,200
612080	Motor Vehicle Operating Services	102	300	300	36	300	100	100
612240	Testing and Inspection Services	-	12,300	12,300	-	6,300	-	-
612360	Advertising	92,358	165,300	165,300	118,707	160,300	110,000	110,000
612490	Contractual Services, N.O.C.	-	5,000	5,000	-	5,000	5,000	5,000
612680	Repairs to Buildings	774	3,000	3,000	2,800	3,000	800	800
612800	Repairs to Office Furniture & Equipment	2,136	5,000	5,000	2,770	4,000	2,200	2,200
612820	Computer Software Maintenance	2,360	6,700	6,700	5,500	5,700	2,900	2,900
612840	Communications Equipment Maintenance (Includes Software)	-	2,000	2,000	-	1,000	-	-
612860	Repairs to Vehicle Equipment	11,483	13,000	13,000	13,000	13,000	7,500	7,500
200	TOTAL CONTRACTUAL SERVICES	111,316	221,100	221,100	144,874	203,700	135,100	135,100
623030	Metals	146,805	150,000	150,000	71,882	130,000	151,100	121,100
623070	Electrical Parts and Supplies	299,239	366,300	366,300	324,944	366,300	310,900	310,900
623090	Plumbing Accessories and Supplies	293,372	360,000	360,000	268,494	340,000	302,100	282,100
623110	Hardware	35,096	35,000	45,000	41,686	35,000	39,800	39,800
623130	Buildings, Grounds, Paving Materials, and Supplies	113,436	120,000	120,000	84,483	112,000	104,100	104,100
623170	Fiber, Paper, and Insulation Materials	40,959	41,000	41,000	28,259	36,000	39,300	39,300
623190	Paints, Solvents, and Related Materials	39,854	62,000	62,000	34,584	58,500	39,300	39,300
623250	Vehicle Parts and Supplies	13,177	15,000	15,000	8,549	15,000	9,900	9,900
623270	Mechanical Repair Parts	123,046	140,000	140,000	126,677	140,000	117,000	117,000

101 20000	Fund: Corporate Department: Procurement & Materials	LINE ITEM ANALYSIS										
	Management Division:	2013		20	014		20)15				
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment				
623520	Office, Printing, & Photo Supplies, Equipment, & Furniture	15,578	35,000	35,000	19,069	35,000	16,700	16,700				
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	587,822	575,000	575,000	492,695	575,000	565,800	565,800				
623660	Cleaning Supplies	239,280	250,000	250,000	189,415	250,000	243,700	243,700				
623680	Tools and Supplies	69,579	91,000	91,000	68,826	91,000	66,000	66,000				
623700	Wearing Apparel	123,939	144,000	144,000	129,711	144,000	118,200	118,200				
623720	Books, Maps, and Charts	575	1,500	1,500	-	1,500	-	-				
623780	Safety and Medical Supplies	119,317	124,000	124,000	82,852	117,500	122,600	122,600				
623810	Computer Supplies	89,624	224,000	214,000	48,420	159,000	80,000	80,000				
623820	Fuel	353,702	450,000	450,000	257,181	450,000	369,200	369,200				
623840	Gases	33,728	90,000	90,000	54,193	90,000	45,000	45,000				
623850	Communications Supplies	13,970	10,000	10,000	7,351	10,000	10,000	10,000				
623860	Lubricants	265,846	299,500	299,500	163,386	279,500	268,900	238,900				
623990	Materials and Supplies, N.O.C.	53,618	257,000	257,000	127,113	257,000	53,300	53,300				
300	TOTAL MATERIALS AND SUPPLIES	3,071,562	3,840,300	3,840,300	2,629,773	3,692,300	3,072,900	2,992,900				
634990	Machinery and Equipment, N.O.C.	-	-	-	-	-	-	80,000				
400	TOTAL MACHINERY AND EQUIPMENT	-	-	-	-	-	-	80,000				
TOTAL	PROCUREMENT & MATERIALS MGMT	\$ 8,063,859	\$ 9,364,500	\$ 9,364,500	\$ 6,271,112	\$ 8,935,600	\$ 8,492,500	\$ 8,492,500				

^{2.} Departmental appropriation totals for salaries in the Line Item Analysis may differ from those contained in the Position Analysis by a factor identified to adjust for vacancies. Additionally, Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.

		,	1		SITIO	N ANALYSIS
	Corporate Procurement & Materials Management	2013		2014	REC	2015 COMMENDED BY
Division:	Tocaronent & Materials Management				C	OMMITTEE ON GET/EMPLOYMENT
		JAL 3s	ETED Es	APPROPRIATION		APPROPRIATION
PAY PLAN & GRADE	CLASS TITLE	ACTUAL FTEs	BUDGETED FTEs	IN DOLLARS	BUDGETED FTEs	IN DOLLARS
211	Executive Section					
EX08	Director of Procurement & Materials Management	1	1		1	
HP14	Budget & Management Analyst	-	-		-	
EX06	Secretary to Officer	2	2		2	
TOTAL	Executive Section	3	3	404,486.68	3	404,486.68
215	General & Inventory Control Division					
217	Inventory Control Section					
HP17	Supervising Stores Specialist	1	1		1	
HP16	Materials Planning Supervisor #2 (Senior Stores Specialist) (New Grade HP15)	1	1		1	
HP12	Materials Planner	5	-		-	
HP12	Stores Specialist	-	5		5	
TOTAL	Inventory Control Section	7	7	548,415.14	7	556,901.02
TOTAL	General & Inventory Control Division	7	7	548,415.14	7	556,901.02
220	Acquisition Division					
221	Administrative Section					
HP20	Assistant Director of Procurement & Materials Management	1	1		1	
HP14	Budget & Management Analyst	-	-		1	
HP13	Senior Administrative Specialist	1	1		1	
HP12	Administrative Assistant #2 (Administrative Specialist) (New Grade HP11)	3	3		2	
HP11	Administrative Specialist	-	-		1	
TOTAL	Administrative Section	5	5	490,046.96	6	528,117.20
222	Buying Section					
HP18	Head Buyer	1	1		1	
HP17	Buyer III #2 (Senior Buyer) (New Grade HP16)	2	2		2	
HP16	Senior Buyer	4	4		4	
HP14	Buyer I	4	-		-	
HP14	Buyer	-	4		4	
HP11	Principal Office Support Specialist #2 (Administrative Specialist)	1	-		_	

Fund:	Corporate	2013		POS	SITIO	N ANALYSIS 2015
Dept:	Procurement & Materials Management	2013		2011		OMMENDED BY OMMITTEE ON
Division:			0		BUDG	ET/EMPLOYMENT
PAY PLAN & GRADE	CLASS TITLE	ACTUAL FTEs	BUDGETED FTEs	APPROPRIATION IN DOLLARS	BUDGETED FTEs	APPROPRIATION IN DOLLARS
HP11	Administrative Specialist	-	1		-	
TOTAL	Buying Section	12	12	1,218,516.26	11	1,168,637.60
224	Clerical Section					
HP11	Principal Office Support Specialist #2 (Administrative Specialist)	1	-		-	
HP11	Administrative Specialist	-	1		2	
HP09	Administrative Clerk	2	2		2	
TOTAL	Clerical Section	3	3	147,557.28	4	212,136.08
TOTAL	Acquisition Division	20	20	1,856,120.50	21	1,908,890.88
225	Stores & Inventory Division					
226	Administrative Section					
HP19	Stores & Inventory Manager	1	1		1	
HP15	Senior Stores Specialist	1	1		1	
TOTAL	Administrative Section	2	2	249,693.08	2	255,607.30
230	Stores Section					
231	Stores Administrative Unit					
HP17	Supervising Stores Specialist	1	1		1	
TOTAL	Stores Administrative Unit	1	1	113,741.16	1	118,907.36
232	Stickney Storeroom Unit					
HP11	Principal Office Support Specialist #2 (Administrative Specialist)	1	-		-	
HP11	Administrative Specialist	-	1		1	
HP09	Administrative Clerk	2	2		2	
NR1857	Principal Storekeeper	2	2		2	
NR1853	Storekeeper	8	8		8	
NR8651	Maintenance Laborer Class A	1	1		1	
NR1835	Materials Handler Laborer	1	1		-	
NR1835	Materials Handler Laborer #1	-	-		1	
TOTAL	Stickney Storeroom Unit	15	15	1,055,790.06	15	1,055,790.06

101 25000	Fund: Corporate Department: Human Resources			LINE ITEM ANALYSIS 2014 2015						
2000	Division:	2013		20	014		20)15		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment		
601010	Salaries of Regular Employees	\$ 5,127,754	\$ 5,939,800	\$ 5,588,800	\$ 3,870,075	\$ 5,394,800	\$ 5,761,300	\$ 5,761,300		
601060	Compensation Plan Adjustments	75,142	308,600	308,600	139,878	237,800	149,000	149,000		
601070	Social Security & Medicare Contributions	2,308,358	2,425,000	2,425,000	1,859,508	2,397,800	2,692,800	2,692,800		
601080	Salaries of Nonbudgeted Employees	-	20,000	46,500	30,128	46,100	-	-		
601090	Employee Claims	63,919	100,000	100,000	16,144	60,000	60,200	60,200		
601100	Tuition and Training Payments	317,265	520,700	520,700	292,149	425,000	667,600	667,600		
601170	Payments for Professional Services	918,886	1,886,500	1,782,500	1,301,438	1,459,900	1,323,900	1,323,900		
601250	Health and Life Insurance Premiums	57,299,906	59,646,800	59,646,800	45,812,595	56,284,400	44,526,600	44,526,600		
601300	Personal Services, N.O.C.	-	-	324,500	46,706	113,800	162,300	162,300		
100	TOTAL PERSONAL SERVICES	66,111,230	70,847,400	70,743,400	53,368,621	66,419,600	55,343,700	55,343,700		
612010	Travel	2,498	8,500	8,500	4,223	4,300	4,200	4,200		
612030	Meals and Lodging	4,667	17,900	17,900	6,533	11,200	8,000	8,000		
612040	Postage, Freight, and Delivery Charges	1,917	4,000	4,000	2,583	3,000	2,500	2,500		
612050	Compensation for Personally-Owned Automobiles	10,331	10,400	10,400	4,783	8,600	8,100	8,100		
612080	Motor Vehicle Operating Services	-	-	-	-	-	100	100		
612250	Court Reporting Services	14,172	13,000	27,000	26,000	25,000	20,000	20,000		
612260	Medical Services	124,236	182,000	275,200	275,010	275,200	227,000	227,000		
612280	Subscriptions and Membership Dues	2,026	4,000	3,500	3,000	3,000	3,900	3,900		
612290	Insurance Premiums	1,000,524	3,300,000	3,291,000	3,291,000	3,291,000	3,500,600	3,500,600		
612330	Rental Charges	21,919	21,500	30,500	22,105	30,000	19,800	19,800		
612490	Contractual Services, N.O.C.	39,501	58,400	58,400	52,052	57,000	56,800	56,800		
612780	Safety Repairs and Services	293,570	241,200	274,000	224,207	258,900	224,000	224,000		
612820	Computer Software Maintenance	87,958	95,700	94,800	89,846	79,800	91,800	91,800		
200	TOTAL CONTRACTUAL SERVICES	1,603,318	3,956,600	4,095,200	4,001,342	4,047,000	4,166,800	4,166,800		
623520	Office, Printing, & Photo Supplies, Equipment, & Furniture	31,493	55,500	55,500	50,330	28,000	18,100	18,100		
623720	Books, Maps, and Charts	3,209	9,000	9,000	1,740	2,700	6,400	6,400		
623780	Safety and Medical Supplies	80,046	358,800	358,800	275,464	272,900	365,000	365,000		
623990	Materials and Supplies, N.O.C.	2,892	8,700	8,700	1,402	6,000	8,000	8,000		

101 25000	Fund: Corporate Department: Human Resources Division:	LINE ITEM ANALYSIS							
		2013 2014					2015		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment	
300	TOTAL MATERIALS AND SUPPLIES	117,640	432,000	432,000	328,937	309,600	397,500	397,500	
634820	Computer Software	-	30,000	30,000	-	-	-	-	
400	TOTAL MACHINERY AND EQUIPMENT	-	30,000	30,000	-	-	-	-	
TOTAL	HUMAN RESOURCES	\$ 67,832,188	\$ 75,266,000	\$ 75,300,600	\$ 57,698,901	\$ 70,776,200	\$ 59,908,000	\$ 59,908,000	

29

^{2.} Departmental appropriation totals for salaries in the Line Item Analysis may differ from those contained in the Position Analysis by a factor identified to adjust for vacancies. Additionally, Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.

101 27000	Fund: Corporate Department: Information Technology	LINE ITEM ANALYSIS						
2,000	Division:	2013		20	2015			
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 7,212,821	\$ 7,718,200	\$ 7,718,200	\$ 5,152,305	\$ 7,237,000	\$ 7,746,600	\$ 7,746,600
601060	Compensation Plan Adjustments	234,298	163,000	163,000	81,524	90,000	137,100	137,100
601100	Tuition and Training Payments	72,874	157,200	157,200	148,153	90,000	90,000	90,000
601170	Payments for Professional Services	300,426	585,600	585,600	486,591	475,000	435,000	435,000
100	TOTAL PERSONAL SERVICES	7,820,419	8,624,000	8,624,000	5,868,572	7,892,000	8,408,700	8,408,700
612010	Travel	827	12,000	12,000	1,679	12,000	5,000	5,000
612030	Meals and Lodging	557	17,000	17,000	1,501	17,000	10,000	10,000
612050	Compensation for Personally-Owned Automobiles	4,767	7,000	7,000	3,942	5,000	5,000	5,000
612080	Motor Vehicle Operating Services	226	-	-	-	-	100	100
612210	Communication Services	1,319,190	1,280,400	1,410,400	1,350,967	1,351,000	1,390,600	1,390,600
612280	Subscriptions and Membership Dues	33,700	26,000	26,000	1,552	24,000	-	-
612330	Rental Charges	-	185,000	185,000	100,367	100,400	310,000	310,000
612490	Contractual Services, N.O.C.	319	4,000	14,000	9,945	13,000	32,000	32,000
612810	Computer Equipment Maintenance	611,469	810,200	670,200	587,736	670,200	642,500	642,500
612820	Computer Software Maintenance	2,982,585	3,293,500	3,063,300	2,925,369	3,063,300	3,577,400	3,577,400
612840	Communications Equipment Maintenance (Includes Software)	467,864	577,000	705,500	699,862	700,000	719,200	719,200
612990	Repairs, N.O.C.	-	1,000	1,000	-	900	-	-
200	TOTAL CONTRACTUAL SERVICES	5,421,505	6,213,100	6,111,400	5,682,920	5,956,800	6,691,800	6,691,800
623520	Office, Printing, & Photo Supplies, Equipment, & Furniture	7,058	24,300	24,300	13,008	24,300	18,500	18,500
623720	Books, Maps, and Charts	644	1,900	1,900	599	1,700	400	400
623800	Computer Software	217,875	267,500	192,500	166,720	192,500	187,800	187,800
623810	Computer Supplies	386,612	600,000	600,000	570,681	550,000	838,300	838,300
623850	Communications Supplies	74,159	145,500	145,500	128,001	145,500	90,000	90,000
623990	Materials and Supplies, N.O.C.	-	500	500	-	500	100	100
300	TOTAL MATERIALS AND SUPPLIES	686,349	1,039,700	964,700	879,008	914,500	1,135,100	1,135,100
634810	Computer Equipment	45,856	70,000	95,700	89,781	89,800	52,000	52,000
634820	Computer Software	-	40,000	40,000	39,348	40,000	25,500	25,500

101 27000	Fund: Corporate Department: Information Technology	LINE ITEM ANALYSIS							
	Division:	2013		20	2015				
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment	
634840	Communications Equipment (Includes Software)	7,665	212,500	358,500	358,168	251,200	121,300	121,300	
634990	Machinery and Equipment, N.O.C.	-	20,000	25,000	25,000	25,000	-	-	
400	TOTAL MACHINERY AND EQUIPMENT	53,521	342,500	519,200	512,297	406,000	198,800	198,800	
TOTAL	INFORMATION TECHNOLOGY	\$ 13,981,794	\$ 16,219,300	\$ 16,219,300	\$ 12,942,797	\$ 15,169,300	\$ 16,434,400	\$ 16,434,400	

^{2.} Departmental appropriation totals for salaries in the Line Item Analysis may differ from those contained in the Position Analysis by a factor identified to adjust for vacancies.

Additionally, Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.

101 30000	Fund: Corporate Department: Law	LINE ITEM ANALYSIS						
	Division:	2013	2014			2015		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 4,168,324	\$ 4,241,400	\$ 4,241,400	\$ 3,082,665	\$ 4,241,000	\$ 4,567,700	\$ 4,567,700
601060	Compensation Plan Adjustments	10,793	66,500	66,500	-	50,000	44,600	44,600
601100	Tuition and Training Payments	7,413	18,000	18,000	6,953	17,000	14,000	14,000
601170	Payments for Professional Services	1,980,691	2,876,400	2,876,400	2,016,218	2,000,000	2,066,400	2,066,400
100	TOTAL PERSONAL SERVICES	6,167,220	7,202,300	7,202,300	5,105,836	6,308,000	6,692,700	6,692,700
612010	Travel	3,914	11,000	11,000	1,711	10,000	6,000	6,000
612030	Meals and Lodging	1,964	11,000	11,000	2,122	10,000	9,000	9,000
612040	Postage, Freight, and Delivery Charges	757	2,000	2,000	1,366	1,000	1,000	1,000
612050	Compensation for Personally-Owned Automobiles	482	3,000	3,000	1,070	2,500	3,000	3,000
612090	Reprographic Services	51,550	56,000	56,000	55,362	54,000	48,000	48,000
612250	Court Reporting Services	12,982	68,000	68,000	35,097	50,000	50,000	50,000
612490	Contractual Services, N.O.C.	74,556	87,500	87,500	75,921	84,000	77,000	77,000
612990	Repairs, N.O.C.	-	900	900	-	200	-	-
200	TOTAL CONTRACTUAL SERVICES	146,206	239,400	239,400	172,650	211,700	194,000	194,000
623520	Office, Printing, & Photo Supplies, Equipment, & Furniture	3,423	8,500	8,500	6,138	8,300	7,000	7,000
623720	Books, Maps, and Charts	10,885	20,100	20,100	19,645	19,000	17,000	17,000
623990	Materials and Supplies, N.O.C.	1,796	3,400	3,400	275	3,000	2,000	2,000
300	TOTAL MATERIALS AND SUPPLIES	16,104	32,000	32,000	26,058	30,300	26,000	26,000
667130	Taxes on Real Estate	656,068	750,200	750,200	703,572	740,000	770,000	770,000
700	TOTAL FIXED AND OTHER CHARGES	656,068	750,200	750,200	703,572	740,000	770,000	770,000
TOTAL 1	LAW	\$ 6,985,598	\$ 8,223,900	\$ 8,223,900	\$ 6,008,116	\$ 7,290,000	\$ 7,682,700	\$ 7,682,700

^{2.} Departmental appropriation totals for salaries in the Line Item Analysis may differ from those contained in the Position Analysis by a factor identified to adjust for vacancies. Additionally, Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.

101 40000	Fund: Corporate Department: Finance			LINE	ITEM ANA	LYSIS		
	Division:	2013		20)14		20)15
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 2,889,730	\$ 2,970,300	\$ 2,970,300	\$ 2,072,734	\$ 2,750,000	\$ 3,029,000	\$ 3,029,000
601060	Compensation Plan Adjustments	68,623	47,200	77,200	49,409	75,000	38,800	38,800
601100	Tuition and Training Payments	28,368	30,000	30,000	16,444	30,000	28,400	28,400
601170	Payments for Professional Services	320,577	395,800	365,800	267,570	319,000	288,600	288,600
100	TOTAL PERSONAL SERVICES	3,307,299	3,443,300	3,443,300	2,406,158	3,174,000	3,384,800	3,384,800
612010	Travel	3,687	7,500	7,000	2,319	7,000	2,900	2,900
612030	Meals and Lodging	6,946	8,000	8,000	2,227	8,000	4,800	4,800
612040	Postage, Freight, and Delivery Charges	3,205	4,000	4,000	2,214	4,000	3,400	3,400
612050	Compensation for Personally-Owned Automobiles	144	300	700	692	700	100	100
612080	Motor Vehicle Operating Services	-	-	100	-	100	-	-
612090	Reprographic Services	1,875	2,500	2,500	2,145	2,500	2,400	2,400
612250	Court Reporting Services	45,093	50,000	50,000	50,000	50,000	50,000	50,000
612490	Contractual Services, N.O.C.	5,069	76,500	76,500	74,691	74,600	900	900
612800	Repairs to Office Furniture & Equipment	5,280	8,000	8,000	5,093	8,000	5,300	5,300
612810	Computer Equipment Maintenance	788	-	-	-	-	-	-
200	TOTAL CONTRACTUAL SERVICES	72,086	156,800	156,800	139,381	154,900	69,800	69,800
623520	Office, Printing, & Photo Supplies, Equipment, & Furniture	11,164	7,000	7,000	6,649	7,000	7,400	7,400
623720	Books, Maps, and Charts	1,212	1,500	1,500	257	1,500	1,300	1,300
623800	Computer Software	184	-	-	-	-	-	-
623990	Materials and Supplies, N.O.C.	100	500	500	18	500	100	100
300	TOTAL MATERIALS AND SUPPLIES	12,660	9,000	9,000	6,924	9,000	8,800	8,800
TOTAL	FINANCE	\$ 3,392,045	\$ 3,609,100	\$ 3,609,100	\$ 2,552,463	\$ 3,337,900	\$ 3,463,400	\$ 3,463,400

^{2.} Departmental appropriation totals for salaries in the Line Item Analysis may differ from those contained in the Position Analysis by a factor identified to adjust for vacancies.

Additionally, Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.

		Corporate Iaintenance & Operations	LINE ITEM ANALYSIS							
	_	ll Divisions	2013		20)14		20)15	
Account Number	Ac	ecount Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment	
601010	Salaries of Regula	ar Employees	\$ 79,976,061	\$ 83,471,500	\$ 83,471,500	\$ 59,365,119	\$ 81,984,900	\$ 86,149,500	\$ 86,149,500	
601060	Compensation Pla	an Adjustments	4,240,182	4,286,600	4,286,600	3,322,527	4,149,100	4,361,200	4,361,200	
601080	Salaries of Nonbu	dgeted Employees	31,330	100,000	100,000	43,540	51,600	24,800	24,800	
601100	Tuition and Train	ing Payments	160,321	301,100	301,100	179,541	264,300	248,000	248,000	
601170	Payments for Prof	Pessional Services	713,626	900,400	900,400	727,934	758,000	682,700	682,700	
100	TOTAL PERSON	IAL SERVICES	85,121,521	89,059,600	89,059,600	63,638,661	87,207,900	91,466,200	91,466,200	
612010	Travel		7,610	34,000	34,000	8,748	19,200	62,900	62,900	
612030	Meals and Lodgin	ng	41,025	89,500	89,500	40,019	71,500	102,200	102,200	
612050	Compensation for Automobiles	Personally-Owned	179,050	259,000	259,000	125,880	188,100	181,900	181,900	
612080	Motor Vehicle Op	perating Services	1,536	2,800	2,800	805	2,100	2,500	2,500	
612150	Electrical Energy		30,801,606	29,815,100	29,815,100	21,770,970	29,815,100	32,993,600	32,993,600	
612160	Natural Gas		2,207,769	1,741,500	2,751,900	2,297,306	2,731,200	2,397,500	2,397,500	
612170	Water and Water	Services	1,329,275	1,363,300	1,363,300	897,895	1,271,000	1,583,900	1,583,900	
612210	Communication S	ervices	601,334	634,700	634,700	527,196	503,600	569,900	569,900	
612240	Testing and Inspe	ction Services	127,830	286,400	236,400	118,951	180,600	165,900	166,400	
612280	Subscriptions and	Membership Dues	-	7,300	7,300	299	7,300	-	-	
612330	Rental Charges		182,547	184,600	184,600	157,188	150,100	177,300	177,300	
612410	Governmental Ser	vice Charges	3,296,256	2,758,700	2,758,700	2,163,112	2,755,800	3,180,100	3,180,100	
612420	Maintenance of G	rounds and Pavements	1,286,729	2,575,300	2,398,500	1,807,525	1,940,100	1,937,600	1,937,600	
612490	Contractual Servi	ces, N.O.C.	434,629	651,200	614,200	492,707	506,300	692,600	692,600	
612520	Waste Material D	isposal Charges	8,595,062	12,905,200	12,862,200	12,782,139	9,963,700	14,710,000	14,703,200	
612530	Farming Services		24,000	20,000	20,000	20,000	20,000	22,000	22,000	
612590	Sludge Disposal		5,201,235	5,400,000	5,400,000	5,361,080	4,030,000	5,522,100	5,522,100	
612600	Repairs to Collect	ion Facilities	2,395,749	3,941,800	3,816,900	3,617,372	3,219,300	3,079,000	3,079,000	
612620	Repairs to Waterv	vay Facilities	53,450	115,600	115,600	67,790	95,000	101,000	101,000	
612650	Repairs to Process	s Facilities	4,671,899	5,115,200	4,607,900	4,079,888	3,962,200	6,243,000	6,242,500	
612670	Repairs to Railroa	ads	169,725	408,400	408,400	236,424	276,000	323,900	323,900	
612680	Repairs to Building	ngs	1,271,494	1,389,000	1,325,400	1,114,944	885,000	1,601,000	1,601,000	

34

	Fund: Corporate Department: Maintenance	ce & Operations			LINE	ITEM ANAI	LYSIS		
	Division: All Divisio		2013		20)14		20)15
Account Number	Account Na		Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
612760	Repairs to Material Handlin Equipment	ng and Farming	287,334	399,000	329,000	318,498	308,900	331,700	331,700
612780	Safety Repairs and Services	s	114,069	205,000	205,000	171,462	155,300	220,900	220,900
612790	Repairs to Marine Equipme	ent	51,431	60,000	60,000	56,450	56,500	80,000	80,000
612820	Computer Software Mainte	nance	66,720	5,000	5,000	-	4,500	5,000	5,000
612840	Communications Equipment Maintenance (Includes Software)		30,625	57,000	57,000	36,523	49,500	40,000	40,000
612860	Repairs to Vehicle Equipme	ent	82,280	140,200	140,200	129,075	119,900	118,400	118,400
612970	Repairs to Testing and Laborate	oratory Equipment	572	3,000	3,000	-	400	-	-
612990	Repairs, N.O.C.		10,823	52,900	52,900	30,313	27,400	15,800	15,800
200	TOTAL CONTRACTUAL	SERVICES	63,523,667	70,620,700	70,558,500	58,430,557	63,315,600	76,461,700	76,454,900
623030	Metals		27,362	67,900	67,900	56,996	33,800	43,000	43,000
623070	Electrical Parts and Supplie	es	1,343,610	2,479,600	2,464,200	1,988,796	1,710,900	1,425,000	1,425,000
623090	Plumbing Accessories and	Supplies	594,097	1,252,700	1,252,700	952,265	923,000	760,000	760,000
623110	Hardware		17,429	50,000	50,000	28,250	33,800	31,300	31,300
623130	Buildings, Grounds, Paving Supplies	g Materials, and	182,743	384,500	384,500	250,449	225,800	270,000	270,000
623170	Fiber, Paper, and Insulation	n Materials	71,634	51,000	51,000	33,099	37,000	15,000	15,000
623190	Paints, Solvents, and Relate	ed Materials	3,178	27,900	27,900	17,015	22,000	5,500	5,500
623250	Vehicle Parts and Supplies		117,230	274,800	274,800	253,140	201,200	180,000	180,000
623270	Mechanical Repair Parts		2,277,775	3,390,300	3,390,300	2,967,286	2,898,000	2,932,300	2,932,300
623300	Manhole Materials		11,245	60,400	60,400	21,155	11,000	11,000	11,000
623520	Office, Printing, & Photo S Equipment, & Furniture	upplies,	48,502	72,900	72,900	66,437	54,000	50,800	56,800
623530	Farming Supplies		1,793	5,000	5,000	4,947	4,500	5,000	5,000
623560	Processing Chemicals		5,815,444	7,497,000	7,477,000	7,092,263	6,276,400	9,050,000	9,050,000
623570	Laboratory Testing Supplie Equipment, and Chemicals		11,153	26,900	46,900	38,982	44,500	22,500	23,300
623660	Cleaning Supplies		4,411	10,600	10,600	5,700	4,600	5,100	5,100
623680	Tools and Supplies		193,283	254,700	254,700	241,458	213,500	214,800	214,800
623700	Wearing Apparel		2,710	4,700	4,700	1,598	3,300	2,900	2,900

101 60000	Fund: Corporate Department: Maintenance & Operations			LINE	ITEM ANA	LYSIS		
00000	Division: All Divisions	2013		20)14		20)15
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
623720	Books, Maps, and Charts	1,360	3,100	3,100	180	1,400	1,400	1,400
623780	Safety and Medical Supplies	212,136	217,700	217,700	140,439	154,700	174,700	174,700
623800	Computer Software	11,148	24,500	24,500	7,120	20,500	6,600	6,600
623810	Computer Supplies	44,092	43,900	43,900	19,627	38,100	19,000	19,000
623820	Fuel	355,023	525,500	525,500	513,362	401,600	455,000	455,000
623840	Gases	7,585	26,000	26,000	19,642	22,500	12,000	12,000
623850	Communications Supplies	903	58,100	58,100	35,076	44,800	11,000	11,000
623860	Lubricants	21,213	29,900	29,900	22,098	18,700	24,600	24,600
623990	Materials and Supplies, N.O.C.	81,344	175,000	175,000	94,025	92,000	65,900	65,900
300	TOTAL MATERIALS AND SUPPLIES	11,458,403	17,014,600	16,999,200	14,871,407	13,491,600	15,794,400	15,801,200
634600	Equipment for Collection Facilities	19,919	49,000	49,000	23,619	30,000	106,000	106,000
634650	Equipment for Process Facilities	118,506	119,000	119,000	95,499	88,100	128,000	128,000
634820	Computer Software	-	-	43,000	42,960	43,000	-	-
634860	Vehicle Equipment	132,156	60,000	60,000	-	-	-	-
634970	Testing and Laboratory Equipment	47,213	20,500	20,500	4,949	17,700	15,700	15,700
634990	Machinery and Equipment, N.O.C.	-	15,000	15,000	-	5,000	-	-
400	TOTAL MACHINERY AND EQUIPMENT	317,794	263,500	306,500	167,026	183,800	249,700	249,700
TOTAL	MAINTENANCE & OPERATIONS	\$160,421,384	\$176,958,400	\$176,923,800	\$137,107,651	\$164,198,900	\$183,972,000	\$183,972,000

^{2.} Departmental appropriation totals for salaries in the Line Item Analysis may differ from those contained in the Position Analysis by a factor identified to adjust for vacancies. Additionally, Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.

101 66000	Fund: Corporate Department: Maintenance & Operations	LINE ITEM ANALYSIS								
	Division: General	2013		20)14		20	015		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment		
601010	Salaries of Regular Employees	\$ 8,889,732	\$ 8,715,400	\$ 8,715,400	\$ 5,976,725	\$ 8,532,400	\$ 8,864,600	\$ 8,864,600		
601060	Compensation Plan Adjustments	480,026	470,900	470,900	311,411	420,000	402,700	402,700		
601080	Salaries of Nonbudgeted Employees	31,330	100,000	50,000	-	-	24,800	24,800		
601100	Tuition and Training Payments	16,018	20,000	20,000	13,520	19,000	25,000	25,000		
601170	Payments for Professional Services	457,214	668,400	668,400	515,934	571,100	600,700	600,700		
100	TOTAL PERSONAL SERVICES	9,874,319	9,974,700	9,924,700	6,817,590	9,542,500	9,917,800	9,917,800		
612010	Travel	1,559	11,000	11,000	1,814	9,000	7,900	7,900		
612030	Meals and Lodging	4,458	19,500	19,500	3,851	18,000	12,200	12,200		
612050	Compensation for Personally-Owned Automobiles	12,610	11,000	11,000	7,712	11,000	7,000	7,000		
612080	Motor Vehicle Operating Services	195	500	500	314	500	400	400		
612150	Electrical Energy	50,633	52,700	52,700	43,082	52,700	53,000	53,000		
612160	Natural Gas	2,385	4,200	4,200	2,287	4,000	2,500	2,500		
612170	Water and Water Services	22,709	26,200	26,200	19,683	26,200	30,000	30,000		
612210	Communication Services	201,152	210,000	210,000	209,143	155,000	170,000	170,000		
612240	Testing and Inspection Services	6,192	7,800	7,800	5,175	7,100	6,500	6,500		
612330	Rental Charges	8,380	9,900	9,900	9,900	5,000	7,300	7,300		
612410	Governmental Service Charges	13,660	21,000	21,000	20,900	21,000	22,000	22,000		
612420	Maintenance of Grounds and Pavements	139,953	331,000	331,000	282,769	295,300	27,400	27,400		
612490	Contractual Services, N.O.C.	143,537	102,900	102,900	79,451	80,000	154,600	154,600		
612520	Waste Material Disposal Charges	7,182,428	11,390,300	11,338,600	11,293,732	8,717,600	13,000,000	13,000,000		
612600	Repairs to Collection Facilities	661,348	1,463,800	1,463,800	1,381,414	1,303,800	547,100	547,100		
612620	Repairs to Waterway Facilities	53,450	115,600	115,600	67,790	95,000	85,000	85,000		
612650	Repairs to Process Facilities	5,110	36,000	36,000	32,000	36,000	31,500	31,500		
612680	Repairs to Buildings	22,203	44,000	44,000	36,320	27,400	21,000	21,000		
612760	Repairs to Material Handling and Farming Equipment	200,138	214,000	214,000	214,000	214,000	214,000	214,000		
612780	Safety Repairs and Services	5,803	67,000	67,000	47,000	45,000	50,000	50,000		
612790	Repairs to Marine Equipment	51,431	60,000	60,000	56,450	56,500	80,000	80,000		
612820	Computer Software Maintenance	66,720	5,000	5,000	-	4,500	5,000	5,000		
612860	Repairs to Vehicle Equipment	23,328	35,000	35,000	35,000	34,000	35,000	35,000		
612990	Repairs, N.O.C.	-	3,500	3,500	2,721	3,000	800	800		

101 66000	Fund: Corporate Department: Maintenance & Operations	LINE ITEM ANALYSIS							
00000	Division: General	2013		20	014		20	15	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment	
200	TOTAL CONTRACTUAL SERVICES	8,879,382	14,241,900	14,190,200	13,852,506	11,221,600	14,570,200	14,570,200	
623030	Metals	-	3,500	4,700	4,606	3,500	-	-	
623070	Electrical Parts and Supplies	32,168	41,000	41,000	15,035	20,900	25,000	25,000	
623090	Plumbing Accessories and Supplies	6,705	25,800	25,800	25,391	8,000	10,000	10,000	
623110	Hardware	809	8,600	8,600	6,381	1,000	2,000	2,000	
623130	Buildings, Grounds, Paving Materials, and Supplies	36,765	45,000	45,000	43,518	15,000	80,000	80,000	
623250	Vehicle Parts and Supplies	33,020	125,000	125,000	111,041	88,000	85,000	85,000	
623270	Mechanical Repair Parts	95,818	142,900	142,900	104,913	53,000	100,000	100,000	
623300	Manhole Materials	11,245	60,400	60,400	21,155	11,000	11,000	11,000	
623520	Office, Printing, & Photo Supplies, Equipment, & Furniture	8,361	8,500	8,500	7,831	7,500	7,500	7,500	
623560	Processing Chemicals	44,808	151,000	151,000	132,978	141,000	250,000	250,000	
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	-	2,500	2,500	-	2,500	2,500	2,500	
623660	Cleaning Supplies	235	600	600	470	500	400	400	
623680	Tools and Supplies	24,260	19,200	19,200	16,901	9,200	25,000	25,000	
623700	Wearing Apparel	1,725	3,200	3,200	1,098	2,000	2,000	2,000	
623780	Safety and Medical Supplies	7,723	12,800	12,800	12,015	12,000	8,000	8,000	
623800	Computer Software	-	2,000	2,000	946	1,000	-	-	
623820	Fuel	188,532	221,000	221,000	221,000	195,000	220,000	220,000	
623990	Materials and Supplies, N.O.C.	22,120	25,000	25,000	18,811	22,700	30,000	30,000	
300	TOTAL MATERIALS AND SUPPLIES	514,293	898,000	899,200	744,089	593,800	858,400	858,400	
634820	Computer Software	-	-	43,000	42,960	43,000	-	-	
400	TOTAL MACHINERY AND EQUIPMENT	-	-	43,000	42,960	43,000	-	-	
TOTAL	GENERAL DIVISION	\$ 19,267,994	\$ 25,114,600	\$ 25,057,100	\$ 21,457,145	\$ 21,400,900	\$ 25,346,400	\$ 25,346,400	

38

^{2.} Departmental appropriation totals for salaries in the Line Item Analysis may differ from those contained in the Position Analysis by a factor identified to adjust for vacancies. Additionally, Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.

					SITIO	N ANALYSIS
	Corporate Maintenance & Operations	2013		2014	REC	2015 COMMENDED BY
Division:					CO BUDG	OMMITTEE ON SET/EMPLOYMENT
PAY PLAN & GRADE	CLASS TITLE	ACTUAL FTEs	BUDGETED FTEs	APPROPRIATION IN DOLLARS	BUDGETED FTEs	APPROPRIATION IN DOLLARS
HP14	Engineering Technician V	1	В -		- В	
NR8331	Laborer Foreman	3	-		-	
NR8650	Maintenance Laborer Class A Shift	7	-		-	
PR6473	Truck Driver	3	-		-	
TOTAL	Collection System Unit South Service Area	16	-	-	-	-
679	Collection System Unit (formerly Collection System Unit Central Service Area) (* Number of positions budgeted and funded by the Stormwater Management Fund a	appears t	pelow po	osition count)		
HP17	Senior Civil Engineer	1	2		2	
HP15	Associate Civil Engineer	1	2		2	
HP14	Assistant Civil Engineer	-	1		1	
HP14	Engineering Technician V	1	4		4	
HP14	Engineering Technician V #4	1	-		-	
HP12	Engineering Technician IV	1	1		1	
HP12	Engineering Technician IV #1	-	-		1	
HP11	Engineering Technician III	1	1		1	
NR8331	Laborer Foreman	2 (*1)	5 (*1)		5 (*1)	
NR8650	Maintenance Laborer Class A Shift	4 (*4)	13 (*4)		13 (*4)	
PR6473	Truck Driver	3 (*1)	6 (*1)		6 (*1)	
	Collection System Unit (formerly Collection System Unit Central Service Area) Stormwater Management Fund Positions	15 (*6)	35 (*6)	2,841,691.84	36 (*6)	2,927,084.68
TOTAL TOTAL	Collection System Section Stormwater Management Fund Positions	39 (*6)	35 (*6)	2,841,691.84	36 (*6)	2,927,084.68
	Waterways Control Section Stormwater Management Fund Positions	51 (*26)	45 (*22)	3,892,743.66	46 (*19)	3,985,790.38
640	Technical Administration Section					
641	Technical Administration Unit					
HP20	Supervising Civil Engineer	1	-		-	
HP20	Managing Civil Engineer	-	1		1	
TOTAL	Technical Administration Unit	1	1	179,860.46	1	179,860.46

	Fund: Department:	Corporate Maintenance & Operations	LINE ITEM ANALYSIS							
07000	Division:	North Service Area	2013		20)14		20)15	
Account Number		Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment	
601010	Salaries of Reg	ular Employees	\$ 21,716,885	\$ 22,826,000	\$ 22,826,000	\$ 16,238,192	\$ 22,300,000	\$ 23,628,300	\$ 23,628,300	
601060	Compensation	Plan Adjustments	1,109,554	1,143,600	1,143,600	914,683	1,143,600	1,013,200	1,013,200	
601100	Tuition and Tra	aining Payments	54,379	117,100	117,100	40,126	91,300	70,000	70,000	
100	TOTAL PERSO	ONAL SERVICES	22,880,818	24,086,700	24,086,700	17,193,001	23,534,900	24,711,500	24,711,500	
612010	Travel		3,109	5,100	5,100	2,746	3,400	15,000	15,000	
612030	Meals and Lod	ging	11,809	32,600	30,200	11,263	20,000	25,000	25,000	
612050	Compensation for Personally-Owned Automobiles		27,253	35,000	35,000	25,404	30,500	29,200	29,200	
612080	Motor Vehicle	Operating Services	192	400	400	167	300	200	200	
612150	Electrical Energ	gy	6,799,268	6,473,800	6,473,800	4,693,325	6,473,800	8,000,000	8,000,000	
612160	Natural Gas		680,345	610,500	670,500	619,182	650,000	745,000	745,000	
612170	Water and Wat	er Services	56,863	53,000	53,000	35,076	52,400	53,900	53,900	
612210	Communication	n Services	111,864	118,700	118,700	104,520	100,500	130,000	130,000	
612240	Testing and Ins	spection Services	23,240	55,500	55,500	34,783	35,000	40,000	40,500	
612330	Rental Charges	3	42,509	25,900	25,900	16,000	21,000	20,000	20,000	
612410	Governmental S	Service Charges	3,089,862	2,537,700	2,537,700	1,967,035	2,537,700	2,960,300	2,960,300	
612420	Maintenance of	f Grounds and Pavements	70,294	449,200	292,200	173,180	190,000	59,900	59,900	
612490	Contractual Ser	rvices, N.O.C.	6,251	38,900	38,900	30,223	33,500	8,000	8,000	
612520	Waste Material	Disposal Charges	691,759	485,900	503,200	503,189	460,000	650,000	643,200	
612530	Farming Service	ees	24,000	20,000	20,000	20,000	20,000	22,000	22,000	
612600	Repairs to Coll	ection Facilities	9,310	250,400	250,400	224,269	137,000	50,000	50,000	
612650	Repairs to Proc	ess Facilities	670,765	773,300	773,300	749,334	680,000	823,800	823,300	
612680	Repairs to Buil	dings	203,866	366,200	366,200	337,914	294,000	250,000	250,000	
612760	Repairs to Mate Equipment	erial Handling and Farming	5,860	18,000	18,000	15,098	10,000	15,000	15,000	
612860	Repairs to Vehi	icle Equipment	5,198	14,000	14,000	14,000	12,000	10,000	10,000	
612990	Repairs, N.O.C	1.	-	2,000	2,000	-	1,900	-	-	
200	TOTAL CONT	RACTUAL SERVICES	12,533,618	12,366,100	12,284,000	9,576,709	11,763,000	13,907,300	13,900,500	
623030	Metals		3,746	10,000	10,000	9,303	8,700	10,000	10,000	
623070	Electrical Parts	and Supplies	359,171	595,300	595,300	578,561	500,000	350,000	350,000	
623090	Plumbing Acce	essories and Supplies	117,043	243,500	243,500	221,900	200,000	150,000	150,000	
623110	Hardware		7,975	16,600	16,600	15,252	14,500	15,000	15,000	

101 67000	Fund: Corporate Department: Maintenance & Operations	LINE ITEM ANALYSIS							
07000	Division: North Service Area	2013		20	014		20	015	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment	
623130	Buildings, Grounds, Paving Materials, and Supplies	28,067	48,100	48,100	37,406	38,400	35,000	35,000	
623190	Paints, Solvents, and Related Materials	626	2,900	2,900	2,373	2,500	1,000	1,000	
623250	Vehicle Parts and Supplies	6,872	12,500	12,500	11,480	12,000	10,000	10,000	
623270	Mechanical Repair Parts	382,506	753,200	753,200	720,284	670,000	550,000	550,000	
623520	Office, Printing, & Photo Supplies, Equipment, & Furniture	12,366	17,700	21,200	19,901	16,500	15,000	21,000	
623560	Processing Chemicals	1,030,769	1,193,300	1,173,300	1,151,015	1,040,000	1,400,000	1,400,000	
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	11,153	24,400	44,400	38,982	42,000	20,000	20,800	
623660	Cleaning Supplies	13	700	700	112	300	200	200	
623680	Tools and Supplies	52,614	43,500	70,500	64,369	70,000	55,000	55,000	
623780	Safety and Medical Supplies	45,971	31,500	31,500	23,989	28,700	45,000	45,000	
623810	Computer Supplies	6,238	10,000	10,000	7,430	9,500	7,500	7,500	
623820	Fuel	15,668	24,500	24,500	24,112	24,000	20,000	20,000	
623840	Gases	1,786	3,000	3,000	2,500	2,500	2,000	2,000	
623860	Lubricants	2,760	4,500	4,500	3,966	4,000	3,500	3,500	
623990	Materials and Supplies, N.O.C.	-	600	3,600	2,940	1,500	2,000	2,000	
300	TOTAL MATERIALS AND SUPPLIES	2,085,343	3,035,800	3,069,300	2,935,876	2,685,100	2,691,200	2,698,000	
634600	Equipment for Collection Facilities	19,919	25,000	25,000	23,619	25,000	106,000	106,000	
634650	Equipment for Process Facilities	83,342	59,600	75,100	60,932	59,000	100,000	100,000	
634860	Vehicle Equipment	28,936	-	-	-	-	-	-	
400	TOTAL MACHINERY AND EQUIPMENT	132,197	84,600	100,100	84,551	84,000	206,000	206,000	
TOTAL	NORTH SERVICE AREA	\$ 37,631,975	\$ 39,573,200	\$ 39,540,100	\$ 29,790,137	\$ 38,067,000	\$ 41,516,000	\$ 41,516,000	

^{2.} Departmental appropriation totals for salaries in the Line Item Analysis may differ from those contained in the Position Analysis by a factor identified to adjust for vacancies.

Additionally, Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.

	Fund: Corporate Department: Maintenance & Operations	LINE ITEM ANALYSIS								
	Division: Calumet Service Area	2013		20)14		20)15		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment		
601010	Salaries of Regular Employees	\$ 15,946,724	\$ 16,777,500	\$ 16,777,500	\$ 12,255,121	\$ 16,777,500	\$ 17,637,800	\$ 17,637,800		
601060	Compensation Plan Adjustments	742,062	695,500	695,500	538,022	695,500	1,016,200	1,016,200		
601100	Tuition and Training Payments	16,012	13,000	13,000	6,044	9,000	28,000	28,000		
601170	Payments for Professional Services	48,854	62,000	62,000	62,000	48,900	62,000	62,000		
100	TOTAL PERSONAL SERVICES	16,753,653	17,548,000	17,548,000	12,861,186	17,530,900	18,744,000	18,744,000		
612010	Travel	-	1,000	1,000	389	800	15,000	15,000		
612030	Meals and Lodging	9,834	10,000	12,400	10,548	10,000	25,000	25,000		
612050	Compensation for Personally-Owned Automobiles	62,540	78,000	78,000	39,077	51,600	61,100	61,100		
612080	Motor Vehicle Operating Services	818	1,000	1,000	-	500	900	900		
612150	Electrical Energy	7,896,409	7,484,800	7,484,800	5,621,580	7,484,800	8,090,000	8,090,000		
612160	Natural Gas	650,233	379,800	812,200	800,485	812,200	700,000	700,000		
612170	Water and Water Services	392,924	202,400	263,200	261,677	202,400	400,000	400,000		
612210	Communication Services	154,236	156,000	156,000	120,070	120,100	160,000	160,000		
612240	Testing and Inspection Services	25,015	84,500	34,500	27,522	19,500	30,000	30,000		
612330	Rental Charges	23,330	15,000	15,000	4,890	6,600	25,000	25,000		
612410	Governmental Service Charges	102,854	110,000	110,000	102,676	107,100	107,800	107,800		
612420	Maintenance of Grounds and Pavements	769,715	1,030,400	853,600	609,675	631,800	650,300	650,300		
612490	Contractual Services, N.O.C.	98,453	196,100	159,100	151,533	121,800	150,000	150,000		
612520	Waste Material Disposal Charges	312,067	377,000	368,400	333,308	301,100	380,000	380,000		
612600	Repairs to Collection Facilities	164,546	579,300	509,700	455,986	258,500	450,000	450,000		
612650	Repairs to Process Facilities	1,374,231	1,691,200	1,691,200	1,315,679	1,276,200	2,000,000	2,000,000		
612680	Repairs to Buildings	298,627	488,500	424,900	377,626	213,100	495,900	495,900		
612760	Repairs to Material Handling and Farming Equipment	41,252	116,000	46,000	38,400	37,500	52,700	52,700		
612780	Safety Repairs and Services	16,125	26,000	26,000	21,850	12,000	20,900	20,900		
612860	Repairs to Vehicle Equipment	40,487	57,500	57,500	54,750	45,000	43,400	43,400		
612990	Repairs, N.O.C.	8,494	18,000	18,000	12,200	8,000	10,000	10,000		
200	TOTAL CONTRACTUAL SERVICES	12,442,190	13,102,500	13,122,500	10,359,922	11,720,600	13,868,000	13,868,000		

101 68000	Fund: Corporate Department: Maintenance & Operations	LINE ITEM ANALYSIS								
	Division: Calumet Service Area	2013		20	14		20)15		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment		
623030	Metals	7,147	36,400	35,200	28,087	6,600	15,000	15,000		
623070	Electrical Parts and Supplies	287,223	464,900	464,900	442,063	290,000	250,000	250,000		
623090	Plumbing Accessories and Supplies	192,468	351,100	376,100	351,816	190,000	200,000	200,000		
623110	Hardware	3,223	7,000	7,000	6,072	4,100	4,700	4,700		
623130	Buildings, Grounds, Paving Materials, and Supplies	51,640	88,900	88,900	69,469	42,400	55,000	55,000		
623190	Paints, Solvents, and Related Materials	989	5,000	5,000	4,500	2,300	2,500	2,500		
623250	Vehicle Parts and Supplies	32,056	53,500	53,500	48,886	36,200	35,000	35,000		
623270	Mechanical Repair Parts	513,939	535,200	620,200	588,443	525,000	450,000	450,000		
623520	Office, Printing, & Photo Supplies, Equipment, & Furniture	12,938	26,700	26,700	23,284	14,000	13,300	13,300		
623530	Farming Supplies	1,793	5,000	5,000	4,947	4,500	5,000	5,000		
623560	Processing Chemicals	467,270	494,200	494,200	339,027	395,400	1,400,000	1,400,000		
623660	Cleaning Supplies	2,423	7,300	7,300	5,118	2,100	2,500	2,500		
623680	Tools and Supplies	25,772	54,500	54,500	50,721	37,300	44,800	44,800		
623720	Books, Maps, and Charts	1,360	3,100	3,100	180	1,400	1,400	1,400		
623780	Safety and Medical Supplies	69,282	75,000	75,000	51,824	54,000	55,800	55,800		
623810	Computer Supplies	1,119	3,900	3,900	3,104	2,100	1,500	1,500		
623820	Fuel	66,473	110,000	110,000	98,251	66,600	90,000	90,000		
623840	Gases	457	-	-	-	-	-	-		
623850	Communications Supplies	615	4,000	4,000	173	800	1,000	1,000		
623860	Lubricants	13,520	18,400	18,400	15,507	8,500	14,100	14,100		
623990	Materials and Supplies, N.O.C.	43,956	104,900	102,900	47,636	42,800	13,000	13,000		
300	TOTAL MATERIALS AND SUPPLIES	1,795,662	2,449,000	2,555,800	2,179,107	1,726,100	2,654,600	2,654,600		
634600	Equipment for Collection Facilities	-	24,000	24,000	-	5,000	-	-		
634650	Equipment for Process Facilities	35,164	59,400	43,900	34,567	29,100	28,000	28,000		
634860	Vehicle Equipment	49,361	-	-	-	-	-	-		
634990	Machinery and Equipment, N.O.C.	-	15,000	15,000	-	5,000	-	-		

101 68000	Fund: Department:	Corporate Maintenance & Operations	LINE ITEM ANALYSIS						
	Division:	Calumet Service Area	2013		20)14		2015	
Account Number		Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
400	TOTAL MAC	HINERY AND EQUIPMENT	84,525	98,400	82,900	34,567	39,100	28,000	28,000
TOTAL	CALUMET SE	RVICE AREA	\$ 31,076,030	\$ 33,197,900	\$ 33,309,200	\$ 25,434,782	\$ 31,016,700	\$ 35,294,600	\$ 35,294,600

^{2.} Departmental appropriation totals for salaries in the Line Item Analysis may differ from those contained in the Position Analysis by a factor identified to adjust for vacancies. Additionally, Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.

101 69000	Fund: Corporate Department: Maintenance & Operations			LINE	ITEM ANA	LYSIS		
	Division: Stickney Service Area	2013		20)14		20	15
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 33,422,720	\$ 35,152,600	\$ 35,152,600	\$ 24,895,081	\$ 34,375,000	\$ 36,018,800	\$ 36,018,800
601060	Compensation Plan Adjustments	1,908,540	1,976,600	1,976,600	1,558,411	1,890,000	1,929,100	1,929,100
601080	Salaries of Nonbudgeted Employees	-	-	50,000	43,540	51,600	-	-
601100	Tuition and Training Payments	73,913	151,000	151,000	119,851	145,000	125,000	125,000
601170	Payments for Professional Services	207,558	170,000	170,000	150,000	138,000	20,000	20,000
100	TOTAL PERSONAL SERVICES	35,612,731	37,450,200	37,500,200	26,766,883	36,599,600	38,092,900	38,092,900
612010	Travel	2,942	16,900	16,900	3,798	6,000	25,000	25,000
612030	Meals and Lodging	14,924	27,400	27,400	14,356	23,500	40,000	40,000
612050	Compensation for Personally-Owned Automobiles	76,647	135,000	135,000	53,688	95,000	84,600	84,600
612080	Motor Vehicle Operating Services	331	900	900	324	800	1,000	1,000
612150	Electrical Energy	16,055,296	15,803,800	15,803,800	11,412,983	15,803,800	16,850,600	16,850,600
612160	Natural Gas	874,806	747,000	1,265,000	875,353	1,265,000	950,000	950,000
612170	Water and Water Services	856,779	1,081,700	1,020,900	581,459	990,000	1,100,000	1,100,000
612210	Communication Services	134,082	150,000	150,000	93,463	128,000	109,900	109,900
612240	Testing and Inspection Services	73,383	138,600	138,600	51,471	119,000	89,400	89,400
612280	Subscriptions and Membership Dues	-	7,300	7,300	299	7,300	-	-
612330	Rental Charges	108,328	133,800	133,800	126,398	117,500	125,000	125,000
612410	Governmental Service Charges	89,880	90,000	90,000	72,500	90,000	90,000	90,000
612420	Maintenance of Grounds and Pavements	306,767	764,700	921,700	741,901	823,000	1,200,000	1,200,000
612490	Contractual Services, N.O.C.	186,388	313,300	313,300	231,500	271,000	380,000	380,000
612520	Waste Material Disposal Charges	408,808	652,000	652,000	651,910	485,000	680,000	680,000
612590	Sludge Disposal	5,201,235	5,400,000	5,400,000	5,361,080	4,030,000	5,522,100	5,522,100
612600	Repairs to Collection Facilities	1,560,545	1,648,300	1,593,000	1,555,702	1,520,000	2,031,900	2,031,900
612620	Repairs to Waterway Facilities	-	-	-	-	-	16,000	16,000
612650	Repairs to Process Facilities	2,621,793	2,614,700	2,107,400	1,982,874	1,970,000	3,387,700	3,387,700
612670	Repairs to Railroads	169,725	408,400	408,400	236,424	276,000	323,900	323,900
612680	Repairs to Buildings	746,798	490,300	490,300	363,084	350,500	834,100	834,100

101 69000	Fund: Corporation Department: Maintena	te ance & Operations			LINE	ITEM ANA	LYSIS		
		Service Area	2013		20)14		20	015
Account Number	Account 1		Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
612760	Repairs to Material Hand Equipment	lling and Farming	40,084	51,000	51,000	51,000	47,400	50,000	50,000
612780	Safety Repairs and Servio	ces	92,141	112,000	112,000	102,612	98,300	150,000	150,000
612840	Communications Equipn (Includes Software)	nent Maintenance	30,625	57,000	57,000	36,523	49,500	40,000	40,000
612860	Repairs to Vehicle Equip	oment	13,268	33,700	33,700	25,325	28,900	30,000	30,000
612970	Repairs to Testing and La	aboratory Equipment	572	3,000	3,000	-	400	-	-
612990	Repairs, N.O.C.		2,329	29,400	29,400	15,392	14,500	5,000	5,000
200	TOTAL CONTRACTUA	AL SERVICES	29,668,477	30,910,200	30,961,800	24,641,420	28,610,400	34,116,200	34,116,200
623030	Metals		16,469	18,000	18,000	15,000	15,000	18,000	18,000
623070	Electrical Parts and Supp	olies	665,048	1,378,400	1,363,000	953,137	900,000	800,000	800,000
623090	Plumbing Accessories an	nd Supplies	277,882	632,300	607,300	353,159	525,000	400,000	400,000
623110	Hardware		5,422	17,800	17,800	544	14,200	9,600	9,600
623130	Buildings, Grounds, Pavi Supplies	ing Materials, and	66,271	202,500	202,500	100,057	130,000	100,000	100,000
623170	Fiber, Paper, and Insulati	ion Materials	71,634	51,000	51,000	33,099	37,000	15,000	15,000
623190	Paints, Solvents, and Rel	ated Materials	1,562	20,000	20,000	10,142	17,200	2,000	2,000
623250	Vehicle Parts and Supplie	es	45,281	83,800	83,800	81,732	65,000	50,000	50,000
623270	Mechanical Repair Parts		1,285,513	1,959,000	1,874,000	1,553,646	1,650,000	1,832,300	1,832,300
623520	Office, Printing, & Photo Equipment, & Furniture	Supplies,	14,837	20,000	16,500	15,421	16,000	15,000	15,000
623560	Processing Chemicals		4,272,597	5,658,500	5,658,500	5,469,243	4,700,000	6,000,000	6,000,000
623660	Cleaning Supplies		1,740	2,000	2,000	-	1,700	2,000	2,000
623680	Tools and Supplies		90,637	137,500	110,500	109,467	97,000	90,000	90,000
623700	Wearing Apparel		985	1,500	1,500	500	1,300	900	900
623780	Safety and Medical Supp	olies	89,161	98,400	98,400	52,611	60,000	65,900	65,900
623800	Computer Software		11,148	22,500	22,500	6,174	19,500	6,600	6,600
623810	Computer Supplies		36,736	30,000	30,000	9,094	26,500	10,000	10,000
623820	Fuel		84,350	170,000	170,000	170,000	116,000	125,000	125,000
623840	Gases		5,342	23,000	23,000	17,142	20,000	10,000	10,000

101 69000	Fund: Department:	Corporate Maintenance & Operations			LINE	ITEM ANA	LYSIS		
	Division:	Stickney Service Area	2013		20	014		20)15
Account Number		Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
623850	Communication	ons Supplies	288	54,100	54,100	34,903	44,000	10,000	10,000
623860	Lubricants		4,934	7,000	7,000	2,625	6,200	7,000	7,000
623990	Materials and	Supplies, N.O.C.	15,268	44,500	43,500	24,638	25,000	20,900	20,900
300	TOTAL MAT	ERIALS AND SUPPLIES	7,063,105	10,631,800	10,474,900	9,012,336	8,486,600	9,590,200	9,590,200
634860	Vehicle Equip	ment	53,859	60,000	60,000	-	-	-	-
634970	Testing and La	aboratory Equipment	47,213	20,500	20,500	4,949	17,700	15,700	15,700
400	TOTAL MAC	HINERY AND EQUIPMENT	101,072	80,500	80,500	4,949	17,700	15,700	15,700
TOTAL	STICKNEY SE	ERVICE AREA	\$ 72,445,385	\$ 79,072,700	\$ 79,017,400	\$ 60,425,587	\$ 73,714,300	\$ 81,815,000	\$ 81,815,000

^{2.} Departmental appropriation totals for salaries in the Line Item Analysis may differ from those contained in the Position Analysis by a factor identified to adjust for vacancies. Additionally, Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.

101 50000	Fund: Corporate Department: Engineering			LINE	ITEM ANA	LYSIS		
30000	Division:	2013		20	14		20	15
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 22,979,812	\$ 24,818,300	\$ 24,818,300	\$ 17,312,973	\$ 22,259,800	\$ 24,912,300	\$ 24,912,300
601060	Compensation Plan Adjustments	245,302	488,200	488,200	217,374	250,000	239,000	239,000
601080	Salaries of Nonbudgeted Employees	-	5,000	5,000	-	-	-	-
601100	Tuition and Training Payments	96,414	136,000	136,000	102,354	123,700	96,400	96,400
601170	Payments for Professional Services	393,116	2,544,400	2,536,700	474,614	899,000	1,329,800	1,329,800
601410	Personal Services Exp for Prelim Engineering Rpts & Studies	48,100	268,000	275,700	275,094	275,100	50,000	50,000
100	TOTAL PERSONAL SERVICES	23,762,743	28,259,900	28,259,900	18,382,409	23,807,600	26,627,500	26,627,500
612010	Travel	8,367	36,100	36,100	7,303	18,600	10,000	10,000
612030	Meals and Lodging	14,523	52,000	52,000	17,765	25,400	20,000	20,000
612040	Postage, Freight, and Delivery Charges	983	2,000	2,000	2,000	900	1,000	1,000
612050	Compensation for Personally-Owned Automobiles	36,899	40,000	40,000	29,935	39,800	38,900	38,900
612080	Motor Vehicle Operating Services	928	1,000	1,000	596	900	1,000	1,000
612090	Reprographic Services	6,939	21,500	21,500	12,500	12,500	7,000	7,000
612170	Water and Water Services	3,136	3,500	3,500	3,500	3,300	3,200	3,200
612330	Rental Charges	487	6,300	6,300	4,280	4,300	-	-
612490	Contractual Services, N.O.C.	78,611	154,500	154,500	88,618	88,700	578,700	578,700
612620	Repairs to Waterway Facilities	-	125,000	125,000	-	100,000	10,000	10,000
612840	Communications Equipment Maintenance (Includes Software)	-	2,000	2,000	-	500	-	-
612970	Repairs to Testing and Laboratory Equipment	2,659	6,000	6,000	3,500	2,900	2,700	2,700
612990	Repairs, N.O.C.	14,567	24,100	24,100	15,033	15,200	18,800	18,800
200	TOTAL CONTRACTUAL SERVICES	168,099	474,000	474,000	185,028	313,000	691,300	691,300
623520	Office, Printing, & Photo Supplies, Equipment, & Furniture	45,214	49,500	49,500	47,207	43,000	41,000	41,000
623700	Wearing Apparel	2,486	5,000	5,000	5,000	4,500	5,500	5,500
623720	Books, Maps, and Charts	6,925	10,300	10,300	5,098	5,100	6,900	6,900
623800	Computer Software	-	5,000	5,000	-	-	-	-
623990	Materials and Supplies, N.O.C.	1,645	18,500	18,500	3,541	9,300	5,000	5,000

	Fund: Corporate Department: Engineering			LINE	ITEM ANA	LYSIS		
	Division:	2013		20	14		20	15
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
300	TOTAL MATERIALS AND SUPPLIES	56,270	88,300	88,300	60,846	61,900	58,400	58,400
634990	Machinery and Equipment, N.O.C.	-	12,000	12,000	8,895	8,900	-	-
400	TOTAL MACHINERY AND EQUIPMENT	-	12,000	12,000	8,895	8,900	-	-
645690	Capital Projects, N.O.C.	-	27,800,000	27,800,000	-	5,800,000	26,000,000	26,000,000
500	TOTAL CAPITAL PROJECTS	-	27,800,000	27,800,000	-	5,800,000	26,000,000	26,000,000
656010	Land	-	50,000	50,000	-	40,000	-	-
600	TOTAL LAND	-	50,000	50,000	-	40,000	-	-
TOTAL	ENGINEERING	\$ 23,987,113	\$ 56,684,200	\$ 56,684,200	\$ 18,637,178	\$ 30,031,400	\$ 53,377,200	\$ 53,377,200

^{2.} Departmental appropriation totals for salaries in the Line Item Analysis may differ from those contained in the Position Analysis by a factor identified to adjust for vacancies. Additionally, Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.

Г. 1		2012			OSITIO	ON ANALYSIS
	Corporate Engineering	2013		2014	RE	2015 COMMENDED BY
Division:						COMMITTEE ON GET/EMPLOYMENT
		AL s	TED	APPROPRIATION	_	APPROPRIATION
PAY PLAN & GRADE	CLASS TITLE	ACTUAL FTEs	BUDGETED FTEs	IN DOLLARS	BUDGETED FTEs	IN DOLLARS
HP20	Managing Civil Engineer	-	1		1	
HP18	Principal Civil Engineer	2	2		3	
HP17	Senior Civil Engineer	7	7		7	
HP17	Senior Process Control Engineer	1	1		1	
HP15	Associate Civil Engineer	3	3		2	
HP14	Assistant Civil Engineer	3	2		2	
HP13	Engineering Draftsman III #4	-	1		1	
HP12	Engineering Draftsman II	-	1		1	
HP12	Engineering Draftsman II #4	-	1		1	
TOTAL	Process Design Section	17	19	2,036,263.84	19	2,122,768.18
545	Mechanical Design Section					
HP20	Supervising Mechanical Engineer	1	-		-	
HP20	Managing Mechanical Engineer	-	1		1	
HP18	Principal Mechanical Engineer	2	2		2	
HP17	Senior Mechanical Engineer	5	5		3	
HP15	Associate Mechanical Engineer	4	4		4	
HP15	Associate Mechanical Engineer #1	-	-		1	
HP14	Assistant Mechanical Engineer	2	2		-	
HP14	Engineering Technician V #4	1	-		-	
HP13	Engineering Draftsman III	-	1		1	
HP12	Engineering Draftsman II #4	-	2		2	
HP12	Engineering Technician IV	1	-		-	
TOTAL	Mechanical Design Section	16	17	1,819,266.80	14	1,539,316.48
546	Electrical Design Section					
HP20	Supervising Electrical Engineer	1	-		-	
HP20	Managing Electrical Engineer	-	1		1	
HP18	Principal Electrical Engineer	2	2		2	
HP17	Senior Electrical Engineer	6	6		5	

E 4.	Comments	2012	1	2014	OSITI	ON ANALYSIS 2015
Dept:	Corporate Engineering	2013		2014		COMMENDED BY
Division:					BUD	COMMITTEE ON GET/EMPLOYMENT
PAY PLAN		ACTUAL FTES	BUDGETED FTEs	APPROPRIATION IN DOLLARS	BUDGETED FTEs	APPROPRIATION IN DOLLARS
& GRADE HP20	CLASS TITLE Managing Civil Engineer	-	五 1		BI	
HP18	Principal Civil Engineer	1	1		-	
HP17	Senior Civil Engineer	1	1		-	
HP15	Associate Civil Engineer	2	2		-	
HP14	Assistant Civil Engineer	-	1		-	
HP14	Assistant Electrical Engineer	1	1		-	
HP14	Engineering Technician V	1	1		-	
HP14	Engineering Technician V #4	-	1		-	
HP13	Senior Administrative Specialist	1	1		-	
HP12	Engineering Technician IV	1	2		-	
HP12	Engineering Technician IV #4	1	1		-	
HP11	Engineering Technician III	1	1		-	
HP11	Principal Office Support Specialist #2 (Administrative Specialist)	1	-		-	
HP11	Administrative Specialist	-	1		-	
HP09	Administrative Clerk	-	1		-	
TOTAL	Construction Support Services Section	12	16	1,426,983.48	-	-
555	Program Management Section					
HP20	Supervising Civil Engineer	1	-		-	
HP20	Managing Civil Engineer	-	1		1	
HP18	Principal Civil Engineer	1	1		-	
HP17	Senior Civil Engineer	1	1		1	
HP17	Senior Electrical Engineer	-	-		1	
HP15	Associate Civil Engineer	1	1		1	
HP14	Assistant Civil Engineer	-	-		1	
HP14	Assistant Mechanical Engineer	-	-		1	
HP14	Assistant Structural Engineer	1	1		-	
HP13	Senior Administrative Specialist	_	-		1	
HP11	Engineering Technician III	1	1		-	
TOTAL	Program Management Section	6	6	677,319.50	7	759,609.76

Fund	Corporate	2013	ĺ	2014	<u> </u>	ON ANALYSIS 2015
	Engineering	2013		2014	(COMMENDED BY COMMITTEE ON GET/EMPLOYMENT
PAY PLAN & GRADE	CLASS TITLE	ACTUAL FTEs	BUDGETED FTEs	APPROPRIATION IN DOLLARS	BUDGETED FTEs	APPROPRIATION IN DOLLARS
556	Construction Field Services Section					
HP20	Supervising Civil Engineer	1	-		-	
HP20	Managing Civil Engineer	-	1		1	
HP18	Principal Civil Engineer	2	2		3	
HP18	Principal Electrical Engineer	3	3		3	
HP18	Principal Engineer	-	1		1	
HP17	Senior Civil Engineer	8	9		10	
HP17	Senior Electrical Engineer	5	3		3	
HP17	Senior Mechanical Engineer	-	1		3	
HP15	Associate Civil Engineer	8	8		11	
HP15	Associate Electrical Engineer	3	3		3	
HP15	Associate Mechanical Engineer	3	3		2	
HP15	Associate Mechanical Engineer #1	-	-		-	
HP15	Associate Structural Engineer	1	1		1	
HP14	Assistant Civil Engineer	7	7		7	
HP14	Assistant Electrical Engineer	1	1		2	
HP14	Assistant Mechanical Engineer	1	1		2	
HP14	Engineering Technician V	8	8		10	
HP14	Engineering Technician V #4	5	5		5	
HP12	Engineering Technician IV	7	7		8	
HP12	Engineering Technician IV #4	1	1		2	
HP12	Administrative Assistant #2 (Administrative Specialist) (New Grade HP11)	-	-		1	
HP11	Engineering Technician III	5	5		6	
TOTAL	Construction Field Services Section	69	70	6,709,053.00	84	8,044,307.96
TOTAL	Construction Division	91	96	9,219,265.12	94	9,141,743.00
TOTAL	Engineering Corporate	242	243	24,942,522.54	243	25,037,599.34

NOTE: Departmental appropriation totals for salaries in the Position Analysis differ from those contained in the Line Item Analysis by a factor identified to adjust for vacancies. Salary ranges corresponding to the pay plan and grade for each class title can be found in the table of Salary Schedules in the Appendix.

53

Construction Fund Program

			Est.	MWRD			Award
Pro	ojects Under Construction		Construc-	2015	Dura-		/ Est.
		Project	tion	Appro-	tion	Prof.	Award
#	Project Name	Number	Cost	priation	(days)	Svcs.	Date
1	Rebuild Centrifuge Rotating Assembly and Gearbox, EWRP	12-711-21	\$ 680	\$ 170	1,441	\$ -	Jan-12
2	Distributed Control System Server Upgrade, OWRP and NBPS	11-722-21	1,053	50	730	_	May-13
3	Facility Roof Replacements and Associated Tuckpointing,	11-961-22	2,880	777	756	_	Dec-13
	SWRP, LASMA		,				
4	Rehabilitation of Elevator Mechanical Systems, MOBA	J15090-042	850	340	472	-	Feb-14
5	Painting of Final Tanks, OWRP and KWRP	13-721-22	985	314	981	-	Feb-14
6	Storeroom Building Expansion, OWRP	04-015-2V	2,201	1,496	365	-	Mar-14
7	Painting Services, SSA	13-932-21	1,636	728	619	-	Apr-14
8	Furnish, Deliver, & Install (FD&I) Rotating Assemblies for	14-821-21	2,290	2,000	310	-	Jun-14
	95th and 125th St. Pumping Stations, CSA						
9	Rehabilitation of Sludge Heat Exchangers, SWRP	12-932-21	1,593	1,400	536	-	Jul-14
10	FD&I New Tank Drives, LWRP	14-806-21	976	300	1,095	-	Sep-14
11	Television Inspection and Recording of Sewer and Manholes,	13-805-2S	1,522	515	1,095	-	Sep-14
	District-wide						
12	F&D Primary Sludge Pump, EWRP	14-705-21	69	69	365	-	Sep-14
13	Fence Line Extension and Repair, SSA	14-918-21	200	200	210	-	Oct-14
14	Crane Rehabilitation, MSPS	12-907-21	625	625	420	-	Nov-14
15	FD&I Gas Detection System, WSPS	14-922-21	160	65	159	-	Nov-14
16	Membrane Gas Holder Replacement and Digester Cleaning, EWRP	11-403-2P	4,800	2,400	720	-	Nov-14
17	FD&I Submersible Pumps Replacement at SEPA 1, CSA	14-808-21	368	367	378	-	Dec-14
	Total Projects Under Construction		\$22,888	\$ 11,816	_	\$ -	-
			Est.	MWRD			
Av	<u>vards in 2015</u>		Construc-	2015	Dura-		Est.
		Project	tion	Appro-	tion	Prof.	Award
#	Project Name	Number	Cost	priation	(days)	Svcs.	Date
1	F&D Turbo Blower for Process Air, HPWRP	15-701-21	\$ 175	\$ 175	330	\$ -	Jan-15
2	Rehabilitate the Valve and Actuator of Main Sewage Pump No. 8, MSPS	15-911-21	300	300	365	-	Jan-15
3	Gas Turbine Recommissioning, SWRP	15-913-21	500	500	210	_	Jan-15
4	Sludge Line Improvements, KWRP	15-719-21	200	100	700	_	Jan-15
5	Rehabilitate Chiller 1, EWRP	15-720-21	100	100	365	_	Jan-15
6	FD&I Crane Maintenance Platform, CWRP	15-801-21	50	50	365	_	Jan-15
7	Rehabilitation of Hydraulic Operator at TARP Gate Structure	15-802-21	900	700	730	_	Jan-15
 	#1, CSA	15 002 21	700	700	750		Jun 13
8	Rehabilitation of Buildings, Fulton County	15-813-21	250	250	365	_	Jan-15
9	Electrical Equipment Replacement, EWRP	06-842-2E	1,600	1,280	425	_	Jan-15
10	Stickney Effluent Reuse Line, SSA	14-107-2J	600	600	210	_	Feb-15

			Est.	MWRD			
A	vards in 2015 (continued)		Construc-	2015	Dura-		Est.
		Project	tion	Appro-	tion	Prof.	Award
#	Project Name	Number	Cost	priation	(days)	Svcs.	Date
11	Paint and Carpet Replacement, MOB	J15090-048	3 435	435	55	-	Feb-15
12	Return Activated Sludge Valves Replacement in South Aeration, EWRP	12-716-21	40	40	122	-	Feb-15
13	Restoration of Process Control Building, OWRP	15-711-21	1,750	1,350	366	-	Mar-15
14	FD&I 350 kW Natural Gas Generator, OWRP	15-713-21	345	345	210	-	Mar-15
15	Devon Instream Aeration Station Air Main Rehabilitation, OWRP	15-721-21	200	200	180	-	Mar-15
16	Rehabilitation of Main Sewage Pump Rotating Assembly, RAPS	15-906-21	245	245	270	-	Apr-15
17	F&D Replacement Parts for Sludge Heat Exchangers, SWRP	15-910-21	225	225	365	-	Apr-15
18	Recondition Various Circuit Breakers, SSA	15-914-21	200	200	210	-	Apr-15
19	Guaranteed Energy Performance Contracts, District-wide	15-RFP-XX	1,000	1,000	240	-	May-15
20	Glenbrook Sewer Rehabilitation, NSA	14-061-2S	1,800	1,800	210	-	May-15
21	Touhy Avenue Reservoir Rehabilitation, KWRP	11-793-21	160	160	90	-	May-15
22	FD&I New Boilers at 125th St. Pumping Station, CSA	14-811-21	455	455	120	-	Jun-15
23	Equipment for Phosphorus Removal, KWRP	15-707-21	658	658	180	-	Jun-15
24	Waterways Telemetry Communication Pilot Study, SSA	15-603-21	200	200	111	-	Jun-15
25	FD&I Ammonia Probes in Aeration Batteries, SWRP	15-912-21	450	450	90	-	Jul-15
26	Restoration of Concrete Pavement, EWRP	14-714-21	1,100	489	366	-	Aug-15
27	Rehabilitation of Bridges, NSA	14-824-2D	1,000	383	370	-	Oct-15
	Total 2015 Award	ds	\$14,938	\$ 12,690	_	\$ -	
	TOTAL 2015 PROJECT	'S	\$37,826	\$ 24,506	-	\$ -	_
	Note: All cost figures are in thousands of dollars.						

201 50000	Fund: Construction			LINE	ITEM ANA	LYSIS		
30000	Department: Engineering Division:	2013		20)14		20)15
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601170	Payments for Professional Services	\$ 743,180	\$ 6,885,500	\$ 5,810,500	\$ 4,067,679	\$ 3,200,000	\$ 4,133,800	\$ 3,522,800
601410	Personal Services Exp for Prelim Engineering Rpts & Studies	-	150,000	539,000	478,042	478,000	448,100	448,100
601420	Personal Services Exp for Constr Drawings, Specs, & Cost Est	-	327,500	2,327,500	1,300,000	300,000	2,389,000	2,389,000
601440	Personal Svcs for Post-Award Engr for Construction Projects	27,921	471,100	471,100	301,904	220,000	182,000	182,000
100	TOTAL PERSONAL SERVICES	771,101	7,834,100	9,148,100	6,147,625	4,198,000	7,152,900	6,541,900
612240	Testing and Inspection Services	-	40,000	40,000	10,000	-	10,000	10,000
612250	Court Reporting Services	797	5,000	5,000	5,000	3,500	5,000	5,000
612380	Soil and Rock Mechanics Investigation	-	30,000	30,000	30,000	20,000	40,000	40,000
612490	Contractual Services, N.O.C.	-	192,000	192,000	49,500	49,500	400,000	400,000
612600	Repairs to Collection Facilities	-	600,000	600,000	335,567	-	600,000	514,800
612760	Repairs to Material Handling and Farming Equipment	-	-	-	-	-	625,000	625,000
612820	Computer Software Maintenance	16,701	-	-	-	-	-	-
612990	Repairs, N.O.C.	325	-	-	-	-	-	-
200	TOTAL CONTRACTUAL SERVICES	17,823	867,000	867,000	430,067	73,000	1,680,000	1,594,800
623250	Vehicle Parts and Supplies	-	-	78,000	70,096	70,100	50,000	50,000
623270	Mechanical Repair Parts	-	1,500,000	2,289,500	2,289,500	300,000	2,900,000	2,900,000
623300	Manhole Materials	25,058	-	-	-	-	-	-
623520	Office, Printing, & Photo Supplies, Equipment, & Furniture	504	-	-	-	-	-	-
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	-	25,000	25,000	16,795	16,800	20,000	20,000
623810	Computer Supplies	-	233,000	433,000	347,236	347,300	200,000	200,000
300	TOTAL MATERIALS AND SUPPLIES	25,562	1,758,000	2,825,500	2,723,627	734,200	3,170,000	3,170,000
634600	Equipment for Collection Facilities	-	-	-	-	-	345,000	345,000
634620	Equipment for Waterway Facilities	-	570,000	480,500	142,717	146,500	367,500	367,500
634650	Equipment for Process Facilities	647,896	625,000	625,000	461,498	415,300	925,000	925,000
634780	Safety and Medical Equipment	49,978	-	-	-	-	-	-
634790	Marine Equipment	-	500,000	516,000	515,144	515,200	-	-
634810	Computer Equipment	-	-	470,000	-	-	534,000	534,000

201 50000	Fund: Construction Department: Engineering			LINE	ITEM ANA	LYSIS		
	Division:	2013		20	014		20)15
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
634820	Computer Software	-	-	161,000	120,503	120,600	40,000	40,000
634860	Vehicle Equipment	696,290	2,896,000	2,818,000	2,643,056	1,930,000	900,000	970,000
634990	Machinery and Equipment, N.O.C.	321,120	951,000	951,000	590,029	389,400	1,250,000	1,108,000
400	TOTAL MACHINERY AND EQUIPMENT	1,715,284	5,542,000	6,021,500	4,472,947	3,517,000	4,361,500	4,289,500
645600	Collection Facilities Structures	341,819	1,605,300	1,630,300	1,157,132	1,000,000	650,000	650,000
645620	Waterway Facilities Structures	536,089	20,000	20,000	-	40,000	-	-
645650	Process Facilities Structures	1,062,801	16,952,000	13,868,800	4,030,272	3,568,000	1,480,000	2,893,500
645680	Buildings	2,495,684	3,697,500	4,435,700	4,294,606	3,446,900	4,078,800	4,060,800
645690	Capital Projects, N.O.C.	-	750,000	159,000	-	-	2,450,000	2,250,000
645700	Preservation of Collection Facility Structures	934,831	2,919,000	3,303,100	3,192,300	2,700,000	2,233,000	2,433,000
645720	Preservation of Waterway Facility Structures	185,392	100,000	650,000	167,560	100,000	1,050,000	562,200
645750	Preservation of Process Facility Structures	5,176,455	5,977,100	5,293,000	4,380,584	2,900,000	7,743,800	7,743,800
645780	Preservation of Buildings	-	4,034,000	3,834,000	3,663,563	3,150,100	1,232,400	1,232,400
645790	Preservation of Capital Projects, N.O.C.	43,837	1,250,000	1,250,000	330,000	-	558,300	488,800
500	TOTAL CAPITAL PROJECTS	10,776,909	37,304,900	34,443,900	21,216,018	16,905,000	21,476,300	22,314,500
TOTAL	TOTAL ENGINEERING CONSTRUCTION		\$ 53,306,000	\$ 53,306,000	\$ 34,990,284	\$ 25,427,200	\$ 37,840,700	\$ 37,910,700

^{2.} Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.

Capital Improvements Bond Fund Program

				E-4					
Aw	ards in 2015		C	Est.	Dura-				Est.
		Project		tion	tion	Pro	of.	Land	Award
#	Project Name	Number		Cost	(days)	Svo	cs.	Cost	Date
1	D799 Switchgear Replacement, SWRP	09-182-3E	\$	7,500	730	\$	-	\$ -	Jan-15
2	TARP Pump #8 Rehabilitation, MSPS	02-111-3M		4,500	300		-	-	Mar-15
3	Installation of Sidestream Nitrogen Removal System, EWRP	13-409-3P		3,500	180		-	-	Mar-15
4	McCook Reservoir Des Plaines Inflow Tunnel	13-106-4F		155,000	850		-	-	Jun-15
5	Digester Gas Utilization Facilities, SWRP	11-189-3P		50,000	1,095		-	-	Jun-15
6	Organic Waste Receiving and Processing Facility, CWRP	11-240-3P		27,000	540		-	-	Jul-15
7	Calumet Intercepting Sewer 19F Rehabilitation, CSA	11-239-3S		12,000	620		-	-	Aug-15
8	Digester Gas Utilization Facilities, CWRP	14-250-3P		13,000	540		-	-	Aug-15
9	Salt Creek Intercepting Sewer 2 Rehabilitation, SSA	06-155-3S		41,000	1,000		-	-	Sep-15
10	Safety Railing around Tanks, SWRP	14-109-3D		2,000	400		-	-	Oct-15
11	Safety Railing around Tanks, CWRP	14-255-3D		1,000	400		-	-	Oct-15
12	Safety Railing around Tanks, OWRP, EWRP, HPWRP	14-823-3D		1,000	400		-	-	Oct-15
	Total 2015 Awards	}	\$	317,500		\$	-	\$ -	-

Pro	jects Under Development			_			
	<u>,, </u>		Construc-	Dura-			Est.
		Project	tion	tion	Prof.	Land	Award
#	Project Name	Number	Cost	(days)	Svcs.	Cost	Date
13	39th Street Conduit Rehabilitation - Phase II, SSA	01-103-AS	\$ 24,700	770	\$ -	\$ -	Jun-16
14	North Shore 1 Rehabilitation, NSA	10-047-3S	20,000	650	-	-	Dec-16
15	Upper Des Plaines Intercepting Sewer 11D, Ext. C	11-404-3S	5,500	450	-	-	Feb-17
	Rehabilitation, NSA						
16	Odor Control Facilities, SWRP	14-114-3M	20,000	365	-	-	Mar-17
17	Upper Des Plaines Intercepting Sewer 11D	12-369-3S	5,500	450	-	-	Aug-17
	Rehabilitation, NSA						
18	Phosphorus Recovery System, CWRP	12-245-3P	10,000	900	-	-	Jan-18
19	Upper Des Plaines Intercepting Sewer 14B	06-360-3S	6,700	360	-	-	Mar-18
	Rehabilitation, NSA						
20	Wet Weather Relief Program	14-115-3F	500,000	1,825	-	-	Mar-18
21	Odor Control Facilities, CWRP	14-262-3M	20,000	365	-	-	Mar-18

57

				Est.						
Pro	<u>ojects Under Development (continued)</u>		C	Construc-	Dura-					Est.
		Project		tion	tion	Pro	f.	Lan	d	Award
#	Project Name	Number		Cost	(days)	Svc	s.	Cos	st	Date
22	Biosolids Processing Facility, CWRP	14-116-3P		48,000	365		-		-	Mar-19
23	Odor Control Facilities, NSA	14-067-3M		20,000	365		-		-	Mar-19
	Total Future Awards		\$	680,400		\$	_	\$	_	
		•	-			Ť		-		
	Cumulative 2015 and Future Awards		\$	997,900		\$	-	\$	-	

Note: All cost figures are in thousands of dollars; inflation factor is 0 percent.

Method of F	inancing		
State	General		
Revolving	Obligation		
Fund Loans	<u>Bonds</u>	<u>Total</u>	
\$ -	\$ 155,000	\$ 155,000	Tunnel and Reservoir Plan
57,500	67,500	125,000	Water Reclamation Plant
			Expansion and Improvements
40,000	48,000	88,000	Solids Management
24,700	510,000	534,700	Collection Facilities
100,400	(5,200)	95,200	Replacement of Facilities
\$ 222,600	\$ 775,300	\$ 997,900	-

Stormwater Management Capital Improvements Bond Fund Program

			Ε.		- 8		
			Est. Construc-	Dura-			Est.
$\mathbf{A}\mathbf{w}$	<u>ards in 2015</u>	Droinat	tion	tion	Prof.	Land	Award
ш	Desired News	Project					
#	Project Name	Number	Cost	(days)	Svcs.	Cost	Date
1	Flood Control Project for Upper Salt Creek	10-884-AF	\$ 1,451	370	\$ -	\$ -	Jan-15
2	Streambank Stabilization Project on Oak Lawn Creek	10-237-3F	4,375	365	-	-	Jan-15
3	Streambank Stabilization Project on Melvina Ditch	13-248-3F	8,000	425	-	-	Feb-15
4	Streambank Stabilization Project along Calumet Union	10-882-BF	1,839	370	-	-	Feb-15
	Drainage Ditch						
5	Streambank Stabilization Project along Midlothian Creek	10-882-CJ	307	370	-	-	Feb-15
6 *	Streambank Stabilization Projects for Addison Creek	14-108-3F	450	366	-	-	Mar-15
7	Streambank Stabilization Project on Tinley Creek in	10-882-AF	3,806	370	-	_	Apr-15
	Orland Park, IL						•
8	Flood Control Project on the East Branch of Cherry	10-883-CF	3,410	370	-	-	Apr-15
	Creek in Flossmoor, IL						•
9	Streambank Stabilization Projects for the Middle Fork	11-052-3F	2,496	540	-	-	Apr-15
	and West Fork of the North Branch of the Chicago River						•
10	Flood Control Project at Arrowhead Lake in the City of	10-883-BF	509	370	_	_	May-15
	Palos Heights, IL						•
11	Flood Control Project for Deer Creek	10-884-BF	3,440	370	_	_	May-15
12	Flood Control Project on Farmers and Prairie Creeks	12-056-3F	14,595	660	_	_	Jun-15
13	Melvina Ditch Reservoir Expansion	14-263-3F	10,000	365	_	_	Jul-15
14	Flood Control Project on the Des Plaines River in Lyons	13-199-3F	9,800	365	_	_	Nov-15
	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -			2 33			
	Total 2015 Awards		\$ 64,478		\$ -	\$ -	

Pro	ojects Under Development		Est.				
110	Jeets Onder Development		Construc-	Dura-			Est.
		Project	tion	tion	Prof.	Land	Award
#	Project Name	Number	Cost	(days)	Svcs.	Cost	Date
15	Buffalo Creek Reservoir Expansion	13-370-3F	\$ 15,000	548	\$ -	\$ -	Jan-16
16	Flood Control Project for the West Fork of the North	12-055-3F	25,000	730	-	-	Jun-16
	Branch of the Chicago River						
17	Addison Creek Reservoir	11-186-3F	104,327	1,825	-	-	Apr-17
18	Addison Creek Channel Improvements	11-187-3F	29,595	730	-	-	Jan-19
	Total E a ser A seed		¢ 172 022		Φ.	Φ	-
	Total Future Awards	3	\$ 173,922		\$ -	\$ -	_
	Cumulative 2015 and Future Awards	3	\$ 238,400		\$ -	\$ -	-

^{*}This project is funded by the Capital Improvements Bond Fund and the Stormwater Management Fund. Refer to Section VI Stormwater Management Fund for more information about the Stormwater Management Capital Improvement Program.

Note: All cost figures are in thousands of dollars; inflation factor is 0 percent.

Method of I	Method of Financing											
State												
Revolving												
Fund	Alternate											
<u>Loans</u>	Bonds	<u>Total</u>										
\$ 164.888	\$ 73.512	\$ 238,400										

	Fund: Capital Improvements Bond Department: Engineering			LINE	ITEM ANA	LYSIS		
50000	Division:	2013		20)14		20	15
Account Number	Account Name	Expenditure	Original * Appropriation	Adjusted ** Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601170	Payments for Professional Services	\$ 137,640	\$ 1,100,000	\$ 1,636,339	\$ 756,573	\$ 582,000	\$ 950,000	\$ 950,000
601410	Personal Services Exp for Prelim Engineering Rpts & Studies	637,466	250,000	503,077	353,077	253,100	250,000	250,000
601420	Personal Services Exp for Constr Drawings, Specs, & Cost Est	9,098,844	7,000,000	25,372,053	20,929,677	9,588,000	10,900,000	10,900,000
601440	Personal Svcs for Post-Award Engr for Construction Projects	4,061,945	2,900,000	32,783,739	31,333,530	5,527,600	2,000,000	2,000,000
100	TOTAL PERSONAL SERVICES	13,935,896	11,250,000	60,295,209	53,372,858	15,950,700	14,100,000	14,100,000
612090	Reprographic Services	-	40,000	64,000	34,000	1,000	10,000	10,000
612240	Testing and Inspection Services	74,463	500,000	1,075,017	875,017	60,000	-	-
612250	Court Reporting Services	5,133	25,000	25,001	25,000	5,000	5,000	5,000
612380	Soil and Rock Mechanics Investigation	17,463	-	681,090	681,090	200,000	-	-
612490	Contractual Services, N.O.C.	7,564	83,600	83,600	-	60,000	83,600	9,333,600
612780	Safety Repairs and Services	-	180,000	180,000	-	100,000	100,000	100,000
200	TOTAL CONTRACTUAL SERVICES	104,624	828,600	2,108,707	1,615,106	426,000	198,600	9,448,600
634620	Equipment for Waterway Facilities	-	-	-	-	-	422,700	422,700
400	TOTAL MACHINERY AND EQUIPMENT	-	-	-	-	-	422,700	422,700
645600	Collection Facilities Structures	31,980,030	11,500,000	111,444,634	111,113,407	42,434,600	1,000,000	1,000,000
645620	Waterway Facilities Structures	23,071,965	49,732,700	131,762,784	123,024,907	46,500,000	42,493,600	53,365,400
645630	Army Corps of Engineers Services	12,375,000	20,000,000	10,000,000	3,785,000	3,785,000	176,199,000	176,199,000
645650	Process Facilities Structures	46,867,881	163,305,000	383,765,073	369,474,478	62,382,000	136,530,000	122,250,000
645680	Buildings	1,068,811	730,000	1,199,900	1,188,806	112,500	100,000	100,000
645690	Capital Projects, N.O.C.	40,000	8,150,000	3,643,157	1,114,013	2,000,000	8,750,000	8,750,000
645700	Preservation of Collection Facility Structures	10,296,857	85,450,000	27,496,693	27,120,395	11,119,000	62,875,000	62,875,000
645720	Preservation of Waterway Facility Structures	814,469	-	3,584,885	3,151,319	2,926,000	22,033,000	22,321,800
645750	Preservation of Process Facility Structures	13,951,264	19,720,000	27,815,570	27,623,316	16,967,000	13,945,000	2,500,000
645780	Preservation of Buildings	367,459	6,670,000	10,057,782	10,057,700	-	1,000,000	1,000,000
500	TOTAL CAPITAL PROJECTS	140,833,736	365,257,700	710,770,478	677,653,342	188,226,100	464,925,600	450,361,200
656010	Land	263,000	7,300,000	7,300,000	203,000	1,000,000	10,300,000	10,300,000
600	TOTAL LAND	263,000	7,300,000	7,300,000	203,000	1,000,000	10,300,000	10,300,000

401 50000	Fund: Capital Improvements Bond Department: Engineering		LINE ITEM ANALYSIS								
	Division:	2013		2014 2015							
Account Number	Account Name	Expenditure	Original * Appropriation	Adjusted ** Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment			
667340	Payments for Easements	31,750	250,000	250,000	1,800	250,000	250,000	250,000			
727102	Principal Expense - Capital Lease	2,042,176	-	49,415,614	49,415,614	2,142,200	-	-			
727112	Interest Expense - Capital Lease	2,347,588	-	20,727,418	20,727,418	2,247,600	-	-			
767300	Bond Issuance Costs	-	1,322,000	1,322,000	-	1,322,000	-	-			
700	TOTAL FIXED AND OTHER CHARGES	4,421,515	1,572,000	71,715,032	70,144,832	5,961,800	250,000	250,000			
TOTAL	L CAPITAL IMPROVEMENTS BOND	\$159,558,770	\$386,208,300	\$852,189,426	\$802,989,138	\$211,564,600	\$490,196,900	\$484,882,500			

 $[\]ensuremath{^{*}}$ The Capital Improvements Bond Fund is budgeted and accounted for on an obligation basis.

2. Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.

61

3. The Capital Improvements Bond Fund appropriation is controlled on the Summary Object level.

^{**} The appropriation in the Capital Improvements Bond Fund is adjusted to carry forward open value of contracts from the prior year.

	Fund: Stormwater Management Department: Stormwater Management			LINE	ITEM ANA	LYSIS			
2 3 3 3 3	Division:	2013		20	014		2015		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment	
601010	Salaries of Regular Employees	\$ 3,800,108	\$ 5,547,200	\$ 5,547,200	\$ 2,922,163	\$ 4,660,800	\$ 5,449,700	\$ 5,449,700	
601060	Compensation Plan Adjustments	77,710	114,700	114,700	95,751	114,700	153,800	153,800	
601080	Salaries of Nonbudgeted Employees	-	20,000	20,000	-	-	-	-	
601100	Tuition and Training Payments	4,909	27,200	27,200	6,755	11,600	10,000	10,000	
601170	Payments for Professional Services	14,236	929,000	929,000	-	-	350,000	350,000	
601250	Health and Life Insurance Premiums	478,866	550,000	550,000	344,247	513,100	578,000	578,000	
601270	General Salary Adjustments	-	-	-	-	-	75,900	75,900	
601410	Personal Services Exp for Prelim Engineering Rpts & Studies	1,682,371	5,742,500	6,400,200	6,399,250	5,059,000	10,159,800	10,159,800	
601420	Personal Services Exp for Constr Drawings, Specs, & Cost Est	1,160,687	5,642,100	4,984,400	3,229,052	2,159,200	1,337,800	1,337,800	
601440	Personal Svcs for Post-Award Engr for Construction Projects	868,547	360,900	360,900	338,971	339,000	500,000	500,000	
100	TOTAL PERSONAL SERVICES	8,087,434	18,933,600	18,933,600	13,336,189	12,857,400	18,615,000	18,615,000	
612010	Travel	1,959	5,200	5,200	903	1,000	2,000	2,000	
612030	Meals and Lodging	3,899	6,000	6,000	3,114	5,000	4,700	4,700	
612040	Postage, Freight, and Delivery Charges	1,884	1,000	1,000	1,000	1,000	1,000	1,000	
612050	Compensation for Personally-Owned Automobiles	23,049	38,000	38,000	12,055	13,000	24,000	24,000	
612080	Motor Vehicle Operating Services	523	500	500	336	400	800	800	
612090	Reprographic Services	-	60,000	60,000	-	10,000	-	-	
612240	Testing and Inspection Services	7,884	50,000	50,000	20,000	10,000	20,000	20,000	
612250	Court Reporting Services	12,895	10,000	10,000	10,000	10,000	10,000	10,000	
612330	Rental Charges	134	1,000	1,000	-	300	-	-	
612360	Advertising	-	80,000	80,000	-	80,000	-	-	
612380	Soil and Rock Mechanics Investigation	-	25,000	25,000	25,000	10,000	25,000	25,000	
612410	Governmental Service Charges	-	-	-	-	-	500	500	
612490	Contractual Services, N.O.C.	200,975	14,108,100	14,108,100	4,055,662	5,147,500	14,577,000	11,497,000	
612520	Waste Material Disposal Charges	43,882	60,000	60,000	46,000	25,000	54,000	54,000	
612600	Repairs to Collection Facilities	66,063	50,000	50,000	-	40,000	50,000	50,000	

501 50000	Fund: Stormwater Management Department: Stormwater Management			LINE	ITEM ANA	LYSIS		
20000	Division:	2013		20)14		20	015
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment
612620	Repairs to Waterway Facilities	2,215,262	2,676,100	2,676,100	2,370,825	1,809,500	2,500,000	2,500,000
612820	Computer Software Maintenance	-	1,000	1,000	-	-	-	-
612860	Repairs to Vehicle Equipment	-	9,900	9,900	4,000	2,500	-	-
612990	Repairs, N.O.C.	3,472	12,000	12,000	9,000	5,000	5,000	5,000
200	TOTAL CONTRACTUAL SERVICES	2,581,881	17,193,800	17,193,800	6,557,895	7,170,200	17,274,000	14,194,000
623520	Office, Printing, & Photo Supplies, Equipment, & Furniture	2,198	4,500	4,500	3,406	4,000	5,000	5,000
623560	Processing Chemicals	4,405	5,000	5,000	5,000	4,400	5,000	5,000
623680	Tools and Supplies	-	6,000	6,000	4,772	500	2,000	2,000
623700	Wearing Apparel	522	6,000	6,000	2,000	500	2,000	2,000
623850	Communications Supplies	-	500	500	-	200	-	-
623990	Materials and Supplies, N.O.C.	3,511	195,000	195,000	175,631	50,000	330,000	330,000
300	TOTAL MATERIALS AND SUPPLIES	10,635	217,000	217,000	190,809	59,600	344,000	344,000
645620	Waterway Facilities Structures	19,366,485	10,916,600	9,153,300	6,738,394	5,636,700	4,510,800	4,510,800
645690	Capital Projects, N.O.C.	-	2,841,200	2,841,200	-	-	1,500,000	1,500,000
645720	Preservation of Waterway Facility Structures	-	-	1,763,300	167,172	159,300	2,795,400	2,795,400
500	TOTAL CAPITAL PROJECTS	19,366,485	13,757,800	13,757,800	6,905,566	5,796,000	8,806,200	8,806,200
656010	Land	1,020,200	125,000	125,000	-	125,000	1,511,800	1,000,000
600	TOTAL LAND	1,020,200	125,000	125,000	-	125,000	1,511,800	1,000,000
667020	Equity Transfer	-	-	-	-	-	-	2,500,000
667340	Payments for Easements	-	680,200	680,200	-	373,000	450,000	450,000
700	TOTAL FIXED AND OTHER CHARGES	-	680,200	680,200	-	373,000	450,000	2,950,000
TOTAL	STORMWATER MANAGEMENT	\$ 31,066,635	\$ 50,907,400	\$ 50,907,400	\$ 26,990,459	\$ 26,381,200	\$ 47,001,000	\$ 45,909,200

^{2.} Departmental appropriation totals for salaries in the Line Item Analysis may differ from those contained in the Position Analysis by a factor identified to adjust for vacancies. Additionally, Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.

901	Fund: Reserve Claim Department:		LINE ITEM ANALYSIS						
	Division:	2013		20	014		2015		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/14	Expenditure (Committed Budget plus Disbursement) 09/30/14	Estimated Expenditure 12/31/14	Proposed by Executive Director	Recommended by Committee on Budget and Employment	
601090	Employee Claims	\$ 4,769,637	\$ 10,000,000	\$ 10,000,000	\$ 2,532,103	\$ 3,082,100	\$ 10,000,000	\$ 10,000,000	
100	TOTAL PERSONAL SERVICES	4,769,637	10,000,000	10,000,000	2,532,103	3,082,100	10,000,000	10,000,000	
667220	General Claims & Emerg Repair & Replacement Costs	205,917	54,000,000	54,000,000	1,946,175	41,600,000	24,000,000	24,000,000	
700	TOTAL FIXED AND OTHER CHARGES	205,917	54,000,000	54,000,000	1,946,175	41,600,000	24,000,000	24,000,000	
TOTAL	RESERVE CLAIM FUND	\$ 4,975,554	\$ 64,000,000	\$ 64,000,000	\$ 4,478,278	\$ 44,682,100	\$ 34,000,000	\$ 34,000,000	

64

^{2.} Public Act 098-0069 signed into law by the Governor on July 15, 2013, amends the District Act to expand the type of claims payable from the Reserve Claim Fund, as well as the legal costs in defense of such claims, and lastly, removes the \$10,000 threshold for repairs to the District's facilities in the event of fire or emergency.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO HISTORICAL INFORMATION AND MILESTONES

- 1837 Chicago was incorporated as a city. The city's primary source of drinking water is Lake Michigan. Due to poor drainage and discharges to Lake Michigan, water-borne diseases plague the city throughout the 1800s.
- 1856 Sewers were constructed to collect the city's wastewater.

 These sewers emptied into the Chicago River, ultimately becoming a health hazard.
- 1885 A torrential rainstorm flushed pollution from the river into Lake Michigan prompting public concern for ways to safeguard the quality of the drinking water.
- 1886 A Drainage and Water Supply Commission was created to study the growing problem of contamination of the city's water supply.
- 1889 Illinois Legislature passed an act enabling the establishment of the Sanitary District of Chicago to keep sewage pollution out of Lake Michigan. Referendum passed creating the Sanitary District of Chicago.
- 1892 Ground was broken on the 28-mile Main Channel of the Sanitary and Ship Canal. The canal would reverse the flow of the Chicago River by linking it to the Des Plaines River, and thus prevent pollution of Lake Michigan by the river.
- 1900 Main Channel of the Sanitary and Ship Canal opened.
- 1907 Main Channel Extension including Lockport Powerhouse and Lock completed.
- 1910 North Shore Channel completed.
- 1919 District's Board of Commissioners passed an ordinance committing the District to the construction and operation of treatment plants.
- 1922 The 16-mile Calumet-Sag Channel became operational; Calumet Treatment Plant placed into operation.
- 1928 North Side Treatment Plant placed into operation.
- 1930 U.S. Supreme Court Decree issued reducing diversion of Lake Michigan in steps. Effective January 1, 1939, diversion reduced to 1,500 cubic feet per second; West Side Treatment Plant placed into operation.
- 1939 Southwest Treatment Plant placed into operation.
- 1949 West and Southwest Treatment Plants combined.
- District's name changed to the Metropolitan Sanitary District of Greater Chicago (MSDGC); the Chicago Sewage Disposal System named one of the Seven Wonders of Modern Engineering by the American Society of Civil Engineers (ASCE), recognizing the size of the system, including intercepting sewers, treatment plants, and waterways.
- 1956 Referendum, enabled by legislation, passed adding 412 square miles to the District.
- 1961 Lemont Treatment Plant placed into operation.
- 1963 Hanover Park Treatment Plant placed into operation.
- 1969 Board adopted the Sewage and Waste Control Ordinance, prohibiting any waste discharge into Lake Michigan.
- 1971 Fulton County "Prairie Plan" began whereby abandoned strip-mines were reclaimed into agriculturally productive land; won "Outstanding Civil Engineering Achievement Award" from the ASCE.

- 1972 District adopted the Tunnel and Reservoir Plan (TARP) as recommended by a committee of representatives from the state, city, county, and MSDGC. The plan provided for the collection, transportation, storage, and treatment of combined rainwater and sewage that in periods of heavy rain overflowed into waterways, underpasses, and basements.
- 1975 Construction began on the 31-mile Mainstream tunnel system; Egan Treatment Plant placed into operation.
- 1977 Construction began on the Calumet tunnel system.
- 1980 O'Hare Treatment (later renamed Kirie Water Reclamation)
 Plant and Upper Des Plaines TARP tunnel system placed into operation.
- 1985 Mainstream tunnel system placed into operation-capable of storing one billion gallons of combined sewage and stormwater.
- 1986 Mainstream tunnel system received award for "Outstanding Civil Engineering Achievement" from the ASCE; 9.2 mile Calumet tunnel system placed into operation.
- 1988 Water quality improvements recognized as causing increased real estate development along the waterway system; construction begins on the Des Plaines TARP tunnel.
- 1989 District celebrated its 100th anniversary. As part of the Centennial Celebration, the District changed its name to the Metropolitan Water Reclamation District of Greater Chicago and dedicated the Centennial Fountain.
- 1990 Army Corps of Engineers and the District began construction of the O'Hare-CUP Reservoir, the first of three reservoirs in the TARP program.
- 1992- District's five Sidestream Elevated Pool Aeration Stations
- 1994 (SEPA) completed along the Calumet River system. These stations add oxygen to the waterways to enhance the aquatic environment. The District received "Outstanding Civil Achievement of 1994" by ASCE for these projects.
- 1998 O'Hare-CUP Reservoir placed into operation, capable of storing 350 million gallons of combined sewage and stormwater; North Branch tunnel placed into operation.
- 1999 Des Plaines tunnel placed into operation; construction begins on the McCook Reservoir.
- 2000 District celebrated the 100th anniversary of the reversal of the Chicago River and completed a century of protecting Chicago's water environment; construction began on Thornton Reservoir.
- 2003 Construction began on the major capital improvement program for the Calumet, North Side, and Stickney Water Reclamation Plants.
- 2004 By an act of the Illinois Legislature, the District became responsible for stormwater management in Cook County.
- TARP Phase I 109-mile tunnel system completed; all four TARP tunnel systems in operation.
- 2007 District celebrated 100th anniversary of the Lockport Powerhouse and Dam.
- 2009 Construction of the Thornton Composite Reservoir began.
- 2010 District celebrated the 100th anniversary of the North Shore Channel.
- 2014 District celebrated its 125th anniversary.

Recovering Resources, Transforming Water





THORNTON RESERVOIR

The Metropolitan Water Reclamation District of Greater Chicago's (MWRD's) 7.9 billion gallon Thornton Reservoir (pictured above and on front cover) will go online in 2015. The Thornton Reservoir is a key part of the Tunnel and Reservoir Plan and will reduce flooding and water pollution caused by sewer overflows. It will also capture floodwater from nearby Thorn Creek. The Thornton Reservoir will be connected to 36.7 miles of deep tunnels and will serve an area of 90 square miles that is home to more than 550,000 people.

NUTRIENT RECOVERY at Stickney WRP

In 2015, we will begin using a sustainable biological process to recover phosphorus from water at our Stickney Water Reclamation Plant (WRP) (pictured above right). The recovered phosphorus will be available for use as an essential agricultural nutrient and will no longer impair water quality.

DISINFECTION at O'Brien WRP and Calumet WRP

The treatment process at our O'Brien plant in Skokie and Calumet plant in Chicago will be enhanced as new state-of-the-art disinfection facilities go online in 2015. The disinfection process will inactivate bacteria and pathogens and improve the quality of the cleaned water.

DENITRITATION at John E. Egan WRP

Nitrogen in the form of ammonia can contribute to water quality problems and is energy-intensive to remove from water using existing technology. In 2015, we will begin removing excess nitrogen from water at our Egan plant in Schaumburg using an innovative and efficient process that

will save as much energy as is used by 4,500 homes per year.

BIOSOLIDS

Biosolids are a superior and environmentally-friendly alternative to chemical fertilizer. We are working with the City of Chicago to produce biosolids compost using wood chips. We are also working with the State of Illinois to allow us to develop a residential distribution system to provide biosolids as a high-quality topsoil amendment.

WATER REUSE

The MWRD is working with the Illinois Department of Natural Resources and large industrial users in the Stickney and Calumet WRP service areas to explore options for the reuse of treated water within the industrial community. By offering this water to industrial users for non-potable use, industries can realize significant cost savings and additional fresh lake water allocations will be conserved and/or made available for communities in need.

DIGESTER ENERGY

The MWRD's anaerobic digesters produce biogas which is used as a fuel to produce steam to heat buildings and treatment plant processes. We are investigating the collection of organic solids to add these waste streams to the digestion process to increase biogas production and divert this waste from landfills.

Metropolitan Water Reclamation District of Greater Chicago

100 East Erie Street Chicago, Illinois 60611-3154