

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 93-1049 in November 2004. This law gives the District responsibility for stormwater management for all of Cook County, including areas that currently lie outside the District's boundaries.

The District has established six 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 the activities of the watershed planning councils.

Stormwater Management Fund:

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Protecting Our Water Environment

Metropolitan Water Reclamation District of Greater Chicago

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September 11, 2018

Mr. John P. Murray
Acting Executive Director
OFFICE

Dear Sir:

Subject: 2019 Program for the Stormwater Management Fund

The Stormwater Management Fund's program for 2019, as prepared in detail, is transmitted herewith. The budget presentation supports the request for funding of the 2019 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 narrative provides a summary of the fund, 2019 major initiatives and challenges, and 2018 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 2019.

Respectfully submitted,

Catherine A. O'Connor *Thomas M. Conway*

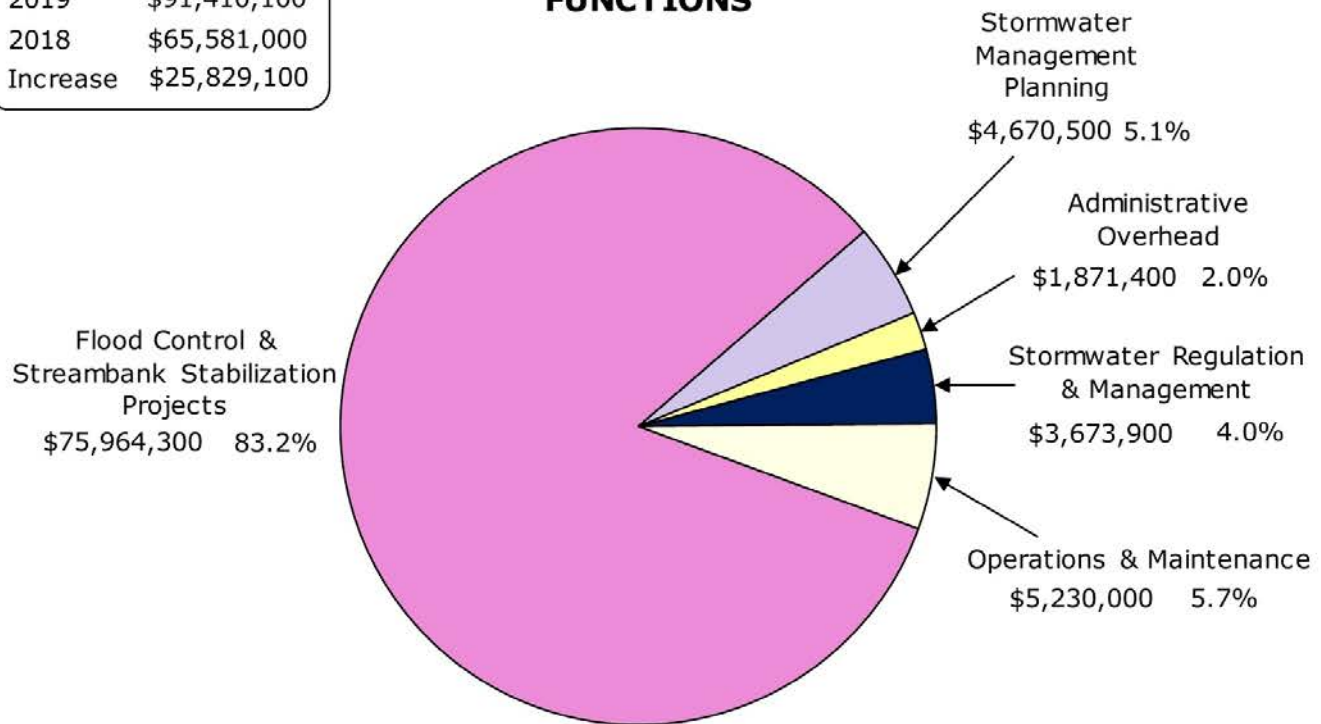
Catherine A. O'Connor
Director of Engineering

Thomas M. Conway
Acting Director of Maintenance & Operations

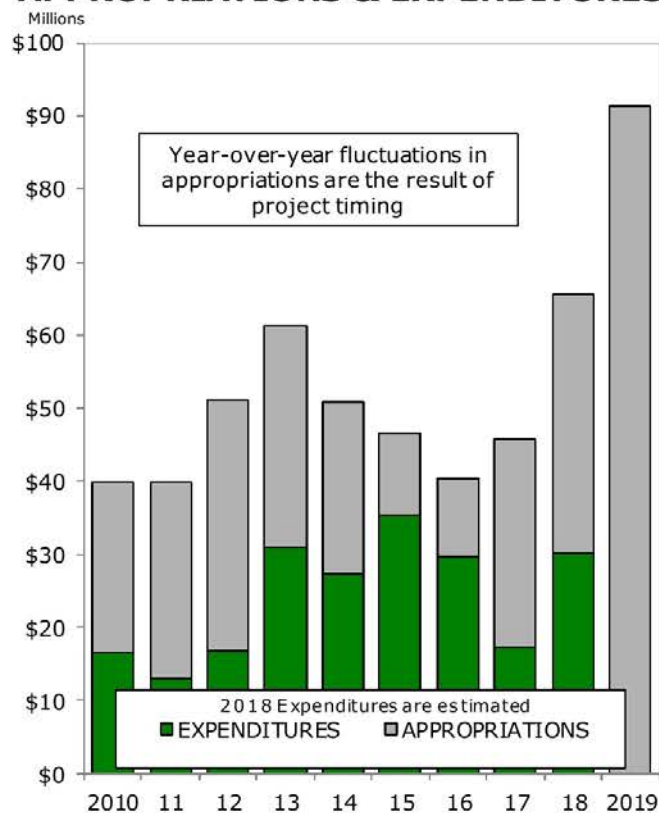
STORMWATER MANAGEMENT

2019	\$91,410,100
2018	\$65,581,000
Increase	\$25,829,100

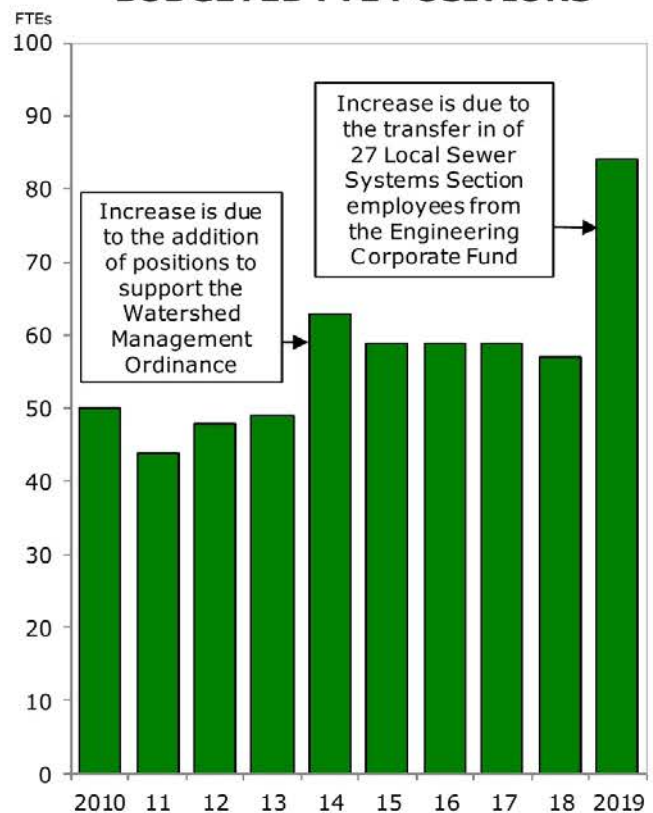
FUNCTIONS



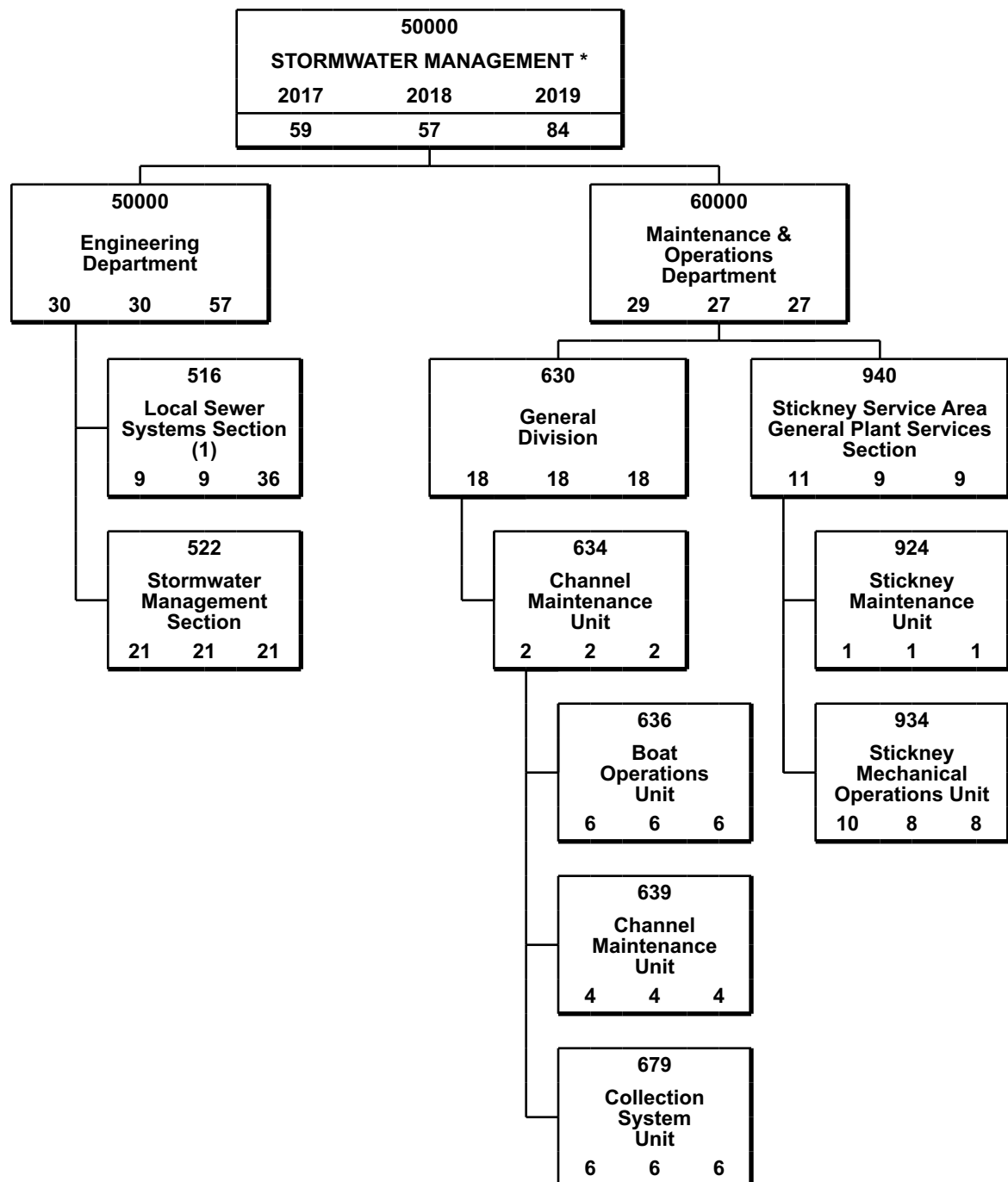
APPROPRIATIONS & EXPENDITURES



BUDGETED FTE POSITIONS



STORMWATER MANAGEMENT



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 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). Through a variety of engineered solutions, both green and gray, and flood-prone property acquisitions, the District's Stormwater Management Program addresses both regional and local flooding problems throughout Cook County. The District has made significant investments in developing over 140 capital stormwater projects since it assumed the authority for stormwater management in 2004. The implementation of these projects, which range in both size and scope, provide flood protection for thousands of homes, businesses, and critical infrastructure. Information on the Stormwater Management Program can be found at stormwater.mwrdd.org.

The Stormwater Management Fund supports the work of the Local Sewer Systems Section (LSSS), which is responsible for the implementation and enforcement of the WMO. The WMO regulates developments throughout Cook County, sewer construction within the District's service area, and requires compliance with the Infiltration/Inflow (I/I) Control Program.

Summary of 2018 Accomplishments

- Completed construction of the Cherry Creek Flood Control project, originally identified in the DWPs;
- Awarded five flood control and streambank stabilization projects, including the Addison Creek Reservoir;
- Continued design of Phase I regional projects recommended from the DWPs, including three streambank stabilization and flood control projects;
- Continued design of Phase II conceptual flood control projects identified by local governmental agencies;
- Entered into an Intergovernmental Agreement (IGA) for a pilot study with the City of Chicago to explore the effectiveness of various technologies aimed at reducing basement backups at private sites;
- Entered into IGAs for 20 Green Infrastructure and 14 Phase II shovel-ready projects based on solicitations and prioritization of projects from local communities;
- Continued the SSMP with the objective of removing debris and blockages from 532 miles of area waterways;
- Solicited applications for Green Infrastructure projects from local communities and agencies and identified partnership opportunities to assist in constructing local improvements to address flooding issues;
- Provided 112 million gallons of volume control, detention, and floodplain compensatory storage as a result of WMO enforcement;
- Conducted a technical advisory committee meeting every two months to present changes to the WMO and Technical Guidance Manual and provided status of the Watershed Specific Release Rate Study;
- Presented status of the I/I Control Program at Watershed Planning Council meetings;
- Amended the WMO on February 15, 2018 to include clarifications to better serve the District and its constituents;
- Created an Earthwork/Foundation Limited permit application to allow limited construction activities to commence prior to WMO permit issuance;
- Provided Global Positioning System (GPS) units to local municipalities as a resource to begin mapping their sewer systems in a Geographic Information System (GIS) or to improve their existing sewer system map.

Budget Highlights

The 2019 appropriation for the Stormwater Management Fund is \$91,410,100, an increase of \$25,829,100, or 39.4 percent, from 2018. The staffing level has increased from 57 to 84 positions, which includes the transfer of 27 Corporate Fund LSSS employees responsible for administering the WMO from the Corporate Fund to the Stormwater Management Fund. The estimated impact of this transfer will provide an increase of \$2.8 million in operational costs which will be partially offset by revenues generated from WMO permit review fees.

Significant features of the 2019 Budget are:

- Prioritize and implement new Green Infrastructure projects from 2018 solicitations;
- Continue engineering design for Phase I and Phase II projects and begin construction of projects that have completed final design and have been approved by the Board of Commissioners;
- Identify partnership opportunities to assist in implementing local drainage improvements and acquisition of flood-prone properties;

- Continue the SSMP to reduce flooding in urbanized areas;
- Amend the WMO to include results of the Watershed Specific Release Rate Study;
- Continue the implementation of the I/I Control Program to reduce sanitary sewer overflows and basement backups.

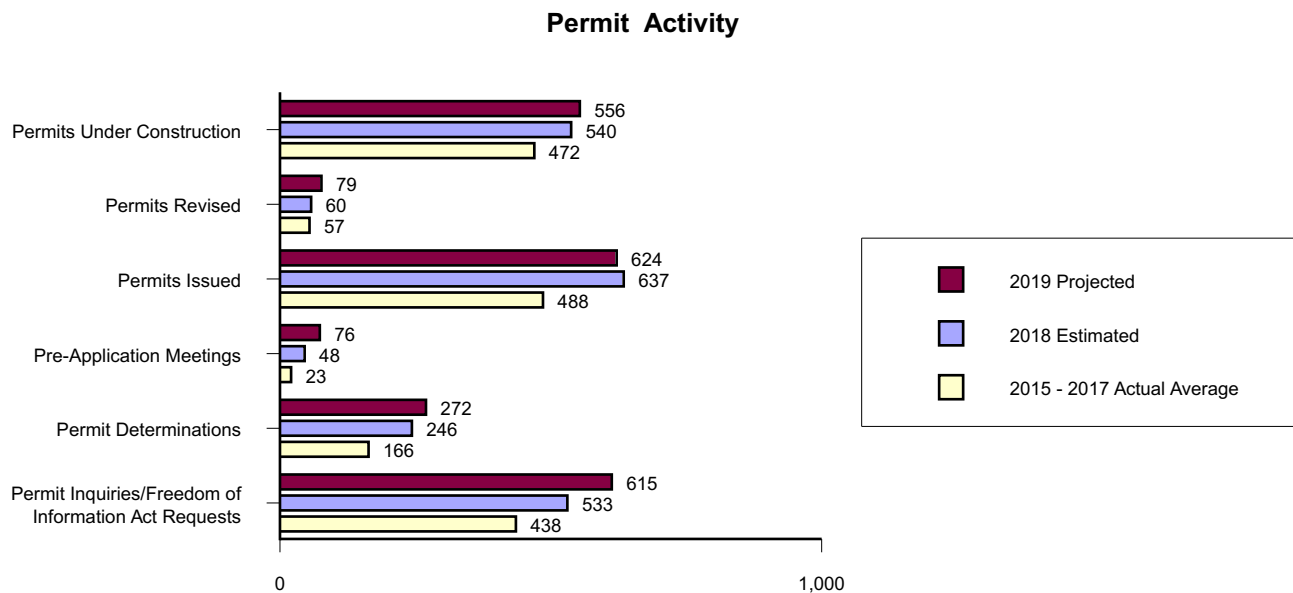
2019 Initiatives in Support of the Strategic Business Plan Include the Following:

• Add Value

The Stormwater Management Capital Improvement Program utilizes benefit-to-cost analysis developed for the recommended alternatives in the DWPs as the primary basis for prioritizing individual projects. Under the Green Infrastructure, Phase II, and flood-prone property acquisition programs, projects are prioritized based on the number of structures benefited, the cost per structure, and other factors.

LSSS staff add value in providing exemplary customer service through continuous contact with consulting engineers, developers, and contractors throughout the permit process. Permit Inquiry and Freedom of Information Act requests are processed by LSSS staff and provide historical permit information to consulting engineers for specific site locations. Permit determination letters are submitted for specific projects and LSSS staff respond if permits are required. Prior to submitting a permit application, LSSS staff routinely meet with consulting engineers and developers to discuss WMO requirements and project compliance during pre-application meetings. The total number of permit inquiries, Freedom of Information Act requests, permit determination letters, and pre-application meetings are shown on the Permit Activity exhibit.

The WMO requires the timely review of permit applications. In 2018, the average review time for an initial submittal was 10 working days and the average re-submittal response time was five working days. As illustrated in the Permit Activity exhibit, LSSS staff will issue an estimated 624 total permits in 2019, with an estimated average time from initial submittal to permit issuance of 37 working days. The number of total permits issued averaged 488 annually from 2015-2017.



After permit issuance and once construction is in progress, LSSS staff conduct site inspections to verify the work is in compliance with the approved permit. The total number of permits under construction are shown on the Permit Activity exhibit. LSSS staff meet with engineers and contractors on-site to address unknown field conditions with acceptable design revisions to minimize project delays. The total number of permit revisions are shown on the Permit Activity exhibit. LSSS staff issue and process an average of five permit violations annually.

• Excellence

The Engineering Department recently completed five stormwater master plan pilot studies to identify solutions to flooding of structures experienced in storms up to and including the 100-year design event. The findings of these studies revealed that exorbitant investments by the District and the local communities would be necessary to protect structures from flooding through traditional gray or blended green and gray infrastructure. As the District moves forward with its stormwater master planning effort for the entire county, the lessons learned in the pilot studies will be applied, and an adaptive approach will be utilized to find ways to address community issues that considers local communities' capacity and identifies potential partnership opportunities to help fund multi-objective solutions centered on stormwater management. The District has enlisted the services of two engineering consultant firms to provide program management services for additional stormwater master planning efforts, one for combined

sewer areas and another for separate sewer areas. After an assessment and review of community planning needs across Cook County is completed, additional stormwater master planning studies will be pursued in order to create an overall plan for Cook County.

Planning, design, permit review, and permit approval are conducted with the goal of excellence in mind. Work is completed timely, accurately, and with the consideration given to the service to our regulated community. Through excellence, the District plans to find opportunities for efficiency gains with a disciplined methodology, which is deeply rooted in a culture of innovation and continuous improvement.

- **Develop Employees**

Stormwater Management Fund staff include numerous licensed professional engineers, certified floodplain managers, and engineering technicians. Staff regularly attend and present papers at various conferences and seminars for professional development related to stormwater management, sewer construction and rehabilitation, site development, construction inspection, flow monitoring, and GIS.

- **Leading Partnerships**

The District has partnered with the Village of Robbins to develop a plan for stormwater improvements to address flooding along Midlothian Creek impacting approximately 140 acres and over 100 homes. The District and the Village of Robbins have enlisted numerous partners to realize this bold vision and are working together to plan, design, and identify funding for implementing a holistic plan which not only promotes resiliency, but also promotes the economic growth, health, and well-being of a community.

The District has initiated a Green Infrastructure Program that facilitates the planning, design, and construction of multiple Green Infrastructure projects throughout Cook County, in partnership with a variety of stakeholders. In the second quarter of 2018, the District solicited Green Infrastructure partnership opportunities through a call for projects from local municipalities and agencies in Cook County. Currently, the District is partnered with the City of Chicago Department of Water Management and the Chicago Public Schools to design and construct large Green Infrastructure projects at 34 Chicago Public School campuses. The District has partnered with other local municipalities to design and construct 122 regional and local stormwater management projects.

In 2018, projects under construction in partnership with municipalities included numerous Green Infrastructure and Phase II local stormwater improvement projects.

The District developed the WMO and Technical Guidance Manual in partnership with all stakeholders and remains committed to them and their concerns. LSSS staff respond to thousands of telephone and written inquiries from consulting engineers, developers, citizens, and public officials regarding the WMO.

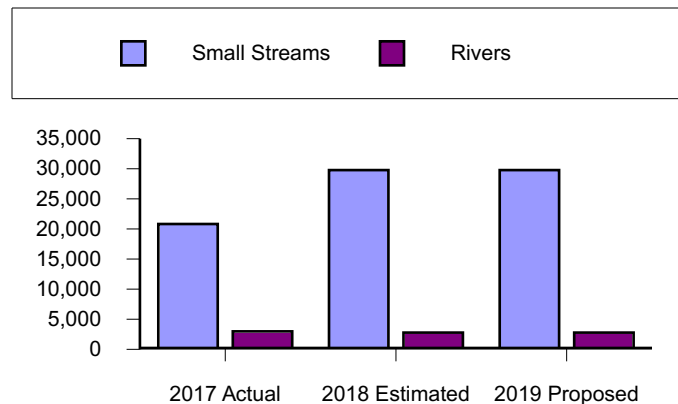
- **Technology**

In 2017, the District purchased six GPS units to provide sewer system owners with resources to begin mapping their sewer systems in a GIS or to improve their existing sewer system maps. In return, sewer system owners provide the District with their sanitary, storm, and combined sewer data. To obtain GPS equipment and related software at no cost, sewer system owners must enter into an Intergovernmental Agreement with the District. As of January 2018, seven municipalities have entered into an Intergovernmental Agreement with the District to utilize the GPS units.

SMALL STREAMS MAINTENANCE PROGRAM

Through the management of the SSMP, the Maintenance & Operations 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**



CAPITAL IMPROVEMENT PROGRAM

The focus of many of the Stormwater Capital Improvement Program 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, such as vegetated geogrids, geocells, turf reinforcing mats, and native vegetation, wherever practical.

The Board of Commissioners prioritizes 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 is flood control, which addresses regional overbank flooding.

A map of streambank stabilization project locations is provided on page 527, while maps of flood control projects including reservoirs, capital improvement projects, and Green Infrastructure and other projects the District is implementing with local municipalities can be found on pages 528 - 530.

FLOOD-PRONE PROPERTY ACQUISITION PROGRAM

The District's statutory authority for Stormwater Management in Cook County (70 ILCS 2605/7h) was amended in 2014 to allow for the acquisition of flood-prone properties. Subsequent to amending the Cook County Stormwater Management Plan to be consistent with Public Act 98-0652, the District's Board of Commissioners adopted a policy on selection and prioritization of projects for acquiring flood-prone property. In late 2017, the District solicited applications from municipalities and townships for assistance with the acquisition of flood-prone structures located throughout Cook County. The District previously entered into IGAs with several municipalities and the Cook County Land Bank Authority to acquire 58 flood-prone properties to date. Upon acquisition, the structures are removed and deed restrictions are placed on the acquired properties requiring them to remain as open spaces in perpetuity.

INFILTRATION/INFLOW CONTROL PROGRAM ADMINISTRATION

The District's I/I Control Program is implemented due to special conditions imposed within the National Pollutant Discharge Elimination System permits issued by the Illinois Environmental Protection Agency for the District's water reclamation plants. The District is required to take action to reduce excessive I/I within the local sanitary sewer systems. The District administers the I/I Control Program to ensure separate sewer communities and other satellite entities maintain their sanitary sewer systems in order to reduce sanitary sewer overflows and basement backups and to minimize extraneous flows transported to District facilities due to defective system components or illegal connections.

Stormwater Management Fund Program

Projects Under Construction

Project Name	Project Number	Est. Construction Cost	MWRD 2019 Appropriation	Award Date	Est. Substantial Completion Date
Flood Control/Streambank Stabilization Project on Tinley Creek in Crestwood, CSA	10-883-AF	\$ 7,583	\$ 363	Sep 2015	Jan 2020
Streambank Stabilization/Flood Control Project on Tinley Creek in Orland Hills, CSA	10-882-DF	664	133	Apr 2016	Aug 2020
McDermott Drive/Morris Avenue Storm Sewer Improvements, SSA	16-IGA-04	2,706	958	Jul 2016	Jul 2019
Installation of Green Infrastructure at Chicago Public Schools, Various Locations	15-IGA-20	16,000	10,575	Sep 2016	Dec 2022
* Buffalo Creek Reservoir Expansion, NSA	13-370-3F	1,081	540	Feb 2018	Mar 2020
Flood Control Project at Arrowhead Lake in Palos Heights, CSA	10-883-BF	1,200	1,165	Sep 2018	Jul 2022
Flood Control Project on Natalie Creek in Oak Forest and Midlothian, CSA	14-252-5F	7,569	3,500	Sep 2018	Jan 2021
Land Acquisition for the Flood Control Project on Midlothian Creek in Robbins, CSA	17-IGA-02	200	100	Sep 2018	Oct 2019
Parking Lot Pavers and a Bioinfiltration Basin at the Arlington Heights Police Station, NSA	18-IGA-01	358	100	Sep 2018	Mar 2019
Green Alleys Project in Harwood Heights, NSA	18-IGA-09	384	234	Sep 2018	Jun 2019
Storm Sewers in Reuters Subdivision in Franklin Park, SSA	18-IGA-23	378	189	Sep 2018	Jul 2019
Streambank Stabilization Projects for Addison Creek, SSA	14-108-5F	1,206	886	Oct 2018	Aug 2022
Stormwater Infiltration Through the Establishment of Native Habitat at Three Chicago Parks, Various Locations	18-IGA-04	239	189	Oct 2018	Apr 2019
Green Alleys Project in Maywood, SSA	18-IGA-10	841	641	Oct 2018	Jun 2019
Garfield Park Community Eco Orchard in Chicago, SSA	18-IGA-05	500	400	Nov 2018	Jan 2019
University of Illinois at Chicago Green Infrastructure at the Arthington Mall, SSA	18-IGA-18	242	192	Nov 2018	Jan 2019
Groveland Avenue Levee Improvements in Riverside, SSA	18-IGA-20	2,506	1,052	Nov 2018	Mar 2019
Expansion of Existing Detention Basin in Orland Park, CSA	18-IGA-33	558	558	Nov 2018	Sep 2019
Permeable Pavement and Rain Gardens in Posen, CSA	18-IGA-15	125	125	Dec 2018	Apr 2019
New Storm Sewers and Outfall to the North Shore Channel in Lincolnwood, NSA	18-IGA-22	1,392	1,392	Dec 2018	Feb 2019
Culvert Improvements in Elk Grove Village, NSA	18-IGA-30	1,250	646	Dec 2018	Dec 2020
Total Projects Under Construction		\$ 46,982	\$ 23,938		

Awards in 2019

Project Name	Project Number	Est. Construction Cost	MWRD 2019 Appropriation	Duration (days)	Est. Award Date
Streambank Stabilization Project along Calumet Union Drainage Ditch, CSA	10-882-BF	\$ 1,568	\$ 634	1,261	Jan 2019
Flood Control Project on Midlothian Creek in Robbins, CSA	14-253-5F	11,000	4,100	502	Jan 2019
Storm Sewer Improvements in La Grange, SSA	16-IGA-02	3,000	3,000	369	Jan 2019
Green Alleys Project in Chicago, CSA	18-IGA-03	197	197	59	Jan 2019
Stormwater Storage in Mt. Prospect, NSA	18-IGA-25	1,862	1,113	681	Jan 2019
Storm Sewers in Glenview, NSA	18-IGA-27	500	500	170	Apr 2019
Storm Sewers and Outfall in Forest View, SSA	18-IGA-28	1,000	1,000	150	Apr 2019
Stormwater Storage Areas in Niles, NSA	18-IGA-31	4,217	504	585	Apr 2019
Relief Sewers to Mitigate Basement Backups in Arlington Heights, NSA	18-IGA-34	1,370	1,370	417	Apr 2019
Parking Lot Conversion in Park Ridge, NSA	18-IGA-08	267	267	59	May 2019
Wetland and Park Storage Projects in Winnetka, NSA	18-IGA-24	3,238	418	424	May 2019
* Construction of a Levee along Thorn Creek at Arquilla Park in Glenwood, CSA	15-IGA-14	387	200	306	Jun 2019
Lake Catherine Commuter Parking Lot in Palos Heights, CSA	18-IGA-14	184	184	59	Jun 2019
Storm Sewers Connection to Existing Des Plaines River Outfall in Forest Park, SSA	18-IGA-21	5,268	1,167	424	Jun 2019
Flood Control Project on Farmers and Prairie Creeks, NSA	12-056-5F	14,100	6,183	713	Jul 2019
Flood Control Project on 1st Avenue from Roosevelt Road to Cermak Road, SSA	14-111-5F	5,200	2,600	452	Jul 2019
Flood Control in the vicinity of 131st Street and Cypress Drive in Palos Heights, CSA	14-259-5F	200	200	352	Jul 2019
Winchester Avenue Green Infrastructure Project in Calumet Park, CSA	18-IGA-02	325	163	300	Jul 2019
Orland Park Nature Center and Green Roofs in Orland Park, CSA	18-IGA-13	146	73	300	Aug 2019
Flood Control Project for Deer Creek, CSA	10-884-BF	6,500	1,720	683	Sep 2019
Flood Control Project in the Worth Woods Subdivision in Worth, CSA	14-256-5F	2,500	1,250	102	Oct 2019
Green Infrastructure for the Peterson Ridge Metra Station in Chicago, NSA	18-IGA-11	1,082	541	59	Nov 2019
Total 2019 Awards		\$ 64,111	\$ 27,384		

Projects Under Development

Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date
Flood Control Project on the West Fork of the North Branch of the Chicago River, NSA	16-IGA-18	\$ 6,600	729	Feb 2020
Flood Control Project along Plainfield Road in Countryside, La Grange, McCook, and Lyons Township, SSA	14-112-5F	17,000	729	Mar 2020
Flood Control Project in the vicinity of 135th Street and Central Avenue in Crestwood, CSA	14-258-5F	9,300	317	Mar 2020
Storm Sewers and Outfall to Flagg Creek in Western Springs, SSA	18-IGA-32	192	240	Mar 2020
Flood Control Project for the Washington Street Area in Blue Island, CSA	14-260-5F	5,700	682	May 2020
Flood Control Project on Willow Road at McDonald Creek Tributary A in Prospect Heights, NSA	14-371-5F	1,800	670	May 2020
Flood Control Project on Calumet-Sag Tributary C in Bremen Township and Midlothian, CSA	14-257-5F	3,600	317	Jun 2020
Culvert Upsizing and Channel Improvements on Boca Rio Ditch in Oak Forest, CSA	18-IGA-26	203	120	Jun 2020
Flood Control Project on Central Road from the Des Plaines River to Greenwood Road, NSA	14-065-5F	12,000	683	Feb 2021
Total Future Awards		\$ 56,395		
Cumulative Projects Under Construction, 2019 Awards, and Future Awards		\$ 167,488		

* 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.

CAPITAL PROJECTS LISTED BY SERVICE AREA - STORMWATER MANAGEMENT FUND

The following is a list of stormwater, pay-as-you-go 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 2019 award, or under development.

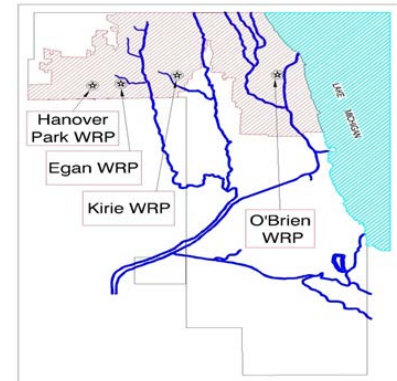
STICKNEY SERVICE AREA (SSA)



Stickney Water Reclamation Plant (SWRP)

		Estimated Substantial Completion Date	Estimated Construction Cost
Projects Under Construction			
14-108-5F	Streambank Stabilization Projects for Addison Creek, SSA	8/22	\$ 1,206,406
15-IGA-20	Installation of Green Infrastructure at Chicago Public Schools, Various Locations	12/22	16,000,000
16-IGA-04	McDermott Drive/Morris Avenue Storm Sewer Improvements, SSA	7/19	2,706,000
18-IGA-04	Stormwater Infiltration Through the Establishment of Native Habitat at Three Chicago Parks, Various Locations	4/19	238,930
18-IGA-05	Garfield Park Community Eco Orchard in Chicago, SSA	1/19	500,000
18-IGA-10	Green Alleys Project in Maywood, SSA	6/19	841,110
18-IGA-18	University of Illinois at Chicago Green Infrastructure at the Arthington Mall, SSA	1/19	242,000
18-IGA-20	Groveland Avenue Levee Improvements in Riverside, SSA	3/19	2,506,028
18-IGA-23	Storm Sewers in Reuters Subdivision in Franklin Park, SSA	7/19	378,000
		Total	\$ 24,618,474
Projects for 2019 Award			
14-111-5F	Flood Control Project on 1st Avenue from Roosevelt Road to Cermak Road, SSA		\$ 5,200,000
16-IGA-02	Storm Sewer Improvements in La Grange, SSA		3,000,000
18-IGA-21	Storm Sewers Connection to Existing Des Plaines River Outfall in Forest Park, SSA		5,268,000
18-IGA-28	Storm Sewers and Outfall in Forest View, SSA		1,000,000
		Total	\$ 14,468,000
Projects Under Development			
14-112-5F	Flood Control Project along Plainfield Road in Countryside, La Grange, McCook, and Lyons Township, SSA		\$ 17,000,000
18-IGA-32	Storm Sewers and Outfall to Flagg Creek in Western Springs, SSA		191,907
		Total	\$ 17,191,907
		Stickney Service Area Grand Total	\$ 56,278,381

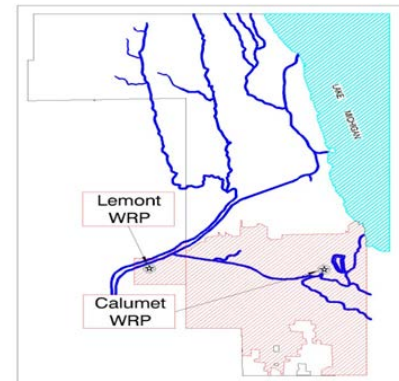
NORTH SERVICE AREA (NSA)



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

		Estimated Substantial Completion Date	Estimated Construction Cost
Projects Under Construction			
13-370-3F	* Buffalo Creek Reservoir Expansion, NSA	3/20	\$ 1,081,000
18-IGA-01	Parking Lot Pavers and a Bioinfiltration Basin at the Arlington Heights Police Station, NSA	3/19	358,000
18-IGA-09	Green Alleys Project in Harwood Heights, NSA	6/19	383,984
18-IGA-22	New Storm Sewers and Outfall to the North Shore Channel in Lincolnwood, NSA	2/19	1,392,000
18-IGA-30	Culvert Improvements in Elk Grove Village, NSA	12/20	1,250,000
		Total	\$ 1,822,984
Projects for 2019 Award			
12-056-5F	Flood Control Project on Farmers and Prairie Creeks, NSA		\$ 14,100,000
18-IGA-08	Parking Lot Conversion in Park Ridge, NSA		267,000
18-IGA-11	Green Infrastructure for the Peterson Ridge Metra Station in Chicago, NSA		1,082,000
18-IGA-24	Wetland and Park Storage Projects in Winnetka, NSA		3,237,918
18-IGA-25	Stormwater Storage in Mt. Prospect, NSA		1,862,322
18-IGA-27	Storm Sewers in Glenview, NSA		500,000
18-IGA-31	Stormwater Storage Areas in Niles, NSA		4,216,610
18-IGA-34	Relief Sewers to Mitigate Basement Backups in Arlington Heights, NSA		1,370,000
		Total	\$ 26,635,850
Projects Under Development			
14-065-5F	Flood Control Project on Central Road from the Des Plaines River to Greenwood Road, NSA		\$ 12,000,000
14-371-5F	Flood Control Project on Willow Road at McDonald Creek Tributary A in Prospect Heights, NSA		1,800,000
16-IGA-18	Flood Control Project on the West Fork of the North Branch of the Chicago River, NSA		6,600,000
		Total	\$ 20,400,000
		North Service Area Grand Total	\$ 48,858,834

CALUMET SERVICE AREA (CSA)



Calumet Water Reclamation Plant (CWRP)


		Estimated Substantial Completion Date	Estimated Construction Cost
Projects Under Construction			
10-882-DF	Streambank Stabilization/Flood Control Project on Tinley Creek in Orland Hills, CSA	8/20	\$ 664,000
10-883-AF	Flood Control/Streambank Stabilization Project on Tinley Creek in Crestwood, CSA	1/20	7,583,000
10-883-BF	Flood Control Project at Arrowhead Lake in Palos Heights, CSA	7/22	1,200,000
14-252-5F	Flood Control Project on Natalie Creek in Oak Forest and Midlothian, CSA	1/21	7,569,409
17-IGA-02	Land Acquisition for the Flood Control Project on Midlothian Creek in Robbins, CSA	10/19	200,000
18-IGA-15	Permeable Pavement and Rain Gardens in Posen, CSA	4/19	125,000
18-IGA-33	Expansion of Existing Detention Basin in Orland Park, CSA	9/19	558,000
		Total	\$ 17,899,409
Projects for 2019 Award			
10-882-BF	Streambank Stabilization Project along Calumet Union Drainage Ditch, CSA		\$ 1,568,000
10-884-BF	Flood Control Project for Deer Creek, CSA		6,500,000
14-253-5F	Flood Control Project on Midlothian Creek in Robbins, CSA		11,000,000
14-256-5F	Flood Control Project in the Worth Woods Subdivision in Worth, CSA		2,500,000
14-259-5F	Flood Control in the vicinity of 131st Street and Cypress Drive in Palos Heights, CSA		200,000
15-IGA-14	* Construction of a Levee along Thorn Creek at Arquilla Park in Glenwood, CSA		387,000
18-IGA-02	Winchester Avenue Green Infrastructure Project in Calumet Park, CSA		325,380
18-IGA-03	Green Alleys Project in Chicago, CSA		197,000
18-IGA-13	Orland Park Nature Center and Green Roofs in Orland Park, CSA		146,000
18-IGA-14	Lake Catherine Commuter Parking Lot in Palos Heights, CSA		184,000
		Total	\$ 23,007,380

Calumet Water Reclamation Plant (CWRP)

		Estimated Construction Cost
Projects Under Development		
14-257-5F	Flood Control Project on Calumet-Sag Tributary C in Bremen Township and Midlothian, CSA	\$ 3,600,000
14-258-5F	Flood Control Project in the vicinity of 135th Street and Central Avenue in Crestwood, CSA	9,300,000
14-260-5F	Flood Control Project for the Washington Street Area in Blue Island, CSA	5,700,000
18-IGA-26	Culvert Upsizing and Channel Improvements on Boca Rio Ditch in Oak Forest, CSA	203,094
Total		<u>\$ 18,803,094</u>
Calumet Service Area Grand Total		<u>\$ 59,709,883</u>
Capital Projects Grand Total - All Service Areas		<u>\$ 167,489,098</u>

* These projects are funded by the Capital Improvements Bond Fund and the Stormwater Management Fund.

Streambank Stabilization Project on Tinley Creek, CSA

Project Number	10-882-AF	
Service Area	Calumet	
Location	Orland Park, IL	
Engineering Consultant	Michael Baker International, Inc.	
Engineering Contractor	To be determined	
Estimated Construction Cost	\$3,806,000.00	
Contract Award Date	July-19	
Substantial Completion Date	May-23	
Project Description	This project will stabilize approximately 2,200 linear feet of Tinley Creek between 86th Avenue and Crystal Creek Drive and 2,800 linear feet between 151st Street and Oriole Court, at two locations in the Village of Orland Park.	
Project Justification	Safety/Regulatory. This project will protect structures and infrastructure in imminent danger of failure due to active streambank erosion.	
Project Status	Design	

Streambank Stabilization Project along Calumet Union Drainage Ditch, CSA

Project Number 10-882-BF

Service Area Calumet

Location Markham, IL

Engineering Consultant Michael Baker International, Inc.

Engineering Contractor To be determined

Estimated Construction Cost \$1,568,000.00

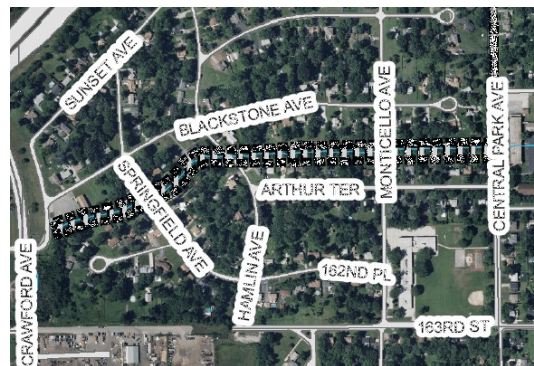
Contract Award Date January-19

Substantial Completion Date July-22

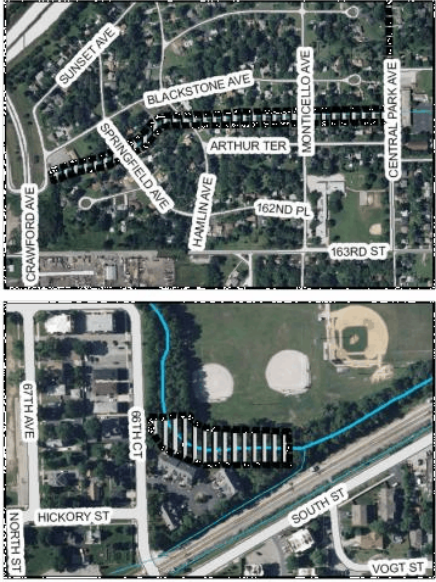
Project Description This project will stabilize approximately 3,559 linear feet of the Calumet Union Drainage Ditch, between Sunset and Central Park Avenues, in the City of Markham. The project will require one year of monitoring and maintenance after the substantial completion.

Project Justification Safety/Regulatory. This project will protect 42 residential structures and infrastructure in imminent danger of failure from active streambank erosion and flooding.

Project Status Design



Streambank Stabilization Project along Midlothian Creek in Tinley Park, CSA

Project Number	10-882-CF	
Service Area	Calumet	
Location	Tinley Park, IL	
Engineering Consultant	Michael Baker International, Inc.	
Engineering Contractor	To be determined	
Estimated Construction Cost	\$645,000.00	
Contract Award Date	November-18	
Substantial Completion Date	January-22	
Project Description	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.	
Project Justification	Safety/Regulatory. This project will protect structures and infrastructure in imminent danger of failure from active streambank erosion and flooding.	
Project Status	Design	

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

Project Number	10-882-DF
Service Area	Calumet
Location	Orland Hills, IL
Engineering Consultant	CH2M Hill Engineers, Inc.
Engineering Contractor	Cardno, Inc.
Estimated Construction Cost	\$664,000.00
Contract Award Date	April-16
Substantial Completion Date	August-20



Project Description	This project consists of naturalized channel stabilization/flood control on Tinley Creek, from Lake Lorin to 88th Avenue in Orland Hills. A failing pipe will be removed and instead of replacing it, a meandering channel will be created with native landscaping. This project is in the Cal-Sag Channel Watershed.
Project Justification	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	Construction

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

Project Number 10-883-AF

Service Area Calumet

Location Crestwood, IL

Engineering Consultant CH2M Hill Engineers, Inc.

Engineering Contractor Industria, Inc.

Estimated Construction Cost \$7,583,000.00

Contract Award Date September-15

Substantial Completion Date January-20

Project Description This project will increase the conveyance capacity of Tinley Creek for about 2,000 feet downstream of Central Avenue in Crestwood. This project is in the Cal-Sag Channel Watershed.

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

Project Status Construction



Flood Control Project at Arrowhead Lake in Palos Heights, CSA

Project Number 10-883-BF

Service Area Calumet

Location Palos Heights, IL

Engineering Consultant CH2M Hill Engineers, Inc.

Engineering Contractor To be determined

Estimated Construction Cost \$1,200,000.00

Contract Award Date September-18

Substantial Completion Date July-22

Project Description This project will raise an existing bicycle 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 Federal Emergency Management Agency Zone A floodplain.

Project Status Design



Flood Control Project for Deer Creek, CSA

Project Number 10-884-BF

Service Area Calumet

Location Ford Heights, IL

Engineering Consultant Black & Veatch Corporation, Inc.

Engineering Contractor To be determined

Estimated Construction Cost \$6,500,000.00

Contract Award Date September-19

Substantial Completion Date August-21

Project Description This project reduces flooding damages by increasing channel conveyance and raising a berm for about 3,000 feet between U.S. Route 30 and Hammond Lane, within the Village of Ford Heights. The project includes the construction of vegetated berm, stabilization of bank slopes, and placement of pools and rock riffles as well as diverse riparian plantings.

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

Project Status Design



Addison Creek Reservoir, SSA

Project Number 11-186-3F

Service Area Stickney

Location Bellwood, IL

Engineering Consultant Christopher B. Burke Engineering, Ltd.

Engineering Contractor To be determined

Estimated Construction Cost \$95,155,000.00

Contract Award Date December-18

Substantial Completion Date December-21


Project Description This project will create an approximately 600 acre-foot flood control reservoir in Bellwood just north of Washington Boulevard and east of Addison Creek. This project includes reservoir excavation and installation of necessary appurtenances for operation of the facility, such as control structure, inlet structure, spillway, piping, and a pumping station.

Project Justification This project, along with the Addison Creek Channel Improvements project, will help alleviate public health and safety concerns by reducing overbank flooding to approximately 2,200 structures along Addison Creek from Northlake to Broadview. Approximately 1,700 of 2,200 benefiting structures will be removed from the floodplain. In addition to providing flood control benefits, this reservoir will serve as compensatory storage for the channel improvement project. The District will operate and maintain the control and inlet structures, spillway, piping and pump station, while the Village of Bellwood will maintain the grounds, including landscaping, fencing, and access roadways. The impact of these operations on the District will be minor and are expected to result in redirecting manpower toward facility operations with no net change in total position costs and with a negligible impact on the District's overall energy budget.

Project Status Design



Addison Creek Channel Improvements, SWRP

Project Number	11-187-3F	
Service Area	Stickney	
Location	Northlake, Melrose Park, Stone Park, Bellwood, Westchester, and Broadview, IL	
Engineering Consultant	Hey & Associates, Inc.	
Engineering Contractor	To be determined	
Estimated Construction Cost	\$42,607,981.00	
Contract Award Date	October-19	
Substantial Completion Date	August-22	
Project Description	This project will improve channel conveyance in Northlake, Melrose Park, Stone Park, Bellwood, Westchester, and Broadview. The project includes various types of channel improvements, such as open channel, gabions, sheet piles, riprap, and stream clearing	
Project Justification	Safety/Regulatory. This project, along with the Addison Creek Reservoir project, will help alleviate public health and safety concerns by reducing overbank flooding to approximately 2,200 structures along Addison Creek from Northlake to Broadview. The compensatory storage required for these channel improvements will be provided with the Addison Creek Reservoir project.	
Project Status	Design	

Flood Control Project on Farmers and Prairie Creeks, NSA

Project Number 12-056-5F

Service Area North

Location Park Ridge, IL and Maine Township

Engineering Consultant HNTB Corporation

Engineering Contractor To be determined

Estimated Construction Cost \$14,100,000.00

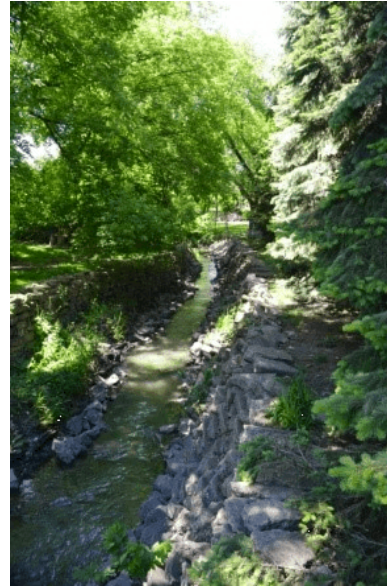
Contract Award Date July-19

Substantial Completion Date July-21

Project Description This project includes flood storage and conveyance improvements along Farmers and Prairie Creeks, including channel modifications, detention expansion, diversion sewer construction, and streambank stabilization.

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

Project Status Design



Streambank Stabilization Project on Melvina Ditch in Oak Lawn and Chicago Ridge, CSA

Project Number 13-248-3F

Service Area Calumet

Location Oak Lawn and Chicago Ridge, IL

Engineering Consultant MWH Americas, Inc.

Engineering Contractor To be determined

Estimated Construction Cost \$8,800,000.00

Contract Award Date January-19

Substantial Completion Date February-21

Project Description Streambank stabilization along Melvina Ditch from 95th Street to 99th Street. This project is intended to address areas of critical erosion, which threaten structures. This project is in the Cal-Sag Channel Watershed.

Project Justification Capacity Needs, Economic Benefit, Safety/Regulatory, and Flood Control. The banks have deteriorated due to hydraulic erosion and slope failures, potentially compromising roadways and structures that are in the vicinity.

Project Status Design



Buffalo Creek Reservoir Expansion, NSA

Project Number	13-370-3F
Service Area	North
Location	Long Grove, IL
Engineering Consultant	Hey & Associates, Inc.
Engineering Contractor	Lake County Grading Co., LLC
Estimated Construction Cost	\$9,678,900.00
Contract Award Date	February-18
Substantial Completion Date	March-20
Project Description	172 acre-foot expansion of the original BUCR-3 project identified in the 2007 study. The project includes relocating trails and bridge over the Lower Des Plaines Tributary Waterway.
Project Justification	Safety/Regulatory. Approximately 172 acre-foot of sediment is expected to be removed from the waterway.
Project Status	Construction



Streambank Stabilization Projects for Addison Creek, SSA

Project Number	14-108-5F
Service Area	Stickney
Location	North Riverside and Northlake, IL
Engineering Consultant	Burns & McDonnell Engineering Co., Inc.
Engineering Contractor	To be determined
Estimated Construction Cost	\$1,206,406.00
Contract Award Date	October-18
Substantial Completion Date	August-22
Project Description	The scope of this project involves the stabilization of approximately 750 feet of Addison Creek adjacent to Fullerton Avenue in Northlake and 410 linear feet of streambank adjacent to 19th Avenue in North Riverside. Stabilization methods include the installation of native vegetation, a vegetated geogrid, turf reinforcing mat, and the placement of riprap.
Project Justification	Safety/Regulatory and Flood Control.
Project Status	Design



Flood Control Project on 1st Avenue from Roosevelt Road to Cermak Road, SSA

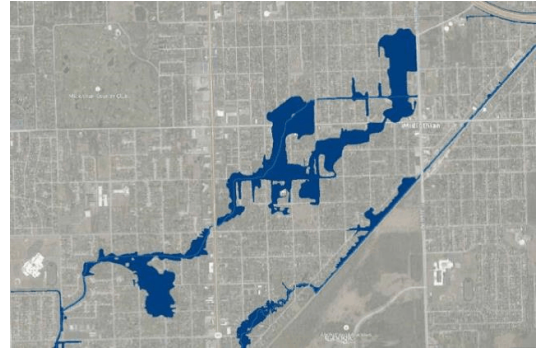
Project Number	14-111-5F
Service Area	Stickney
Location	Unincorporated Cook County, IL
Engineering Consultant	Ciorba Group, Inc.
Engineering Contractor	To be determined
Estimated Construction Cost	\$5,200,000.00
Contract Award Date	July-19
Substantial Completion Date	September-20



Project Description	This project will increase the 1st Avenue drainage conveyance capacity by replacing the existing storm sewer system with two parallel trunk sewers ranging in size from 18-inch to 48-inch on the east side and 18-inch to 36-inch on the west side. Multiple bioswales, in conjunction with the "daylighting" of lateral sewers and the installation of underdrains, will be installed along the Cook County Forest Preserve areas, east of 1st Avenue.
Project Justification	The proposed improvements will address flooding along 1st Avenue between Roosevelt Road and Cermak Road which impairs hospital and ambulance personnel access to the Loyola University Medical Center.
Project Status	Planning

Flood Control Project on Natalie Creek in Oak Forest and Midlothian, CSA

Project Number	14-252-5F
Service Area	Calumet
Location	Oak Forest and Midlothian, IL
Engineering Consultant	Burns & McDonnell Engineering Co., Inc.
Engineering Contractor	To be determined
Estimated Construction Cost	\$7,569,409.00
Contract Award Date	September-18
Substantial Completion Date	January-21
Project Description	The scope of the project is to install flood control measures along Natalie Creek in Oak Forest and Midlothian from 157th Street and Central Park in Oak Forest to 146th Street and Pulaski Road in Midlothian. This project is in the Little Calumet River Watershed.
Project Justification	The scope of this project is to address overbank flooding by upsizing restrictive culverts, widening the channel at several locations, and creating a new stormwater storage basin along Natalie Creek. The project increases the level of protection to existing residential and commercial structures and will provide flood reduction benefits for 237 structures.
Project Status	Design



Flood Control Project on Midlothian Creek in Robbins, CSA

Project Number	14-253-5F
Service Area	Calumet
Location	Robbins, IL
Engineering Consultant	Donohue & Associates, Inc.
Engineering Contractor	To be determined
Estimated Construction Cost	\$11,000,000.00
Contract Award Date	January-19
Substantial Completion Date	May-20
Project Description	This three-phase project on Midlothian Creek in Robbins will include the construction of a diversion channel to the Calumet-Sag Channel, channel improvements on Midlothian Creek, and the construction of a naturalized detention area to resemble a park setting.
Project Justification	This project will provide flood relief for an estimated 92 structures in Robbins.
Project Status	Design



Flood Control Project in the Worth Woods Subdivision in Worth, CSA

Project Number 14-256-5F

Service Area Calumet

Location Worth, IL

Engineering Consultant Robinson Engineering, Ltd.

Engineering Contractor To be determined

Estimated Construction Cost \$2,500,000.00

Contract Award Date October-19

Substantial Completion Date January-20

Project Description This project will construct a swale and a 24-inch to 72-inch storm sewer, in the vicinity of 112th Place and Beloit Avenue, with an outlet to Lucas-Berg Quarry in the Village of Worth. The project is in the Cal-Sag Channel Watershed.

Project Justification This project will reduce flooding for an estimated 19 structures in the Village of Worth.

Project Status Design



Flood Control in the vicinity of 131st Street and Cypress Drive in Palos Heights, CSA

Project Number 14-259-5F

Service Area Calumet

Location Palos Heights, IL

Engineering Consultant To be determined

Engineering Contractor To be determined

Estimated Construction Cost \$200,000.00

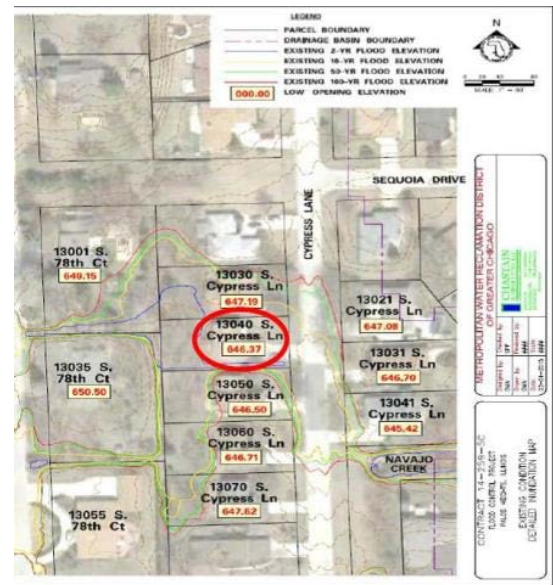
Contract Award Date July-19

Substantial Completion Date June-20

Project Description This project will help alleviate public health and safety concerns by reducing overbank flooding and will protect three residential properties from the risk of flooding.

Project Justification Safety/Regulatory.

Project Status Design



Melvina Ditch Reservoir Improvements, SSA

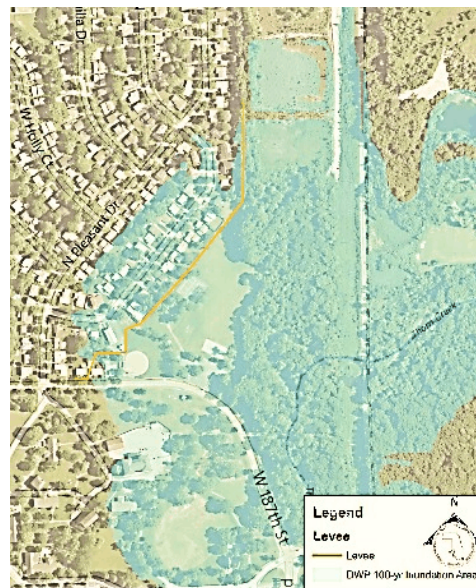
Project Number	14-263-3F
Service Area	Stickney
Location	Stickney Township
Engineering Consultant	V3 Companies of Illinois, Ltd.
Engineering Contractor	F.H. Paschen, S.N. Nielsen, and Associates, LLC
Estimated Construction Cost	\$14,245,000.00
Contract Award Date	November-17
Substantial Completion Date	May-21



Project Description	This project consists of expanding the existing Melvina Ditch Reservoir by up to 195 acre-feet to increase its storage capacity (up to a 118 percent increase), modifying the pumping station to accommodate the reservoir expansion, and installing a new emergency overflow weir to reduce the likelihood of reservoir overtopping. Reservoir expansion will include work within the existing reservoir footprint on District property and includes additional private properties around the perimeter of the reservoir. Local stakeholders gave feedback, and a reservoir expansion configuration was selected. Additional work includes the installation of an emergency overflow/high water bypass structure and three flap gates and the replacement of the existing elliptical culverts at the outlet of the Melvina Ditch Reservoir Pumping Station with dual box culverts and a stormwater chamber. Construction limits are immediately adjacent to the pumping station and in the 87th Street right-of-way as needed to install the culverts and to replace any disturbed utilities in conflict with the installation. Storm pumps will be removed and serviced and the impellers will be lengthened.
Project Justification	This project will reduce flooding for an estimated 430 structures in the City of Burbank and the Village of Oak Lawn.
Project Status	Construction

Construction of a Levee along Thorn Creek at Arquilla Park in Glenwood, CSA

Project Number	15-IGA-14
Service Area	Calumet
Location	Glenwood, IL
Engineering Consultant	Not Applicable
Engineering Contractor	To be determined
Estimated Construction Cost	\$3,870,000.00
Contract Award Date	June-19
Substantial Completion Date	May-20



Project Description	This project will provide a levee at Arquilla Park to protect residential structures from overbank flooding. The Village of Glenwood is responsible for the design, construction, operation, and maintenance of this project.
Project Justification	The project will protect approximately 31 residential structures from overbank flooding along Thorn Creek.
Project Status	Design

Installation of Green Infrastructure at Chicago Public Schools, Various Locations

Project Number	15-IGA-20
Service Area	Calumet, North, and Stickney
Location	All Service Areas
Engineering Consultant	Not Applicable
Engineering Contractor	Multiple/To be determined
Estimated Construction Cost	\$16,000,000.00
Contract Award Date	September-16
Substantial Completion Date	December-22



Project Description	The District, the Chicago Department of Water Management, and the Chicago Public Schools are partnering to design and install playgrounds at various Chicago Elementary Schools utilizing Green Infrastructure. The projects will reduce flooding, reduce the load on the combined sewer system, and educate students and neighbors about Green Infrastructure techniques and purpose.
Project Justification	The Chicago Public Schools Green Infrastructure Project will reduce the current load to the combined sewer systems and alleviate flooding within the project areas.
Project Status	Cost Sharing Agreement

Storm Sewer Improvements in La Grange, SSA

Project Number 16-IGA-02

Service Area Stickney

Location La Grange, IL

Engineering Consultant Not Applicable

Engineering Contractor To be determined

Estimated Construction Cost \$3,000,000.00

Contract Award Date January-19

Substantial Completion Date January-20

Project Description The Village of La Grange, in partnership with the District, is proposing to construct lateral sewers in this basin to the future trunk line to drain the depressional areas.

Project Justification This project will reduce overland flow flooding and eliminate basement backups.

Project Status Cost Sharing Agreement



McDermott Drive/Morris Avenue Storm Sewer Improvements, SSA

Project Number 16-IGA-04

Service Area Stickney

Location Berkeley, IL

Engineering Consultant Not Applicable

Engineering Contractor To be determined

Estimated Construction Cost \$2,706,000.00

Contract Award Date July-16

Substantial Completion Date July-19


Project Description This project will construct two new storm sewers along McDermott Drive and Morris Avenue, expand the existing detention basin, and construct a stormwater pumping facility at the southwest corner of the existing detention basin to adequately convey a 100-year storm event. This is a cost sharing agreement with the Village of Berkeley.

Project Justification This project will reduce flooding for nearly 800 residential structures in the Village of Berkeley.

Project Status Cost Sharing Agreement



Pilot Study for Investigating Technology to Address Basement Backups, CSA

Project Number	16-IGA-20	
Service Area	Calumet and Stickney	
Location	Chicago, IL	
Engineering Consultant	City of Chicago	
Engineering Contractor	City of Chicago	
Estimated Construction Cost	\$400,000.00	
Contract Award Date	November-18	
Substantial Completion Date	December-20	
Project Description	The District and the City of Chicago, through its Departments of Water Management and Transportation, are partnering to conduct a pilot study to evaluate potential runoff reduction and flood protection alternatives. The City will draft the Intergovernmental Agreement.	
Project Justification	This is an Intergovernmental and Cost Sharing Agreement with the City of Chicago, which is responsible for design, construction, operation, and maintenance pertaining to this project. The District provides funding assistance. The results of the pilot study will provide valuable information for consideration in future efforts to address flooding in the region.	
Project Status	Cost Sharing Agreement	

Land Acquisition for the Flood Control Project on Midlothian Creek in Robbins, CSA

Project Number 17-IGA-02

Service Area Calumet

Location Robbins, IL

Engineering Consultant Not Applicable

Engineering Contractor To be determined

Estimated Construction Cost \$200,000.00

Contract Award Date September-18

Substantial Completion Date October-19

Project Description The Village of Robbins will work with the Cook County Land Bank Authority and the South Suburban Land Bank Development Authority to assemble and acquire parcels that are required for the Flood Control Project on Midlothian Creek (Contract 14-253-3F) in the Village. The District will assist the Village in acquiring the needed parcels at an estimated cost of \$200,000. The current estimate will cover legal fees, court filing fees, and the cost of title work and insurance.

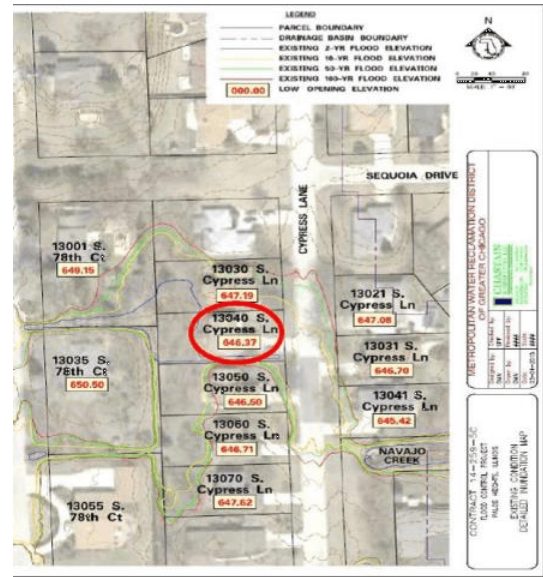
Project Justification Flood Control. The land acquisitions are necessary for a flood control project that will provide flood relief to over 140 acres and 100 homes.

Project Status Cost Sharing Agreement



Land Acquisition for a Flood Control Project in the vicinity of 131 Street and Cypress Drive in Palos Heights, CSA

Project Number	17-IGA-04
Service Area	Calumet
Location	Palos Heights, IL
Engineering Consultant	Not Applicable
Engineering Contractor	To be determined
Estimated Construction Cost	\$370,000.00
Contract Award Date	May-19
Substantial Completion Date	September-19
Project Description	Agreement with the City of Palos Heights for the acquisition of residential property/land needed for the related project 14-259-5F, Flood Control in the vicinity of 131st Street and Cypress Drive in Palos Heights, CSA.
Project Justification	Residential property/land needed for the recommended flood control project will protect three residential properties from the risk of flooding.
Project Status	Cost Sharing Agreement



Parking Lot Pavers and a Bioinfiltration Basin at the Arlington Heights Police Station, NSA

Project Number 18-IGA-01

Service Area North

Location Arlington Heights, IL

Engineering Consultant Not Applicable

Engineering Contractor To be determined

Estimated Construction Cost \$358,000.00

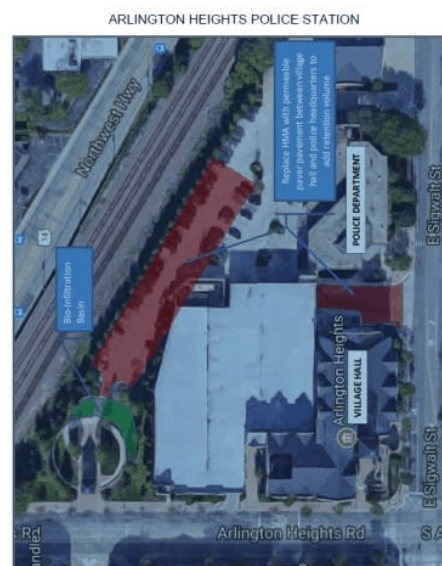
Contract Award Date September-18

Substantial Completion Date March-19

Project Description The Village of Arlington Heights will be installing a permeable parking lot along with a bioswale at the Arlington Heights Police Station located at 200 East Sigwall Street. The District will be providing reimbursement funding for up to 23.6 percent of the total \$1,515,000 construction cost through an Intergovernmental Agreement.

Project Justification The Arlington Heights Green Infrastructure project will reduce the current load to the combined sewer system and alleviate flooding within the project area.

Project Status Negotiation / Evaluation



Winchester Avenue Green Infrastructure Project in Calumet Park, CSA

Project Number 18-IGA-02

Service Area Calumet

Location Calumet Park, IL

Engineering Consultant Not Applicable

Engineering Contractor To be determined

Estimated Construction Cost \$325,380.00

Contract Award Date July-19

Substantial Completion Date May-20

Project Description The Village of Calumet Park will be installing a storage pond and modernizing an existing combined sewer. The project will include planting native trees, tree trenches, bioswales, permeable pavement, and rain gardens. The location is between 124th Street and 127th Street, between Lincoln Avenue and Winchester Avenue. The District will be providing reimbursement funding for up to 32.5 percent of the total \$1,000,000.00 construction cost through an Intergovernmental Agreement.

Project Justification The Winchester Avenue Green Infrastructure project will reduce the current load to the combined sewer system and alleviate flooding within the project area.

Project Status Negotiation / Evaluation



Green Alleys Project in Chicago, CSA

Project Number 18-IGA-03

Service Area Calumet

Location Chicago, IL

Engineering Consultant Not Applicable

Engineering Contractor To be determined

Estimated Construction Cost \$197,000.00

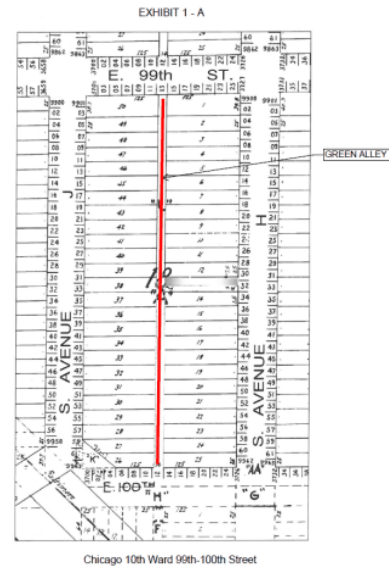
Contract Award Date January-19

Substantial Completion Date March-19

Project Description The 10th Ward in the City of Chicago will be replacing two alleys with permeable pavement located in various locations in the 10th Ward. The District will be providing reimbursement funding for up to 58.8 percent, of the estimated \$335,000 construction cost through an Intergovernmental Agreement.

Project Justification The Green Alley Project will reduce the current load to the combined sewer system and alleviate flooding within the project area.

Project Status Negotiation / Evaluation



Stormwater Infiltration Through the Establishment of Native Habitat at Three Chicago Parks, Various Locations

Project Number 18-IGA-04

Service Area Calumet, North, and Stickney

Location Chicago, IL

Engineering Consultant Not Applicable

Engineering Contractor To be determined

Estimated Construction Cost \$238,930.00

Contract Award Date October-18

Substantial Completion Date April-19



Project Description The Chicago Park District's project will replace turf grass with native plantings at three Chicago Parks. The District will be providing reimbursement funding for up to 50.0 percent of the total \$477,958.46 construction cost through an Intergovernmental Agreement.

Project Justification The Chicago Park District Stormwater Project will reduce the current load to the combined sewer system and alleviate flooding within the project area.

Project Status Negotiation / Evaluation

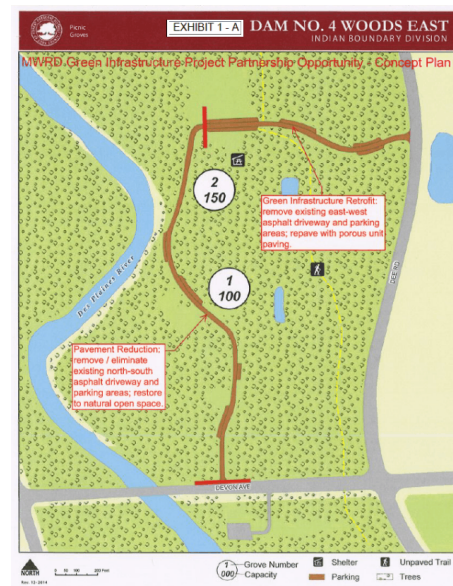


Garfield Park Community Eco Orchard in Chicago, SSA

Project Number	18-IGA-05	 
Service Area	Stickney	
Location	Chicago, IL	
Engineering Consultant	Not Applicable	
Engineering Contractor	To be determined	
Estimated Construction Cost	\$500,000.00	
Contract Award Date	November-18	
Substantial Completion Date	January-19	
Project Description	The City of Chicago's project will construct food forests in the area of 5th Avenue between Mozart Avenue and Kedzie Avenue. The District will be providing reimbursement funding for up to 55.6 percent of the estimated \$900,000 construction cost through an Intergovernmental Agreement.	
Project Justification	Curb cuts and runnels will be included to route water to areas with native plantings to reduce the current load to the combined sewer system and to help alleviate flooding within the project area.	
Project Status	Negotiation / Evaluation	

Parking Lot Conversion in Park Ridge, NSA

Project Number	18-IGA-08
Service Area	North
Location	Park Ridge, IL
Engineering Consultant	Not Applicable
Engineering Contractor	To be determined
Estimated Construction Cost	\$267,000.00
Contract Award Date	May-19
Substantial Completion Date	July-19



Project Description	The Forest Preserve District's project will convert an asphalt parking lot into a smaller permeable pavement parking lot. The remainder of the parking lot will be converted into open space. The District will be providing reimbursement funding for up to 53.3 percent of the estimated \$501,312.50 construction cost through an Intergovernmental Agreement.
Project Justification	The parking lot conversion will reduce the current load to the combined sewer system and help alleviate flooding within the project area.
Project Status	Negotiation / Evaluation

Green Alleys Project in Harwood Heights, NSA

Project Number 18-IGA-09

Service Area North

Location Harwood Heights, IL

Engineering Consultant Not Applicable

Engineering Contractor To be determined

Estimated Construction Cost \$383,984.00

Contract Award Date September-18

Substantial Completion Date June-19

Project Description The Village of Harwood Heights will be replacing two alleys with permeable pavement. One alley is located between Olcott Avenue, Winnemac Avenue, and Argyle Avenue, and the other is located between Forest Preserve Drive, Sunnyside Avenue, and Naragansett Avenue. The District will be providing reimbursement funding for up to 65.8 percent of the total \$583,500 construction cost through an Intergovernmental Agreement.

Project Justification The Green Alley Project will reduce the current load to the combined sewer system and alleviate flooding within the project area.

Project Status Negotiation / Evaluation



Green Alleys Project in Maywood, SSA

Project Number 18-IGA-10

Service Area Stickney

Location Maywood, IL

Engineering Consultant Not Applicable

Engineering Contractor To be determined

Estimated Construction Cost \$841,110.00

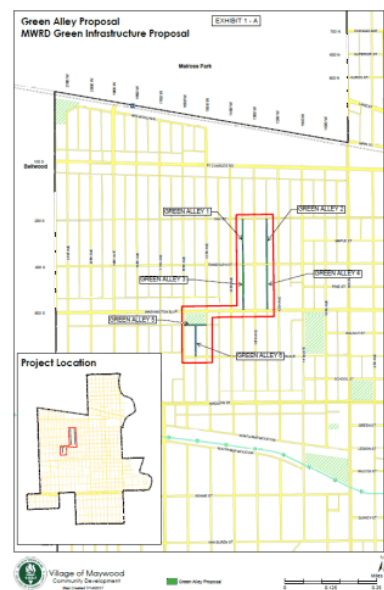
Contract Award Date October-18

Substantial Completion Date June-19

Project Description The Village of Maywood will be replacing six alleys with permeable pavement located in various locations throughout the Village. The District will be providing reimbursement funding for up to 70 percent of the estimated \$1,201,585 construction cost through an Intergovernmental Agreement.

Project Justification The project will reduce the current load to the combined sewer system and help alleviate flooding within the project area.

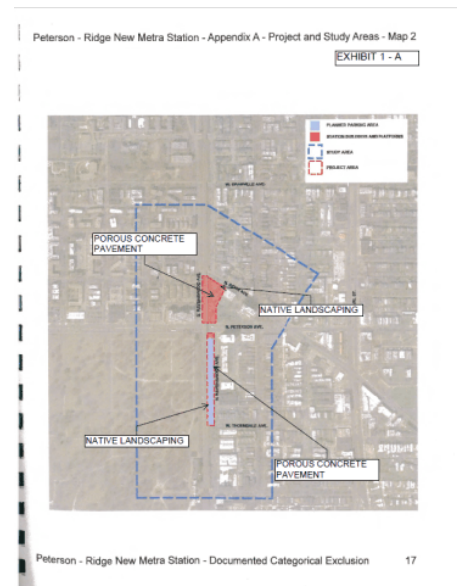
Project Status Negotiation / Evaluation



Green Infrastructure for the Peterson Ridge Metra Station in Chicago, NSA

Project Number	18-IGA-11
Service Area	North
Location	Chicago, IL
Engineering Consultant	Not Applicable
Engineering Contractor	To be determined
Estimated Construction Cost	\$1,082,000.00
Contract Award Date	November-19
Substantial Completion Date	January-20

Project Description	Metra is constructing a new train station located at Peterson Avenue and Ravenswood Avenue in Chicago. Some of the construction will include Green Infrastructure technologies such as permeable pavement and on-site filtration. The District will be providing reimbursement funding for up to 7.5 percent of the total \$15,000,000 construction cost through an Intergovernmental Agreement.
Project Justification	The permeable pavement parking lot and other Green Infrastructure components will reduce the current load to the combined sewer system and help alleviate flooding within the project area.
Project Status	Negotiation / Evaluation



Orland Park Nature Center and Green Roofs in Orland Park, CSA

Project Number 18-IGA-13

Service Area Calumet

Location Orland Park, IL

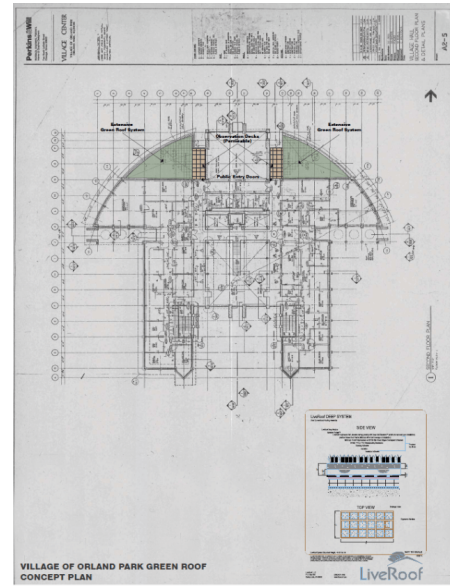
Engineering Consultant Not Applicable

Engineering Contractor To be determined

Estimated Construction Cost \$146,000.00

Contract Award Date August-19

Substantial Completion Date June-20



Project Description The Village of Orland Park proposes the construction of permeable pavement, naturalized plantings, and a wetland at the Orland Park Nature Center (near La Grange Road and Southwest Highway). The Village also plans to construct green roofs at the Orland Park Village Hall, which will provide an estimated stormwater design retention capacity of 4,032 gallons. The District will be providing reimbursement funding for up to 48.3 percent of the estimated \$302,000 construction cost through an Intergovernmental Agreement.

Project Justification The Village of Orland Park plans to build green roofs and other potential Green Improvements technologies such as permeable pavement and rain gardens. The project will reduce the current load to the combined sewer system and help alleviate flooding within the project area.

Project Status Negotiation / Evaluation

Lake Catherine Commuter Parking Lot in Palos Heights, CSA

Project Number	18-IGA-14
Service Area	Calumet
Location	Palos Heights, IL
Engineering Consultant	Not Applicable
Engineering Contractor	To be determined
Estimated Construction Cost	\$184,000.00
Contract Award Date	June-19
Substantial Completion Date	August-19
Project Description	The City of Palos Heights will be installing a permeable parking lot along with rain gardens, bioswales and a detention basin at Lake Katherine located at Harlem Avenue and College Drive (Illinois Route 83). The District will be providing reimbursement funding for up to 29.0 percent of the total \$634,000 construction cost through an Intergovernmental Agreement.
Project Justification	The parking lot and other Green Infrastructure will reduce the current load to the combined sewer system and alleviate flooding within the project area.
Project Status	Negotiation / Evaluation



Permeable Pavement and Rain Gardens in Posen, CSA

Project Number 18-IGA-15

Service Area Calumet

Location Posen, IL

Engineering Consultant Not Applicable

Engineering Contractor To be determined

Estimated Construction Cost \$125,000.00

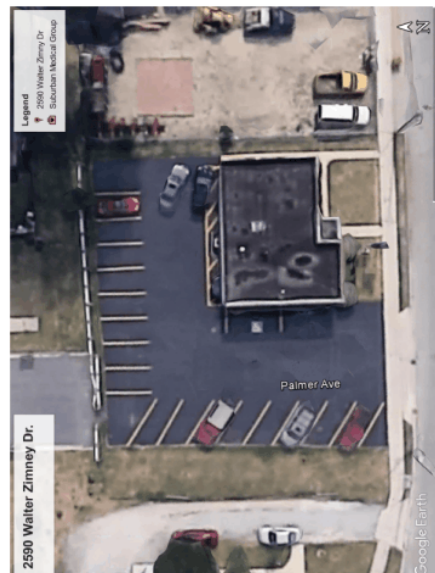
Contract Award Date December-18

Substantial Completion Date April-19

Project Description The District will design up to three permeable parking lots for the Village of Posen. The locations will be at the Civic Center (2450 Walter Zimny Drive), the Veterans of Foreign Wars Hall (2590 Walter Zimny Drive), and the Civic Center at 144th Street and Campbell Avenue. The project will be funded through an Intergovernmental Agreement.

Project Justification The Posen Permeable Pavement and Rain Gardens project will reduce the current load to the combined sewer system and alleviate flooding within the project area.

Project Status Negotiation / Evaluation



University of Illinois at Chicago Green Infrastructure at the Arthington Mall, SSA

Project Number 18-IGA-18

Service Area Stickney

Location Chicago, IL

Engineering Consultant Not Applicable

Engineering Contractor To be determined

Estimated Construction Cost \$242,000.00

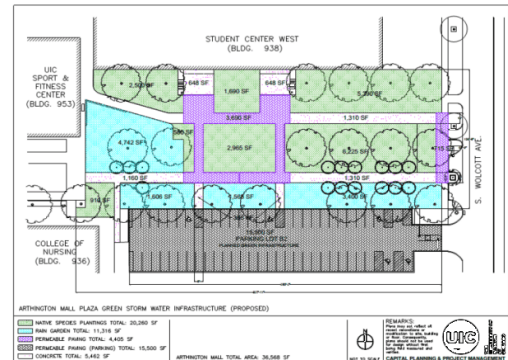
Contract Award Date November-18

Substantial Completion Date January-19

Project Description The University of Illinois at Chicago's project will install porous pavers, rain gardens, and native landscaping at Arthington Mall. The District will be providing reimbursement funding for up to 44.5 percent of the total \$544,000 construction cost through an Intergovernmental Agreement.

Project Justification The University of Illinois at Chicago Green Infrastructure project will reduce the current load to the combined sewer system and alleviate flooding within the project area.

Project Status Negotiation / Evaluation



Groveland Avenue Levee Improvements in Riverside, SSA

Project Number	18-IGA-20
Service Area	Stickney
Location	Riverside, IL
Engineering Consultant	Not Applicable
Engineering Contractor	To be determined
Estimated Construction Cost	\$2,506,028.00
Contract Award Date	November-18
Substantial Completion Date	March-19



Project Description	The Groveland Avenue levee, located in the Village of Riverside (Village), will be improved by raising the levee with a sheet pile floodwall. A pumping station will be built to drain the land side of the levee. An adjacent street will be raised or protected by additional flood walls. The Village will enter a Project Partnership Agreement with the Army Corp of Engineers as its local sponsor. The District will enter into an Intergovernmental Agreement with the Village to provide the non-federal share of the design and construction costs.
Project Justification	This project increases the level of protection the levee provides to adjacent homes.
Project Status	Planning

Storm Sewers Connection to Existing Des Plaines River Outfall in Forest Park, SSA

Project Number 18-IGA-21

Service Area Stickney

Location Forest Park, IL

Engineering Consultant Not Applicable

Engineering Contractor To be determined

Estimated Construction Cost \$5,268,000.00

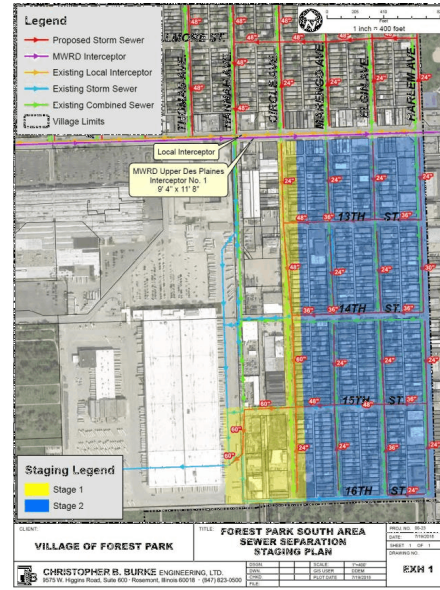
Contract Award Date June-19

Substantial Completion Date July-20

Project Description The Village of Forest Park will construct and connect a storm sewer system to an existing outfall to the Des Plaines River. The proposed system will prevent surface water from entering into the current combined system and will reduce basement and overland flooding.

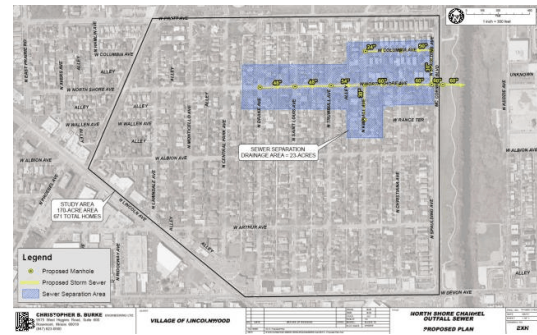
Project Justification This project will protect 273 structures from basement and overland flooding.

Project Status Design



New Storm Sewers and Outfall to the North Shore Channel in Lincolnwood, NSA

Project Number	18-IGA-22
Service Area	North
Location	Lincolnwood, IL
Engineering Consultant	Not Applicable
Engineering Contractor	To be determined
Estimated Construction Cost	\$1,392,000.00
Contract Award Date	December-18
Substantial Completion Date	February-19



Project Description	The Village of Lincolnwood is proposing to construct a separate storm sewer system that will mitigate overland flooding and basement backups for a 23-acre residential area. The stormwater sewer system will range in size from 24-inch to 60-inch and will outfall to the North Shore Channel. This second phase will complete the Village's overall "Stormwater Street Storage Program" involving previously installed inlet restrictors for a combined sewer system.
Project Justification	The Village's completed "Stormwater Street Storage Program" will lower the number of structures affected by basement flooding from 551 to 403 homes. The purpose of the new storm sewer is to remove overland flow from the residential area and outfall the stormwater to the North Shore Channel.
Project Status	Design

Storm Sewers in Reuters Subdivision in Franklin Park, SSA

Project Number 18-IGA-23

Service Area Stickney

Location Franklin Park, IL

Engineering Consultant Not Applicable

Engineering Contractor To be determined

Estimated Construction Cost \$378,000.00

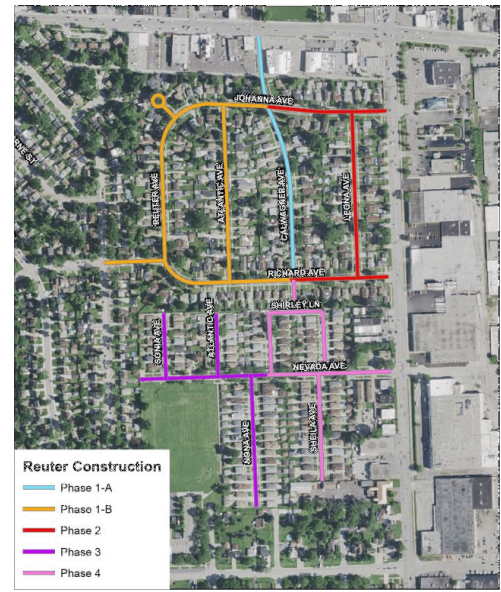
Contract Award Date September-18

Substantial Completion Date July-19

Project Description The Village of Franklin Park will remove existing storm sewers and replace them with larger capacity sewers as well as install storm sewers where none previously existed.

Project Justification The overall project area has been divided into four phases in which this project represents a part of the first phase. The overall project will reduce the effects of a 100-year storm on an estimated 67 structures.

Project Status Cost Sharing Agreement



Wetland and Park Storage Projects in Winnetka, NSA

Project Number 18-IGA-24

Service Area North

Location Winnetka, IL

Engineering Consultant Not Applicable

Engineering Contractor To be determined

Estimated Construction Cost \$3,237,918.00

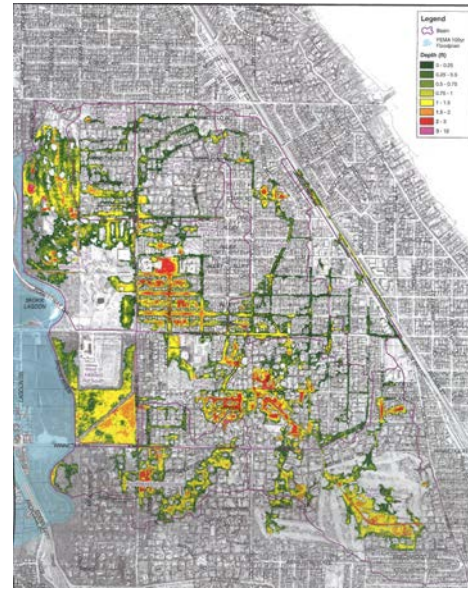
Contract Award Date May-19

Substantial Completion Date July-20

Project Description This project will provide a wetland and an underground stormwater storage areas near the Skokie River and will be designed, constructed, operated, and maintained by the Village of Winnetka.

Project Justification The project will reduce flooding for an estimated 474 structures in the Village of Winnetka.

Project Status Design




Stormwater Storage in Mt. Prospect, NSA

Project Number	18-IGA-25
Service Area	North
Location	Mount Prospect, IL
Engineering Consultant	Not Applicable
Engineering Contractor	To be determined
Estimated Construction Cost	\$1,862,322.00
Contract Award Date	January-19
Substantial Completion Date	December-20



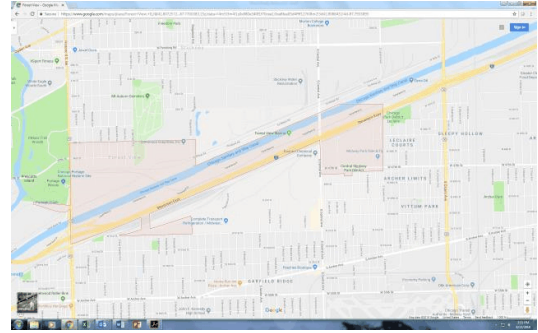
Project Description	The Village of Mount Prospect will construct two stormwater storage areas to relieve flooding in a low lying residential area located in the interior of the Levee 37 drainage area.
Project Justification	The proposed improvements will provide additional stormwater protection to a separate Levee 37 Army Corp of Engineers proposed pump upgrades project. The additional stormwater storage areas will protect 23 structures currently at risk from a 100-year storm as well as provide additional flood reduction benefits for an estimated 120 additional structures.
Project Status	Design

Storm Sewers in Glenview, NSA

Project Number	18-IGA-27	<p>East of Harms September 2008 Storm</p> 
Service Area	North	
Location	Glenview, IL	
Engineering Consultant	Not Applicable	
Engineering Contractor	To be determined	
Estimated Construction Cost	\$500,000.00	
Contract Award Date	April-19	
Substantial Completion Date	September-19	
Project Description	The Village of Glenview will upsize nearly 3,500 linear feet of storm sewers in areas east of Harms Road.	
Project Justification	This project will provide flood reduction benefits for an estimated 20 structures.	
Project Status	Design	

Storm Sewers and Outfall in Forest View, SSA

Project Number	18-IGA-28
Service Area	Stickney
Location	Forest View, IL
Engineering Consultant	Not Applicable
Engineering Contractor	To be determined
Estimated Construction Cost	\$1,000,000.00
Contract Award Date	April-19
Substantial Completion Date	September-19
Project Description	This project will construct storm sewers and outfall for a residential area in Forest View.
Project Justification	This project will provide flood reduction benefits for an estimated 14 structures for a residential area in Forest View.
Project Status	Design




Culvert Improvements in Elk Grove Village, NSA

Project Number	18-IGA-30
Service Area	North
Location	Elk Grove, IL
Engineering Consultant	Not Applicable
Engineering Contractor	To be determined
Estimated Construction Cost	\$1,250,000.00
Contract Award Date	December-18
Substantial Completion Date	December-20
Project Description	The Village of Elk Grove will perform nearly 3,000 linear feet of channel improvements along with the installation of a nearly 930 linear feet of a 24 square foot box culvert for the Louis Avenue project area.
Project Justification	This project will provide flood reduction benefits for an estimated 30 structures from a 100-year storm event.
Project Status	Design



Stormwater Storage Areas in Niles, NSA

Project Number	18-IGA-31		
Service Area	North		
Location	Niles, IL		
Engineering Consultant	Not Applicable		
Engineering Contractor	To be determined		
Estimated Construction Cost	\$4,216,610.00		
Contract Award Date	April-19		
Substantial Completion Date	November-20		
Project Description	The Village of Niles will construct two open water and one underground stormwater storage areas near Greenwood Avenue to provide residential and commercial flood relief.		
Project Justification	This project will protect over 87 structures from a 100-year storm event.		
Project Status	Design		

Expansion of Existing Detention Basin in Orland Park, CSA

Project Number	18-IGA-33
Service Area	Calumet
Location	Orland Park, IL
Engineering Consultant	Not Applicable
Engineering Contractor	To be determined
Estimated Construction Cost	\$558,000.00
Contract Award Date	November-18
Substantial Completion Date	September-19
Project Description	This project will expand the Grasslands regional detention basin in Orland Park.
Project Justification	This project will reduce flooding for an estimated 30 structures in the Village of Orland Park.
Project Status	Design



Relief Sewers to Mitigate Basement Backups in Arlington Heights, NSA

Project Number 18-IGA-34

Service Area North

Location Arlington Heights, IL

Engineering Consultant Not Applicable

Engineering Contractor To be determined

Estimated Construction Cost \$1,370,000.00

Contract Award Date April-19

Substantial Completion Date May-20

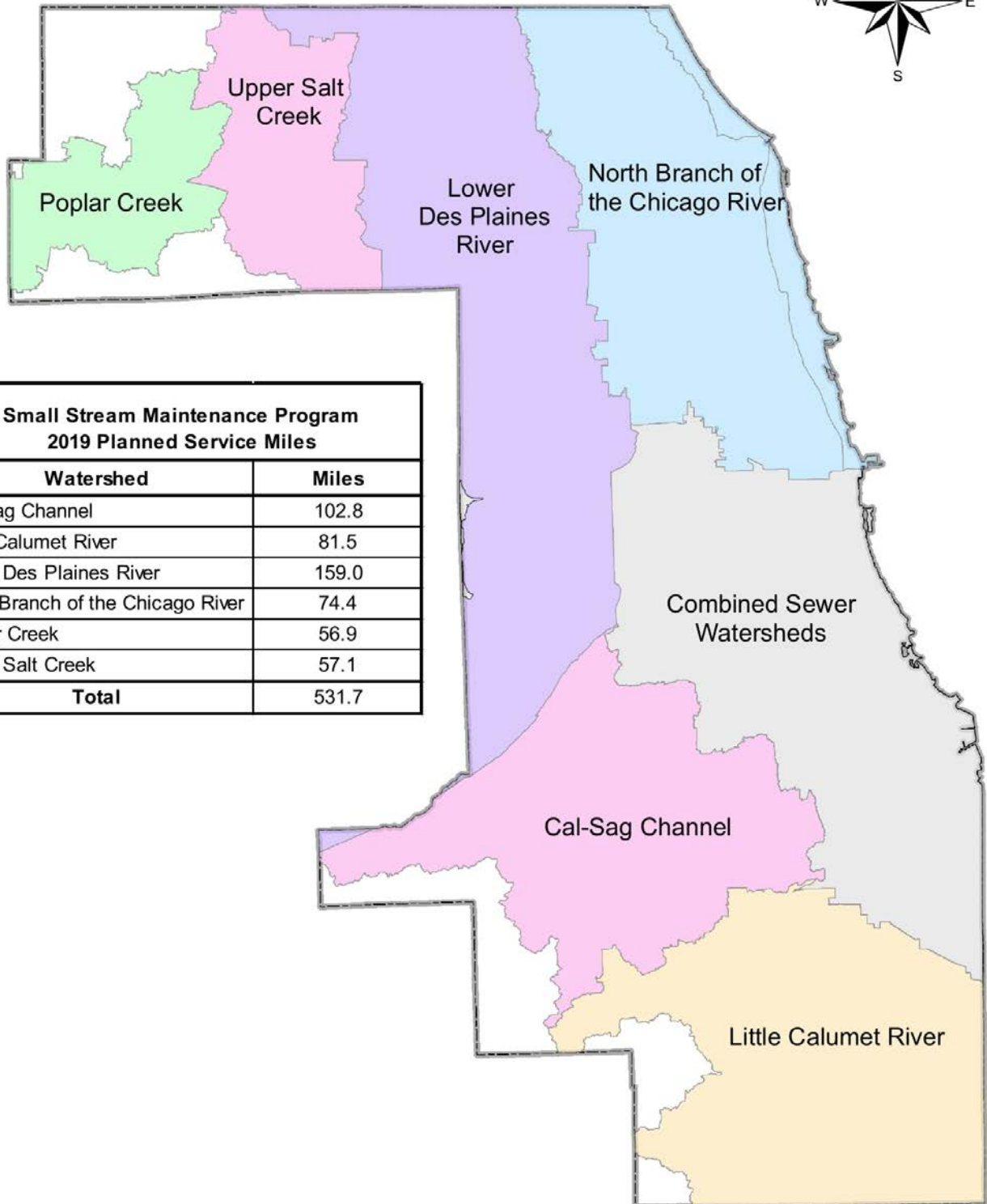
Project Description The Village of Arlington Heights will construct relief sewers for various locations to mitigate basement backups along Campbell Street, Vail Avenue, Dunton Avenue, and Sigwalt Street and in downtown areas. The Village of Arlington Heights will be responsible for the design, construction, operation, and maintenance of the project.

Project Justification This project will improve current capacity limitations and mitigate basement backups for an estimated 250 structures.

Project Status Design



STORMWATER MANAGEMENT WATERSHEDS



**Small Stream Maintenance Program
2019 Planned Service Miles**

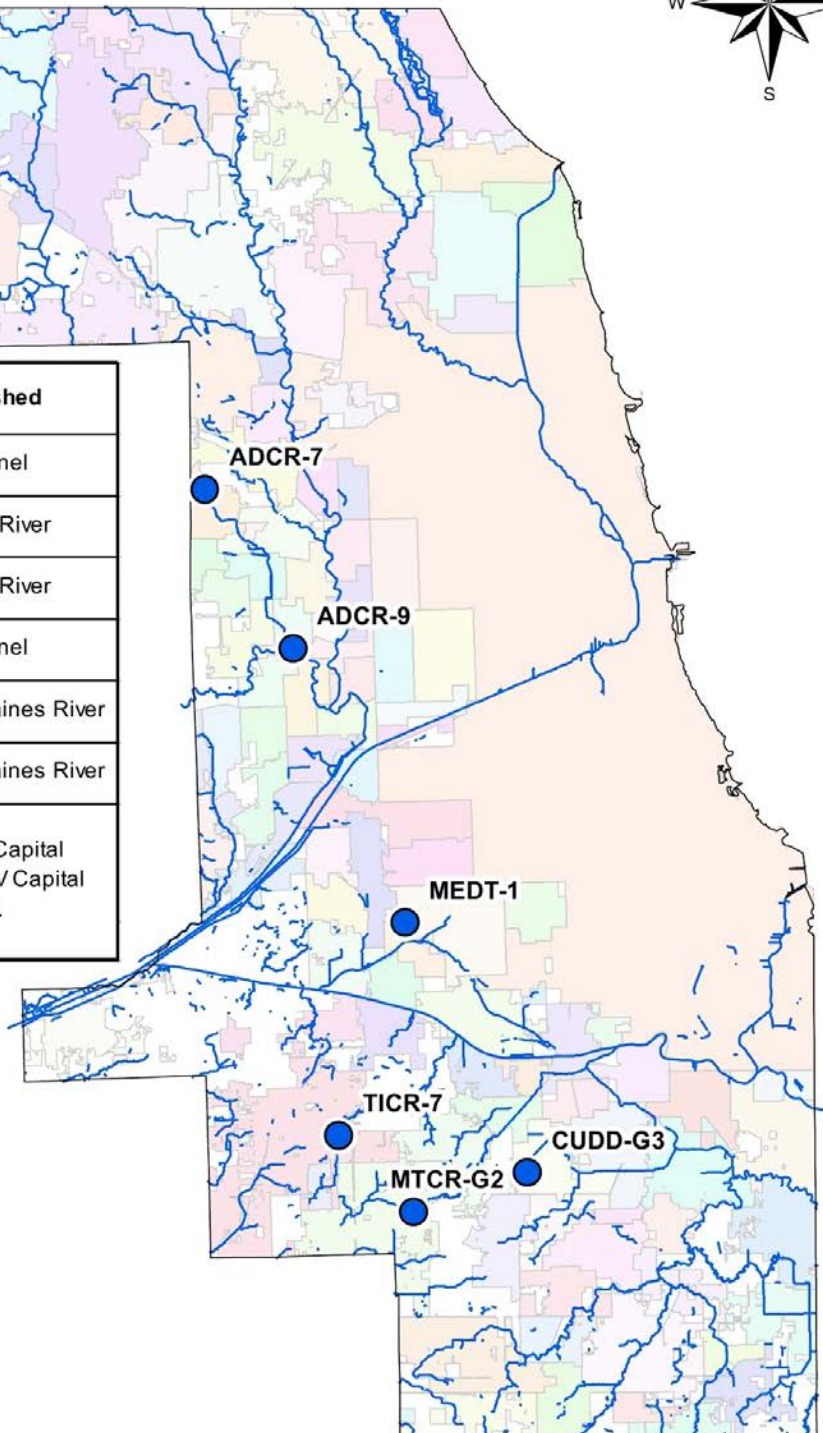
Watershed	Miles
Cal-Sag Channel	102.8
Little Calumet River	81.5
Lower Des Plaines River	159.0
North Branch of the Chicago River	74.4
Poplar Creek	56.9
Upper Salt Creek	57.1
Total	531.7

STORMWATER MANAGEMENT PROJECTS

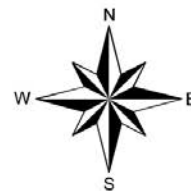
STREAMBANK STABILIZATION



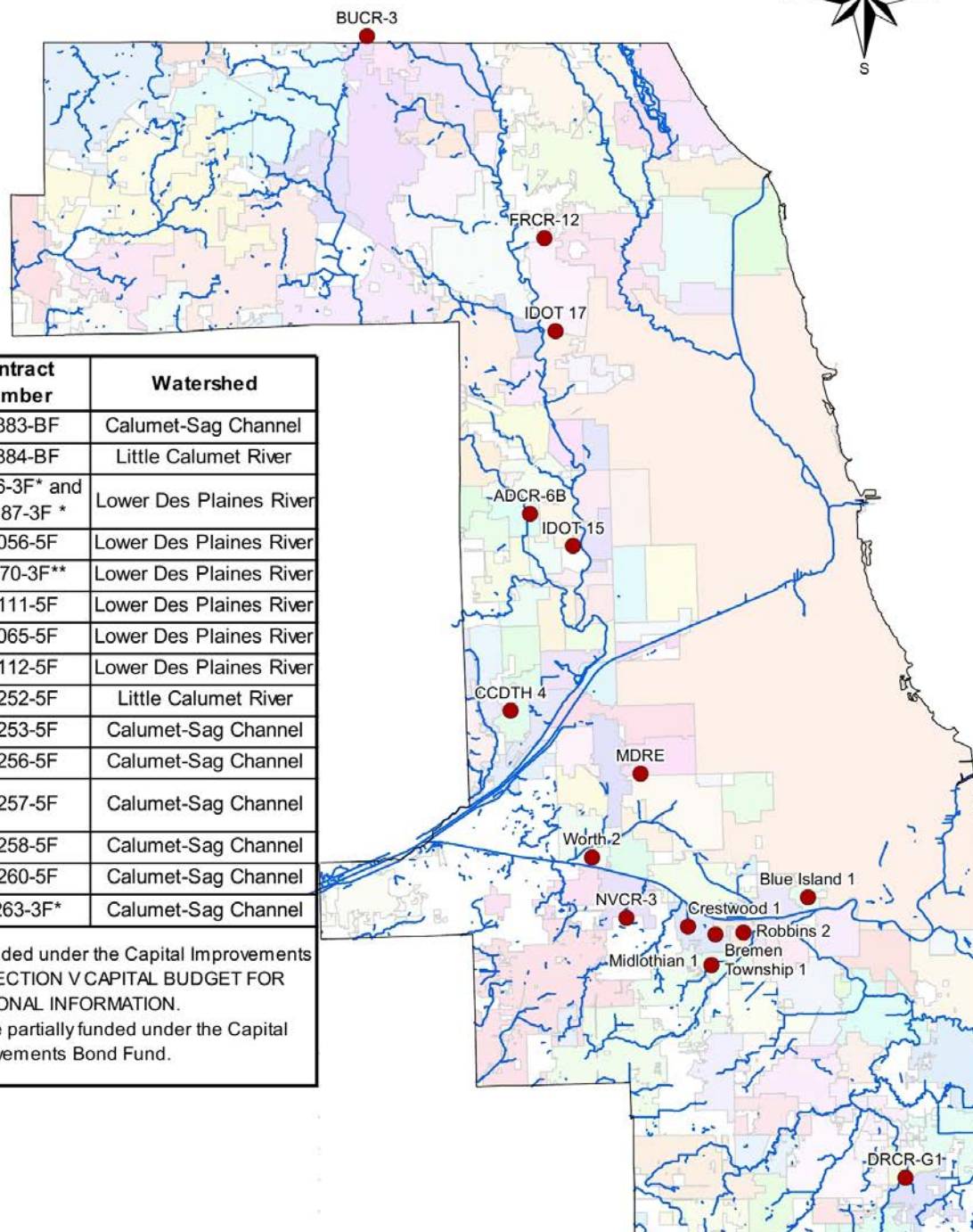
Project ID	Contract Number	Watershed
TICR-7	10-882-AF*	Cal-Sag Channel
CUDD-G3	10-882-BF	Little Calumet River
MTCR-G2	10-882-CF*	Little Calumet River
MEDT-1	13-248-3F*	Cal-Sag Channel
ADCR-7	14-108-5F	Lower Des Plaines River
ADCR-9	14-108-5F	Lower Des Plaines River
*These projects are funded under the Capital Improvements Bond Fund. See Section V Capital Budget for additional information.		



STORMWATER MANAGEMENT PROJECTS FLOOD CONTROL

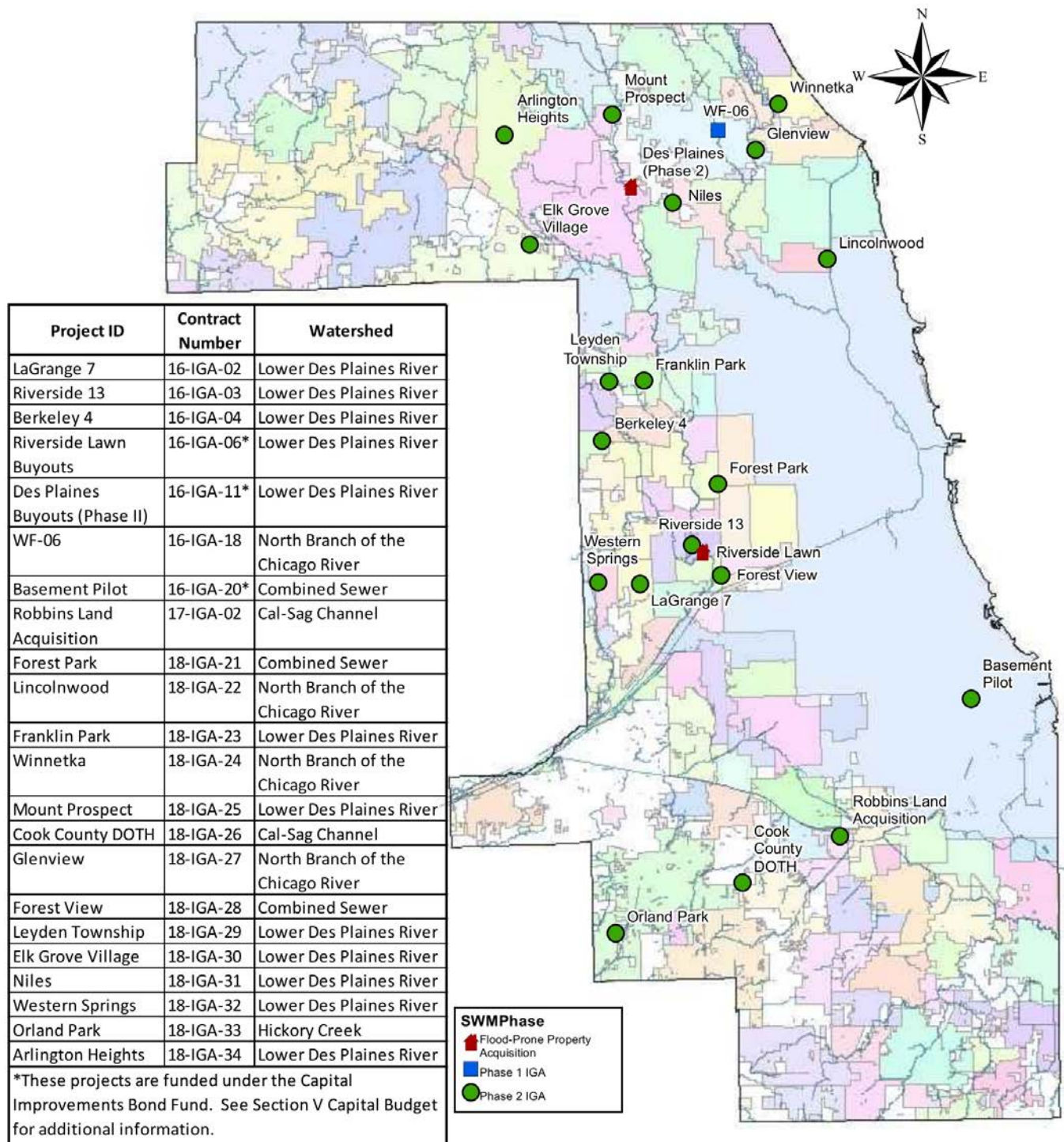


Project ID	Contract Number	Watershed
NVCR-3	10-883-BF	Calumet-Sag Channel
DRCR-G1	10-884-BF	Little Calumet River
ADCR-6B	11-186-3F* and 11-187-3F *	Lower Des Plaines River
FRCR-12	12-056-5F	Lower Des Plaines River
BUCR-3	13-370-3F**	Lower Des Plaines River
IDOT 15	14-111-5F	Lower Des Plaines River
IDOT 17	14-065-5F	Lower Des Plaines River
CCDTH 4	14-112-5F	Lower Des Plaines River
Midlothian 1	14-252-5F	Little Calumet River
Robbins 2	14-253-5F	Calumet-Sag Channel
Worth 2	14-256-5F	Calumet-Sag Channel
Bremen Township 1	14-257-5F	Calumet-Sag Channel
Crestwood 1	14-258-5F	Calumet-Sag Channel
Blue Island 1	14-260-5F	Calumet-Sag Channel
MDRE	14-263-3F*	Calumet-Sag Channel
*These projects are funded under the Capital Improvements Bond Fund. SEE SECTION V CAPITAL BUDGET FOR ADDITIONAL INFORMATION.		
**These projects are partially funded under the Capital Improvements Bond Fund.		





STORMWATER MANAGEMENT PROJECTS INTERGOVERNMENTAL AGREEMENTS



50000 STORMWATER MANAGEMENT FUND**OBJECTIVES AND PROGRAM SUMMARY**

OBJECTIVES BY PRIORITY:		Cost	Percent
1. Implementation of the Watershed Management Ordinance. Initiation of the program to improve flood control, manage runoff, improve water quality throughout Cook County, and clearly define uniform rules and regulations.		\$ 10,213,300	11.2%
2. Planning, design, and construction of stormwater management projects by the District or outside agencies under agreement.		\$ 75,966,800	83.1%
3. Operation and maintenance of natural and manmade drainageways for the purpose of stormwater management.		\$ 5,230,000	5.7%
Total		\$ 91,410,100	100.0%

MEASURABLE GOALS:		2017	2018	2019
	Unit of Measure	Actual	Estimated	Proposed
1. Award contracts for the continued implementation of the Stormwater Management Capital Improvement Plan in the Stormwater Management and Capital Improvements Bond Funds.	No. of Contracts	7	24	26
2. Expenditures for the acquisition of flood-prone properties in the Capital Improvements Bond Fund.	Dollars	\$4,230,000	\$5,000,000	\$4,000,000
3. Expenditures for intergovernmental cost sharing agreements relating to Green Infrastructure and Stormwater Management Phase II projects in the Stormwater Management and Capital Improvements Bond Funds.	Dollars	\$20,485,759	\$30,855,200	\$47,431,900
4. Remove 33,000 cubic yards of debris from 532 miles of small streams and rivers.	Debris Cubic Yards Removed	24,247	33,000	33,000
Further details of Stormwater Management projects, intergovernmental cost sharing agreements, and land acquisitions are in the Stormwater Management Fund narrative.				

50000 STORMWATER MANAGEMENT FUND**OBJECTIVES AND PROGRAM SUMMARY**

PROGRAMS BY PRIORITY:			Budgeted		Change		
Number	Name	2017 Actual	FTEs	Dollars	Dollars	Percent	
1500	Local Sewer Engineering Activity	\$ 910,848	2019 —	\$ —	\$ —	—	
			2018 —	\$ —			
4310	Stormwater Management Planning	\$ 129,442	2019 1	\$ 4,670,500	\$ 4,279,800	1,095.4	a)
			2018 —	\$ 390,700			
4320	Stormwater Management Regulation	\$ 178,001	2019 36	\$ 3,673,900	\$ 2,406,200	189.8	b)
			2018 10	\$ 1,267,700			
4330	Operations and Maintenance	\$ 5,128,498	2019 25	\$ 5,106,000	\$ (34,900)	(0.7)	
			2018 25	\$ 5,140,900			
4340	Flood Mitigation Projects	\$ 10,202,931	2019 19	\$ 75,964,300	\$ 18,774,600	32.8	c)
			2018 19	\$ 57,189,700			
4350	Administrative Overhead	\$ 774,850	2019 3	\$ 1,871,400	\$ 362,800	24	d)
			2018 3	\$ 1,508,600			
7604	Social Security and Medicare Contributions	\$ 76,832	2019 —	\$ 124,000	\$ 40,600	48.7	e)
			2018 —	\$ 83,400			
		\$ 17,401,402	2019 84	\$ 91,410,100	\$ 25,829,100	39.4%	
			2018 57	\$ 65,581,000			
<p>a) Increase is due to the request for Stormwater Master Planning (\$2,000,000) and the planned awards of 18-849-5F, Program Management of Stormwater Master Planning in Combined Service Area (\$1,204,500) and 18-848-5F, Program Management of Stormwater Master Planning in Separate Sewer Area (\$1,078,200).</p> <p>b) Increase is due to the transfer in of 26 FTE positions from the Engineering Corporate Fund to the Stormwater Management Fund (\$2,589,000), offset by the revised estimated for 18-834-5F, Specialist Services for Watershed Management Ordinance (\$205,100).</p> <p>c) Increase is due to the revised request for 12-056-5F, Flood Control Project (FCP) on Farmers and Prairie Creeks, NSA (\$3,270,000), the increased estimate for 16-IGA-02, Storm Sewer Improvements in La Grange, SSA (\$3,000,000), and the planned awards of 14-111-5F, FCP on 1st Avenue from Roosevelt Road to Cermak Road, SSA (\$2,710,000), 14-253-5F, FCP on Midlothian Creek in Robbins, CSA (\$2,455,000), 18-IGA-22, Storm Sewers Outfall to the North Shore Channel in Lincolnwood, NSA (\$1,391,800), 18-IGA-34, Relief Sewers in Arlington Heights, NSA (\$1,370,000), 18-IGA-21, Storm Sewer Connection to Existing Des Plaines River Outfall in Forest Park, SSA (\$1,167,200), 18-IGA-25, Stormwater Storage in Mount Prospect, NSA (\$1,113,200), 18-IGA-28, Storm Sewer in Forest View, SSA (\$1,000,000), 18-IGA-30, Culvert Improvements in Elk Grove Village, NSA (\$645,800), and 18-IGA-11, Green Infrastructure for the Peterson Ridge Metra Station in Chicago, NSA (\$540,900).</p> <p>d) Increase is due to the revised estimate for Health, Life, and Dental premiums due to the transfer in of 27 FTE positions from the Engineering Corporate Fund to the Stormwater Management Fund (\$311,900).</p> <p>e) Increase is due to the revised estimate for Social Security and Medicare contributions due to the transfer in of 27 FTE positions from the Engineering Corporate Fund to the Stormwater Management Fund (\$40,600).</p>							

50000 STORMWATER MANAGEMENT FUND**PERFORMANCE DATA**

Program Number	Measurable Activity		2017 Actual	2018 Budgeted	2019 Estimated	
1500	Local Sewer Engineering Activity					
1530	Local Sewer Permit Activity	Cost	\$ 592,444	\$ —	\$ —	
1560	Local Sewer Public Service Coordination	Cost	\$ 247,154	\$ —	\$ —	
1570	Local Sewer Rehabilitation	Cost	\$ 71,250	\$ —	\$ —	
4310	Stormwater Management Planning					
4311	Watershed Councils	Cost	\$ 34,255	\$ 39,600	\$ 39,800	
4312	Mapping, Surveys, and Soil Testing	Cost	\$ 93,977	\$ 348,600	\$ 322,800	
4313	Watershed Plan Development	Cost	\$ —	\$ —	\$ 4,282,700	a)
4314	Publications and Public Information	Cost	\$ 1,210	\$ 2,500	\$ 2,500	
4315	Geographic Information System	Cost	\$ —	\$ —	\$ 22,700	b)
4320	Stormwater Management Regulation					
4321	Permits	Cost	\$ 54,483	\$ 963,100	\$ 1,919,700	c)
4322	Watershed Management Ordinance Development	Cost	\$ 113,763	\$ 238,000	\$ 102,100	d)
4323	Inspections	Cost	\$ 9,755	\$ 66,600	\$ 848,800	e)
4324	Watershed Management Ordinance Administration	Cost	\$ —	\$ —	\$ 650,700	f)
4326	Watershed Management Ordinance Infiltration/Inflow Control Program	Cost	\$ —	\$ —	\$ 152,600	g)
4330	Operations & Maintenance					
4331	Stormwater Detention Reservoir Activity	Cost	\$ 1,093,319	\$ 1,188,700	\$ 1,220,200	
4332	Small Stream Maintenance	Cost	\$ 3,876,351	\$ 3,187,500	\$ 3,126,900	
	Debris Cubic Yards Removed		24,247	33,500	33,000	
	Cost per Cubic Yard		\$ 159.87	\$ 95.15	\$ 94.75	
4334	Operations & Maintenance Contracted with Other Governments	Cost	\$ 158,828	\$ 159,900	\$ 165,900	
4335	Waterways Debris Removal	Cost	\$ —	\$ 604,800	\$ 593,000	
<p>a) Increase is due to the request for Stormwater Master Planning (\$2,000,000) and the planned awards of 18-849-5F, Program Management of Stormwater Master Planning in Combined Service Area (\$1,204,500) and 18-848-5F, Program Management of Stormwater Master Planning in Separate Sewer Area (\$1,078,200).</p> <p>b) Increase is due to the reallocation of salaries to more accurately reflect current activities (\$22,700).</p> <p>c) Increase is due to the transfer in of 12 FTE positions from the Engineering Corporate Fund to the Stormwater Management Fund (\$1,158,700), offset by the revised estimate for 18-834-5F, Specialist Services for Watershed Management Ordinance (\$205,100).</p> <p>d) Decrease is due to the reallocation of salaries to more accurately reflect current activities (\$116,700).</p> <p>e) Increase is due to the transfer in of eight FTE positions from the Engineering Corporate Fund to the Stormwater Management Fund (\$771,700).</p> <p>f) Increase is due to the transfer in of seven FTE positions from the Engineering Corporate Fund to the Stormwater Management Fund (\$569,800).</p> <p>g) Increase is due to the transfer in of one FTE position from the Engineering Corporate Fund to the Stormwater Management Fund (\$88,700) and the reallocation of salaries to more accurately reflect current activities (\$61,600).</p>						

50000 STORMWATER MANAGEMENT FUND**PERFORMANCE DATA**

Program Number	Measurable Activity		2017 Actual	2018 Budgeted	2019 Estimated	
4340	Flood Mitigation Projects					
4341	Planning/Design	Cost	\$ 2,169,730	\$ 9,026,300	\$ 15,063,200	h)
4342	Contract Administration	Cost	\$ 523,767	\$ 607,900	\$ 610,700	
4343	Construction	Cost	\$ 1,268,014	\$ 18,412,500	\$ 22,795,900	i)
4344	Flood Mitigation Projects Contracted with Other Governments	Cost	\$ 2,785,802	\$ 27,591,400	\$ 35,405,700	j)
4345	Land & Easements	Cost	\$ 186,368	\$ 1,551,600	\$ 2,088,800	k)
7601	Capital Financing Program and Other Related Costs	Cost	\$ 3,269,250	\$ —	\$ —	
4350	Administrative Overhead	Cost	\$ 774,850	\$ 1,508,600	\$ 1,871,400	l)
7604	Social Security and Medicare Contributions	Cost	\$ 76,832	\$ 83,400	\$ 124,000	m)
	Total		\$ 17,401,402	\$ 65,581,000	\$ 91,410,100	
<p>h) Increase is due to the planned awards of 14-111-5F, Flood Control Project (FCP) on 1st Avenue from Roosevelt Road to Cermak Road, SSA (\$2,710,000) and 14-256-5F, FCP in Worth, CSA (\$1,375,000), the revised estimate for the Stormwater preliminary engineering projects (\$1,202,200), and professional engineering services for 11-187-5F, Addison Creek Channel Improvements (\$750,000).</p> <p>i) Increase is due to the revised request for 12-056-5F, FCP on Farmers and Prairie Creeks, NSA (\$3,375,000), the planned award of 14-253-5F, FCP on Midlothian Creek in Robbins, CSA (\$2,205,000), the request for McCook Ditch/Levee Improvements (\$500,000), offset by the revised estimate for 13-199-3F, Lyons Levee Flood Control Improvements, SSA (\$1,750,000).</p> <p>j) Increase is due to the revised estimate for 16-IGA-02, Storm Sewer Improvements in La Grange, SSA (\$3,000,000), and the planned awards of 18-IGA-22, Storm Sewers Outfall to the North Shore Channel in Lincolnwood, NSA (\$1,391,800), 18-IGA-34, Relief Sewers in Arlington Heights, NSA (\$1,370,000), 18-IGA-21, Storm Sewer Connection to Existing Des Plaines River Outfall in Forest Park, SSA (\$1,167,200), and 18-IGA-25, Stormwater Storage in Mount Prospect, NSA (\$1,113,200), offset by completions of 16-IGA-09, Bioswale and Permeable Parking Lot in Niles, NSA (\$100,000) and 16-IGA-10, Rain Garden in Devonshire Park near Kenneth Terrace and a Detention Area near the Skokie Police Headquarters, NSA (\$25,000).</p> <p>k) Increase is due to the revised estimate for land acquisitions (\$600,000).</p> <p>l) Increase is due to the revised estimate for Health, Life, and Dental premiums due to the transfer in of 27 FTE positions from the Engineering Corporate Fund to the Stormwater Management Fund (\$311,900).</p> <p>m) Increase is due to the revised estimate for Social Security and Medicare contributions due to the transfer in of 27 FTE positions from the Engineering Corporate Fund to the Stormwater Management Fund (\$40,600).</p>						

501 50000	Fund: Stormwater Management	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 5,370,381	\$ 5,810,900	\$ 5,810,900	\$ 3,968,391	\$ 5,539,000	\$ 8,502,700	\$ —
601060	Compensation Plan Adjustments	108,371	192,200	192,200	156,390	188,000	212,800	—
601070	Social Security and Medicare Contributions	76,832	83,400	83,400	59,202	86,800	124,000	—
601080	Salaries of Nonbudgeted Employees	—	20,000	20,000	—	—	20,000	—
601100	Tuition and Training Payments	8,770	10,000	10,000	6,718	7,200	11,000	—
601250	Health and Life Insurance Premiums	501,670	567,000	567,000	338,484	547,000	878,900	—
601270	General Salary Adjustments	—	—	—	—	—	42,800	—
100	TOTAL PERSONAL SERVICES	6,066,024	6,683,500	6,683,500	4,529,185	6,368,000	9,792,200	—
612010	Travel	1,511	2,000	2,000	981	1,200	2,000	—
612030	Meals and Lodging	3,897	4,000	4,000	1,849	2,200	4,000	—
612040	Postage, Freight, and Delivery Charges	1,210	2,500	2,500	2,000	1,500	2,500	—
612050	Compensation for Personally-Owned Automobiles	15,160	24,800	24,800	9,773	15,300	24,800	—
612080	Motor Vehicle Operating Services	55	800	800	—	200	800	—
612240	Testing and Inspection Services	—	10,000	10,000	10,000	10,000	—	—
612250	Court Reporting Services	10,508	12,000	12,000	12,000	11,600	12,000	—
612330	Rental Charges	693	2,500	2,500	2,500	2,300	2,500	—
612400	Intergovernmental Agreements	2,546,070	26,269,700	26,269,700	17,424,266	12,331,500	35,129,400	—
612430	Payments for Professional Services	227,106	1,059,000	1,059,000	410,931	455,000	775,000	—
612440	Preliminary Engineering Reports and Studies	1,097,336	3,724,900	3,724,900	3,523,623	1,592,000	7,605,500	—
612450	Professional Engineering Services for Construction Projects	116,109	4,147,300	3,797,300	1,506,797	1,181,000	6,534,400	—
612490	Contractual Services, N.O.C.	163,349	415,000	765,000	510,863	606,000	205,000	—
612520	Waste Material Disposal Charges	53,786	60,000	60,000	60,000	52,000	60,000	—
612620	Repairs to Waterway Facilities	2,250,515	2,585,000	2,585,000	2,398,408	2,350,000	2,500,000	—
612820	Computer Software Maintenance	150,000	145,000	145,000	145,000	145,000	145,000	—
612990	Repairs, N.O.C.	665	2,000	2,000	1,000	1,500	2,000	—
200	TOTAL CONTRACTUAL SERVICES	6,637,972	38,466,500	38,466,500	26,019,992	18,758,300	53,004,900	—
623130	Buildings, Grounds, Paving Materials, and Supplies	4,866	5,000	5,000	5,000	4,900	5,000	—
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	4,139	11,500	11,500	8,903	2,900	11,500	—
623560	Processing Chemicals	—	5,000	5,000	5,000	5,000	5,000	—

501 50000	Fund: Stormwater Management	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
623680	Tools and Supplies	7,824	11,000	11,000	6,280	5,000	11,000	—
623700	Wearing Apparel	—	2,000	2,000	1,803	1,900	8,500	—
623990	Materials and Supplies, N.O.C.	436,290	90,400	90,400	54,419	9,100	90,400	—
300	TOTAL MATERIALS AND SUPPLIES	453,119	124,900	124,900	81,405	28,800	131,400	—
645620	Waterway Facilities Structures	961,501	16,175,600	16,175,600	5,990,527	2,325,000	24,579,100	—
645630	Army Corps of Engineers Services	—	1,750,000	1,750,000	—	1,358,000	500,000	—
645690	Capital Projects, N.O.C.	—	400,000	400,000	—	225,000	400,000	—
645720	Preservation of Waterway Facility Structures	—	1,180,500	1,180,500	260,320	—	1,602,500	—
500	TOTAL CAPITAL PROJECTS	961,501	19,506,100	19,506,100	6,250,847	3,908,000	27,081,600	—
656010	Land	—	400,000	400,000	156,000	300,000	1,000,000	—
600	TOTAL LAND	—	400,000	400,000	156,000	300,000	1,000,000	—
667020	Equity Transfer	3,269,250	—	—	—	—	—	—
667340	Payments for Easements	13,536	400,000	400,000	345,400	396,100	400,000	—
700	TOTAL FIXED AND OTHER CHARGES	3,282,786	400,000	400,000	345,400	396,100	400,000	—
TOTAL STORMWATER MANAGEMENT		\$ 17,401,402	\$ 65,581,000	\$ 65,581,000	\$ 37,382,829	\$ 29,759,200	\$ 91,410,100	\$ —

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.

Fund: Stormwater Management		POSITION ANALYSIS				
		2017	2018		2019	
					PROPOSED BY THE EXECUTIVE DIRECTOR	
PAY PLAN & GRADE	CLASS TITLE	ACTUAL FTEs	BUDGETED FTEs	APPROPRIATION IN DOLLARS	BUDGETED FTEs	APPROPRIATION IN DOLLARS
50000	Engineering Department					
516	Local Sewer Systems Section					
HP18	Principal Civil Engineer	1	1		2	
HP17	Senior Civil Engineer	2	2		8	
HP15	Associate Civil Engineer	3	3		8	
HP14	Assistant Civil Engineer	2	2		6	
HP14	Engineering Technician V	—	—		3	
HP12	Engineering Technician IV	1	1		4	
HP12	Engineering Technician IV #4	—	—		1	
HP11	Administrative Specialist	—	—		1	
HP11	Engineering Technician III	—	—		1	
HP09	Administrative Clerk	—	—		2	
TOTAL	Local Sewer Systems Section	9	9	935,966.63	36	3,573,234.08
522	Stormwater Management Section					
HP20	Managing Civil Engineer	1	1		1	
HP18	Principal Civil Engineer	3	3		3	
HP17	Senior Civil Engineer	7	7		7	
HP15	Associate Civil Engineer	6	6		6	
HP14	Assistant Civil Engineer	3	3		3	
HP11	Administrative Specialist	1	1		1	
TOTAL	Stormwater Management Section	21	21	2,407,764.85	21	2,439,863.87
TOTAL	Engineering Department	30	30	3,343,731.48	57	6,013,097.95
60000	Maintenance & Operations Department					
630	General Division					
634	Channel Maintenance Unit					
HP18	Principal Engineer	—	1		1	
HP17	Senior Civil Engineer	1	—		—	
HP15	Associate Civil Engineer	1	1		1	
TOTAL	Channel Maintenance Unit	2	2	245,892.92	2	251,904.12

Fund: Stormwater Management		POSITION ANALYSIS				
		2017	2018		2019	
					PROPOSED BY THE EXECUTIVE DIRECTOR	
PAY PLAN & GRADE	CLASS TITLE	ACTUAL FTEs	BUDGETED FTEs	APPROPRIATION IN DOLLARS	BUDGETED FTEs	APPROPRIATION IN DOLLARS
636	Boat Operations Unit					
HP14	Engineering Technician V	1	1		2	
HP14	Engineering Technician V #4	1	1		—	
HP12	Engineering Technician IV	1	1		2	
HP12	Engineering Technician IV #4	1	1		—	
NR8650	Maintenance Laborer Class A Shift	2	2		2	
TOTAL	Boat Operations Unit	6	6	557,106.67	6	530,644.40
639	Channel Maintenance Unit					
HP14	Engineering Technician V	1	1		1	
HP14	Engineering Technician V #4	1	1		1	
NR8650	Maintenance Laborer Class A Shift	2	2		2	
TOTAL	Channel Maintenance Unit	4	4	383,922.31	4	390,495.04
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	6	6	488,342.40	6	506,750.40
TOTAL	General Division	18	18	1,675,264.30	18	1,679,793.96
940	Stickney Service Area General Plant Services Section					
924	Stickney Maintenance Unit					
PR7773	Pipefitter	1	1		1	
TOTAL	Stickney Maintenance Unit	1	1	98,800.00	1	100,880.00
934	Stickney Mechanical Operations Unit					
NR8650	Maintenance Laborer Class A Shift	4	4		4	
NR8650	Maintenance Laborer Class A Shift #1	2	—		—	

Fund: Stormwater Management		POSITION ANALYSIS				
		2017	2018		2019	
					PROPOSED BY THE EXECUTIVE DIRECTOR	
PAY PLAN & GRADE	CLASS TITLE	ACTUAL FTEs	BUDGETED FTEs	APPROPRIATION IN DOLLARS	BUDGETED FTEs	APPROPRIATION IN DOLLARS
NR6831	Operating Engineer I	4	4		4	
TOTAL	Stickney Mechanical Operations Unit	10	8	722,425.60	8	751,712.00
TOTAL	Stickney Service Area General Plant Services Section	11	9	821,225.60	9	852,592.00
TOTAL	Maintenance & Operations Department	29	27	2,496,489.90	27	2,532,385.96
TOTAL	Stormwater Management	59	57	5,840,221.38	84	8,545,483.91
Note: The positions budgeted are funded by the Stormwater Management Fund while the operations remain in the Engineering and Maintenance & Operations Departments.						
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 District. 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 2019, are included in this section. A tax levy ordinance for the principal and interest due in 2019 and 2020 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, starting on page [52](#).

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, Construction, and Stormwater Working Cash Funds, as authorized by Illinois Compiled Statutes, to make temporary loans to the Corporate, Construction, and Stormwater 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 to issue short-term financing. There will be no tax levies for the Corporate, Construction, or Stormwater Working Cash Funds in 2019.

Reserve Claim Fund:

Description of Fund, Purpose, and Operation	541
Line Item Analysis	543

Bond Redemption & Interest Fund:

Description of Fund, Purpose, and Operation	544
Appropriation for Payment of Outstanding Bonds, 2019	547

Retirement Fund:

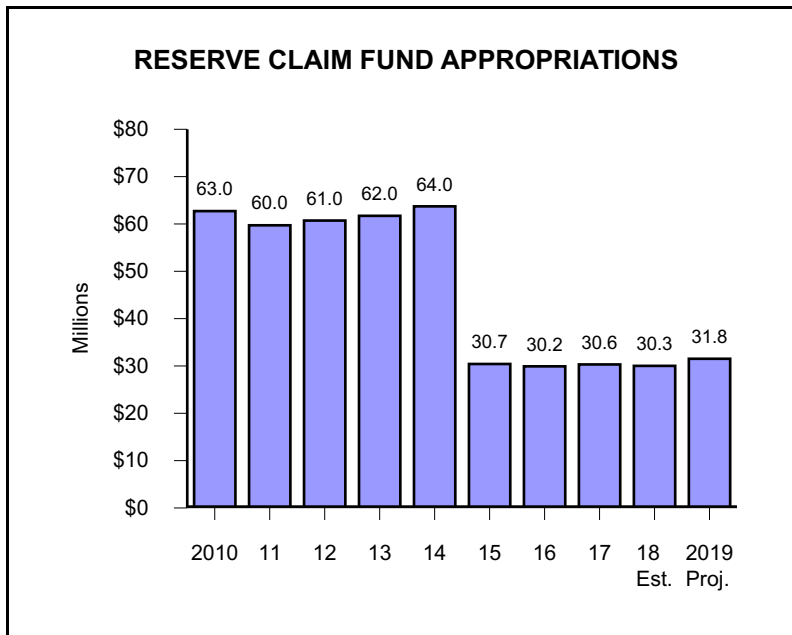
Description of Fund, Purpose, and Operation	549
Appropriation Ordinance	552

RESERVE CLAIM FUND

Description of Fund, Purpose, and Operation

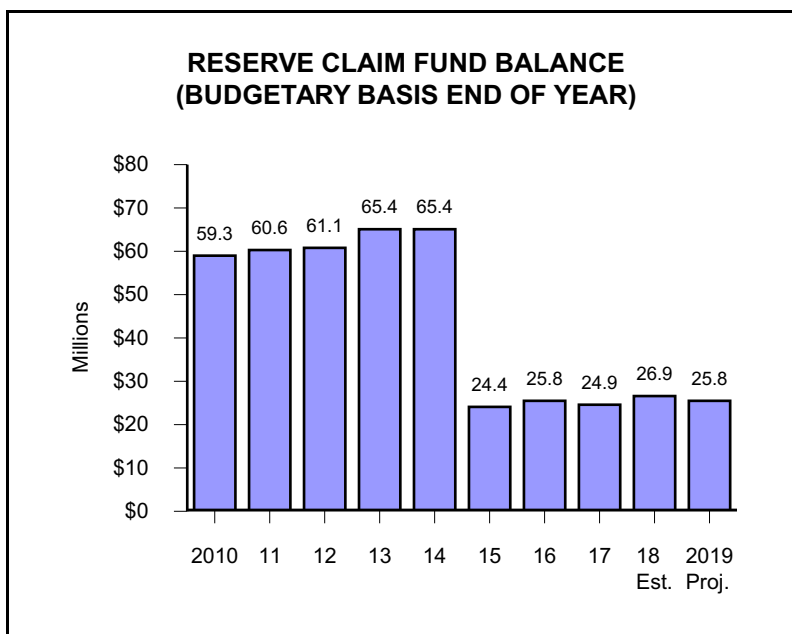
The Reserve Claim Fund is the District's self-insurance fund. It is maintained at an appropriation level adequate to meet potential liabilities. The fund is capable of providing coverage for those risks that can be expected to be encountered and is able to pay such claims without exposing the agency 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 0.05 percent of the EAV, or approximately \$74.0 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.



In 2015, the reduction is due to a settlement in 2014.

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. This policy is similar in function to insurance company reserves. The estimated 2018 year-end fund balance is \$26.9 million and the projection for 2019 is \$25.8 million.

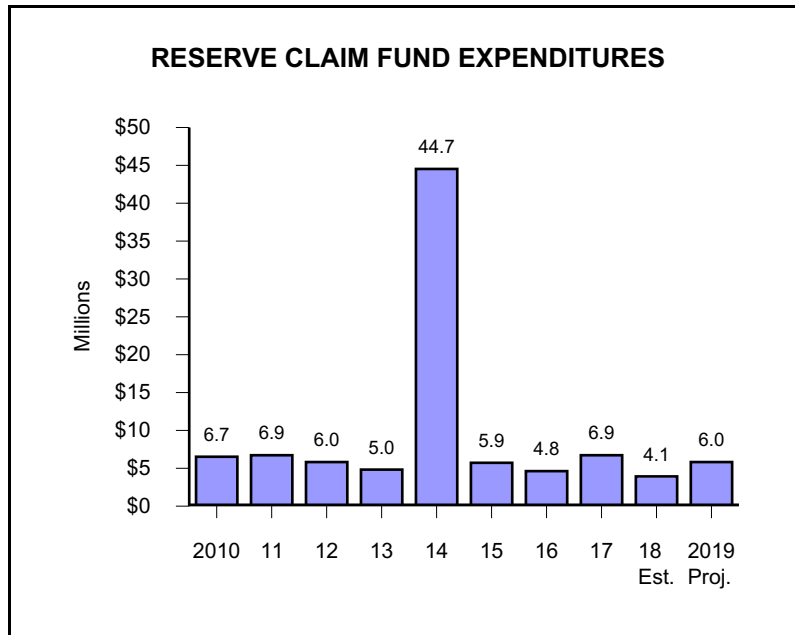


The Statutory Limit for Budget Year 2019 Proj. is \$74.0 million.

In 2015, the reduction is due to a settlement in 2014.

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 2019, accounts payable and other liabilities are estimated at \$0.4 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. District staff makes considerable efforts to control claim expenditures by implementing aggressive safety training programs and returning employees to work as soon as possible



In 2014, the increase is due to the payment of a settlement.

901	Fund: Reserve Claim	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601090	Employee Claims	\$ 4,233,724	\$ 10,000,000	\$ 10,000,000	\$ 2,891,032	\$ 4,000,000	\$ 10,000,000	\$ —
100	TOTAL PERSONAL SERVICES	4,233,724	10,000,000	10,000,000	2,891,032	4,000,000	10,000,000	—
667220	General Claims and Emergency Repair and Replacement Costs	2,671,350	20,289,500	20,289,500	1,242,925	1,600,000	21,767,800	—
700	TOTAL FIXED AND OTHER CHARGES	2,671,350	20,289,500	20,289,500	1,242,925	1,600,000	21,767,800	—
TOTAL RESERVE CLAIM FUND		\$ 6,905,074	\$ 30,289,500	\$ 30,289,500	\$ 4,133,957	\$ 5,600,000	\$ 31,767,800	\$ —
NOTE: Amounts may not add up due to rounding.								

BOND REDEMPTION & INTEREST FUND

Description of Fund, Purpose, and Operation

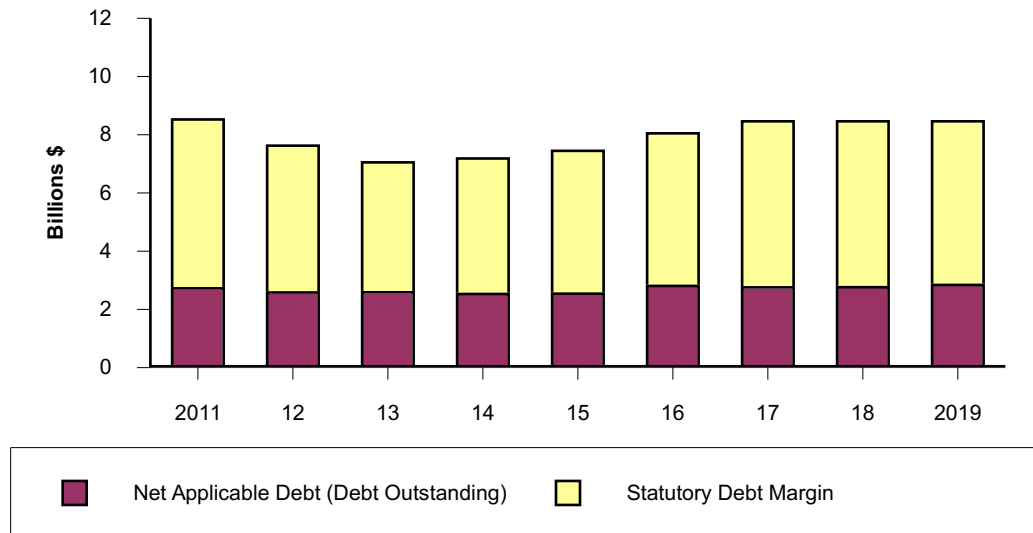
The District's Bond Redemption & Interest Fund is a debt service fund established to account for annual property tax levies and certain other revenues, principally interest on investments, which are used for the payment of interest and redemption of general obligation bond issues. Sub-funds are established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

Debt Limits, Margins, and Borrowing Authority

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

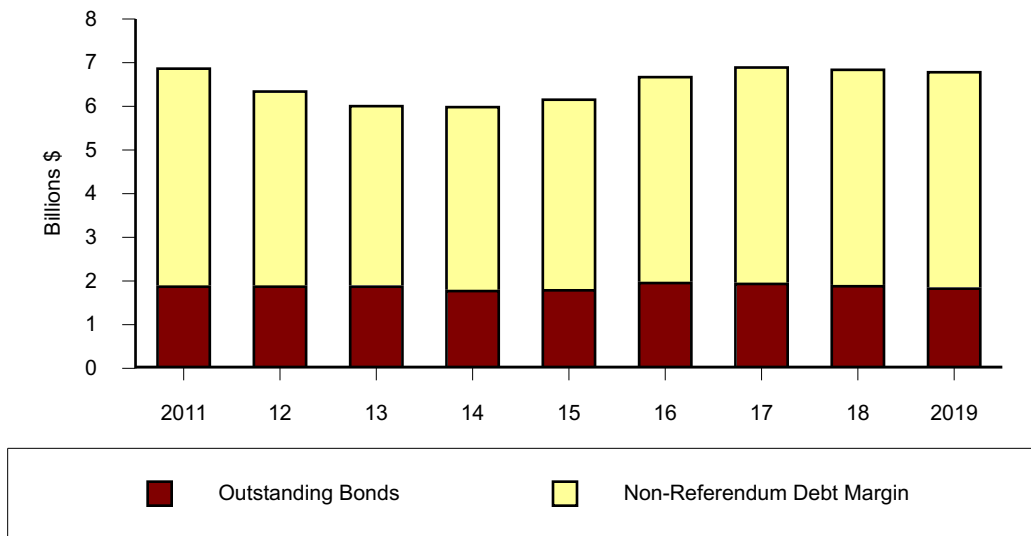
- General Obligation Notes may be issued at an amount not to exceed 85 percent of the current General Corporate Fund tax levy.
- The District may fund up to 100 percent of the aggregate total of the estimated amount of taxes levied or to be levied for corporate purposes plus the General Corporate Fund 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 property (\$147.9 billion for 2017) within the District boundary. On December 31, 2018, the District's statutory debt limit is estimated at \$8.5 billion, with a net applicable debt of \$2.9 billion and an estimated statutory debt margin of \$5.6 billion.

Net Debt and Statutory Debt Margin



- 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 boundary. On December 31, 2018, it is estimated that the District's outstanding capital improvement and refunding bonds will total \$1.9 billion with a non-referendum statutory debt limit of \$5.0 billion and a non-referendum bonded debt margin of \$3.1 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. 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. Additional legislation was passed in 1997 to expand the "Limited bond" authority for the District. The debt service extension limitation for the District, related to the 2018 tax year, is \$166.1 million.

Non-Referendum Debt Limit and Margin



- Additional legislation was passed in 1997 to expand the “limited bond” authority for the District. Public Act 90-485 excludes debt associated with the Tunnel and Reservoir Plan 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 Consumer Price Index 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 within the District boundary (\$147.9 billion for 2017) at the time the bonds are issued, plus 90 percent of the last known entitlement of the Personal Property Replacement Tax.

BOND REDEMPTION & INTEREST FUND

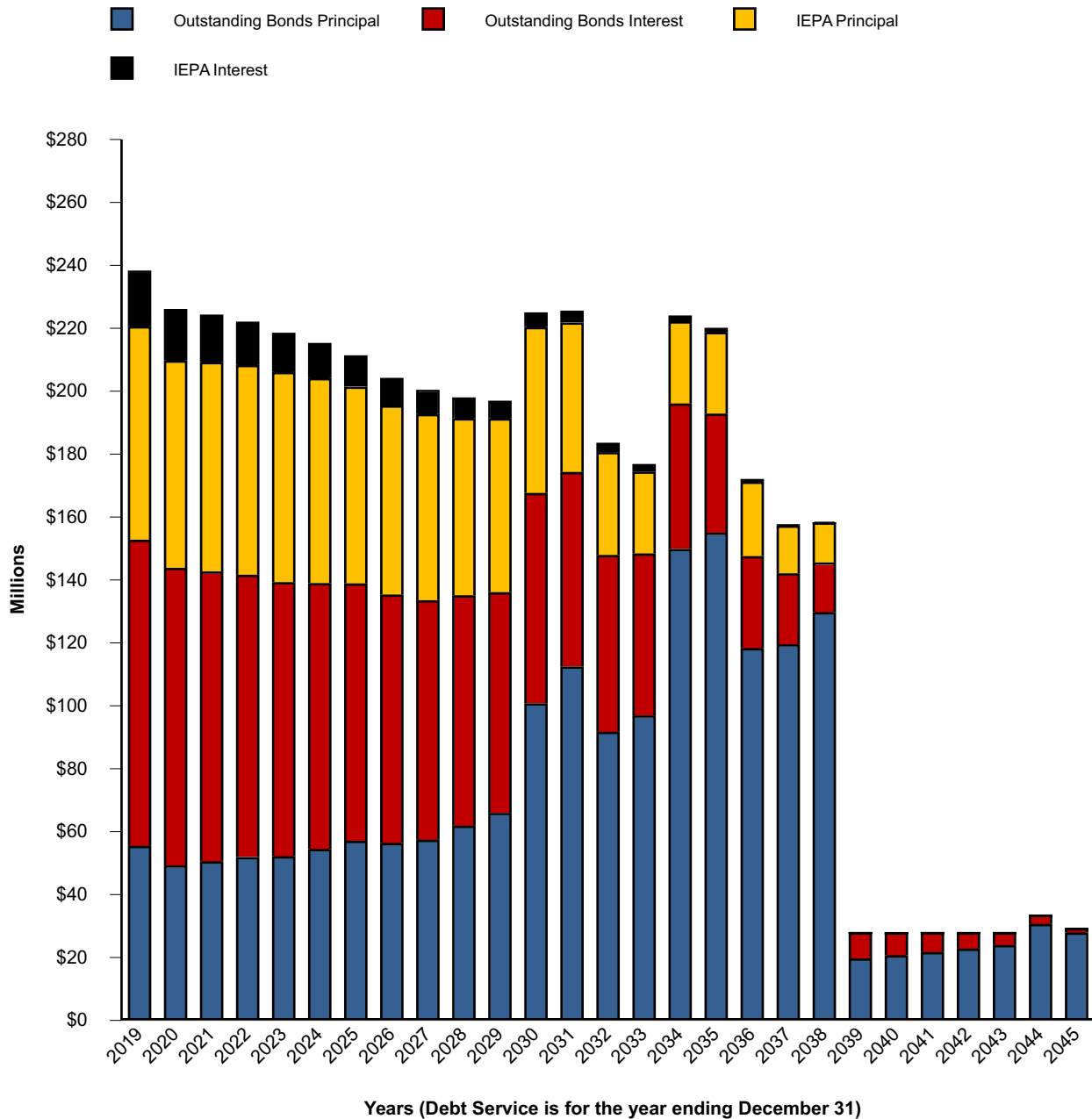
Description of Fund, Purpose, and Operation (continued)

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 \$6 to \$10 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. The estimates for total debt service assuming future bond sales are included in the Five-Year Financial Forecast in Section II, Budget and Financial Summaries, Schedules, and Exhibits, of this budget document.

**District General Obligation Bonded Debt Service
(Includes IEPA Debt)**



BOND REDEMPTION & INTEREST FUND**Appropriation for Payment of Outstanding Bonds During the Year 2019**

BOND ISSUE	RATES OF INTEREST	JANUARY 1, 2019			JULY 1, 2019			TOTAL PAYABLE
		INTEREST PAYABLE	PRINCIPAL PAYABLE	INTEREST PAYABLE	PRINCIPAL PAYABLE			
Capital Improvements Bonds - Series:								
2016 Qualified Energy Conservation Limited Tax Series F	5.0	80,000	(1)	—	80,000	(2)	— (2)	160,000
2009 Limited Tax Series	5.72	17,160,000	(1)	—	17,160,000	(2)	— (2)	34,320,000
2011 Limited Tax Series B	5.0	5,879,672	(1)	—	5,879,672	(2)	16,140,000 (2)	27,899,344
2011 Unlimited Tax Series C	3.0 to 5.0	1,076,666	(1)	—	1,076,666	(2)	1,885,000 (2)	4,038,332
2014 Limited Tax Series C	2.0 to 5.0	1,563,375	(1)	—	1,563,375	(2)	3,400,000 (2)	6,526,750
2014 Unlimited Tax Series A	5.0	2,500,000	(1)	—	2,500,000	(2)	— (2)	5,000,000
2014 Alternate Revenue Unlimited Tax Series B	2.0 to 5.0	1,143,450	(1)	—	1,143,450	(2)	985,000 (2)	3,271,900
2016 Alternate Revenue Unlimited Tax Series E	5.0	1,250,000	(1)	—	1,250,000	(2)	— (2)	2,500,000
2016 Unlimited Tax Series C	5.0	750,000	(1)	—	750,000	(2)	— (2)	1,500,000
2016 Limited Tax Series D	5.0	500,000	(1)	—	500,000	(2)	— (2)	1,000,000
State Revolving Fund Bonds - Series:								
14M SRF L175372	1.75	12,615		31,177	12,342	31,449		87,583
14N SRF L175371	1.75	11,554		28,555	11,304	28,805		80,218
16A SRF L174555	1.75	1,134,560		2,721,362	1,110,748	2,745,173		7,711,843
14B SRF L175171	2.21	28,281		60,291	27,614	60,956		177,142
14C SRF L174559	2.295	215,789		439,635	210,745	444,679		1,310,848
14D SRF L175263	1.86	104,381		240,068	102,148	242,300		688,897
14E SRF L173062	1.86	321,991		718,503	315,309	725,185		2,080,988
14G SRF L175152	1.86	142,941		318,964	139,975	321,930		923,810
14H SRF L175355	1.86	10,818		27,352	10,563	27,605		76,338
14K SRF L175366	1.86	45,310		104,208	44,340	105,176		299,034
14L SRF L175368	1.75	47,709		117,910	46,677	118,941		331,237
09D SRF L174558	2.295	335,868		976,394	324,663	987,598		2,624,523
12A SRF L174710	2.295	71,246		167,903	69,319	169,829		478,297
12B SRF L174712	2.295	61,017		143,796	59,367	145,446		409,626
12C SRF L174621	1.995	124,533		299,807	121,542	302,796		848,678
12D SRF L174988	1.93	230,800		804,053	223,041	811,812		2,069,706
12E SRF L174709	1.93	47,817		128,231	46,580	129,468		352,096
12F SRF L174989	1.93	449,361		1,478,481	435,093	1,492,747		3,855,682
12G SRF L174923	1.93	316,908		697,527	310,177	704,258		2,028,870
12H SRF L174924	1.93	208,286		710,772	201,426	717,631		1,838,115
12L SRF L175161	2.21	341,923		704,556	334,137	712,342		2,092,958
12J SRF L175172	1.995	23,449		60,505	22,846	61,108		167,908
12K SRF L174925	1.995	121,144		301,806	118,134	304,816		845,900
09A SRF L173074	1.25	206,056		1,133,398	198,972	1,140,482		2,678,908
09B SRF L173064	—	—		191,445	—	191,445		382,890
09C SRF L173063	—	—		55,979	—	55,979		111,958
09I SRF L174675	1.25	45,519		270,062	43,831	271,750		631,162
07A SRF L172625	2.50	344,265		1,040,964	331,252	1,053,976		2,770,457
07B SRF L172850	2.50	238,503		686,634	229,920	695,217		1,850,274
07C SRF L172770	—	—		1,666,667	—	1,666,667		3,333,334

(1) Interest Payable June 1, 2019 (2) Interest and Principal Payable December 1, 2019

BOND REDEMPTION & INTEREST FUND**Appropriation for Payment of Outstanding Bonds During the Year 2019**

BOND ISSUE	RATES OF INTEREST	JANUARY 1, 2019		JULY 1, 2019		TOTAL PAYABLE
		INTEREST PAYABLE	PRINCIPAL PAYABLE	INTEREST PAYABLE	PRINCIPAL PAYABLE	
State Revolving Fund Bonds - Series (continued):						
09G SRF L173075	1.25	131,525	729,008	126,969	733,563	1,721,065
09H SRF L173800	—	—	18,397	—	18,397	36,794
09E SRF L173005	1.25	169,908	969,590	163,848	975,650	2,278,996
07D SRF L172763	2.50	78,523	237,433	75,555	240,401	631,912
09F SRF L174557	1.25	280,375	1,541,771	270,738	1,551,407	3,644,291
04G SRF L172611	2.50	25,603	108,883	24,241	110,244	268,971
04H SRF L172849	2.50	406,136	1,362,586	389,104	1,379,618	3,537,444
01A SRF L172126	2.57	248,744	1,649,593	227,546	1,670,790	3,796,673
97DD SRF L171152	2.905	69,767	449,758	63,234	456,290	1,039,049
01B SRF L172127	2.50	287,454	1,640,121	266,953	1,660,622	3,855,150
01C SRF L172128	2.50	288,527	1,408,618	270,918	1,426,226	3,394,289
04A SRF L172485	2.50	158,183	631,272	150,291	639,162	1,578,908
04B SRF L172488	2.50	184,788	737,448	175,570	746,667	1,844,473
04C SRF L172493	2.50	16,434	69,891	15,561	70,765	172,651
04D SRF L172494	2.50	15,760	67,024	14,922	67,862	165,568
04E SRF L172495	2.50	54,377	204,264	51,824	206,817	517,282
04F SRF L172496	—	—	99,368	—	99,368	198,736
12O SRF L175166	1.995	41,891	104,362	40,850	105,403	292,506
12I SRF L175222	2.21	51,318	105,744	50,149	106,911	314,122
12M SRF L175168	2.21	126,491	244,046	123,794	246,741	741,072
12N SRF L175164	1.995	26,017	62,634	25,392	63,259	177,302
14I SRF L175223	1.86	55,039	122,815	53,896	123,957	355,707
14J SRF L175219	2.21	33,989	72,460	33,188	73,261	212,898
97BB SRF L171151	2.535	16,097	311,513	12,148	315,462	655,220
14A SRF L173076	2.21	825,716	1,701,446	806,915	1,720,247	5,054,324
97CC SRF L172031	2.535	100,499	1,090,352	86,679	1,104,172	2,381,702
16D SRF L175460	1.75	42,639	105,379	41,716	106,302	296,036
97AA SRF L170822	2.506	40,140	1,591,751	20,194	1,611,696	3,263,781
Refunding Bonds - Series:						
2014 Limited Tax Series D	2.0 to 5.0	1,328,125	(1) —	1,328,125	(2) 11,945,000	(2) 14,601,250
2007 Unlimited Tax Series A	4.0 to 5.0	2,283,125	(1) —	2,283,125	(2) 21,125,000	(2) 25,691,250
2007 Unlimited Tax Series B	4.0 to 5.0	2,410,932	(1) —	2,410,931	(2) —	(2) 4,821,863
2007 Limited Tax Series C	4.0 to 5.0	2,673,825	(1) —	2,673,825	(2) —	(2) 5,347,650
2016 Unlimited Tax Series A	5.0	7,023,250	(1) —	7,023,250	(2) —	(2) 14,046,500
2016 Limited Tax Series B	5.0	1,033,250	(1) —	1,033,250	(2) —	(2) 2,066,500
TOTAL		57,674,254	33,764,532	57,339,929	89,578,826	238,357,541

(1) Interest Payable June 1, 2019 (2) Interest and Principal Payable December 1, 2019

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. The primary goal of the Fund is to provide continuity of benefits to the members while preserving the fiscal integrity and financial stability of the Fund.

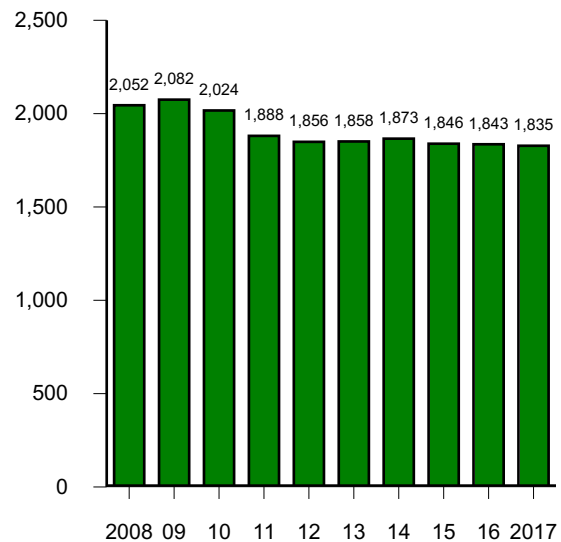
On August 3, 2012, the Governor signed Public Act 97-0894, which increased the nine percent required employee contributions one percent per year for three years beginning in 2013 to the current contribution of 12 percent for employees who first became a member of the Fund or certain reciprocal systems before January 1, 2011 (Tier I). The employee contribution rate will be reduced to nine percent when the funded ratio reaches 90 percent. The tax levy is 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, 2017, there were 1,835 active (contributing) participants in the Fund and 2,438 beneficiaries. Annuitants accounted for 2,408 of these beneficiaries, including 1,809 retired employees, 576 surviving spouses, and 23 children. Additionally, the Fund paid disability benefits to 30 District employees.

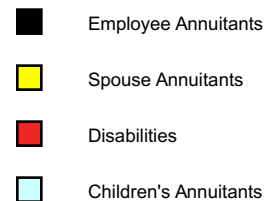
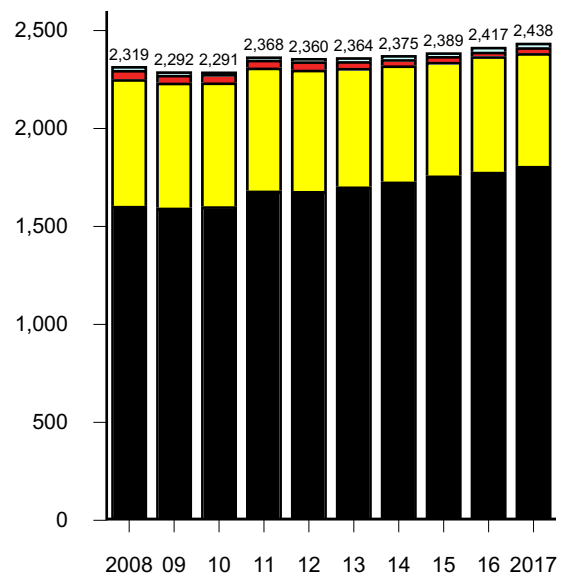
Gross income for the Fund is composed of the following items:

- Employee contributions – beginning in 2015, employees hired prior to January 1, 2011 (Tier I) contribute 12 percent of salary to the Fund. Employees hired on or after January 1, 2011 (Tier II) contribute nine percent of salary to the Fund due to reduced benefits under the Tier II 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 2019, the District will levy a tax which will produce a sum that will be sufficient to meet the Fund's actuarially determined contribution requirement but 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.
- Investment income - includes dividends and interest, as well as realized and unrealized appreciation (depreciation) in the fair value of the investments. The District's goal is to have a 100 percent funded ratio by 2050.

Active Participants



Beneficiaries

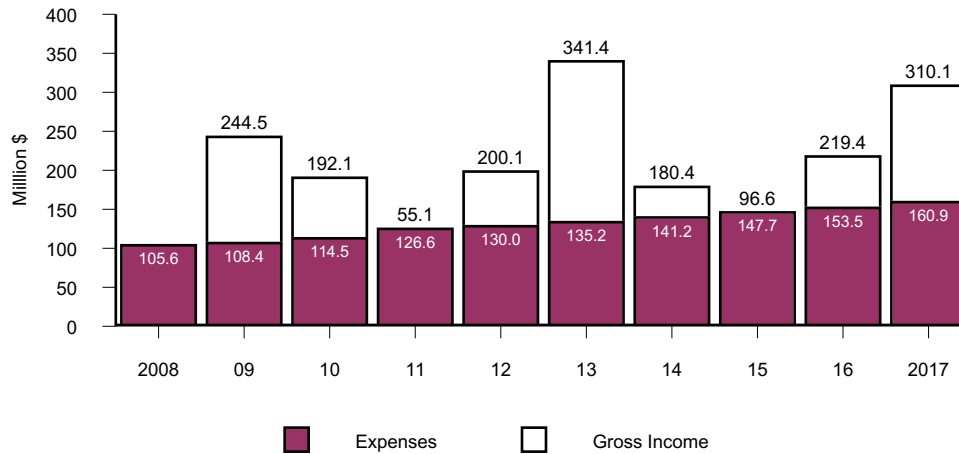


RETIREMENT FUND

Description of Fund, Purpose, and Operation (continued)

Gross income for 2017 was \$310.1 million, which is a combination of employee and employer contributions of \$110.7 million, investment income of \$199.1 million, securities lending income of \$345,800, and other income of \$3,100; reflecting an income of \$90.7 million greater than in 2016. Total investment income in 2017 was higher than the prior year primarily due to greater returns in the U.S. and non-U.S. equity markets as well as fixed income markets during 2017.

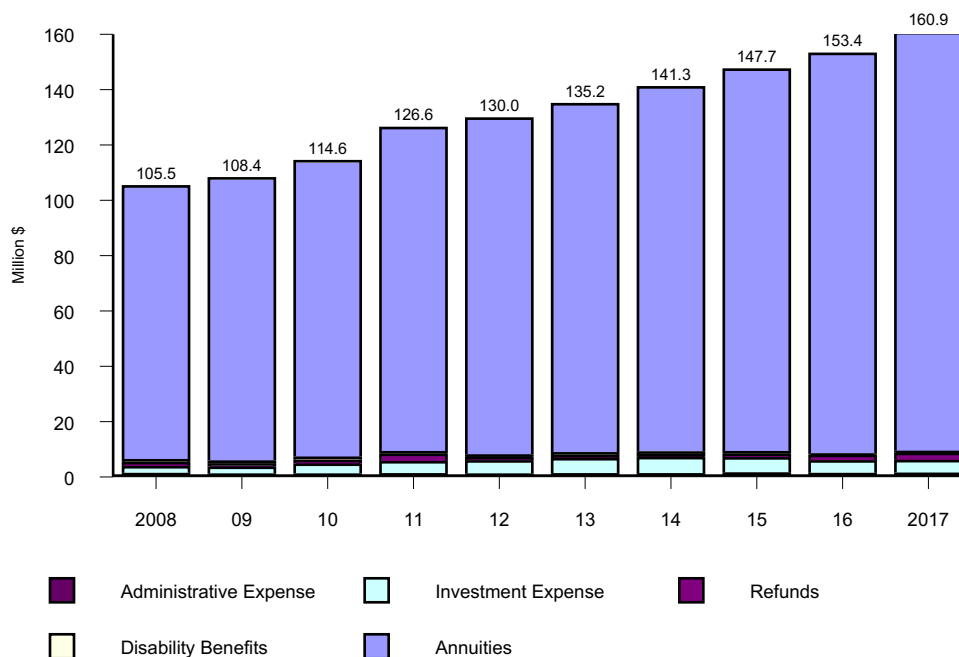
Gross Income vs. All Expenses



In 2008, Gross Income was (\$249.0) which was primarily due to the unprecedented declines in the financial market in the 4th quarter.

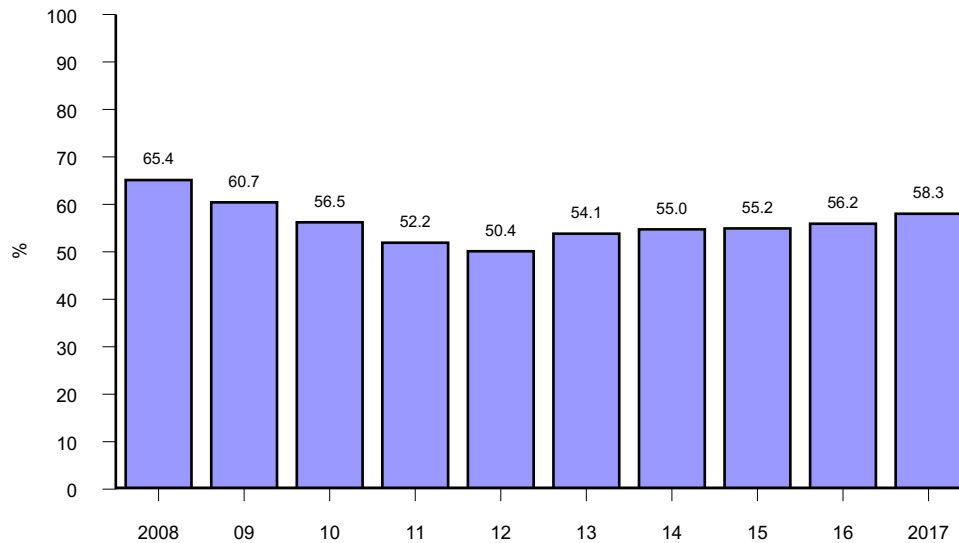
Expenses for 2017 include annuity and disability benefit payments of \$152.1 million investment management expenses of \$4.6 million, administrative expenses of \$1.6 million, and refunds of \$2.6 million for a total of \$160.9 million.

Expenses

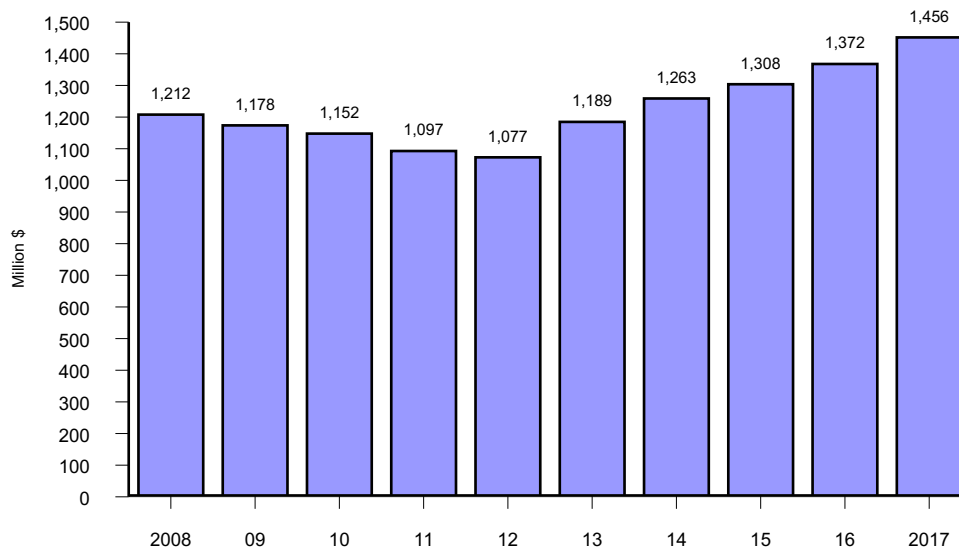


As of December 31, 2017, the funded ratio of the Fund was 58.3 percent. Beginning in 1997, Fund assets and this ratio are reported at the new Actuarial Asset Value required by the Governmental Accounting Standards Board. The funded ratio has been in the range of 50.4 percent to 65.4 percent during the last ten years. The District's Board of Commissioners adopted a Funding Policy recommended by the Retirement Fund Board of Trustees to ensure the long-term financial health of the pension program while balancing the interests of the employees, retirees, taxpayers, and the District. The funding policy establishes maximum contribution amounts equal to the maximum contribution allowed by Statute and minimum contribution levels that are intended to exceed the minimum contribution required by Statute. The funding goal of the policy is to contribute annually to the Fund an amount that will increase the funded ratio to 100 percent by the year 2050. The Policy was adopted by the Board of Commissioners on October 2, 2014.

Funded Ratio at Actuarial Value



Assets at Actuarial Value



For the 2019 Budget, the gross property tax levy totals \$71.6 million, an increase of \$0.03 million, or 0.04 percent, above the 2018 adjusted levy. The 2019 Personal Property Replacement Tax allocation to the Retirement Fund is \$18.3 million. The 2019 appropriation is \$87.3 million, a decrease of \$2.3 million, or 2.6 percent, below the 2018 Adjusted Budget.

APPROPRIATION ORDINANCE NUMBER O18-006
(CONTINUED)

THE METROPOLITAN WATER RECLAMATION DISTRICT RETIREMENT FUND

And an amount of Estimated Expenditures for the Purpose of the Metropolitan Water Reclamation District Retirement Fund of \$87,281,000.

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, 2019.

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 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 2019 levies.

This section includes 2019 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 2019 Tax Levy for Payment of Outstanding Bonds, can also be found in this section.

Retirement Fund and Corporate Fund	553
Construction Fund	554
Bond Redemption & Interest Fund:	
Tax Levy Ordinance for Outstanding Bonds	555
Tax Levy for Payment of Outstanding Bonds, 2019	558
Reserve Claim Fund	560
Stormwater Management Fund	561

ORDINANCE NUMBER 018-007

**FOR THE LEVY OF TAXES FOR THE FISCAL YEAR
BEGINNING JANUARY 1, 2019 AND ENDING DECEMBER 31, 2019
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, 2019
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, 2019, for the fiscal year ending December 31, 2019, 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 \$71,565,400 which includes the sum of \$2,504,789 as a reserve for loss in collection of taxes, distributed as

Contributions for Service Retirement Allowances and Spouses' Allowances	\$ 13,140,340
Contributions for Ordinary Disability Benefits	461,444
Contributions for Duty Disability Benefits	214,395
Contributions for Expense of Administration	1,358,416
Contributions for Children's Annuities	125,858
Contributions for Current and Past Service Requirements	56,264,947
	<u>\$ 71,565,400</u>

For Corporate Purposes of the said Metropolitan Water Reclamation District of Greater Chicago "the sum of \$254,574,100 which includes the sum of \$8,910,094 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 2019 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, 2019, 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, 2019.

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

ORDINANCE NUMBER O18-008

**FOR THE LEVY OF TAXES FOR THE FISCAL YEAR BEGINNING
JANUARY 1, 2019 AND ENDING DECEMBER 31, 2019
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, 2019
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, 2019 for the fiscal year ending December 31, 2019, 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 \$7,600,000 which includes the sum of \$266,000 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 2019 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, 2019, 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.

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 2019 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 2019 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, 2019.

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*

ORDINANCE NUMBER 018-009

**FOR THE LEVY OF TAXES FOR THE FISCAL YEAR BEGINNING
JANUARY 1, 2019 AND ENDING DECEMBER 31, 2019
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, 2019, and all taxable property in townships or parts of townships disconnected from the Metropolitan Water Reclamation District of Greater Chicago prior to January 1, 2019, but after the issuance of any bonds, the amounts of money hereinafter stated:

Capital Improvement Bonds - Series:

2009 Limited Tax Series	08/26/09	35,564,767
2011 Limited Tax Series B	07/27/11	18,950,616
2011 Unlimited Tax Series C	07/27/11	2,515,991
2014 Limited Tax Series C	01/06/15	8,286,788
2014 Unlimited Tax Series A	01/06/15	5,181,348
2014 Alternate Revenue Unlimited Tax Series B	01/06/15	3,391,037
2016 Alternate Revenue Unlimited Tax Series E	07/07/16	2,590,674
2016 Unlimited Tax Series C	07/07/16	1,554,405
2016 Limited Tax Series D	07/07/16	1,036,270
2016 Qualified Energy Conservation Limited Tax Series F	07/07/16	165,804

State Revolving Funds Bonds - Series:

09D SRF L174558	2,719,714
12A SRF L174710	495,644
12B SRF L174712	424,481
12C SRF L174621	913,248
12D SRF L174988	2,144,773
12E SRF L174709	364,866
12F SRF L174989	4,182,054
12G SRF L174923	2,237,666
12H SRF L174924	1,904,781
12I SRF L175222	336,470
12J SRF L175172	173,996
12K SRF L174925	971,963
12L SRF L175161	2,557,534
12M SRF L175168	1,164,145
12N SRF L175164	186,528
12O SRF L175166	303,115
14A SRF L173076	8,866,321
14B SRF L175171	182,404
14C SRF L174559	1,772,899
14D SRF L175263	828,388
14E SRF L173062	2,914,926
14F SRF L175342	4,145,078
14G SRF L175152	1,364,037

ORDINANCE NUMBER 018-009

**FOR THE LEVY OF TAXES FOR THE FISCAL YEAR BEGINNING
JANUARY 1, 2019 AND ENDING DECEMBER 31, 2019
TO PAY THE INTEREST ON OUTSTANDING BONDS AND TO
DISCHARGE THE PRINCIPAL THEREOF (CONTINUED)**

State Revolving Funds Bonds - Series:

14H SRF L175355	79,322
14I SRF L175223	809,704
14J SRF L175219	315,494
14K SRF L175366	348,796
14L SRF L175368	345,144
14M SRF L175372	92,450
14N SRF L175371	98,613
14O SRF L175305	203,389
14P SRF L175369	256,093
16A SRF L174555	8,497,409
16D SRF L175460	503,633
09A SRF L173074	2,776,070
09B SRF L173064	396,777
09C SRF L173063	116,019
09I SRF L174675	654,054
07A SRF L172625	2,870,941
07B SRF L172850	1,917,382
07C SRF L172770	3,454,232
09G SRF L173075	1,783,488
09H SRF L173800	38,128
09E SRF L173005	2,361,654
07D SRF L172763	654,831
09F SRF L174557	3,776,466
04G SRF L172611	278,725
04H SRF L172849	3,665,745
01A SRF L172126	3,934,375
97DD SRF L171152	1,076,736
01B SRF L172127	3,994,974
01C SRF L172128	3,517,399
04A SRF L172485	1,636,174
04B SRF L172488	1,911,370
04C SRF L172493	178,912
04D SRF L172494	171,573
04E SRF L172495	536,044
04F SRF L172496	205,944
97BB SRF L171151	339,492
97CC SRF L172031	2,468,083

ORDINANCE NUMBER 018-009

**FOR THE LEVY OF TAXES FOR THE FISCAL YEAR BEGINNING
JANUARY 1, 2019 AND ENDING DECEMBER 31, 2019
TO PAY THE INTEREST ON OUTSTANDING BONDS AND TO
DISCHARGE THE PRINCIPAL THEREOF (CONTINUED)**

Refunding Bonds - Series:

2007 Unlimited Tax Series A	03/21/07	26,694,301
2007 Unlimited Tax Series B	03/21/07	4,996,749
2007 Limited Tax Series C	03/21/07	5,541,607
2014 Limited Tax Series D	01/06/15	15,895,337
2016 Unlimited Tax Series A	07/07/16	14,555,959
2016 Limited Tax Series B	07/07/16	2,141,451
		<u>\$ 246,483,770</u>

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 2019 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, 2019, 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, 2019 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, 2019.

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**2019 Tax Levy for Payment of Outstanding Bonds**

BOND ISSUE	ISSUE DATED	INTEREST PAYMENT DATES	INTEREST	PRINCIPAL	RESERVE FOR UNCOLLECTED TAX (A)	GROSS LEVY
Capital Improvement Bonds - Series:						
2009 Limited Tax Series	08/26/09	6/1/19 - 12/1/19	34,320,000	—	1,244,767	35,564,767
2011 Limited Tax Series B	07/27/11	6/1/19 - 12/1/19	10,952,344	7,335,000	663,272	18,950,616
2011 Unlimited Tax Series C	07/27/11	6/1/19 - 12/1/19	2,077,931	350,000	88,060	2,515,991
2014 Limited Tax Series C	01/06/15	6/1/19 - 12/1/19	2,956,750	5,040,000	290,038	8,286,788
2014 Unlimited Tax Series A	01/06/15	6/1/19 - 12/1/19	5,000,001	—	181,347	5,181,348
2014 Alternate Revenue Unlimited Tax Series B	01/06/15	6/1/19 - 12/1/19	2,257,351	1,015,000	118,686	3,391,037
2016 Alternate Revenue Unlimited Tax Series E	07/07/16	6/1/19 - 12/1/19	2,500,000	—	90,674	2,590,674
2016 Unlimited Tax Series C	07/07/16	6/1/19 - 12/1/19	1,500,001	—	54,404	1,554,405
2016 Limited Tax Series D	07/07/16	6/1/19 - 12/1/19	1,000,001	—	36,269	1,036,270
2016 Qualified Energy Conservation Limited Tax Series F	07/07/16	6/1/19 - 12/1/19	160,000	—	5,804	165,804
State Revolving Funds Bonds - Series:						
09D SRF L174558	07/01/13	7/1/19 - 1/1/20	592,143	2,032,381	95,190	2,719,714
12A SRF L174710	07/01/14	7/1/19 - 1/1/20	128,804	349,492	17,348	495,644
12B SRF L174712	07/01/14	7/1/19 - 1/1/20	110,312	299,312	14,857	424,481
12C SRF L174621	07/01/16	7/1/19 - 1/1/20	236,615	644,669	31,964	913,248
12D SRF L174988	07/01/15	7/1/19 - 1/1/20	406,609	1,663,097	75,067	2,144,773
12E SRF L174709	07/01/15	7/1/19 - 1/1/20	86,865	265,231	12,770	364,866
12F SRF L174989	07/01/15	7/1/19 - 1/1/20	787,398	3,248,284	146,372	4,182,054
12G SRF L174923	07/01/18	7/1/19 - 1/1/20	638,480	1,520,868	78,318	2,237,666
12H SRF L174924	07/01/15	7/1/19 - 1/1/20	367,959	1,470,155	66,667	1,904,781
12I SRF L175222	07/01/16	7/1/19 - 1/1/20	97,514	227,180	11,776	336,470
12J SRF L175172	07/01/15	7/1/19 - 1/1/20	42,618	125,288	6,090	173,996
12K SRF L174925	07/01/15	7/1/19 - 1/1/20	304,088	633,856	34,019	971,963
12L SRF L175161	07/01/16	7/1/19 - 1/1/20	741,210	1,726,810	89,514	2,557,534
12M SRF L175168	07/01/18	7/1/19 - 1/1/20	546,123	577,277	40,745	1,164,145
12N SRF L175164	07/01/16	7/1/19 - 1/1/20	48,328	131,672	6,528	186,528
12O SRF L175166	07/01/15	7/1/19 - 1/1/20	76,401	216,105	10,609	303,115
14A SRF L173076	07/01/16	7/1/19 - 1/1/20	5,019,621	3,536,379	310,321	8,866,321
14B SRF L175171	07/01/16	7/1/19 - 1/1/20	51,502	124,518	6,384	182,404
14C SRF L174559	07/01/16	7/1/19 - 1/1/20	795,742	915,106	62,051	1,772,899
14D SRF L175263	07/01/18	7/1/19 - 1/1/20	229,196	570,198	28,994	828,388
14E SRF L173062	07/01/18	7/1/19 - 1/1/20	806,494	2,006,410	102,022	2,914,926
14F SRF L175342	07/01/19	7/1/19 - 1/1/20	597,749	3,402,251	145,078	4,145,078
14G SRF L175152	07/01/18	7/1/19 - 1/1/20	377,398	938,898	47,741	1,364,037
14H SRF L175355	07/01/17	7/1/19 - 1/1/20	19,887	56,659	2,776	79,322
14I SRF L175223	07/01/18	7/1/19 - 1/1/20	224,027	557,337	28,340	809,704
14J SRF L175219	07/01/16	7/1/19 - 1/1/20	89,081	215,371	11,042	315,494
14K SRF L175366	07/01/18	7/1/19 - 1/1/20	96,504	240,084	12,208	348,796
14L SRF L175368	07/01/18	7/1/19 - 1/1/20	90,720	242,344	12,080	345,144
14M SRF L175372	07/01/18	7/1/19 - 1/1/20	24,300	64,914	3,236	92,450
14N SRF L175371	07/01/18	7/1/19 - 1/1/20	25,920	69,242	3,451	98,613
14O SRF L175305	07/01/18	7/1/19 - 1/1/20	53,460	142,810	7,119	203,389
14P SRF L175369	07/01/18	7/1/19 - 1/1/20	63,850	183,280	8,963	256,093
16A SRF L174555	07/01/18	7/1/19 - 1/1/20	2,233,516	5,966,484	297,409	8,497,409

BOND REDEMPTION AND INTEREST FUND

2019 Tax Levy for Payment of Outstanding Bonds

BOND ISSUE	ISSUE DATED	INTEREST PAYMENT DATES	INTEREST	PRINCIPAL	RESERVE FOR UNCOLLECTED TAX (A)	GROSS LEVY
State Revolving Funds Bonds - Series:						
16D SRF L175460	07/01/18	7/1/19 - 1/1/20	129,284	356,722	17,627	503,633
09A SRF L173074	07/01/12	7/1/19 - 1/1/20	362,126	2,316,781	97,163	2,776,070
09B SRF L173064	06/21/11	7/1/19 - 1/1/20	—	382,886	13,891	396,777
09C SRF L173063	01/15/11	7/1/19 - 1/1/20	—	111,957	4,062	116,019
09I SRF L174675	06/21/11	7/1/19 - 1/1/20	79,128	552,034	22,892	654,054
07A SRF L172625	06/17/10	7/1/19 - 1/1/20	595,971	2,174,486	100,484	2,870,941
07B SRF L172850	07/01/10	7/1/19 - 1/1/20	415,953	1,434,320	67,109	1,917,382
07C SRF L172770	01/01/11	7/1/19 - 1/1/20	—	3,333,334	120,898	3,454,232
09G SRF L173075	07/01/13	7/1/19 - 1/1/20	230,899	1,490,166	62,423	1,783,488
09H SRF L173800	04/23/11	7/1/19 - 1/1/20	—	36,793	1,335	38,128
09E SRF L173005	08/06/11	7/1/19 - 1/1/20	297,054	1,981,942	82,658	2,361,654
07D SRF L172763	06/10/10	7/1/19 - 1/1/20	135,934	495,976	22,921	654,831
09F SRF L174557	07/01/16	7/1/19 - 1/1/20	492,752	3,151,538	132,176	3,776,466
04G SRF L172611	01/31/07	7/1/19 - 1/1/20	41,523	227,446	9,756	278,725
04H SRF L172849	07/01/09	7/1/19 - 1/1/20	691,117	2,846,327	128,301	3,665,745
01A SRF L172126	07/01/04	7/1/19 - 1/1/20	346,638	3,450,034	137,703	3,934,375
97DD SRF L171152	07/01/04	7/1/19 - 1/1/20	92,944	946,104	37,688	1,076,736
01B SRF L172127	07/01/05	7/1/19 - 1/1/20	429,075	3,426,073	139,826	3,994,974
01C SRF L172128	06/16/06	7/1/19 - 1/1/20	451,804	2,942,484	123,111	3,517,399
04A SRF L172485	05/15/08	7/1/19 - 1/1/20	260,235	1,318,673	57,266	1,636,174
04B SRF L172488	05/28/08	7/1/19 - 1/1/20	304,005	1,540,467	66,898	1,911,370
04C SRF L172493	03/27/07	7/1/19 - 1/1/20	26,654	145,996	6,262	178,912
04D SRF L172494	01/31/07	7/1/19 - 1/1/20	25,561	140,007	6,005	171,573
04E SRF L172495	05/30/08	7/1/19 - 1/1/20	90,592	426,690	18,762	536,044
04F SRF L172496	04/23/11	7/1/19 - 1/1/20	—	198,735	7,209	205,944
97BB SRF L171151	07/01/04	7/1/19 - 1/1/20	4,102	323,509	11,881	339,492
97CC SRF L172031	07/01/04	7/1/19 - 1/1/20	102,669	2,279,031	86,383	2,468,083
Refunding Bonds - Series:						
2007 Unlimited Tax Series A	03/21/07	6/1/19 - 12/1/19	3,510,000	22,250,000	934,301	26,694,301
2007 Unlimited Tax Series B	03/21/07	6/1/19 - 12/1/19	4,821,863	—	174,886	4,996,749
2007 Limited Tax Series C	03/21/07	6/1/19 - 12/1/19	5,347,650	—	193,957	5,541,607
2014 Limited Tax Series D	01/06/15	6/1/19 - 12/1/19	2,059,000	13,280,000	556,337	15,895,337
2016 Unlimited Tax Series A	07/07/16	6/1/19 - 12/1/19	14,046,500	—	509,459	14,555,959
2016 Limited Tax Series B	07/07/16	6/1/19 - 12/1/19	2,066,500	—	74,951	2,141,451
TOTAL			\$ 116,192,346	\$ 121,664,473	\$ 8,626,951	\$ 246,483,770

(A) Reserve at 3.5%

ORDINANCE NUMBER O18-010

**FOR THE LEVY OF TAXES FOR THE FISCAL YEAR BEGINNING
JANUARY 1, 2019 AND ENDING DECEMBER 31, 2019
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, 2019
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 \$7,500,000 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, 2019, for the fiscal year ending December 31, 2019, 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 2019 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, 2019, 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, 2019.

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

ORDINANCE NUMBER 018-011

**FOR THE LEVY OF TAXES FOR THE FISCAL YEAR BEGINNING
JANUARY 1, 2019 AND ENDING DECEMBER 31, 2019
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, 2019
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, 2019, for the fiscal year ending December 31, 2019, to provide revenue for the development, design, planning and construction, operation, and maintenance of regional and local stormwater facilities provided for in the countywide stormwater management plan and the acquisition of real property in furtherance of its regional and local stormwater management activities, and for payment of principal and interest on bonds issued for stormwater projects as authorized under the District's Act, "the sum of \$52,926,000 which includes the sum of \$1,852,410 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 2019, 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, 2019, 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, 2019.

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*

NOTE PAGE

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 45 years.

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COMPENSATION PLAN NARRATIVE

In accordance with Illinois State Statute, Chapter 70, Section 2605/4.2, a Department of Human Resources for the District was created, 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 purpose of establishing pay grades.

For the purpose of establishing uniformity of pay and title for positions, the Director prescribes the minimum and maximum 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. Compensation for non-represented positions is defined in the Salary Schedule for Technical, Administrative, and Managerial (HP) Employees.

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) Employees.

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 (EX) Employees.

SALARY SCHEDULES (bi-weekly rates)

Exempt (EX)

EX01	\$2,884.62	EX09	\$576.92	EX17	\$9,134.48
EX02	\$2,692.31	EX10	\$9,134.48	EX18	\$5,138.17
EX03	\$6,928.13	EX11	\$10,276.29	EX19	\$9,134.48
EX04	\$2,527.61 to \$3,934.28	EX12	\$10,276.29	EX20	None
EX05	\$9,134.48	EX13	\$9,134.48	EX21	\$2,884.62
EX06	\$2,527.61 to \$3,934.28	EX14	\$10,276.29	EX22	\$3,076.92
EX07	\$11,418.15	EX15	\$10,276.29	EX23	\$3,651.91
EX08	\$9,134.48	EX16	\$673.08	EX24	\$3,651.91

Technical, Administrative, and Managerial (HP)

HP07	\$1,313.26 to \$1,912.67	HP14	\$2,717.76 to \$4,213.23	HP21	\$5,467.91 to \$8,204.33
HP08	\$1,429.29 to \$2,105.75	HP15	\$2,982.92 to \$4,544.11	HP22	\$6,035.71 to \$8,963.88
HP09	\$1,568.46 to \$2,337.57	HP16	\$3,310.42 to \$4,952.79	HP23	\$6,711.13 to \$9,762.46
HP10	\$1,754.10 to \$2,646.62	HP17	\$3,695.14 to \$5,432.87	TM01	\$1,040.00
HP11	\$1,970.73 to \$3,007.16	HP18	\$4,147.50 to \$5,997.25	TM02	\$1,400.00
HP12	\$2,233.70 to \$3,444.99	HP19	\$4,708.98 to \$6,697.86		
HP13	\$2,527.61 to \$3,934.28	HP20	\$4,986.72 to \$7,560.64		

Labor Trades (LT)

NR1541	\$3,203.20	NR6275	\$4,794.40	PR5153	\$3,788.00	PR5975	\$4,066.40	PR7579	\$4,150.40
NR1835	\$2,874.40	NR6441	\$3,460.00	PR5155	\$3,948.00	PR5989	\$4,186.40	PR7743	\$4,040.00
NR1853	\$3,245.60	NR6810	\$3,392.80	PR5159	\$3,988.00	PR6453	\$4,088.00	PR7773	\$3,880.00
NR1857	\$3,460.00	NR6831	\$3,982.40	PR5353	\$3,695.20	PR6459	\$4,408.00	PR7775	\$4,120.00
NR2483	\$3,245.60	NR6832	\$4,125.60	PR5553	\$3,724.00	PR6473	\$2,968.00	PR7779	\$4,280.00
NR3641	\$2,325.60	NR7393	\$4,352.00	PR5555	\$3,956.80	PR6479	\$3,228.00	PR1025	\$2,182.72 to \$3,483.36
NR3642	\$2,544.00	NR7394	\$5,176.00	PR5753	\$4,020.00	PR7343	\$3,868.00	TR3509	\$2,038.32
NR5369	\$3,261.60	NR7399	\$3,526.40	PR5755	\$4,260.00	PR7347	\$4,348.00		
NR6210	\$3,570.40	NR8331	\$3,460.00	PR5759	\$4,340.00	PR7349	\$4,108.00		
NR6232	\$3,748.80	NR8650	\$3,245.60	PR5933	\$3,844.00	PR7423	\$4,152.00		
NR6233	\$3,936.00	NR8651	\$3,089.60	PR5935	\$4,124.00	PR7424	\$4,552.00		
NR6251	\$4,567.20	NR8652	\$2,154.40	PR5953	\$3,540.00	PR7425	\$4,872.00		
NR6271	\$4,597.60	NR8660	\$1,900.50	PR5955	\$3,858.40	PR7573	\$3,870.40		
NR6272	\$4,352.00	NR8661	\$2,830.80	PR5973	\$3,906.40	PR7575	\$4,070.40		

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 681 of the General Division of the Maintenance & Operations Department, 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 \$4,147.50 to \$5,997.25 bi-weekly. By multiplying those rates by 26, it can be determined that the annual salary range for such positions is \$107,835.00 to \$155,928.50. 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.

DEVELOP EMPLOYEES

The District invests in employee growth through providing a tuition reimbursement program which helps employees develop skills and competencies that increases their promotional opportunities and trains future leaders. The support of their education also assists the District in maintaining a leadership role in wastewater through retaining best in class employees. The following is a list of 2017 and 2018 graduates that utilized the tuition reimbursement program.

EMPLOYEE NAME	COLLEGE/UNIVERSITY	MONTH/YEAR OF GRADUATION	FIELD OF STUDY
Devitt, Colin	Northwestern University	Dec 2017	Master of Science in Project Management
Desai, Rachana	Roosevelt University	Dec 2017	Master of Science
Haucke, Stephen	Indiana University	Feb 2018	Master of Business Administration
Reynolds, Brandon	University of Illinois	Dec 2017	Master of Public Health
Venuso, Valerie	Saint Xavier University	Dec 2017	Bachelor of Business Administration
Wright, Anne	Roosevelt University	May 2018	Post-Baccalaureate Certificate in Paralegal Studies

USER CHARGE RATES

Year	Large Commercial/Industrial Users				Tax-Exempt Users			
	Flow per million gallons	BOD ₅ per 1,000 pounds	SS per 1,000 pounds	O, M&R Factor	Flow per million gallons	BOD ₅ per 1,000 pounds	SS per 1,000 pounds	Revenues in \$ millions
2019	\$ 269.04	\$ 216.64	\$ 130.38	32.8%	\$ 269.04	\$ 216.64	\$ 130.38	\$ 46.0
2018	264.28	223.03	136.48	30.1%	264.28	223.03	136.48	46.0
2017	259.61	229.13	142.47	33.9%	259.61	229.13	142.47	47
2016	255.02	234.95	148.33	34.4%	255.02	234.95	148.33	47.5
2015	250.51	240.49	154.08	39.1%	250.51	240.49	154.08	48.5
2014	246.08	245.75	159.72	43.5%	246.08	245.75	159.72	45
2013	241.73	250.76	165.25	42.4%	245.18	254.34	167.6	53.8
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	277.7	205.33	48.7
2009	229.37	231.9	174.25	50.4%	235.96	238.56	179.25	45
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	225.8	239.79	183.41	56.8%	235.40	249.99	191.2	53.6

BOD₅ 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

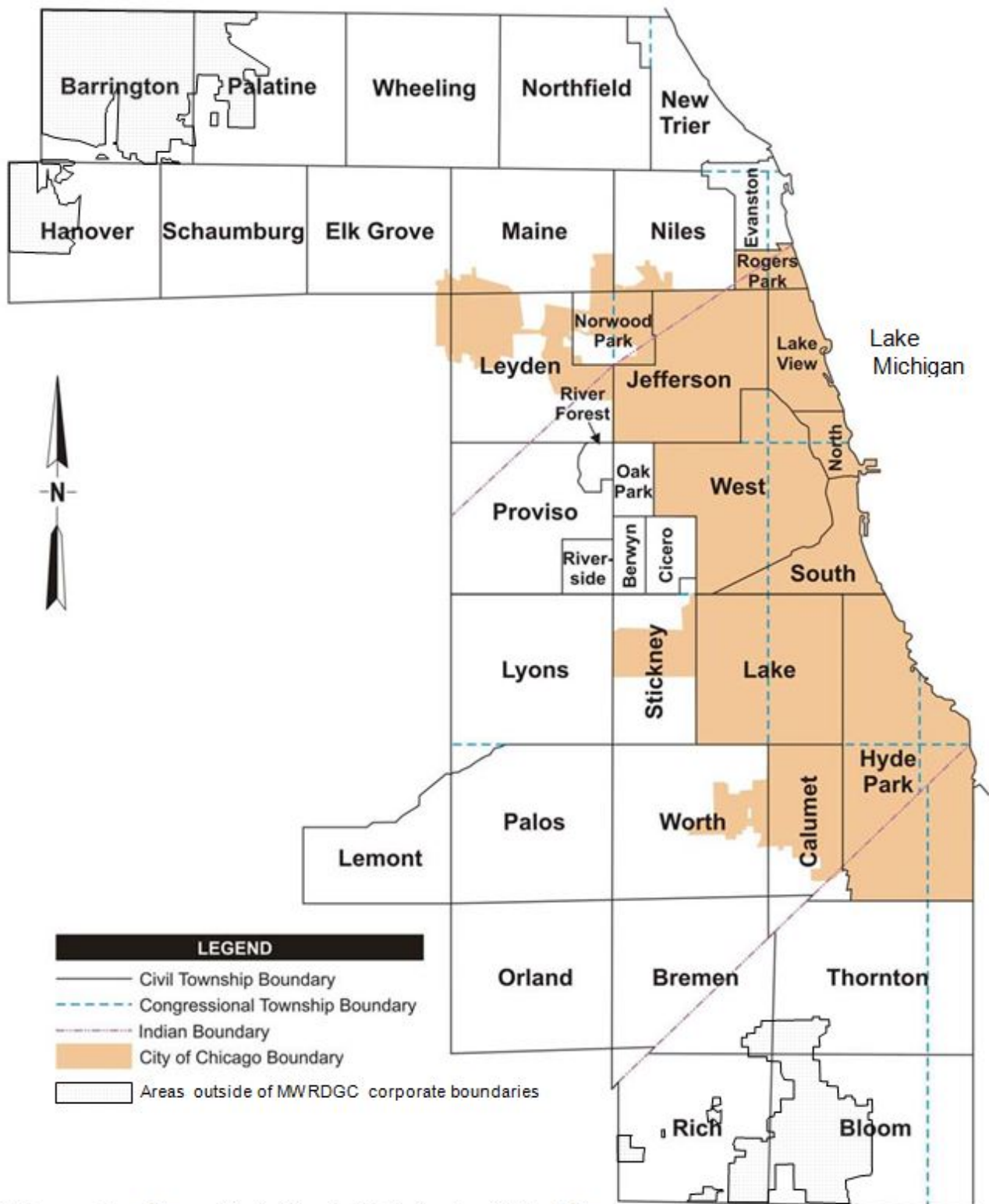
(in thousands of dollars)

Fiscal Year Ended Dec. 31	Taxes Levied for the Fiscal Year	Collected within the First Year		
		Amount	Percentage of Levy	Final Due Date
2016	\$ 593,135			43,313
2015	571,454	559,938	98	8/1/2017
2014	555,098	541,008	97.5	8/1/2016
2013	540,250	523,203	96.8	8/1/2015
2012	515,590	497,452	96.5	8/1/2014
2011	493,673	476,881	96.6	8/1/2013
2010	476,955	460,618	96.6	8/1/2012
2009	457,356	435,009	95.1	10/1/2011
2008	455,361	383,612	84.2	12/13/2010
2007	428,645	400,048	93.3	12/1/2009

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, 2016.

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/TRAD/cook.html>

PROPERTY TAX BASE

MWRDGC Equalized Assessed Valuation by Township 2011 - 2016 (in \$ millions)

Township	2012	2013	2014	2015	2016	2017	Average Annual Change
Suburban							
Barrington	\$ 353	\$ 325	\$ 328	\$ 326	\$ 319	\$ 328	-2.70 %
Berwyn	688	647	596	581	600	735	0.13 %
Bloom	503	474	450	440	456	490	-1.78 %
Bremen	1,689	1,566	1,469	1,425	1,480	1,648	-1.69 %
Calumet	184	176	177	176	179	199	-0.06 %
Cicero	625	586	555	536	554	647	-0.44 %
Elk Grove	3,652	3,128	3,184	3,103	3,516	3,559	-1.53 %
Evanston	2,515	2,202	2,245	2,196	2,670	2,740	0.63 %
Hanover	1,647	1,406	1,426	1,379	1,608	1,615	-1.39 %
Lemont	778	733	715	711	755	914	1.83 %
Lyden	2,655	2,331	2,332	2,409	2,753	2,794	-0.21 %
Lyons	3,680	3,465	3,469	3,373	3,523	4,267	1.66 %
Maine	4,531	3,729	3,778	3,666	4,308	4,383	-1.21 %
New Trier	4,595	4,151	4,201	4,075	4,987	5,097	1.00 %
Niles	4,333	3,810	3,886	3,818	4,461	4,542	-0.15 %
Northfield	5,290	4,722	4,787	4,627	5,531	5,716	0.56 %
Norwood Park	859	726	745	727	839	852	-0.98 %
Oak Park	1,470	1,369	1,383	1,334	1,387	1,656	1.00 %
Orland	3,098	2,921	2,829	2,753	2,890	3,310	— %
Palatine	3,001	2,597	2,628	2,557	2,977	2,987	-0.93 %
Palos	1,459	1,369	1,330	1,290	1,350	1,577	0.27 %
Proviso	2,893	2,723	2,652	2,573	2,679	3,150	0.44 %
Rich	1,138	1,044	988	962	1,007	1,098	-1.81 %
River Forest	529	493	488	470	486	586	0.80 %
Riverside	541	505	489	474	495	575	-0.15 %
Schaumburg	4,460	3,949	3,999	3,892	4,497	4,549	-0.65 %
Stickney	1,049	972	935	914	956	1,102	-0.24 %
Thornton	1,867	1,718	1,662	1,651	1,699	1,770	-2.39 %
Wheeling	4,875	4,185	4,253	4,152	4,894	4,952	-0.61 %
Worth	3,194	3,011	2,847	2,752	2,880	3,341	-0.42 %
City of Chicago							
Hyde Park	3,748	3,576	3,648	3,890	4,077	4,143	-0.89 %
Jefferson	11,060	10,529	10,741	11,311	11,735	11,960	-1.46 %
Lake	6,488	6,227	6,364	6,684	6,970	6,978	-2.09 %
Lake View	8,886	8,416	8,654	9,521	9,782	10,020	-0.29 %
North Chicago	12,745	12,079	12,509	14,197	14,839	15,718	2.53 %
Rogers Park	1,391	1,299	1,318	1,376	1,433	1,449	-2.67 %
South Chicago	12,616	12,050	13,277	14,559	15,297	16,119	2.96 %
West Chicago	8,317	8,188	8,398	9,427	9,883	10,380	1.54 %
Total EAV	133,398	123,400	125,736	130,305	140,752	147,946	0.11 %

Shaded figures indicate assessed values following triennial reassessments.

AWARDS AND ACHIEVEMENTS RECOGNITION

Academy of Interactive and Visual Arts	2014	<i>The Interactive Multimedia Communicator Award for "National Save for Retirement Week Campaign"</i>
American Academy of Environmental Engineers	2012	<i>Excellence in Environmental Engineering Grand Prize for the University Research for Chicago Health, Environmental Exposure, and Recreation Study (CHEERS)</i>
	2010	<i>Excellence in Environmental Engineering Honor Award in Research for the Microbial Risk Assessment for Recreational Use of the Chicago Area Waterways</i>
	1995	<i>Honor Award for the Sidestream Elevated Pool Aeration Stations</i>
	1989	<i>Grand Prize Award for Planning the Sidestream Elevated Pool Aeration Stations</i>
American Council of Engineering Companies of Illinois	2017	<i>Special Achievement Water Resources Award for the Wescott Park Stormwater Storage Facility Project in the Village of Northbrook</i>
	2010	<i>Special Achievement Award for the Calumet Isolation Chamber</i>
American Infrastructure Magazine	2016	<i>PUBBY Award for Water Project of the Year: Thornton Composite Reservoir</i>
American Public Works Association	2018	<i>Chicago Metro Chapter Suburban Branch: Public Works Project of the Year Award for the Niles Flood Relief Project</i>
	2016	<i>Project of the Year (Environment, More than \$75 Million) for the Thornton Composite Reservoir</i>
	2012	<i>Chicago City Branch: Project of the Year in the Environmental \$25 to \$75 Million Category for the design of the Calumet Central Boiler Facility</i>
		<i>Chicago Metro Chapter: Project of the Year in the Environmental \$25 to \$75 Million Category for the design of the Calumet Central Boiler Facility</i>
		<i>Chicago Metro Chapter: Public Works Project Excellence Award for the design of the Calumet Central Boiler Facility</i>
	2003	<i>Environmental Project of the Year, Over \$10 Million Category, for the Thornton Transitional Reservoir</i>
	2000	<i>Reversal of the Chicago River, "Top Ten Public Works Projects of the Century"</i>
		<i>Tunnel and Reservoir Plan Phase I, one of the "Top Ten Chicago Area Public Works Projects of the 20th Century"</i>
		<i>Tunnel and Reservoir Plan Phase I, Member's Choice for "Most Significant Chicago Area Public Works Projects of the 20th Century"</i>
	1995	<i>The American Public Works Association Award for the District's Innovative Energy Audit and Control Program</i>
	1981	<i>Outstanding Public Works Project of the Year for the Tunnel and Reservoir Plan</i>
American Public Works Association, Chicago Metro Chapter	2016	<i>Project of the Year (Environment, More than \$75 Million) for the Thornton Composite Reservoir</i>
		<i>Public Works Project Excellence Award for the Thornton Composite Reservoir</i>
American Council of Engineering Companies - Illinois Chapter	2018	<i>Engineering Excellence Merit Award for the Mayfair Reservoir Expansion</i>
American Rivers, Incorporated	1994	<i>Scientific or Engineering Breakthrough Award for the Calumet River System Sidestream Elevated Pool Aeration Project</i>
American Society of Civil Engineers - Illinois Section	2018	<i>Outstanding Civil Engineering Achievement Award, Over \$100 Million Category, for the McCook Reservoir</i>
	2016	<i>Project of the Year (Higher than \$25 Million) for Thornton Composite Reservoir</i>
		<i>Outstanding Civil Engineering Achievement Award, Under \$10 Million Category, for the Busse Reservoir South Dam Modification Project</i>
		<i>Outstanding Civil Engineering Achievement Award, Over \$25 Million Category, for the Thornton Composite Reservoir</i>
	2003	<i>Outstanding Civil Engineering Achievement of the Year Award, Over \$5 Million Category, for the Thornton Transitional Reservoir</i>
	2000	<i>District's wastewater treatment system was recognized as representing one of civil engineering's "Monuments of the Millennium" of the 20th century</i>
	1998	<i>Outstanding Civil Engineering Achievement Award for the O'Hare-CUP Reservoir Project</i>
	1996	<i>Public Sector Employer Recognition Award</i>
	1994	<i>Outstanding Civil Engineering Achievement received for Sidestream Elevated Pool Aeration Project</i>
	1986	<i>Outstanding Civil Engineering Achievement received for Tunnel and Reservoir Plan</i>

AWARDS AND ACHIEVEMENTS RECOGNITION

American Society of Civil Engineers - Illinois Section (continued)	1986	<i>Outstanding Civil Engineering Achievement of Past 100 Years in Illinois for the Tunnel and Reservoir Plan</i>
	1985	<i>Tunnel and Reservoir Plan Mainstream System, Phase I, the "Outstanding Civil Engineering Achievement of 1985"</i>
	1974	<i>Special Civil Engineering Achievement Award received for the Prairie Plan in Fulton County</i>
American Society of Landscape Architects - Illinois Chapter	2018	<i>Merit Award for Planning and Analysis for the Robbins Park Project</i>
Black Contractors United	1994	<i>Agency of the Year for Affirmative Action Program</i>
Center for Active Design	2014	<i>Excellence Award (Honorable Mention) for the Space to Grow program, a collaboration between the District, Chicago Public School Systems, and the City of Chicago Department of Water Management. Space to Grow was the only submission from Chicago to be recognized. Fellow award recipients span the globe</i>
Chatham Business Association	2015	<i>Partner Award</i>
Chicago Federation of Labor-AFL CIO	2001	<i>Michael J. Bruton Workplace Safety Award</i>
Chicago Public Schools	2011-2010	<i>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</i>
Chicago Southland Convention and Visitor Bureau	2009	<i>Hospitality Award of Merit for outstanding work on behalf of the Calumet- Sag Trail</i>
Chicago Wilderness and United States Environmental Protection Agency	2007	<i>Conservation and Native Landscaping Award for Native Prairie Restorations at the Lemont and North Side Water Reclamation Plants</i>
City of Chicago	2000	<i>Best Practices in expanding employment opportunities for people with disabilities</i>
Conservation Foundation & DuPage River Coalition	2006-2005	<i>Clean Water Award for Hanover Park Water Reclamation Plant</i>
	2002	<i>DuPage River Clean Water Award</i>
Construction Industry Service Corporation (CISCO)	2015	<i>Public Body of the Year</i>
		<i>Project of the Year - Infrastructure category for constructing the Wet Weather Treatment Facility and Reservoir at the Lemont Water Reclamation Plant</i>
Engineering News Record	1999	<i>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</i>
Federation of Women Contractors	2016	<i>Outstanding Advocate Award</i>
	2012	<i>Outstanding Program of the Year Award for the MWRD Affirmative Action Program</i>
	2007	<i>Advocacy Award for Affirmative Action Program</i>
Friends of the Chicago River	2017	<i>Chicago River Blue Awards, Green Ribbon Award for the Wescott Park Stormwater Storage Facility Project in the Village of Northbrook</i>
	2016	<i>Chicago River Blue Awards, Green Ribbon Award for Disinfection at the Calumet Water Reclamation Plant and O'Brien Water Reclamation Plant and Thornton Reservoir</i>
	2014	<i>Chicago River Blue Awards, Silver Ribbon Award for Space to Grow: Greening Chicago Schoolyards</i>
Government Finance Officers Association of the United States and Canada	2018-1985	<i>Budget document recognized for Distinguished Budget Presentation</i>
	2016	<i>Budget document received Special Performance Measures recognition</i>
	2015	<i>Budget document received outstanding in the overall category of Communications Device</i>
	2017-2007	<i>Certificate of Achievement for Excellence in Financial Reporting for the MWRD Retiree Health Care Trust - Comprehensive Annual Financial Report for Fiscal Years 2007 through 2017</i>
	2017-1975	<i>Certificate of Achievement for Excellence in Financial Reporting - Comprehensive Annual Financial Report for Fiscal Years 1975 through 2017</i>
	2016-1993	<i>Certificate of Achievement for Excellence in Financial Reporting for the MWRD Retirement Fund - Comprehensive Annual Financial Report for Fiscal Years 1993 through 2016</i>
	1999, 1996-1993	<i>Outstanding Achievement in Popular Annual Financial Reporting</i>

AWARDS AND ACHIEVEMENTS RECOGNITION

Government Finance Officers Association of the United States and Canada (continued)	1998-1988	<i>Budget document recognized as "Especially Notable" or "Outstanding" in various categories</i>
Illinois Association for Floodplain and Stormwater Management	2017	<i>Flood Reduction Project Award for Floodway Buyouts in the Village of Glenview</i> <i>Innovation Project Award for Master Plan Pilot Study: Using Green Infrastructure to Solve Urban Flooding</i>
	2016	<i>Flood Reduction Project Award for Large Project for the Thornton Composite Reservoir</i>
	2014	<i>Sustainability Award for the Space to Grow program for the redevelopment of four school properties using a variety of Best Management Practices for creating green space</i>
Illinois Department of Natural Resources	2017	<i>Illinois Mined Land Reclamation Award in the non-coal category for the McCook Reservoir</i>
	2016	<i>Illinois Mined Land Reclamation Award in the non-coal category for the Thornton Composite Reservoir</i>
Illinois Engineering Council	2006	<i>Outstanding Engineering Achievement Award for Tunnel and Reservoir Plan Phase I</i>
Illinois Environmental Protection Agency	1994, 1983, 1981	<i>Certificate of Excellence Award for Wastewater Safety for James C. Kirie Water Reclamation Plant</i>
	1993-1992	<i>Certificate of Excellence Award for Safety received by various treatment plants</i>
	1992-1987	<i>Certificate of Excellence Award for Wastewater Safety received by various treatment plants</i>
	1991-1988	<i>Letters of Commendation of Excellence on Maintenance, Operation, and Compliance for various treatment plants</i>
	1988	<i>Hanover Park Treatment Plant named Plant of the Year</i>
Illinois Safety Council and Greater Chicago Safety Council	2007	<i>Safety and Health Outstanding Safety Performance Award for North Side and Calumet Water Reclamation Plants</i> <i>Fleet and Transportation Outstanding Safety Performance Award - District- wide</i>
	2006	<i>Safety and Health Outstanding Safety Performance Award for Calumet and Stickney Water Reclamation Plants</i>
	2005	<i>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</i> <i>Health and Safety Award for North Side Water Reclamation Plant</i>
	2004, 2001	<i>Transportation Award for Outstanding Safety Performance - District-wide</i>
	2004	<i>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</i> <i>Outstanding Safety Performance Award</i>
	2003	<i>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</i>
	2003-2002 1996-1994	<i>Safety and Health Award for Outstanding Safety Performance</i>
	2002, 2000	<i>Outstanding Safety Performance in maintaining a safe and healthy working environment for its employees</i>
Illinois Society of Professional Engineers	2010	<i>Chicagoland Excellence in Engineering Project Award, Mechanical Division, for the Calumet Central Boiler Facility</i>
	1986	<i>MWRDGC System deemed one of the "Ten Outstanding Engineering Achievements in Illinois in the Last 100 Years"</i>
	1985	<i>Outstanding Engineering Accomplishment Award for the Tunnel and Reservoir Plan - Phase I System</i>
	1984	<i>Outstanding Engineering Accomplishment Award for Upper Salt Creek Watershed Floodwater Management Plan</i>

AWARDS AND ACHIEVEMENTS RECOGNITION

Illinois Water Environment Association	2017	<i>Mariyana Spyropoulos, President, is the recipient of the 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</i>
	2016	<i>Best Presentation Award, "Biosolids Beneficial Reuse Programs: SWOT and PEST Evaluations to Ensure Sustainability"</i>
	2013	<i>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</i>
	2010	<i>Best Technical Presentation Award: Protozoa as Indicators of Activated Sludge Treatment System Conditions</i>
	2008	<i>Best Technical Presentation Award: Concerns about Endocrine Disrupting Chemicals in Land Applied Biosolids - Media Hype or Reality?</i>
International Personnel Management Association	1995	<i>Award for Excellence - Best personnel department in a medium-sized agency</i>
Interstate Mining Compact Commission	2017	<i>Kenes C. Bowling National Mine Reclamation Award for the McCook Reservoir</i>
Lake Michigan Water Analysts	1995	<i>Award of Excellence</i>
Metropolitan Chicago Masonry Council	1981	<i>"Excellence in Masonry '80" for James C. Kirie Water Reclamation Plant Masonry Design</i>
Metropolitan Planning Council	2018	<i>Burnham Award for Excellence in Planning for the Space to Grow Partnership</i>
National Association of Clean Water Agencies (NACWA), formerly known as Association of Metropolitan Sewerage Agencies	2017	<i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Platinum Award for 26 consecutive years of full compliance for Calumet Water Reclamation Plant; Platinum Award for 21 consecutive years of full compliance for Lemont Water Reclamation Plant; Platinum Award for 13 consecutive years of full compliance for James C. Kirie Water Reclamation Plant; Platinum Award for 12 consecutive years of full compliance for Terrence J. O'Brien Water Reclamation Plant; and Platinum Award for 10 consecutive years of full compliance for Hanover Park Water Reclamation Plant</i>
		<i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Gold Award for John E. Egan Water Reclamation Plant</i>
		<i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Silver Award for Stickney Water Reclamation Plant</i>
		<i>Utility of the Future Today Recognition</i>
	2016	<i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Platinum Award for 25 consecutive years of full compliance for Calumet Water Reclamation Plant; Platinum Award for 20 consecutive years of full compliance for Lemont Water Reclamation Plant; Platinum Award for 12 consecutive years of full compliance for James C. Kirie Water Reclamation Plant; Platinum Award for 11 consecutive years of full compliance for Terrence J. O'Brien Water Reclamation Plant; and Platinum Award for nine consecutive years of full compliance for Hanover Park Water Reclamation Plant</i>
		<i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Gold Award for John E. Egan Water Reclamation Plant</i>
		<i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Silver Award for Stickney Water Reclamation Plant</i>
	2015	<i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Platinum Award for 24 consecutive years of full compliance for Calumet Water Reclamation Plant; Platinum Award for 19 consecutive years of full compliance for Lemont Water Reclamation Plant; Platinum Award for 11 consecutive years of full compliance for James C. Kirie Water Reclamation Plant; Platinum Award for ten consecutive years of full compliance for Terrence J. O'Brien Water Reclamation Plant; and Platinum Award for eight consecutive years of full compliance for Hanover Park Water Reclamation Plant</i>
		<i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Gold Award for John E. Egan and Stickney Water Reclamation Plants</i>
	2014	<i>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</i>

AWARDS AND ACHIEVEMENTS RECOGNITION

National Association of Clean Water Agencies (NACWA), formerly known as Association of Metropolitan Sewerage Agencies (continued)	2014	<p><i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Platinum Award for 23 consecutive years of full compliance for Calumet Water Reclamation Plant; Platinum Award for 18 consecutive years of full compliance for Lemont Water Reclamation Plant; Platinum Award for ten consecutive years of full compliance for James C. Kirie Water Reclamation Plant; Platinum Award for nine consecutive years of full compliance for Terrence J. O'Brien Water Reclamation Plant; and Platinum Award for seven consecutive years of full compliance for Hanover Park Water Reclamation Plant</i></p> <p><i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Gold Award for John E. Egan and Stickney Water Reclamation Plants</i></p>
	2013	<p><i>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</i></p> <p><i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Silver Award for John E. Egan and Stickney Water Reclamation Plants</i></p> <p><i>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</i></p>
	2012	<p><i>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</i></p> <p><i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Silver Award for John E. Egan Water Reclamation Plant</i></p>
	2011	<p><i>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 Reclamation Plant</i></p> <p><i>NACWA Award for Full Compliance with National Pollutant Discharge Elimination System, Gold Award for Hanover Park Water Reclamation Plant</i></p> <p><i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Silver Award for John E. Egan Water Reclamation Plant</i></p>
	2010	<p><i>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 Side Water Reclamation Plant</i></p> <p><i>NACWA Award for Full Compliance with National Pollutant Discharge Elimination System, Gold Award for Hanover Park Water Reclamation Plant</i></p>
	2009	<p><i>NACWA Award for Full Compliance with National Pollutant Discharge Elimination System, Gold Award for Hanover Park and North Side Water Reclamation Plants</i></p> <p><i>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</i></p>
	2008	<p><i>National Environmental Achievement Award in Public Information and Education - Education Program category for "Mission Possible: Educating People to Promote Beneficial Use of Biosolids"</i></p> <p><i>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</i></p>

AWARDS AND ACHIEVEMENTS RECOGNITION

National Association of Clean Water Agencies (NACWA), formerly known as Association of Metropolitan Sewerage Agencies (continued)	2008	<i>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</i>
	2007	<i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Silver Award for Hanover Park Water Reclamation Plant</i> <i>NACWA Award for Full Compliance with National Pollutant Discharge Elimination System, Platinum Award for Stickney, Calumet, and Lemont Water Reclamation Plants</i> <i>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</i>
	2006	<i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Platinum Award for Stickney, Calumet, and Lemont Water Reclamation Plants</i> <i>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</i>
	2005-2003	<i>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</i>
	2005	<i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Silver Award for North Side Water Reclamation Plant</i> <i>NACWA Award for Full Compliance with National Pollutant Discharge Elimination System, Gold Award for Stickney, Calumet, James C. Kirie, John E. Egan, Hanover Park, and Lemont Water Reclamation Plants</i>
	2004	<i>NACWA Award for Full Compliance with National Pollutant Discharge Elimination System, Gold Award for Stickney, Calumet, North Side, and Lemont Water Reclamation Plants</i> <i>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</i>
	2003	<i>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</i>
	2002	<i>Award for Full Compliance with National Pollutant Discharge Elimination System, Platinum Award for Hanover Park, North Side, and Calumet Water Reclamation Plants</i> <i>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</i>
	2001	<i>Research and Technology Award on "Biosolids as a Topsoil Substitute for the Germination and Growth of Turf, Forage, Prairie Grasses and Wild Flower Plants"</i> <i>National Environmental Achievement Award for Excellence in Research and Technology</i> <i>Award for Full Compliance with National Pollutant Discharge Elimination System, Platinum Award for Stickney and Lemont Water Reclamation Plants</i> <i>Award for Compliance with National Pollutant Discharge Elimination System, Silver Award for John E. Egan Water Reclamation Plant</i> <i>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</i>
	2000	<i>Award for Compliance with National Pollutant Discharge Elimination System, Silver Award for John E. Egan and James C. Kirie Water Reclamation Plants</i> <i>Award for Full Compliance with National Pollutant Discharge System Permit Standards, Gold Award for Hanover Park, North Side, Stickney, Calumet, and Lemont Water Reclamation Plants</i>
	1999	<i>Gold Award for 100% Compliance with National Pollutant Discharge System Permit Standards - Stickney, Calumet, North Side, Hanover Park, John E. Egan, James C. Kirie, and Lemont Water Reclamation Plants</i> <i>National Environmental Achievement Award - Research and Technology for Optimization of Conventional Low Technology Sludge Process to Produce Class A Sludge</i>

AWARDS AND ACHIEVEMENTS RECOGNITION

National Association of Clean Water Agencies (NACWA), formerly known as Association of Metropolitan Sewerage Agencies (continued)	1998	<i>Gold Award for 100% Compliance with National Pollutant Discharge System Permit Standards - Stickney, Calumet, North Side, Hanover Park, James C. Kirie, and Lemont Water Reclamation Plants</i>
	1997	<i>National Achievement Outstanding Operations Award to North Side Water Reclamation Plants for its Instrumentation Project</i> <i>Platinum Award for 100% Compliance for more than five years with National Pollutant Discharge System Permit Standards - Calumet and North Side Water Reclamation Plants</i> <i>Gold Award for 100% Compliance with National Pollutant Discharge System Permit Standards - James C. Kirie, Lemont, and Stickney Water Reclamation Plants</i> <i>Silver Award for 99.9% Compliance with National Pollutant Discharge System Permit Standards - John E. Egan and Hanover Park Water Reclamation Plants</i>
	1993	<i>Outstanding Operations Award for Sidestream Pool Aeration Stations</i>
	2016	<i>Green Infrastructure Award, First Place in the Large Agency Category for the Space to Grow Program</i>
National Association of Flood and Stormwater Management Agencies (NAFSMA)		
National Association of Government Defined Contribution Administrators	2013, 2009	<i>Leadership Recognition Award of Distinction for National Save for Retirement Week Campaign</i>
National Association of State Land Reclamationists (NASLR)	2017	<i>Best Innovation Award in Mining Category for the McCook Reservoir Stage 2</i>
National Biosolids Partnership (Water Environment Federation and National Association of Clean Water Agencies)	2018	<i>Ten-Year Platinum Award for the Dedication to Environmentally Sound Biosolids Management Practices</i>
	2008	<i>Certificate of Achievement for meeting all the requirements for admittance and certification to the National Biosolids Partnership Environmental Management System Program</i>
National Institute of Governmental Purchasing	2018-2003	<i>Outstanding Agency Accreditation Achievement Award</i>
National Physical Plan Alliance	2014	<i>Champion Award for the Space to Grow program for the collaborative efforts of the District, Chicago Public Schools, and the Department of Water Management in transforming Chicago's underused and outdated schoolyards into vibrant outdoor spaces that benefit students, communities and the environment</i>
National Purchasing Institute	2006-2005	<i>Achievement of Excellence in Procurement</i>
National Society of Professional Engineers	1985	<i>Outstanding Engineering Accomplishment Award for the Tunnel and Reservoir Plan - Phase I System</i>
	1973	<i>Outstanding Engineering Achievements in the United States for the Brookfield LaGrange Rock Tunnel</i>
Risk & Insurance Magazine	2016	<i>Honorable Mention in the national Theodore Roosevelt Workers' Competition and Disability Management (TEDDY) Award competition for excellence in safety and workers' compensation risk management</i>
Rotary Club of Naperville	2016	<i>Paul Harris Award</i>
Storm Water Solutions Magazine	2017	<i>Top 10 Stormwater Project for Space to Grow</i>
	2016	<i>Top 10 Stormwater Project for the Blue Island Green Infrastructure Project</i>
Structural Engineers Association of Illinois	1985	<i>Honor Award for the Structural-Geotechnical Design of the Tunnel and Reservoir Plan Mainstream Pumping Station</i>
The Consulting Engineers Council of Illinois	1985	<i>Engineering Excellence Honor Award for the Tunnel and Reservoir Plan Mainstream System Phase I</i>
United States Department of Defense	2003	<i>Certificate of Appreciation for Outstanding Achievement through Value Engineering</i>
United States Environmental Protection Agency	2017	<i>Honorable Mention of the Phosphorus Recovery System for Excellence and Innovation within the Clean Water State Revolving Fund Program</i>
	2008	<i>Exemplary Biosolids Management Award - First Place in the Public Acceptance Category</i>
	2004	<i>National Second Place Clean Water Act Recognition Award, James C. Kirie Water Reclamation Plant, for Outstanding Operations and Maintenance, Large Advanced Plant</i>
	2003	<i>Certificate of Recognition as a Clean Water Partner for the 21st Century</i>
	1998	<i>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"</i>

AWARDS AND ACHIEVEMENTS RECOGNITION

United States Environmental Protection Agency (continued)	1996	<i>Award of Excellence for First Place in Category Five in the National Pretreatment Program</i>
	1995	<i>National Pretreatment Award recognizing excellence in the administration of the District's Pretreatment Program</i>
	1994	<i>National First Place Award recognizing the District's Outstanding Combined Sewer Overflow Control Program</i>
		<i>Award for Excellence in Maintenance and Operations Category in Region V as the Best Large Advanced Plant - James C. Kirie Water Reclamation Plant</i>
	1993	<i>Second Place for Outstanding Treatment Facility by Stickney and John E. Egan Water Reclamation Plants in the Area of Maintenance and Operations</i>
	1992	<i>North Side Treatment Plant named "Best in the Midwest" for Municipal Pollution Control</i>
		<i>Affirmative Action Program named "Best in the Country"</i>
United States Green Building Council	1991	<i>Special Award for Sustained Outstanding Long-Term Contribution to the Beneficial Use of Sludge at the Prairie Plan, Fulton County</i>
		<i>Award for the Affirmative Action Program</i>
	2015	<i>Best of Green Schools Award for Collaboration, Space to Grow Partnership</i>
Water and Wastes Digest	2014	<i>Emerald Award for the Space to Grow Program in the Chapter Mission category recognizes the impact collaborations can have in building better, brighter, and healthier spaces to live, learn, and work</i>
	2016	<i>Thornton Composite Reservoir, one of the "Top Projects for 2016 Award"</i>
Water Environment Federation	2018	<i>Project Excellence Award for the McCook Reservoir</i>
	2017	<i>Project Excellence Award for the Nutrient Recovery Facility at the Stickney Water Reclamation Plan</i>
		<i>Water Quality Improvement Award for the Calumet Tunnel and Reservoir Plan</i>
		<i>Schroepfer Innovative Facility Design Medal for the Calumet Tunnel and Reservoir Plan</i>
	1999-1989	<i>Award for Outstanding Achievement in Water Quality Improvement</i>
Water Environment Research Foundation	1992	<i>Recognition for the Solids Dewatering Prototype at the Stickney Water Reclamation Plant</i>
	2013	<i>Award for Excellence in Innovation</i>
The Waterfront Center	2008	<i>Excellence on the Waterfront Award for Sidestream Elevated Pool Aeration Project</i>

LEADING PARTNERSHIPS

The District recognizes the importance of involvement in the world around us and encourages its employees to become actively involved in organizations, particularly in the water industry. We firmly believe that participation in professional organizations will enhance our awareness of current issues in our industry and help us make informed decisions. We also encourage our employees to take leadership roles in these organizations to further uphold the District as one of the top leaders in the water industry.

PROFESSIONAL ORGANIZATION	MEMBERSHIP ROLE	EMPLOYEE NAME	JOB TITLE
American Academy of Environmental Engineers and Scientists	Co-Chair, Environmental Microbiology group of the Environmental Life Sciences Committee	Rijal, Dr. Geeta K.	Principal Environmental Scientist
	Certification by Eminence Committee		
American Contract Compliance Association	Board of Directors, Member	Berry, Regina D.	Diversity Administrator
American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America	Chair, Soil and Environmental Quality Division Associate Editor, Agronomy Journal	Kumar, Dr. Kuldip	Senior Environmental Soil Scientist
	Student Contest Committee	Oladeji, Dr. Olawale	Environmental Soil Scientist
American Society of Civil Engineers, Illinois Section	Member, Illinois Infrastructure Report Card Wastewater Subcommittee	Goldrich, Michael	Senior Environmental Specialist
Asian Carp Regional Coordinating Committee	Technical and Policy Workgroup Member	Minarik, Tom	Senior Aquatic Biologist
Calumet Bi-State Collaborative	Communications Committee	Fore, Allison	Public & Intergovernmental Affairs Officer
Central States Water Environment Association	Vice Chair, Global Water Stewardship Committee	Durkin, Maureen	Managing Civil Engineer
Chicago Area Waterway System and Chloride Reduction Initiative	Data Acquisitions Committee and Water Quality Committee	Minarik, Tom	Senior Aquatic Biologist
	Chair, Water Quality Committee	Wasik, Jennifer	Principal Environmental Scientist
Chicago Region Trees Initiative	Work Group	Fore, Allison	Public & Intergovernmental Affairs Officer
Civil Engineer Professional Advisory Council	Member	Podczerwinski, Edward	Director of Monitoring & Research
Decalogue Society	Anti-Semitism Committee	Saindon, Pamela	Senior Attorney
Dupage River Salt Creek Workgroup, Nutrient Trading Framework Projects Committee	Member	Minarik, Thomas	Senior Aquatic Biologist
Emerson Process Management's Ovation Group	Executive Board Member on the Ovation User's Group	Majka, Jeff	Senior Electrical Engineer
Environetropica	Associate Editor	Tian, Dr. Guanglong	Principal Environmental Scientist
Human Resources Round Table for the City of Chicago Sister Agencies	Member	Kosowski, Thaddeus J.	Assistant Director of Human Resources
Illinois Association of Public Procurement Officials	Member	LoCascio, Darlene A.	Director of Procurement & Materials Management
Illinois Association of Wastewater Agencies	Committee Chair, Subcommittee on Biosolids	Cox, Dr. Albert	Environmental Monitoring & Research Manager
	Member, Legislative Subcommittee and the Nutrients Workgroup	Perkovich, Brian	Assistant Director of Maintenance & Operations
	Nutrients and Total Maximum Daily Loads Committee	Szyszk, Theodore	Senior Civil Engineer

PROFESSIONAL ORGANIZATION	MEMBERSHIP ROLE	EMPLOYEE NAME	JOB TITLE
Illinois Association of Wastewater Agencies (continued)	Committee Chair, Subcommittee on the Environmental Utility	Wasik, Jennifer	Principal Environmental Specialist
	Committee Member, Subcommittee on Water Quality; Subcommittee on Nutrients and Total Maximum Daily Loads; Subcommittee on Tiered Aquatic Life Use Development		
	Member at Large, Executive Committee		
Illinois Environmental Protection Agency	Nutrient Reduction Strategy, Performance and Benchmarks Committee	Cox, Dr. Albert	Environmental Monitoring & Research Manager
	Nutrient Reduction Strategy, Policy Working Group		
	Bacteria Stakeholders Workgroup	Rijal, Dr. Geeta K.	Principal Environmental Scientist
	Ammonia Workgroup Nutrient Reduction Strategy, Nutrient Monitoring Council	Vick, Justin	Associate Aquatic Biologist
Illinois Public Employer Labor Relations Association	Bacteria Stakeholders Workgroup		
	Board of Directors, Member and Vice-Chair of Training Committee	Bonner, Roxanne J.	Human Resources Manager
	Membership and Marketing Committees	Kosowski, Thaddeus J.	Assistant Director of Human Resources
Illinois State Bar Association's Section on Environmental Law	Secretary of the Environmental Section Counsel	Mihalopoulos, Jorge	Principal Attorney
Illinois Water Environment Association	Committee Chair, Sustainability Committee	Brose, Dr. Dominic	Associate Environmental Soil Scientist
	Member, Biosolids Committee		
	Lab Committee	Coolidge, Donna	Assistant Director of Monitoring & Research
	Biosolids and Resources Recovery Committee	Cox, Dr. Albert	Environmental Monitoring & Research Manager
	Leaders Innovation Forum for Technology Committee	Cummings, Joseph	Managing Engineer
	Chairman of the Nutrient Removal and Recovery Committee	Garelli, Brett	Deputy Director of Maintenance & Operations
	Vice Chair of the Electrical Power, Energy, and Controls Committee	Gottardo, Glenn	Managing Electrical Engineer
	Plant Operations Committee	Kohlhaas, Lynn	Senior Civil Engineer
	Removal and Recovery Committee	Kozak, Dr. Joseph A.	Principal Environment Scientist
	Biosolids and Resources Recovery Committee	Kumar, Dr. Kuldip	Senior Environmental Soil Scientist
	Chairperson of the Students and Young Professionals Committee	Matias, Meagan	Senior Civil Engineer
	Biosolids and Resources Recovery Committee	McGregor, Matthew	Principal Engineer
	Biosolids and Resources Recovery Committee	Oladeji, Dr. Olawale	Environmental Soil Scientist
	Vice-Chair of the Lab Committee	Poole, Tiffany	Senior Environmental Chemist
	Scholarship and Charitable Giving Committee	Rijal, Dr. Geeta K.	Principal Environmental Scientist
	Water Environment Federation Delegate	Rose, Rebecca	Supervising Environmental Chemist
	Industrial Pretreatment Committee	Scapardine, Barbara	Environmental Specialist

PROFESSIONAL ORGANIZATION	MEMBERSHIP ROLE	EMPLOYEE NAME	JOB TITLE
Illinois Water Environment Association (continued)	Treasurer	Storino, Louis	Principal Civil Engineer
	Leaders Innovation Forum for Technology Committee		
	Scholarship and Charitable Giving Committee		
	Awards Committee		
	Scholarship and Charitable Giving Committee	Wawczak, Brian	Senior Civil Engineer
	Chairman of the Membership Committee	Wu, Fred	Senior Civil Engineer
	Scholarship and Charitable Giving Committee		
Industrial Water, Waste, and Sewage Group	Students and Young Professionals Committee		
	Treasurer	Scapardine, Barbara	Environmental Specialist
	Vice Chair of the Executive Committee	Nator, Mohammed	Senior Electrical Engineer
	Agricultural Soil CO2 Expert Committee	Tian, Dr. Guanglong	Principal Environmental Scientist
	Editorial Board	Oskouie, Dr. Ali	Senior Environmental Research Scientist
	Founding and Organizing Member	Goldberg, Lisa A.	Head Assistant Attorney
	Founding and Organizing Member	Saindon, Pamela	Senior Attorney
Lower Des Plaines Watershed Group	Member at Large, Executive Committee	Wasik, Jennifer	Principal Environmental Scientist
	Treasurer	Coolidge, Donna	Assistant Director of Monitoring & Research
	Secretary	Miller, Sarah	Senior Environmental Chemist
	Steering Committee	Poshyvanyk, Paul	Senior Environmental Chemist
	Steering Committee	Rose, Rebecca	Supervising Environmental Chemist
	President	Stefanich, Tricia	Supervising Environmental Chemist
	Utility and Resource Management Committee	Carmody, Steve	Engineer of Treatment Plant Operations I
The National Association of Clean Water Agencies	Communications and Public Affairs Committee	Fore, Allison	Public & Intergovernmental Affairs Officer
	Climate and Resiliency Committee	Grabowy, Jonathan	Managing Civil Engineer
	Pretreatment Program Committee	Joseph, Mathew	Assistant Director of Monitoring & Research
	Biosolids Management Committee	McGregor, Matthew	Principal Engineer
	Legal Affairs Committee	Mihalopoulos, Jorge	Principal Attorney
	Pathogen Workgroup	Rijal, Dr. Geeta K.	Principal Environmental Scientist
	Facility and Collection System Committee	Storino, Louis	Principal Civil Engineer
	Water Quality Committee	Vick, Justin	Associate Aquatic Biologist
	Emerging Contaminants Committee		
	Water Quality Committee	Wasik, Jennifer	Principal Environmental Scientist
	Pretreatment Program Committee	Yarnik, Greg	Supervising Environmental Specialist

PROFESSIONAL ORGANIZATION	MEMBERSHIP ROLE	EMPLOYEE NAME	JOB TITLE
National Council of Examiners for Engineering and Surveying	Structural Committee	Geraminejad, Babak	Associate Structural Engineer
The National Environmental Laboratory Accreditation Conference	Contributing Member	Grunwald, Pawel	Environmental Chemist
National Public Employee Labor Relations Association	Annual Training Conference Committee	Bonner, Roxanne J.	Human Resources Manager
The National Science Foundation	Ebola Advisory Committee	Rijal, Dr. Geeta K.	Principal Environmental Scientist
	Industrial Advisory Board of Water Equipment and Policy Committee	Zhang, Dr. Heng	Assistant Director of Monitoring and Research
Partnership for River Restoration in the Upper Midwest	Technical Committee	Vick, Justin	Associate Aquatic Biologist
Society for Ecological Restoration	Global Organization and the Midwest and Great Lakes Chapter	Vick, Justin	Associate Aquatic Biologist
Suburban Cook County Local Emergency Planning Committee	Chairperson of the Chemical Liaison Committee	Wienberg, Kristine	Environmental Specialist
United States Department of Agriculture	W-3170 Workgroup	Tian, Dr. Guanglong	Principal Environmental Scientist
US Water Alliance	Value of Water Campaign Communications Committee	Fore, Allison	Public & Intergovernmental Affairs Officer
Water Environment Federation	Collection Systems Committee	Durkin, Maureen	Managing Civil Engineer
	Collection Systems Committee	Fitzpatrick, Kevin	Managing Civil Engineer
	Communications Committee	Fore, Allison	Public & Intergovernmental Affairs Officer
	Air Quality and Odor Committee	Grabowy, Jonathan	Managing Civil Engineer
	Municipal Resource Recovery Design Committee	Kozak, Dr. Joseph	Principal Environmental Scientist
	President	Kunetz, Thomas	Assistant Director of Monitoring & Research
	Residuals and Biosolids Committee	Laban, Ahmad	Managing Engineer
	Residuals and Biosolids Committee	McGregor, Matthew	Principal Engineer
	Utility Management Committee	Patel, Sanjay	Engineer of Treatment Plant Operations I
	Stormwater Institute Advisory Committee	Sheriff, William	Assistant Director of Engineering
	Collection Systems Committee and the Students and Young Professionals Committee	Storino, Louis	Principal Civil Engineer
	Water Environment Federation's Annual Technical Exhibition and Conference Advisory Committee		
	Stormwater Committee	Watson, John	Associate Civil Engineer
	Membership Committee	Wu, Fred	Senior Civil Engineer
	Municipal Resource Recovery Design Committee - Standards and Metrics for Resource Recovery Facilities Task Group	Yang, Fenghua	Senior Environmental Research Scientist
	Intelligent Water Systems Focus Group		
Water Research Foundation (formerly Water Environment & Reuse Foundation)	Leaders Innovation Forum for Technology Committee	Fitzpatrick, Kevin	Managing Civil Engineer
	Advancing the Oxygenic Photogranule Process for Energy Positive Wastewater Treatment Subcommittee	Kozak, Dr. Joseph A.	Principal Environmental Scientist
	Stabilization of Main Plant Nitrification/Denitrification Performance Subcommittee		

PROFESSIONAL ORGANIZATION	MEMBERSHIP ROLE	EMPLOYEE NAME	JOB TITLE
Water Research Foundation (formerly Water Environment & Reuse Foundation) (continued)	Trace Organics in Biosolids Research Challenge Committee	Kumar, Dr. Kuldip	Senior Environmental Soil Scientist
	Steering Committee, Leaders Innovation Forum for Technology	Kunetz, Thomas	Assistant Director of Monitoring & Research
	Design and Implementation of Peracetic Acid for Municipal Water and Wastewater Related Processes Subcommittee	Patel, Kamlesh	Senior Environmental Research Scientist
	Sustainable Struvite Control Digester Gas Steering Committee		
	Unintended Consequences of Resource Recovery on Overall Plant Performance: Solving the Impacts on Dewaterability Properties Committee		
	Project Steering Committee and Ebola Advisory Committee	Rijal, Dr. Geeta K.	Principal Environmental Scientist
	Leaders Innovation Forum for Technology Committee	Storino, Louis	Principal Civil Engineer
	Understanding the Impacts of Low-Energy and Low-Carbon Nitrogen Removal Technologies of Bio-P and Nutrient Recovery Processes Project Committee	Yang, Fenghua	Senior Environmental Research Scientist
	Issue Area Team on the Nutrient Challenge Program Committee	Zhang, Dr. Heng	Assistant Director of Monitoring and Research
	Design and Implementation of Peracetic Acid for Municipal Water and Wastewater Related Processes Subcommittee	Patel, Kamlesh	Senior Environmental Research Scientist
Water Environment & Reuse Foundation Leaders Innovation Forum for Technology	Vice Chairman of the Workgroup on Shortcut Nitrogen Removal	Zhang, Dr. Heng	Assistant Director of Monitoring and Research
	Workgroup on Digestion Enhancements Committee		
	Workgroup on Energy from Wastewater Committee		
The World Academy of Sciences	Advisor	Tian, Dr. Guanglong	Principal Environmental Scientist

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 & 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 annually 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 & 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 timeframe to which the budget applies. The period for the District is 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 (GASB) 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.

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.

FINANCIAL GLOSSARY (continued)

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 annual 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 Postemployment 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 (e.g., 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

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

FINANCIAL GLOSSARY (continued)

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 & 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).

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.

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

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, e.g., 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.

Exceptional Quality (EQ): Exceptional Quality refers to biosolids or composted biosolids that meet the Class A pathogen standard, lowest metal concentration limits, and vector attraction reduction requirement specified in 40 CFR Part 503. Biosolids meeting the EQ criteria can be beneficially used without any restrictions.

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, recordkeeping, 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.

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.

GLOSSARY OF TECHNICAL TERMS (continued)

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.

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.

Set Point: The desired or target value for an essential variable of a system.

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. The precipitate or product 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 such as soil and rock that are 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) improves water quality by capturing combined sewer overflows (CSOs), storing this polluted wastewater, and then pumping it to 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.

ACRONYMS

ALD	Analytical Laboratories Division	GASB	Government Accounting Standards Board
AMS	Asset Management Section	GFOA	Government Finance Officers Association
ASCE	American Society of Civil Engineers	GIP	Green Infrastructure Program
BMP	Best Management Practices	GIS	Geographic Information System
BOD	Biochemical Oxygen Demand	GPS	Global Positioning System
CAFR	Comprehensive Annual Financial Report	HASMA	Harlem Avenue Solids Management Area
CALSMA	Calumet Solids Management Area	HPWRP	Hanover Park Water Reclamation Plant
CAWS	Chicago Area Waterway System	HSOM	High Strength Organic Materials
CBOD	Carbonaceous Biochemical Oxygen Demand	HVAC	Heating, Ventilation, and Air Conditioning
CIBF	Capital Improvements Bond Fund	I/I	Infiltration/Inflow
CIP	Capital Improvement Program	IAS	Instream Aeration Station
CPI	Consumer Price Index	IEPA	Illinois Environmental Protection Agency
CPR	Cardio-Pulmonary Resuscitation	IGA	Intergovernmental Agreement
CSA	Calumet Service Area	iPACS	The internet-based Publicly owned treatment works Administration and Compliance System
CSO	Combined Sewer Overflow	IRS	Internal Revenue Service
CUP	Chicago Underflow Plan	IT	Information Technology
CWRP	Calumet Water Reclamation Plant	ITD	Information Technology Department
CY	Cubic Yards	IU	Industrial Users
DCS	Distributed Control System	IWD	Industrial Waste Division
DO	Dissolved Oxygen	kWh	kilowatt-hour
DT	Dry Tons	KWRP	Kirie Water Reclamation Plant
DWP	Detailed Watershed Plan	LASMA	Lawndale Avenue Solids Management Area
EAP	Employee Assistance Program	LF	Linear Feet
EAV	Equalized Assessed Valuation	LIMS	Laboratory Information Management System
EBPR	Enhanced Biological Phosphorus Removal	LPH	Lockport Powerhouse
EEO	Equal Employment Opportunity	LSSS	Local Sewer Systems Section
EQ	Exceptional Quality	LWRP	Lemont Water Reclamation Plant
EWRP	Egan Water Reclamation Plant	mg/L	milligrams per liter
F&D	Furnish and Deliver	M&O	Maintenance & Operations
FD&I	Furnish, Deliver, and Install	M&R	Monitoring & Research
FESOP	Federally Enforceable State Operating Permit	MBE	Minority-owned Business Enterprise
FMLA	Family Medical Leave Act	MGD	Millions of Gallons per Day
FOIA	Freedom of Information Act		
FTE	Full-Time Equivalent		
GAAP	Generally Accepted Accounting Principles		

ACRONYMS (continued)

MMS	Maintenance Management System	RAS	Return Activated Sludge
MOB	Main Office Building - 100 E. Erie St., Chicago, Illinois	RFP	Request for Proposal
MOBA	Main Office Building McMillan Pavilion - 111 E. Erie St., Chicago, Illinois	RMIS	Risk Management Information System
MOBC	Main Office Building Complex - MOB & MOBA	SAN	Storage Area Network
MOP	Manual of Procedures	SAP	SAP is a German computer software firm
MSC	Material Service Corporation	SBE	Small Business Enterprise
MSPS	Mainstream Pumping Station	SBP	Strategic Business Plan
MWRD	Metropolitan Water Reclamation District	SEPA	Sidestream Elevated Pool Aeration stations
NAA	Net Assets Appropriable	SIU	Significant Industrial User
NACWA	National Association of Clean Water Agencies	SPO	Sewer Permit Ordinance
NBP	National Biosolids Partnership	SRF	State Revolving Fund loan program
NBPS	North Branch Pumping Station	SS	Suspended Solids
NCBP	Non-Core Business Projects	SSA	Stickney Service Area
NPDES	National Pollutant Discharge Elimination System	SSMP	Small Streams Maintenance Program
NSA	North Service Area	SWCO	Sewage and Waste Control Ordinance
NSWRP	North Side Water Reclamation Plant (renamed OWRP)	SWRP	Stickney Water Reclamation Plant
OM&R	Operations, Maintenance, & Replacement costs	TARP	Tunnel and Reservoir Plan
OPEB	Other Postemployment Benefits	TGM	Technical Guidance Manual
OSHA	Occupational Safety and Health Administration	TIF	Tax Increment Financing district
OWRP	O'Brien Water Reclamation Plant (formerly known as NSWRP)	UCO	User Charge Ordinance
PBF	Public Budget Formulation	USEPA	United States Environmental Protection Agency
PJM	Pennsylvania-New Jersey- Maryland Interconnection service provider for marketing electricity	UV	Ultraviolet
P&MM	Procurement & Materials Management	VFD	Variable Frequency Drive
PO	Purchase Order	WASSTRIP®	Waste Activated Sludge Stripping to Remove Internal Phosphorus
PPO	Participating Provider Option	WBE	Women-owned Business Enterprise
PPRT	Personal Property Replacement Tax	WEFTEC	Water Environment Federation Technical Exhibition and Conference
PS	Pumping Station	WMO	Watershed Management Ordinance
PST	Primary Settling Tank	WRP	Water Reclamation Plant
RAPS	Racine Avenue Pumping Station		

NOTE PAGE



Metropolitan Water Reclamation District of Greater Chicago

Historical Information And Milestones

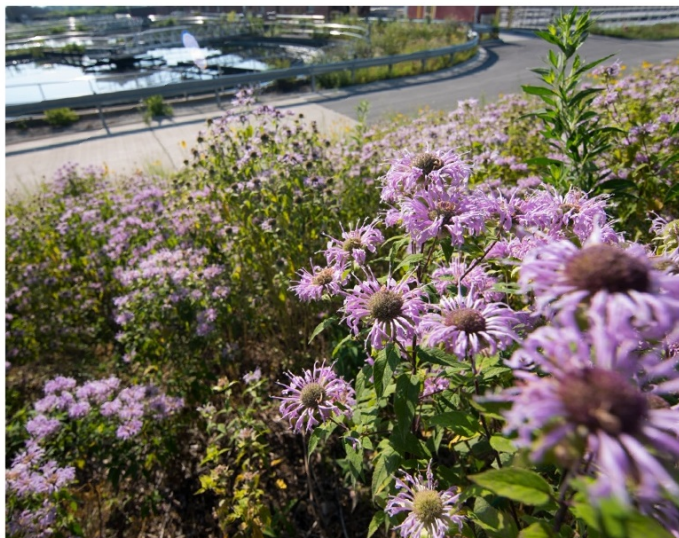
- 1837** Chicago was incorporated as a city. The city's primary source of drinking water is Lake Michigan. Due to poor drainage and discharges to Lake Michigan, water-borne diseases plagued the city throughout the 1800s.
- 1856** Sewers were constructed to collect the city's wastewater. These sewers 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.
- 1955** 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 "Special Civil Engineering Achievement Award" in 1974 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 Plant (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; TARP Mainstream System, Phase I, received award for "Outstanding Civil Engineering Achievement" from the ASCE.
- 1986** TARP received awards for "Outstanding Civil Engineering Achievement" and "Outstanding Civil Engineering Achievement of Past 100 Years in Illinois"; 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 began 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.
- 1992-1994** District's five Sidestream Elevated Pool Aeration Stations (SEPA) completed along the Calumet River system. These stations add oxygen to the waterways to enhance the aquatic environment. The District received "Outstanding Civil Engineering Achievement" in 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 began 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 Transitional 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.
- 2006** 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.
- 2012** North Side Water Reclamation Plant renamed Terrence J. O'Brien Water Reclamation Plant.
- 2013** Board adopted the Watershed Management Ordinance, establishing uniform and minimum stormwater regulations throughout Cook County.
- 2014** District celebrated its 125th anniversary.
- 2015** Disinfection facility at the Calumet Water Reclamation Plant placed into operation. Thornton Composite Reservoir placed into operation.
- 2016** Phosphorus recovery facility placed into operation at the Stickney Water Reclamation Plant; implemented an ultraviolet disinfection process at the O'Brien Water Reclamation Plant; Board adopted the Resource Recovery Ordinance, which provides legal framework for resource recovery initiatives.
- 2017** Phase I of the McCook Reservoir completed.

130 Years of Dedicated Service

Nearly 500 billion gallons of water flow through the pipes and facilities of the Metropolitan Water Reclamation District of Greater Chicago (District) each year. The District addresses the volume of water that comes with heavy rains and unknown contaminants that are flushed down drains throughout Cook County. It is the diligent men and women of the District and our seven industrious water reclamation plants that maintain that flow and transform wastewater into a clean product that protects our environment and makes our region an attractive place to live and visit. Our water reclamation plants meet the highest standards and uphold our distinguished record of excellence that residents have come to rely on for 130 years. The District's staff are implementing several innovations in renewable energy, while also developing reuse opportunities for water, energy, biosolids, algae, phosphorus, and other nutrients collected during the wastewater treatment process. Each of the seven water reclamation plants add value in traditional and non-traditional ways and protect the region's water quality.



The Stickney Water Reclamation Plant remains unrivaled as the world's largest plant with full secondary treatment by volume, cleaning up to 1.44 billion gallons per day, serving 2.3 million people in a 260 square mile area.



As stewards of our land, the District plants native prairie landscaping at the Terrence J. O'Brien Water Reclamation Plant and other facilities to reduce maintenance costs, increase biodiversity and wildlife habitat, sequester carbon, and meet our goals in managing stormwater.



Recreational use of area waterways is thriving thanks to improvements in wastewater treatment technologies.



The District is constructing new primary settling tanks and aerated grit tanks, support facilities, service tunnels, and conduits at the Stickney Water Reclamation Plant. This will replace tanks, produce renewable energy, increase and improve grit removal, protect downstream piping and equipment, increase water recycling and reduce odors.

Cover: The John E. Egan Water Reclamation Plant represents major advancements in the art and science of wastewater treatment, combining traditional technologies with new energy efficient processes to remove nitrogen and ammonia.



Metropolitan Water Reclamation District of Greater Chicago
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2019 Budget

Tentative Budget

The 2019 Executive Director's Recommendations
(previously printed) and Amendments Herein

November 20, 2018

Metropolitan Water Reclamation District of Greater Chicago



GOVERNMENT FINANCE OFFICERS ASSOCIATION

*Distinguished
Budget Presentation
Award*

PRESENTED TO

**Metropolitan Water Reclamation District of Chicago
Illinois**

For the Fiscal Year Beginning

January 1, 2018

Christopher P. Morill

Executive Director

The Government Finance Officers Association of the United States and Canada (GFOA) presented a Distinguished Budget Presentation Award to Metropolitan Water Reclamation District of Greater Chicago, Illinois for its Annual Budget for the fiscal year beginning January 1, 2018. In order to receive this award, a governmental unit must publish a budget document that meets program criteria as a policy document, as a financial plan, as an operations guide, and as a communications device.

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.



Metropolitan Water Reclamation District of Greater Chicago

2019 Budget

Tentative Budget

The 2019 Executive Director's Recommendations
(previously printed) and Amendments Herein

November 20, 2018

Officers

John P. Murray

Acting Executive Director

Mary Ann Boyle

Treasurer

Allison Fore

Public and Intergovernmental Affairs Officer

Darlene A. LoCascio

Director of Procurement & Materials Management

Eileen M. McElligott

Administrative Services Officer

Susan T. Morakalis

General Counsel

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Brian Perkovich

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Director of Monitoring & Research

Beverly K. Sanders

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John H. Sudduth

Director of Information Technology

Jacqueline Torres

Clerk/Director of Finance

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Population (2010)

	Population (2010)	Square Miles
Chicago	2,695,598	228
Suburbs	2,499,077	726
Cook County	5,194,675	954

Population over 50,000

- Arlington Heights
- Berwyn
- Cicero
- Des Plaines
- Evanston
- Mount Prospect
- Oak Lawn
- Orland Park
- Palatine
- Schaumburg
- Skokie
- Tinley Park

Population over 30,000

- Calumet City
- Elk Grove Village
- Glenview
- Northbrook
- Park Ridge
- Streamwood
- Wheeling

The MWRDGC has responsibility for Stormwater Management for all of Cook County, including areas that currently lie outside the MWRDGC's boundaries.

The Tentative 2019 Budget for the Metropolitan Water Reclamation District of Greater Chicago consists of the Executive Director's Recommendations (previously published on October 16, 2018) and amendments approved by the Committee on Budget and Employment on November 1, 2018. This supplement to the Executive Director's Recommendations includes all of the Line Item Analysis schedules for each department with the recommendations of the Committee on Budget and Employment. A Position Analysis schedule is included only for departments where changes occurred due to actions taken at the November 1, 2018 Committee on Budget and Employment meeting. All changes are highlighted.

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NOTE PAGE

Protecting Our Water Environment

Metropolitan Water Reclamation District of Greater Chicago

100 EAST ERIE STREET CHICAGO, ILLINOIS 60611-3154 312.751.5600

BOARD OF COMMISSIONERS

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November 20, 2018

The Honorable Mariyana T. Spyropoulos
And Members of the Board of Commissioners
OFFICE

Honorable Ladies and Gentlemen:

The 2019 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 16, 2018. A hearing on these recommendations was conducted on November 1, 2018, when the Executive Director and his Executive Team presented 2018 accomplishments and initiatives included in the 2019 Budget. The Executive Director presented a financial summary of the 2019 Budget. The District has a stable Corporate Fund, a sustainable capital program, and remains committed to funding the Other Postemployment Benefits fund. The Retirement Fund has a funded ratio of 58.3 percent. The District continues to expand Stormwater Management efforts that will implement flood control projects and support local stormwater issues.

Celebrating 130 Years

The District will celebrate its 130th anniversary during 2019 and our mission to protect public health remains largely the same since our inception as the Sanitary District of Chicago in 1889. While the District's first assignments of reversing the flow of the Chicago River and constructing a vast network of waterways to protect the quality of Lake Michigan were clear, the District continues to evolve and implement new technologies that further our commitment to environmental protection.

The District operates seven water reclamation plants that treat an average of 1.3 billion gallons of wastewater each day, controls 76.1 miles of navigable waterways, and owns and operates 34 stormwater detention reservoirs to provide regional flood protection.



The Main Channel of the Sanitary and Ship Canal Extension, including the Lockport Powerhouse and Lock, were completed in 1907. The opening of the Lock connected the Great Lakes to the Mississippi River system. In the photo to the left, officials tour the Lockport Powerhouse and Lock on August 4, 1907.

Beginning in 1972, the District began working on the Tunnel and Reservoir Plan (TARP) to meet water quality standards in the 375 square mile combined sewer service area. The tunnel system, which consists of 109.4 miles of tunnels ranging from eight feet to 33 feet in diameter with a storage capacity of 2.3 billion gallons, was completed in 2006. The second phase of TARP is a series of reservoirs that are primarily intended for flood control for the combined sewer area, and enhance pollution control benefits of the tunnel system. In 2018, Stage 1 of the final reservoir in the system, the McCook Reservoir, became operational while construction on Stage 2 is scheduled to be completed in 2029.

Reducing the number of combined sewer overflows, improving stormwater management, and developing new technologies at the water reclamation plants have led to cleaner area waterways. The number of fish species in the Chicago Area Waterways System (CAWS) has drastically increased since the 1970s when monitoring of the fish population began. From 10 known species in 1974, the number has increased to 76. In 2018, the District teamed with the Army Corps of Engineers and the Chicago Park District to demolish a century old dam along the North Branch of the Chicago River to allow fish migration and improve navigation for recreational paddlers.

The District's 2015-2020 Strategic Business Plan, *Recovering Resources, Transforming Water*, encompasses the District's mission and provides a framework for evaluating new projects, ensuring sustainability, and providing clean water resources for generations to come.

We are pleased to present the 2019 Tentative Budget, which represents a comprehensive plan to meet the Strategic Business Plan's goals in a fiscally responsible manner. The Corporate Fund budget reflects modest growth of 1.8 percent over the 2018 appropriation and prioritizes the maintenance and operations of our seven water reclamation plants. Our Capital Improvement Program provides great value for taxpayers by utilizing a combination of funding options including low interest State Revolving Fund loans, bonds, and pay-as-you-go funding to invest in Cook County infrastructure.

Improving Infrastructure

Large-scale public works infrastructure projects have been a hallmark of the District's identity from our inception. From the opening of the Chicago Sanitary and Ship Canal in 1900 that successfully reversed the flow of the Chicago River, to construction of TARP tunnels and reservoirs, the District excels at implementing large capital projects.

The District's \$689.1 million 2019 Capital Improvement Program uses a combination of funding options to meet the District's capital needs in a fiscally sound manner. The 2019 Capital Improvement Program includes construction of 23 new pay-as-you-go projects funded through the Construction Fund, 22 new projects funded with State Revolving Fund loans and General Obligation bonds, and four large stormwater projects funded with Alternate Revenue bonds or Stormwater State Revolving Fund loans.



Stage 1 of the McCook Reservoir began taking water for the first time during an unusually warm January 11, 2018.

On January 11, 2018, the McCook Reservoir, Stage 1 began taking on water for the first time, protecting against combined sewer overflows, as well as alleviating flooding for 37 suburban communities. The Stage 1 reservoir has a 3.5 billion gallon storage capacity. Construction is ongoing for the Stage 2 reservoir, which will have an additional 6.5 billion gallon capacity and is scheduled to be operational in 2029.

In 2019, the District will begin construction on several projects to modernize our aging infrastructure at the seven water reclamation plants that will allow the District to optimize processes, chemical usage, and energy consumption. In 2018, the District will complete a \$23.2 million project to improve the operations at the Stickney Water Reclamation Plant (WRP). Nine new 160-foot diameter primary settling tanks will reduce methane gas emissions by replacing Imhoff tanks that have been in service since 1929. In 2019, construction will begin on a \$15.0 million project to rehabilitate the anaerobic digesters at the Stickney WRP, as well as replace a section of gas piping that will ensure proper gas conveyance from the new primary settling tanks.

Operational Excellence

The District continues a tradition of operational excellence from the opening of the Calumet WRP in 1922 through today. The District serves 128 communities in nearly all of Cook County, treating an average of 1.3 billion gallons of water each day, with a total treatment capacity of 2.0 billion gallons per day. In 2017, five of seven water reclamation plants received National Association of Clean Water Agencies Platinum Peak Performance Awards for maintaining 100 percent compliance with National Pollutant Discharge Elimination Permits. The remaining two plants received a Gold Award and a Silver Award. All seven plants have earned

99.7 percent or higher compliance since 2007 and similar results are anticipated for 2018. Disinfection upgrades were implemented at the Calumet WRP in 2015 and an ultraviolet radiation disinfection system was introduced at the O'Brien WRP in 2016.



Workers with a hoist cage at the bottom of a drop shaft during sewer construction on December 21, 1927.

In addition to investing in technologies at the seven water reclamation plants to eliminate nitrogen and phosphorus from wastewater, the District is working to protect the CAWS from non-point source pollution. In conjunction with the Illinois Environmental Protection Agency (IEPA), the District coordinates stakeholders to address chloride levels in area waterways. In 2018, the District hosted municipal representatives, Illinois Department of Transportation (IDOT) representatives, and the private sector to share best management practices for applying road salt. The District and the University of Illinois were awarded a \$350,000 grant to study agricultural drainage to minimize nitrogen and phosphorus in agricultural runoff.

Stormwater Management

In 2004, the Illinois General Assembly granted authority to the District to manage stormwater for Cook County, expanding the mission of the agency to mitigate flooding and improve water quality throughout the region. Changing weather patterns and intense bursts of precipitation quickly overwhelm systems throughout Cook County. The 2019 Budget highlights the District's commitment to reduce flooding. The Stormwater Management Fund budget is increasing by \$25.8 million over the 2018 appropriation to further our investment in flood control projects and continue to support local stormwater issues. During 2019, construction will begin on both channel improvements on Addison Creek and the Addison Creek Reservoir. Together these large-scale projects will reduce overbank flooding for over 2,000 structures.

Through flood-prone property acquisition, community partnerships, and cost sharing agreements for local stormwater projects, the District is leveraging tax dollars and investing in both Green Infrastructure projects and large capital projects. Green Infrastructure projects are designed to capture water and allow it to infiltrate into the ground before it enters the traditional conveyance system.



The District partners with local municipalities and other governmental organizations to fund Green Infrastructure projects that capture, store, and infiltrate stormwater by mimicking the natural water cycle. Funding is provided for construction projects that are in flood-prone areas and provide educational opportunities for residents on the benefits of Green Infrastructure. The 2019 Budget includes \$10.7 million for cost sharing on local Green Infrastructure projects.

The District is actively partnering with local governments or has recently completed projects including the following:

- The District partnered with the City of Chicago to complete the Albany Park Stormwater Diversion Tunnel in 2018. The tunnel will convey water overflowing at the North Branch of the Chicago River and convey it more than a mile east to the North Shore Channel. The Albany Park neighborhood experienced major flooding that impacted hundreds of homes in the past, and this project will help protect those homes against future flood damages.
- Permeable pavers are being installed throughout Cook County in partnership with the District. The Village of Arlington Heights is installing a permeable parking lot and a bioinfiltration basin at the Arlington Heights Police Station. Green alleys are being constructed in Chicago's 10th Ward, the City of Des Plaines, the Village of Forest Park, the Village of Harwood Heights, the Village of Maywood, the Village of Posen, and the Village of River Forest.
- The District partnered with the Village of Skokie and the Skokie Park District on two projects that allow for a combined 46,000 gallons of water to be retained at Devonshire Park and the Skokie Police Station Headquarters. The projects include rain gardens and a naturalized detention area.

Financial Summary

The District continues to maintain a AAA bond rating from Fitch Ratings and a AA+ bond rating from Standard & Poor's. The District's funding policies for both the Retirement Fund and Other Postemployment Benefits Fund demonstrate the District's commitment to long-term fiscal management and contribute to strong credit ratings. These accomplishments, in the midst of an uncertain Illinois financial environment, are outstanding achievements and speak to the thoughtful management of the agency.

The 2019 Tentative Budget and the Five-Year Financial Plan were developed to maintain budgetary fund balances using the Strategic Business Plan as a guideline to establish priorities. The operation, maintenance, and investment in the District's infrastructure, flood control projects, and other essential services will continue to receive primary focus.

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 unfunded pension liabilities. The 2019 Tentative Budget continues our conservative fiscal management and includes the policies, objectives, and resources to allow the District to remain true to our mission of protecting our water environment and the health of the residents of Cook County.

The District's appropriation and tax levy for the 2019 Tentative Budget, compared to the 2018 Budget as Adjusted is:

	<u>2019</u>	<u>2018 Adjusted</u>	<u>Increase (Decrease)</u>	<u>Percent Change</u>
Total Tax Levy	\$ 640,649,270	\$ 621,317,594	\$ 19,331,676	3.1 %
Aggregate Levy	\$ 341,239,500	\$ 329,699,997	\$ 11,539,503	3.5 %
Appropriation	\$ 1,092,299,141	\$ 1,151,051,387	\$ (58,752,246)	(5.1)%

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 2019 aggregate levy is equal to the estimated CPI plus new property for 2019.

Conclusion

The 2019 Tentative Budget was prepared to incorporate the goals and strategies of the Strategic Business Plan, *Recovering Resources, Transforming Water*. The 2019 update to the plan is included in full in the Executive Director's Recommendations. We are committed as an agency to providing the excellent service expected of the District.

Respectfully submitted,



Kari K. Steele

Chairman, Committee on Budget and Employment



Debra Shore

Vice-Chairman, Committee on Budget and Employment



The Nicholas J. Melas Centennial Fountain was built in 1989 to commemorate the District's 100th anniversary.

Budget Message / Highlights

Major Budget Amendments Impacting the 2019 Tentative Budget

The 2019 Executive Director's Recommended Budget was presented to the Board of Commissioners on October 16, 2018 according to the budget process detailed on pages 32-34 of the 2019 Executive Director's Recommendations.

The purpose of this section is to describe budgetary amendments between the Executive Director's Recommendations and the Tentative Budget. The total appropriation increased by \$12.6 million, or 1.17 percent, from the 2019 Executive Director's Recommendations of \$1.08 billion to \$1.09 billion due to increases in the Corporate, Construction, and Capital Improvements Bond Funds. No changes to the property tax levies or user fees were necessary to support these increases.

The Retirement Fund, Reserve Claim Fund, Stormwater Management Fund, and Bond Redemption & Interest Fund are presented without modification from the 2019 Executive Director's Recommendations.

Revised budget pages present estimated balance sheets and appropriable revenue for the Capital Improvements Bond Fund and estimated balance sheets for the Corporate and Construction Funds.

	Appropriations				
	2019 Executive Director's Recommendations	2019 Tentative Budget	Increase (Decrease)	Percent Change	
Corporate Fund	\$ 376,807,500	\$ 376,862,500	\$ 55,000	0.01 %	
Construction Fund	17,602,300	17,912,300	310,000	1.76 %	
Retirement Fund	87,281,000	87,281,000	—	— %	
Reserve Claim Fund	31,767,800	31,767,800	—	— %	
Capital Improvements Bond Fund	236,431,900	248,707,900	12,276,000	5.19 %	
Stormwater Management Fund	91,410,100	91,410,100	—	— %	
Bond Redemption & Interest Fund	238,357,541	238,357,541	—	— %	
Total Budget	\$ 1,079,658,141	\$ 1,092,299,141	\$ 12,641,000	1.17%	

Corporate Fund

The Corporate Fund is the District's general operating fund and includes appropriation requests for all the day-to-day operational costs anticipated for 2019. The total appropriation request for the Corporate Fund increased by \$55,000, or 0.01 percent, from the 2019 Executive Director's Recommendations of \$376.8 million to \$376.9 million. The increase is primarily due to the expansion of the Learning Management Platform project to include Performance Management software.

Construction Fund

The Construction Fund, which finances smaller construction projects on a pay-as-you-go basis, increased by \$0.3 million, or 1.76 percent, from the 2019 Executive Director's Recommendations of \$17.6 million to \$17.9 million. Major projects added include the rehabilitation of main sewage pumps motor windings at the Stickney WRP and an expanded scope for HVAC system replacements.

Capital Improvements Bond Fund

The Capital Improvements Bond Fund is budgeted on an "obligation basis," meaning that funding for the project is budgeted at the time of award. The projects are funded through current and future anticipated bonds, loans, or grants. The total appropriation request for the Capital Improvements Bond Fund increased by \$12.3 million, or 5.19 percent, from the 2019 Executive Director's Recommendations of \$236.4 million to \$248.7 million. The increase is due to the deferred awards of a project to rehabilitate the gravity concentration tank at the Calumet WRP and a project to replace tailrace stop logs, headrace gates, and equipment at the Lockport Powerhouse.

CHICAGO, November 20, 2018

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, 2019 and ending December 31, 2019, as prepared and submitted by the Executive Director in the document entitled "2019 Budget - Executive Director's Recommendations - October 16, 2018," 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, 2019, 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, 2019 and ending December 31, 2019";

and

"An Ordinance for the Levy of Taxes for the fiscal year beginning January 1, 2019 and ending December 31, 2019, 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, 2019, 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, 2019 and ending December 31, 2019, 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, 2019, 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, 2019 and ending December 31, 2019, 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, 2019 and ending December 31, 2019, 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, 2019, 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, 2019 and ending December 31, 2019, 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, 2019, 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, 2019 and ending December 31, 2019”;

and

“An Ordinance for the Levy of Taxes for the fiscal year beginning January 1, 2019 and ending December 31, 2019 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, 2019, 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, 2019 and ending December 31, 2019, 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, 2019, 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, 2019 and ending December 31, 2019, 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, 2019 and ending December 31, 2019, 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, 2019, for the purpose of providing revenues for the Reserve Claim Fund”;

Approved as to Form and Legality:



Head Assistant Attorney



General Counsel

and

“An Ordinance for the Levy of Taxes for the fiscal year beginning January 1, 2019 and ending December 31, 2019, 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, 2019, for the purpose of providing revenues for the Stormwater Management Fund”;

and it is further

Ordered: That upon the adoption and passage of the 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 2019 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, 2019 and ending December 31, 2019;

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 2019 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, 2019 and ending December 31, 2019, shall be published once before January 20, 2019, 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

2019-2017 ALL FUNDS

APPROPRIATIONS	2019 **	2018 AS PASSED	2018 AS ADJUSTED *	2017 ACTUAL
FUND				
Corporate Fund	\$ 376,862,500	\$ 370,209,200	\$ 370,209,200	\$ 368,925,800
Construction Fund	17,912,300	26,080,600	26,080,600	34,450,400
Capital Improvements Bond Fund ***	248,707,900	312,982,900	312,982,900	354,625,600
Stormwater Management Fund	91,410,100	65,581,000	65,581,000	45,800,100
Retirement Fund	87,281,000	89,604,000	89,604,000	79,505,000
Reserve Claim Fund	31,767,800	30,289,500	30,289,500	30,617,100
Bond Redemption & Interest Fund	238,357,541	256,304,187	256,304,187	228,825,813
TOTAL	\$ 1,092,299,141	\$ 1,151,051,387	\$ 1,151,051,387	\$ 1,142,749,813
LEVIES				
Corporate Fund	\$ 254,574,100	\$ 240,465,800	\$ 240,465,800	\$ 224,824,731
Construction Fund	7,600,000	11,700,000	11,700,000	17,000,000
Stormwater Management Fund	52,926,000	47,826,000	47,826,000	40,856,008
Retirement Fund	71,565,400	71,534,197	71,534,197	73,438,135
Reserve Claim Fund	7,500,000	6,000,000	6,000,000	5,900,000
Subtotal	\$ 394,165,500	\$ 377,525,997	\$ 377,525,997	\$ 362,018,874
Bond Redemption & Interest Fund:				
Capital Improvement Bonds - Series:				
2016 Qualified Energy Conservation Limited Tax Series F	\$ 165,804	\$ 165,804	\$ 165,804	\$ 165,804
2009 Limited Tax Series	35,564,767	35,564,767	35,564,767	35,564,767
2011 Limited Tax Series B	18,950,616	28,911,239	28,911,239	41,406,315
2011 Unlimited Tax Series C	2,515,991	4,184,800	4,184,800	3,981,898
2014 Limited Tax Series C	8,286,788	6,763,472	6,763,472	3,240,156
2014 Unlimited Tax Series A	5,181,348	5,181,348	5,181,348	5,181,348
2014 Alternate Revenue Unlimited Tax Series B ****	3,391,037	3,390,570	3,390,570	3,389,171
2016 Alternate Revenue Unlimited Tax Series E ****	2,590,674	2,590,674	2,590,674	2,590,674
Alternate Revenue Abatement ****	—	—	—	(5,979,845)
2016 Unlimited Tax Series C	1,554,405	1,554,405	1,554,405	1,554,405
2016 Limited Tax Series D	1,036,270	1,036,270	1,036,270	1,036,270
State Revolving Fund Bonds - Series: Various	97,420,666	85,458,595	85,458,596	77,609,685
Refunding Bonds - Series:				
2007 Unlimited Tax Series A	26,694,301	26,623,057	26,623,057	26,509,845
2007 Unlimited Tax Series B	4,996,749	4,996,749	4,996,749	4,996,749
2007 Limited Tax Series C	5,541,607	5,541,607	5,541,607	5,541,607
2014 Limited Tax Series D	15,895,337	15,130,830	15,130,830	9,264,767
2016 Unlimited Tax Series A	14,555,959	14,555,959	14,555,959	14,555,959
2016 Limited Tax Series B	2,141,451	2,141,451	2,141,451	2,141,451
Subtotal Bond Redemption & Interest Fund	\$ 246,483,770	\$ 243,791,597	\$ 243,791,597	\$ 232,751,026
TOTAL	\$ 640,649,270	\$ 621,317,594	\$ 621,317,594	\$ 594,769,900
Abatement after the budget year ****	(6,185,100)	(6,152,228)	(6,152,228)	
Total (after planned abatement)	\$ 634,464,170	\$ 615,165,366	\$ 615,165,366	

NOTES: * As Adjusted reflects the 2017 EAV (\$147,945,823,261) estimated to increase 3.0 percent, plus any subsequent supplemental levies or appropriations.

** 2019 reflects an estimated 3.0 percent increase in EAV from the 2018 estimate.

*** Prior year obligations for the Capital Improvements Bond Fund are included in the Appropriation for Liabilities.

**** As part of the plan of financing, it is intended and anticipated that tax revenues deposited in the Stormwater Management Fund be transferred to the Bond Redemption & Interest Fund and used to abate taxes levied for this issue.

COMPARATIVE STATEMENT OF TAX RATES

2019-2017 ALL FUNDS

Per \$100 in Equalized Assessed Valuation (EAV)

FUND		2019 **	2018 AS PASSED	2018 AS ADJUSTED *	2017 ACTUAL
	tax rate limit				
Corporate Fund	41¢	16.22¢	16.11¢	15.78¢	15.20¢
Construction Fund	10¢	0.48	0.78	0.77	1.15
Stormwater Management Fund	5¢	3.37	3.20	3.14	2.76
Retirement Fund		4.56	4.79	4.69	4.96
Reserve Claim Fund	½ ¢	0.48	0.40	0.39	0.40
Subtotal		25.11¢	25.28¢	24.77¢	24.47¢
Bond Redemption & Interest Fund:					
Capital Improvement & Interest Fund:					
2016 Qualified Energy Conservation Limited Tax Series F		0.01¢	0.01¢	0.01¢	0.01¢
2009 Limited Tax Series		2.27	2.38	2.33	2.40
2011 Limited Tax Series B		1.21	1.94	1.90	2.80
2011 Unlimited Tax Series C		0.16	0.28	0.27	0.27
2014 Limited Tax Series C		0.53	0.45	0.44	0.22
2014 Unlimited Tax Series A		0.33	0.35	0.34	0.35
2014 Alternate Revenue Unlimited Tax Series B ***		0.22	0.23	0.22	0.23
2016 Alternate Revenue Unlimited Tax Series E ***		0.17	0.17	0.17	0.18
Alternate Revenue Abatement ***		—	—	—	(0.41)
2016 Unlimited Tax Series C		0.10	0.10	0.10	0.11
2016 Limited Tax Series D		0.07	0.07	0.07	0.07
State Revolving Fund Bonds - Series:					
Various		6.21	5.72	5.61	5.25
Refunding Bonds - Series:					
2007 Unlimited Tax Series A		1.70	1.78	1.75	1.79
2007 Unlimited Tax Series B		0.32	0.33	0.33	0.34
2007 Limited Tax Series C		0.35	0.37	0.36	0.37
2014 Limited Tax Series D		1.01	1.01	0.99	0.63
2016 Unlimited Tax Series A		0.93	0.97	0.96	0.98
2016 Limited Tax Series B		0.14	0.14	0.14	0.14
Subtotal Bond Redemption & Interest Fund		15.73¢	16.30¢	15.99¢	15.73¢
TOTAL		40.84¢	41.58¢	40.76¢	40.20¢

NOTES: * As Adjusted reflects the 2017 EAV (\$147,945,823,261) estimated to increase 3.0 percent, plus any subsequent supplemental levies or appropriations.

** 2019 reflects an estimated 3.0 percent increase in EAV from the 2018 estimate.

*** As part of the plan of financing, it is intended and anticipated that tax revenues deposited in the Stormwater Management Fund be transferred to the Bond Redemption & Interest Fund and used to abate taxes levied for this issue.

ACCOUNT SUMMARY COMPARISON

2019 - 2018 ALL FUNDS

ORGANIZATION OR FUND	Account Appropriation		Increase (Decrease) 2019-2018	
	2019	2018	Dollars	Percent
Board of Commissioners	\$ 5,266,700	\$ 5,145,200	\$ 121,500	2.4
General Administration	19,717,900	16,725,400	2,992,500	17.9
Monitoring & Research	31,253,400	31,888,700	(635,300)	(2.0)
Procurement & Materials Management	9,786,100	9,466,700	319,400	3.4
Human Resources	60,108,000	59,226,400	881,600	1.5
Information Technology	18,432,300	17,052,500	1,379,800	8.1
Law	7,168,700	7,502,800	(334,100)	(4.5)
Finance	3,649,700	3,743,900	(94,200)	(2.5)
Maintenance & Operations:				
General Division	31,634,100	26,155,200	5,478,900	20.9
North Service Area	43,382,000	42,258,700	1,123,300	2.7
Calumet Service Area	36,634,900	36,295,300	339,600	0.9
Stickney Service Area	84,355,400	86,426,300	(2,070,900)	(2.4)
TOTAL Maintenance & Operations	\$ 196,006,400	\$ 191,135,500	\$ 4,870,900	2.5
Engineering	25,473,300	28,322,100	(2,848,800)	(10.1)
TOTAL Corporate Fund	\$ 376,862,500	\$ 370,209,200	\$ 6,653,300	1.8
Construction Fund	17,912,300	26,080,600	(8,168,300)	(31.3)
Capital Improvements Bond Fund	248,707,900	312,982,900	(64,275,000)	(20.5)
TOTAL Capital Budget	\$ 266,620,200	\$ 339,063,500	\$ (72,443,300)	(21.4)
Stormwater Management Fund	91,410,100	65,581,000	25,829,100	39.4
Bond Redemption & Interest Fund	238,357,541	256,304,187	(17,946,646)	(7.0)
Retirement Fund	87,281,000	89,604,000	(2,323,000)	(2.6)
Reserve Claim Fund	31,767,800	30,289,500	1,478,300	4.9
GRAND TOTAL	<u>\$1,092,299,141</u>	<u>\$1,151,051,387</u>	<u>\$ (58,752,246)</u>	(5.1)

ALL FUNDS**SUMMARY OF REVENUE, EXPENDITURES, AND NET ASSETS APPROPRIABLE (b)**
2019 BUDGETED, 2018 ESTIMATED, AND 2017 ACTUAL

(In Thousands)

	FUND							
	CORPORATE	CAPITAL IMPROVEMENTS BOND	CONSTRUCTION	STORMWATER MANAGEMENT	RETIREMENT (d)	BOND REDEMPTION & INTEREST (d)	RESERVE CLAIM (d)	TOTAL
2019 BUDGETED								
Net Assets Appropriable	\$ 131,296.6	\$ (609,357.7)	\$ 10,192.3	\$ 45,807.0	\$ 87,281.0	\$ 230,060.6	\$ 31,167.8	\$ (73,552.4)
Net Assets Appropriated	\$ 31,366.5	\$ (609,357.7)	\$ 10,192.3	\$ 45,807.0	\$ 87,281.0	\$ 230,060.6	\$ 31,167.8	\$ (173,482.5)
Revenue	345,496.0	858,065.6	7,720.0	45,603.1	—	8,296.9	600.0	1,265,781.6
Appropriation	\$ 376,862.5	\$ 248,707.9	\$ 17,912.3	\$ 91,410.1	\$ 87,281.0	\$ 238,357.5	\$ 31,767.8	\$ 1,092,299.1
2018 ESTIMATED								
Beginning Net Assets Appropriable as adjusted (c)	\$ 143,474.1	\$ (615,827.5)	\$ 15,526.9	\$ 35,706.1	\$ 89,604.0	\$ 248,287.6	\$ 30,591.2	\$ (52,637.6)
Revenue (a)	338,517.0	164,360.5	11,451.0	40,229.3	—	8,016.6	458.1	563,032.5
Adjustment for 2017 receipts	(3,319.3)	—	(461.8)	(369.2)	—	—	—	(4,150.3)
Expenditures	(347,375.2)	(157,890.7)	(16,323.8)	(29,759.2)	(89,604.0)	(256,304.2)	(5,600.0)	(902,857.1)
Ending Net Assets Appropriable	\$ 131,296.6	\$ (609,357.7)	\$ 10,192.3	\$ 45,807.0	\$ —	\$ —	\$ 25,449.3	\$ (396,612.5)
2017 ACTUAL								
Beginning Net Assets Appropriable as adjusted (c)	\$ 142,061.5	\$ (549,041.4)	\$ 6,384.0	\$ 13,843.2	\$ 79,505.0	\$ 224,536.5	\$ 31,455.6	\$ (51,255.6)
Revenue	339,836.6	178,242.3	22,936.2	39,264.3	—	4,625.7	310.0	585,215.1
Expenditures	(338,424.1)	(245,028.4)	(13,793.3)	(17,401.4)	(79,505.0)	(215,647.3)	(6,905.1)	(916,704.6)
Ending Net Assets Appropriable	\$ 143,474.1	\$ (615,827.5)	\$ 15,526.9	\$ 35,706.1	\$ —	\$ 13,514.9	\$ 24,860.5	\$ (382,745.0)
Adjusted NAA 1/1/2018	\$ 140,154.8		\$ 15,065.1	\$ 35,336.9				
Adjustment (a)	\$ (3,319.3)		\$ (461.8)	\$ (369.2)				

(a) Adjustment to NAA required due to current 2018 estimate on collection of property tax levies and PPRT. See the Balance Sheets and Appropriable Revenue statements 01/01/2018 for the Corporate (pages 87-88), Construction (pages 95-96), and Stormwater Management (pages 99-100) Funds. The adjustment is reflected in the 2018 revenues.

(b) This statement is a summary presentation of pages 76-78, separating current revenue and NAA from the revenue category.

(c) Ending NAA for one year are revised for accounting adjustments, equity transfers, and changes in the amount of designations to establish beginning net assets for the next year.

(d) Revenue for the Retirement, Bond Redemption & Interest, and Reserve Claim Funds does not include the current year tax levies, which are reflected in the next year's NAA.

ALL FUNDS
SUMMARY OF REVENUE AND EXPENDITURES
2019 BUDGETED
(In Thousands)

	FUND							
	CORPORATE	CAPITAL IMPROVEMENTS BOND*	CONSTRUCTION	STORMWATER MANAGEMENT	RETIREMENT	BOND REDEMPTION & INTEREST	RESERVE CLAIM	TOTAL
REVENUE								
Net Assets Appropriable	\$ 131,296.6	\$ (609,357.7)	\$ 10,192.3	\$ 45,807.0	\$ 87,281.0	\$ 230,060.6	\$ 31,167.8	\$ (73,552.4)
Budget Reserve	(99,930.1)	—	—	—	—	—	—	(99,930.1)
Net Property Taxes	245,664.0	—	7,334.0	51,073.6	—	—	—	304,071.6
Personal Property Replacement Tax	15,000.0	—	—	—	—	—	—	15,000.0
Working Cash Borrowings Adjustment	(4,564.0)	—	(134.0)	(773.6)	—	—	—	(5,471.6)
Bond Sales (Present & Future)	—	721,198.3	—	—	—	—	—	721,198.3
Grants (Federal & State)	—	11,267.3	—	—	—	—	—	11,267.3
Investment Income	2,600.0	7,800.0	500.0	800.0	—	1,900.0	600.0	14,200.0
State Revolving Fund Loans	—	120,000.0	—	—	—	—	—	120,000.0
Property & Services	21,500.0	—	—	900.0	—	—	—	22,400.0
User Charge	46,000.0	—	—	—	—	—	—	46,000.0
TIF Differential Fee & Impact Fee	9,725.0	—	20.0	—	—	—	—	9,745.0
Equity Transfer	4,200.0	(4,200.0)	—	(6,396.9)	—	6,396.9	—	—
Resource Recovery	600.0	—	—	—	—	—	—	600.0
Miscellaneous	4,771.0	2,000.0	—	—	—	—	—	6,771.0
TOTAL REVENUE	\$ 376,862.5	\$ 248,707.9	\$ 17,912.3	\$ 91,410.1	\$ 87,281.0	\$ 238,357.5	\$ 31,767.8	\$ 1,092,299.1
EXPENDITURES								
Board of Commissioners	\$ 5,266.7	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 5,266.7
General Administration	19,717.9	—	—	—	—	—	—	19,717.9
Monitoring & Research	31,253.4	—	—	—	—	—	—	31,253.4
Procurement & Materials Mgmt.	9,786.1	—	—	—	—	—	—	9,786.1
Human Resources	60,108.0	—	—	—	—	—	—	60,108.0
Information Technology	18,432.3	—	—	—	—	—	—	18,432.3
Law	7,168.7	—	—	—	—	—	—	7,168.7
Finance	3,649.7	—	—	—	—	—	—	3,649.7
Engineering	25,473.3	248,707.9	17,912.3	—	—	—	—	292,093.5
Maintenance & Operations	196,006.4	—	—	—	—	—	—	196,006.4
Stormwater Management Fund	—	—	—	91,410.1	—	—	—	91,410.1
Retirement Fund	—	—	—	—	87,281.0	—	—	87,281.0
Bond Redemption & Interest Fund	—	—	—	—	—	238,357.5	—	238,357.5
Reserve Claim Fund	—	—	—	—	—	—	31,767.8	31,767.8
TOTAL EXPENDITURES	\$ 376,862.5	\$ 248,707.9	\$ 17,912.3	\$ 91,410.1	\$ 87,281.0	\$ 238,357.5	\$ 31,767.8	\$ 1,092,299.1

* 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
2018 ESTIMATED
(In Thousands)

	FUND								
	CORPORATE	CAPITAL IMPROVEMENTS BOND*	CONSTRUCTION	STORMWATER MANAGEMENT	RETIREMENT	BOND REDEMPTION & INTEREST	RESERVE CLAIM	TOTAL	
REVENUE									
Net Assets Appropriable	\$ 143,474.1	\$ (615,827.5)	\$ 15,526.9	\$ 35,706.1	\$ 89,604.0	\$ 248,287.6	\$ 30,591.2	\$ (52,637.6)	
Adjustment for Receipts	(3,319.3)	—	(461.8)	(369.2)	—	—	—	(4,150.3)	
Net Property Taxes	232,049.5	—	11,290.5	46,152.1	—	—	—	289,492.1	
Personal Property Replacement Tax	19,849.5	—	—	—	—	—	—	19,849.5	
Working Cash Borrowings Adjustment	(4,599.0)	—	(190.5)	(752.1)	—	—	—	(5,541.6)	
Bond Sales (Present & Future)	—	—	—	—	—	—	—	—	
Grants (Federal & State)	—	11,294.5	—	—	—	—	—	11,294.5	
Investment Income	2,594.0	5,266.0	341.0	595.0	—	2,226.0	458.1	11,480.1	
State Revolving Fund Loans	—	150,000.0	—	—	—	—	—	150,000.0	
Property & Services	22,003.0	—	—	—	—	—	—	22,003.0	
User Charge	46,000.0	—	—	—	—	—	—	46,000.0	
TIF Differential Fee & Impact Fee	10,725.0	—	10.0	—	—	—	—	10,735.0	
Equity Transfer	4,200.0	(4,200.0)	—	(5,770.6)	—	5,770.6	—	—	
Miscellaneous	5,695.0	2,000.0	—	4.9	—	20.0	—	7,719.9	
TOTAL REVENUE	\$ 478,671.8	\$ (451,467.0)	\$ 26,516.1	\$ 75,566.2	\$ 89,604.0	\$ 256,304.2	\$ 31,049.3	\$ 506,244.6	
EXPENDITURES									
Board of Commissioners	\$ 4,610.2	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 4,610.2	
General Administration	15,947.9	—	—	—	—	—	—	15,947.9	
Monitoring & Research	28,857.7	—	—	—	—	—	—	28,857.7	
Procurement & Materials Mgmt.	8,981.4	—	—	—	—	—	—	8,981.4	
Human Resources	56,030.1	—	—	—	—	—	—	56,030.1	
Information Technology	14,866.1	—	—	—	—	—	—	14,866.1	
Law	6,465.4	—	—	—	—	—	—	6,465.4	
Finance	3,494.5	—	—	—	—	—	—	3,494.5	
Engineering	26,101.4	157,890.7	16,323.8	—	—	—	—	200,315.9	
Maintenance & Operations	182,020.5	—	—	—	—	—	—	182,020.5	
Stormwater Management Fund	—	—	—	29,759.2	—	—	—	29,759.2	
Retirement Fund	—	—	—	—	89,604.0	—	—	89,604.0	
Bond Redemption & Interest Fund	—	—	—	—	—	256,304.2	—	256,304.2	
Reserve Claim Fund	—	—	—	—	—	—	5,600.0	5,600.0	
Equity Transfer	—	—	—	—	—	—	—	—	
TOTAL EXPENDITURES	\$ 347,375.2	\$ 157,890.7	\$ 16,323.8	\$ 29,759.2	\$ 89,604.0	\$ 256,304.2	\$ 5,600.0	\$ 902,857.1	

* 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.

CORPORATE FUND
ESTIMATED BALANCE SHEET
JANUARY 1, 2019 AND 2018

	ASSETS			
	2019		2018	
	AMOUNT	AVAILABLE FOR APPROPRIATION	AMOUNT	AVAILABLE FOR APPROPRIATION
CURRENT ASSETS				
Cash & Investments	\$ 110,000,000	\$ 110,000,000	\$ 127,347,300	\$ 127,347,300
Taxes Receivable	232,049,497	232,815,081	216,107,953	216,737,459
Replacement Tax	15,849,500	15,849,500	18,164,000	18,164,000
Total Current Assets	\$ 357,898,997	\$ 358,664,581	\$ 361,619,253	\$ 362,248,759
LIABILITIES & FUND EQUITY				
CURRENT LIABILITIES				
Unpaid Bills:				
Accrued Salaries & Wages	\$ 3,685,000	\$ 3,685,000	\$ 3,850,000	\$ 3,850,000
Personal Services - Other	2,700,000	2,700,000	1,022,559	1,022,559
Payroll Withholding & Miscellaneous	2,000,000	2,000,000	2,000,000	2,000,000
Contractual Services	28,983,016	28,983,016	28,000,000	28,000,000
Due to Corporate Working Cash Fund	190,000,000	190,000,000	190,000,000	190,000,000
Total Current Liabilities	\$ 227,368,016	\$ 227,368,016	\$ 224,872,559	\$ 224,872,559
Total Liabilities		\$ 227,368,016		\$ 224,872,559
ASSETS APPROPRIABLE FOR 2019 & 2018				
Net Assets Appropriable		\$ 131,296,565		\$ 137,376,200
Budget Reserve		(99,930,065)		(103,261,000)
Net Assets Appropriated		\$ 31,366,500		\$ 34,115,200
Estimated Revenue		345,496,000		336,094,000
Total Assets Appropriable		\$ 376,862,500		\$ 370,209,200
FUND EQUITY				
Undesignated	\$ 130,530,981		\$ 136,746,694	
Total Fund Equity	\$ 130,530,981		\$ 136,746,694	
Total Liabilities & Fund Equity	\$ 357,898,997		\$ 361,619,253	

CAPITAL IMPROVEMENTS BOND FUND
ESTIMATED BALANCE SHEET
JANUARY 1, 2019 AND 2018

	ASSETS			
	2019		2018	
	AMOUNT	AVAILABLE FOR APPROPRIATION	AMOUNT	AVAILABLE FOR APPROPRIATION
CURRENT ASSETS				
Cash & Investments	\$ 232,000,000	\$ 232,000,000	\$ 337,222,198	\$ 337,222,198
Grants Receivable	1,000,000	1,000,000	941,207	941,207
State Revolving Fund Loans Receivable	120,000,000	120,000,000	150,000,000	150,000,000
Total Current Assets	\$ 353,000,000	\$ 353,000,000	\$ 488,163,405	\$ 488,163,405
	LIABILITIES & FUND EQUITY			
CURRENT LIABILITIES				
Unpaid Bills:				
Contractual Services	\$ 74,000,000	\$ 74,000,000	\$ 73,937,199	\$ 73,937,199
Contracts Payable	888,357,685	888,357,685	1,040,318,906	1,040,318,906
Total Current Liabilities	\$ 962,357,685	\$ 962,357,685	\$ 1,114,256,105	\$ 1,114,256,105
Designated for Future Claims Liabilities	—	—	—	—
Total Liabilities & Designations	\$ 962,357,685	\$ 962,357,685	\$ 1,114,256,105	\$ 1,114,256,105
ASSETS APPROPRIABLE				
Net Assets Appropriable		\$ (609,357,685)		\$ (626,092,700)
Net Assets Appropriated		\$ (609,357,685)		\$ (626,092,700)
Estimated Revenue		858,065,585		939,075,600
Total Assets Appropriable		\$ 248,707,900		\$ 312,982,900
FUND EQUITY	\$ (609,357,685)		\$ (626,092,700)	
Total Liabilities & Fund Equity	\$ 353,000,000		\$ 488,163,405	

CAPITAL IMPROVEMENTS BOND FUND
APPROPRIABLE REVENUE
2019 - 2016

REVENUE DESCRIPTION	ESTIMATED			ACTUAL	
	2019 BUDGET	2018 ADJUSTED	2018 BUDGET	2017	2016
Revenue from Money & Property					
Bond Sales (Present & Future)	\$ 721,198,285	\$ —	\$ 776,281,100	\$ —	\$ 125,003,513
Investment Income	7,800,000	5,266,000	3,700,000	3,938,820	2,395,116
Subtotal	\$ 728,998,285	\$ 5,266,000	\$ 779,981,100	\$ 3,938,820	\$ 127,398,629
Revenue from Miscellaneous Sources					
Federal & State Grants	\$ 11,267,300	\$ 11,294,500	\$ 11,294,500	\$ 16,137,198	\$ 11,233,702
State Revolving Fund Loans	120,000,000	150,000,000	150,000,000	168,986,700	173,739,000
Miscellaneous	2,000,000	2,000,000	2,000,000	2,179,586	2,468,262
Subtotal	\$ 133,267,300	\$ 163,294,500	\$ 163,294,500	\$ 187,303,484	\$ 187,440,964
Total Revenue	\$ 862,265,585	\$ 168,560,500	\$ 943,275,600	\$ 191,242,304	\$ 314,839,593
Other Financing Sources (Uses)					
Equity Transfer	\$ (4,200,000)	\$ (4,200,000)	\$ (4,200,000)	\$ (13,000,000)	\$ —
GRAND TOTAL	\$ 858,065,585	\$ 164,360,500	\$ 939,075,600	\$ 178,242,304	\$ 314,839,593

CONSTRUCTION FUND

ESTIMATED BALANCE SHEET

JANUARY 1, 2019 AND 2018

		ASSETS			
		2019		2018	
CURRENT ASSETS		AMOUNT	AVAILABLE FOR APPROPRIATION	AMOUNT	AVAILABLE FOR APPROPRIATION
Cash & Investments		\$ 13,558,000	\$ 13,558,000	\$ 13,926,461	\$ 13,926,461
Taxes Receivable		11,290,500	11,322,000	16,405,000	16,454,139
Replacement Tax		—	—	—	—
Total Current Assets		\$ 24,848,500	\$ 24,880,000	\$ 30,331,461	\$ 30,380,600
		LIABILITIES & FUND EQUITY			
CURRENT LIABILITIES					
Unpaid Bills:					
Contracts Payable		\$ 2,337,700	\$ 2,337,700	\$ 2,340,000	\$ 2,340,000
Contractual Services		350,000	350,000	1,300,000	1,300,000
Machinery & Equipment		—	—	—	—
Due to:					
Construction Working Cash Fund		12,000,000	12,000,000	12,000,000	12,000,000
Total Current Liabilities		\$ 14,687,700	\$ 14,687,700	\$ 15,640,000	\$ 15,640,000
Total Liabilities			\$ 14,687,700		\$ 15,640,000
ASSETS APPROPRIABLE FOR 2019 AND 2018					
Net Assets Appropriable			\$ 10,192,300		\$ 14,740,600
Net Assets Appropriated			\$ 10,192,300		\$ 14,740,600
Estimated Revenue			7,720,000		11,340,000
Total Assets Appropriable			\$ 17,912,300		\$ 26,080,600
FUND EQUITY					
Designated for Future Claims Liabilities		\$ —		\$ —	
Undesignated		10,160,800		14,691,461	
Total Fund Equity		\$ 10,160,800		\$ 14,691,461	
Total Liabilities & Fund Equity		\$ 24,848,500		\$ 30,331,461	

101 11000 - 69000	Fund: Corporate Department: All	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$175,631,950	\$ 187,998,400	\$ 187,653,500	\$ 126,892,065	\$178,532,300	\$188,038,300	\$ 188,038,300
601060	Compensation Plan Adjustments	7,285,145	7,642,200	7,742,200	5,638,269	7,390,000	7,651,400	7,651,400
601070	Social Security and Medicare Contributions	2,602,035	2,762,800	2,762,800	1,955,793	2,835,900	2,805,900	2,805,900
601080	Salaries of Nonbudgeted Employees	64,939	31,900	31,900	—	—	5,300	5,300
601090	Employee Claims	21,969	60,000	74,000	54,634	60,000	60,000	60,000
601100	Tuition and Training Payments	1,028,242	1,139,300	1,149,200	717,928	1,014,700	1,243,400	1,243,400
601250	Health and Life Insurance Premiums	42,900,978	46,455,800	46,441,800	30,517,675	44,636,900	46,804,400	46,804,400
601270	General Salary Adjustments	—	—	—	—	—	1,204,800	1,204,800
601300	Personal Services, N.O.C.	668,566	933,900	933,900	472,382	788,000	788,000	788,000
100	TOTAL PERSONAL SERVICES	230,203,824	247,024,300	246,789,300	166,248,746	235,257,800	248,601,500	248,601,500
612010	Travel	55,863	117,500	117,600	39,670	94,000	105,700	105,700
612030	Meals and Lodging	144,671	221,200	220,600	103,029	187,800	193,700	193,700
612040	Postage, Freight, and Delivery Charges	104,794	93,000	93,500	89,801	112,800	122,900	122,900
612050	Compensation for Personally-Owned Automobiles	150,807	203,600	203,600	101,308	160,800	158,500	158,500
612080	Motor Vehicle Operating Services	69,267	64,800	64,800	58,953	57,100	65,000	65,000
612090	Reprographic Services	123,837	140,900	140,900	136,457	123,400	126,400	126,400
612150	Electrical Energy	36,219,039	38,941,900	38,766,900	24,088,738	35,603,300	34,718,600	36,970,400
612160	Natural Gas	2,954,432	2,820,300	2,995,300	2,038,237	3,075,400	2,970,200	2,970,200
612170	Water and Water Services	1,868,726	1,803,900	1,803,900	1,220,427	1,849,900	2,124,200	2,120,200
612210	Communication Services	1,505,737	2,063,300	2,074,800	1,809,020	1,861,300	1,578,200	1,578,200
612240	Testing and Inspection Services	118,984	276,300	276,300	215,161	209,200	166,700	166,700
612250	Court Reporting Services	76,779	112,000	121,000	109,850	71,000	88,500	88,500
612260	Medical Services	90,281	97,300	103,800	103,360	92,000	121,100	121,100
612280	Subscriptions and Membership Dues	720,582	816,700	816,700	690,537	816,600	865,800	865,800
612290	Insurance Premiums	3,058,107	3,080,300	3,080,300	2,794,444	3,075,300	3,471,100	3,471,100
612330	Rental Charges	472,532	533,000	533,000	511,539	513,300	753,300	753,300
612340	Discount Loss	2,651	1,500	1,500	883	1,500	3,000	3,000
612360	Advertising	94,659	124,000	123,000	97,831	102,000	133,000	133,000
612370	Administration Building Operation	1,014,937	1,015,800	1,178,500	1,178,451	1,154,400	1,313,200	1,313,200
612390	Administration Building McMillan Pavilion Operation	736,741	645,700	733,000	732,213	642,300	782,900	782,900
612410	Governmental Service Charges	3,577,199	3,540,800	3,540,800	2,555,712	3,384,400	3,491,100	3,491,100
612420	Maintenance of Grounds and Pavements	828,992	1,013,500	1,013,500	943,877	906,800	1,430,900	1,430,900

101 11000 - 69000	Fund: Corporate Department: All	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
612430	Payments for Professional Services	3,044,450	5,221,000	5,205,400	3,902,482	3,578,000	4,594,500	4,594,500
612440	Preliminary Engineering Reports and Studies	13,440	—	—	—	—	—	—
612490	Contractual Services, N.O.C.	1,092,951	1,705,600	1,529,700	1,193,674	1,270,100	1,618,000	1,618,000
612520	Waste Material Disposal Charges	10,284,686	10,894,000	10,872,900	10,860,911	9,724,000	10,926,400	10,823,400
612530	Farming Services	24,700	24,700	24,700	20,000	20,000	154,700	34,700
612590	Sludge Disposal	3,600,138	3,700,000	3,700,000	3,700,000	3,669,600	6,193,300	4,100,000
612600	Repairs to Collection Facilities	3,075,735	3,249,300	3,225,700	3,010,736	2,874,600	3,486,100	3,486,100
612620	Repairs to Waterway Facilities	86,663	89,900	89,900	87,632	87,700	119,000	119,000
612650	Repairs to Process Facilities	4,648,489	5,528,900	5,518,900	5,391,527	5,024,200	5,582,800	5,582,800
612670	Repairs to Railroads	266,937	368,700	322,500	299,986	310,000	266,900	266,900
612680	Repairs to Buildings	637,081	1,092,100	1,103,600	979,312	897,200	1,134,700	1,659,700
612760	Repairs to Material Handling and Farming Equipment	280,002	313,600	313,600	302,106	294,000	315,900	315,900
612780	Safety Repairs and Services	340,819	459,500	459,500	402,007	356,700	442,000	442,000
612790	Repairs to Marine Equipment	80,328	94,600	94,600	93,358	46,900	89,000	89,000
612800	Repairs to Office Furniture and Equipment	91,871	124,300	124,900	124,022	114,200	54,500	54,500
612810	Computer Equipment Maintenance	237,365	364,200	334,200	182,785	187,800	340,100	340,100
612820	Computer Software Maintenance	3,844,881	4,224,400	4,226,200	3,930,898	3,822,200	4,311,200	4,341,200
612840	Communications Equipment Maintenance (Includes Software)	701,834	758,700	784,200	778,544	769,600	800,500	800,500
612860	Repairs to Vehicle Equipment	507,702	611,100	655,900	612,154	549,100	588,200	588,200
612970	Repairs to Testing and Laboratory Equipment	353,884	356,500	356,500	345,250	296,300	396,800	396,800
612990	Repairs, N.O.C.	16,775	33,800	33,800	28,232	26,100	38,000	38,000
200	TOTAL CONTRACTUAL SERVICES	87,220,346	96,942,200	96,980,000	75,865,112	88,012,900	96,236,600	96,723,100
623030	Metals	150,296	139,300	132,300	89,989	128,500	134,800	134,800
623070	Electrical Parts and Supplies	2,061,270	2,327,800	2,901,800	2,683,667	2,561,000	2,950,100	3,047,100
623090	Plumbing Accessories and Supplies	837,421	1,135,700	1,127,100	935,600	1,076,600	1,174,800	1,178,800
623110	Hardware	110,328	102,200	102,200	86,359	95,700	104,100	104,100
623130	Buildings, Grounds, Paving Materials, and Supplies	428,907	629,300	586,100	412,533	596,100	504,800	504,800
623170	Fiber, Paper, and Insulation Materials	51,955	52,100	52,100	48,353	47,800	53,800	53,800
623190	Paints, Solvents, and Related Materials	55,995	57,900	57,900	46,263	55,400	64,300	64,300
623250	Vehicle Parts and Supplies	177,464	161,700	177,300	175,411	160,800	178,400	178,400
623270	Mechanical Repair Parts	2,398,403	2,691,600	3,805,400	3,651,820	3,617,900	4,060,600	4,060,600

101 11000 - 69000	Fund: Corporate Department: All	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
623300	Manhole Materials	10,266	6,900	6,900	6,045	6,600	25,000	25,000
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	316,659	367,000	368,000	329,899	336,500	360,300	360,300
623530	Farming Supplies	38,338	41,700	41,700	29,872	26,600	32,000	32,000
623560	Processing Chemicals	9,134,723	12,878,200	11,169,200	11,022,334	10,142,700	12,445,500	12,445,500
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	992,092	988,200	1,024,500	912,773	930,500	1,065,600	1,068,600
623660	Cleaning Supplies	297,967	266,300	268,800	199,959	258,600	269,400	269,400
623680	Tools and Supplies	478,341	293,300	294,300	279,832	279,500	352,600	355,600
623700	Wearing Apparel	219,987	191,600	200,700	175,404	182,700	243,600	245,100
623720	Books, Maps, and Charts	16,504	20,900	23,000	17,013	16,500	20,100	20,100
623780	Safety and Medical Supplies	226,466	363,600	361,100	197,814	310,400	291,500	291,500
623800	Computer Software	80,645	143,100	197,300	139,816	147,700	138,800	138,800
623810	Computer Supplies	488,286	519,600	519,600	460,251	479,800	765,800	765,800
623820	Fuel	448,396	614,000	635,200	547,242	606,600	616,000	616,000
623840	Gases	76,620	71,200	71,200	64,554	66,000	85,700	85,700
623850	Communications Supplies	97,557	134,200	164,200	159,154	118,100	219,500	219,500
623860	Lubricants	234,253	247,500	245,000	138,207	224,000	234,100	234,100
623990	Materials and Supplies, N.O.C.	269,397	315,100	316,100	279,516	291,400	285,700	285,700
300	TOTAL MATERIALS AND SUPPLIES	19,698,534	24,760,000	24,849,000	23,089,680	22,764,000	26,676,900	26,785,400
634600	Equipment for Collection Facilities	45,129	44,200	44,200	44,118	43,600	60,000	60,000
634650	Equipment for Process Facilities	108,984	178,400	237,600	215,264	243,800	166,700	186,700
634760	Material Handling and Farming Equipment	—	—	11,900	11,627	—	454,200	504,200
634790	Marine Equipment	—	—	—	—	—	80,000	80,000
634810	Computer Equipment	36,706	—	7,100	6,920	7,000	312,000	202,000
634820	Computer Software	—	55,000	25,000	14,200	14,200	182,000	207,000
634840	Communications Equipment (Includes Software)	—	—	—	—	—	16,500	16,500
634860	Vehicle Equipment	—	—	—	—	—	2,099,000	2,099,000
634970	Testing and Laboratory Equipment	424,452	315,100	363,100	359,046	309,900	394,300	394,300
634990	Machinery and Equipment, N.O.C.	—	—	12,000	11,225	12,000	130,800	130,800
400	TOTAL MACHINERY AND EQUIPMENT	615,271	592,700	700,900	662,400	630,500	3,895,500	3,880,500
645680	Buildings	—	—	—	—	—	642,000	117,000
500	TOTAL CAPITAL PROJECTS	—	—	—	—	—	642,000	117,000

101 11000 - 69000	Fund: Corporate Department: All	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
667130	Taxes on Real Estate	686,083	890,000	890,000	683,013	710,000	755,000	755,000
700	TOTAL FIXED AND OTHER CHARGES	686,083	890,000	890,000	683,013	710,000	755,000	755,000
TOTAL CORPORATE FUND		\$338,424,057	\$ 370,209,200	\$ 370,209,200	\$ 266,548,952	\$347,375,200	\$376,807,500	\$ 376,862,500
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.								

101 11000	Fund: Corporate Department: Board of Commissioners	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 3,421,654	\$ 3,682,100	\$ 3,682,100	\$ 2,413,355	\$ 3,456,200	\$ 3,716,000	\$ 3,716,000
601060	Compensation Plan Adjustments	10,968	38,600	38,600	21,122	30,800	61,800	61,800
601070	Social Security and Medicare Contributions	76,680	85,500	85,500	56,640	84,200	86,900	86,900
601100	Tuition and Training Payments	16,233	15,100	15,100	11,081	15,100	20,100	20,100
601300	Personal Services, N.O.C.	309,316	428,000	428,000	232,664	428,000	428,000	428,000
100	TOTAL PERSONAL SERVICES	3,834,851	4,249,300	4,249,300	2,734,861	4,014,300	4,312,800	4,312,800
612010	Travel	8,345	20,100	20,100	5,842	20,100	19,700	19,700
612030	Meals and Lodging	9,777	30,300	30,300	8,807	30,300	21,700	21,700
612280	Subscriptions and Membership Dues	34,802	38,600	38,600	38,600	38,600	27,700	27,700
612430	Payments for Professional Services	178,572	800,900	800,900	267,789	500,900	858,800	858,800
612490	Contractual Services, N.O.C.	435	500	500	435	500	500	500
200	TOTAL CONTRACTUAL SERVICES	231,930	890,400	890,400	321,473	590,400	928,400	928,400
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	6,201	5,500	5,500	4,352	5,500	25,500	25,500
300	TOTAL MATERIALS AND SUPPLIES	6,201	5,500	5,500	4,352	5,500	25,500	25,500
TOTAL BOARD OF COMMISSIONERS		\$ 4,072,982	\$ 5,145,200	\$ 5,145,200	\$ 3,060,686	\$ 4,610,200	\$ 5,266,700	\$ 5,266,700
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.								

101 15000	Fund: Corporate Department: General Administration	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 10,214,862	\$ 10,863,500	\$ 10,728,500	\$ 7,454,476	\$ 10,457,900	\$ 10,917,700	\$ 10,917,700
601060	Compensation Plan Adjustments	781,971	840,000	740,000	429,155	553,300	664,600	664,600
601070	Social Security and Medicare Contributions	154,459	154,400	154,400	113,592	168,100	160,300	160,300
601080	Salaries of Nonbudgeted Employees	1,248	—	—	—	—	—	—
601100	Tuition and Training Payments	80,968	37,700	37,700	13,435	18,100	33,000	33,000
601270	General Salary Adjustments	—	—	—	—	—	1,204,800	1,204,800
100	TOTAL PERSONAL SERVICES	11,233,507	11,895,600	11,660,600	8,010,658	11,197,400	12,980,400	12,980,400
612010	Travel	7,777	7,200	7,200	3,756	8,400	10,000	10,000
612030	Meals and Lodging	12,433	11,000	11,000	5,591	13,700	17,200	17,200
612040	Postage, Freight, and Delivery Charges	97,267	84,800	84,800	81,559	106,100	109,700	109,700
612050	Compensation for Personally- Owned Automobiles	1,928	3,000	3,000	1,900	2,600	3,700	3,700
612080	Motor Vehicle Operating Services	68,058	62,700	62,700	58,161	55,600	62,700	62,700
612090	Reprographic Services	116,109	118,000	118,000	115,597	113,600	103,400	103,400
612150	Electrical Energy	318,240	340,000	340,000	195,078	336,100	325,200	325,200
612160	Natural Gas	25,934	24,000	24,000	14,490	22,800	24,900	24,900
612170	Water and Water Services	5,492	5,200	5,200	4,335	6,300	6,500	6,500
612210	Communication Services	3,000	3,000	3,000	3,000	3,000	3,000	3,000
612280	Subscriptions and Membership Dues	685,780	778,100	778,100	651,937	778,000	838,100	838,100
612330	Rental Charges	14,010	8,700	8,700	8,376	8,600	93,500	93,500
612360	Advertising	12,417	13,000	13,000	960	12,000	13,000	13,000
612370	Administration Building Operation	1,014,937	1,015,800	1,178,500	1,178,451	1,154,400	1,313,200	1,313,200
612390	Administration Building McMillan Pavilion Operation	736,741	645,700	733,000	732,213	642,300	782,900	782,900
612430	Payments for Professional Services	407,640	474,000	474,000	421,775	399,000	324,000	324,000
612490	Contractual Services, N.O.C.	235,074	428,300	362,000	309,169	337,600	331,800	331,800
612680	Repairs to Buildings	21,557	26,500	26,500	9,500	8,000	41,300	566,300
612800	Repairs to Office Furniture and Equipment	90,251	118,200	118,200	117,400	108,000	47,900	47,900
612840	Communications Equipment Maintenance (Includes Software)	17,784	17,800	42,800	42,784	37,800	22,800	22,800
612860	Repairs to Vehicle Equipment	383,733	437,100	481,900	447,595	404,000	440,500	440,500
200	TOTAL CONTRACTUAL SERVICES	4,276,163	4,622,100	4,875,600	4,403,627	4,557,900	4,915,300	5,440,300
623070	Electrical Parts and Supplies	9,275	7,600	7,600	7,600	5,500	8,600	8,600

101 15000	Fund: Corporate Department: General Administration	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
623090	Plumbing Accessories and Supplies	11,869	7,500	7,500	7,500	7,400	8,500	8,500
623110	Hardware	16,618	14,400	14,400	14,400	14,300	16,000	16,000
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	111,618	115,100	114,500	110,784	114,500	136,600	136,600
623660	Cleaning Supplies	997	1,300	1,300	1,000	1,200	1,300	1,300
623700	Wearing Apparel	24,201	28,400	35,500	35,401	19,300	53,400	53,400
623720	Books, Maps, and Charts	497	500	500	44	400	1,000	1,000
623850	Communications Supplies	—	—	—	—	—	25,000	25,000
623990	Materials and Supplies, N.O.C.	44,679	32,900	32,900	32,574	30,000	52,000	52,000
300	TOTAL MATERIALS AND SUPPLIES	219,753	207,700	214,200	209,303	192,600	302,400	302,400
634860	Vehicle Equipment	—	—	—	—	—	900,000	900,000
634990	Machinery and Equipment, N.O.C.	—	—	—	—	—	94,800	94,800
400	TOTAL MACHINERY AND EQUIPMENT	—	—	—	—	—	994,800	994,800
645680	Buildings	—	—	—	—	—	525,000	—
500	TOTAL CAPITAL PROJECTS	—	—	—	—	—	525,000	—
TOTAL GENERAL ADMINISTRATION		\$ 15,729,423	\$ 16,725,400	\$ 16,750,400	\$ 12,623,588	\$ 15,947,900	\$ 19,717,900	\$ 19,717,900
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.								

101 16000	Fund: Corporate Department: Monitoring & Research	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 26,103,909	\$ 29,031,800	\$ 29,031,800	\$ 18,968,175	\$ 26,518,100	\$ 28,065,000	\$ 28,065,000
601060	Compensation Plan Adjustments	803,658	644,200	644,200	598,842	644,200	779,900	779,900
601070	Social Security and Medicare Contributions	367,913	414,800	414,800	275,164	405,000	402,600	402,600
601080	Salaries of Nonbudgeted Employees	56,764	2,000	2,000	—	—	—	—
601100	Tuition and Training Payments	66,481	58,100	58,100	41,876	52,300	77,700	77,700
100	TOTAL PERSONAL SERVICES	27,398,725	30,150,900	30,150,900	19,884,056	27,619,600	29,325,200	29,325,200
612010	Travel	10,231	22,000	22,000	8,941	16,000	18,000	18,000
612030	Meals and Lodging	27,053	34,700	34,700	22,968	31,000	39,700	39,700
612040	Postage, Freight, and Delivery Charges	5,394	4,400	4,400	4,370	3,700	8,700	8,700
612050	Compensation for Personally-Owned Automobiles	25,773	27,300	27,300	17,671	22,000	27,400	27,400
612080	Motor Vehicle Operating Services	346	800	800	411	500	300	300
612090	Reprographic Services	—	100	100	—	—	—	—
612170	Water and Water Services	413	400	400	400	400	—	—
612330	Rental Charges	900	2,300	2,300	—	100	1,300	1,300
612410	Governmental Service Charges	17,000	67,000	67,000	13,600	17,000	17,000	17,000
612430	Payments for Professional Services	92,591	102,900	102,900	81,008	30,900	102,400	102,400
612490	Contractual Services, N.O.C.	233,583	319,900	279,900	214,123	134,300	365,600	365,600
612790	Repairs to Marine Equipment	26,643	29,600	29,600	28,358	13,400	24,000	24,000
612970	Repairs to Testing and Laboratory Equipment	352,192	353,500	353,500	342,268	293,400	391,800	391,800
200	TOTAL CONTRACTUAL SERVICES	792,118	964,900	924,900	734,118	562,700	996,200	996,200
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	23,683	30,100	31,800	26,428	27,100	30,000	30,000
623530	Farming Supplies	33,727	38,000	38,000	26,472	23,200	28,000	28,000
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	348,277	354,900	351,200	308,236	300,400	415,000	415,000
623700	Wearing Apparel	15,193	10,200	12,200	11,589	10,700	12,600	12,600
623720	Books, Maps, and Charts	2,320	600	600	450	600	600	600
623810	Computer Supplies	—	2,400	2,400	2,054	2,300	500	500
623820	Fuel	11,909	9,400	9,400	9,296	9,000	13,400	13,400
623990	Materials and Supplies, N.O.C.	44,676	37,200	37,200	34,788	30,100	37,600	37,600
300	TOTAL MATERIALS AND SUPPLIES	479,785	482,800	482,800	419,313	403,400	537,700	537,700

101 16000	Fund: Corporate Department: Monitoring & Research	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
634970	Testing and Laboratory Equipment	418,714	290,100	330,100	328,143	272,000	394,300	394,300
400	TOTAL MACHINERY AND EQUIPMENT	418,714	290,100	330,100	328,143	272,000	394,300	394,300
TOTAL MONITORING & RESEARCH		\$ 29,089,342	\$ 31,888,700	\$ 31,888,700	\$ 21,365,630	\$ 28,857,700	\$ 31,253,400	\$ 31,253,400
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.								

Fund: Corporate Dept: Monitoring & Research		POSITION ANALYSIS				
		2017	2018		2019	
					RECOMMENDED BY COMMITTEE ON BUDGET / EMPLOYMENT	
PAY PLAN & GRADE	CLASS TITLE	ACTUAL FTEs	BUDGETED FTEs	APPROPRIATION IN DOLLARS	BUDGETED FTEs	APPROPRIATION IN DOLLARS
110	Executive Division					
111	Executive Section					
EX11	Director of Monitoring & Research	1	1		1	
EX06	Secretary to Officer	1	1		1	
HP12	Secretary #2 (Administrative Specialist) (New Grade HP11)	—	—		1	
HP11	Administrative Specialist	1	1		—	
TOTAL	Executive Section	3	3	427,449.88	3	451,170.72
112	Budget & Administrative Section					
HP23	Deputy Director of Monitoring & Research	1	—		—	
HP22	Assistant Director of Monitoring & Research	—	1		1	
HP18	Supervising Budget & Management Analyst	1	1		1	
HP17	Management Analyst III #2 (Senior Budget & Management Analyst) (New Grade HP16)	1	—		—	
HP16	Senior Budget & Management Analyst	—	1		1	
HP14	Budget & Management Analyst	2	2		2	
HP11	Administrative Specialist	1	1		1	
TOTAL	Budget & Administrative Section	6	6	744,084.92	6	735,993.46
TOTAL	Executive Division	9	9	1,171,534.80	9	1,187,164.18
120	Environmental Monitoring & Research Division					
121	Environmental Monitoring & Research Administrative Section					
HP22	Assistant Director of Monitoring & Research	1	1		1	
HP20	Environmental Monitoring & Research Manager	1	1		1	
HP20	Managing Civil Engineer	1	1		1	
HP18	Biostatistician	1	1		1	
HP18	Principal Environmental Scientist	—	2		2	
HP15	Associate Civil Engineer	1	1		1	
HP13	Senior Administrative Specialist	1	2		2	
HP11	Administrative Specialist	2	4		4	
TOTAL	Environmental Monitoring & Research Administrative Section	8	13	1,503,580.86	13	1,555,250.83

Fund: Corporate Dept: Monitoring & Research		POSITION ANALYSIS				
		2017	2018		2019	
					RECOMMENDED BY COMMITTEE ON BUDGET / EMPLOYMENT	
PAY PLAN & GRADE	CLASS TITLE	ACTUAL FTEs	BUDGETED FTEs	APPROPRIATION IN DOLLARS	BUDGETED FTEs	APPROPRIATION IN DOLLARS
122	Wastewater Treatment Process Research Section					
HP18	Principal Environmental Scientist	—	1		1	
HP18	Supervising Environmental Research Scientist	1	—		—	
HP17	Senior Environmental Research Scientist	3	3		3	
HP15	Environmental Research Scientist	3	3		3	
HP13	Senior Environmental Research Technician	1	1		1	
HP11	Administrative Specialist	1	—		—	
HP11	Environmental Research Technician	2	6		6	
HP11	Laboratory Technician II	3	—		1	
HP11	Laboratory Technician II #2 (Environmental Research Technician)	1	—		—	
HP10	Laboratory Technician I	1	1		—	
HP10	Laboratory Technician I #1	—	—		1	
TOTAL	Wastewater Treatment Process Research Section	16	15	1,375,438.88	16	1,391,154.21
123	Biosolids Utilization & Soil Science Section					
HP18	Principal Environmental Scientist	—	1		1	
HP18	Supervising Environmental Soil Scientist	1	—		—	
HP17	Senior Environmental Soil Scientist	2	2		2	
HP15	Environmental Soil Scientist	3	3		3	
HP15	Environmental Chemist	1	1		1	
HP14	Assistant Environmental Chemist #1	1	—		—	
HP11	Administrative Specialist	1	—		—	
HP11	Environmental Research Technician	3	5		5	
HP11	Laboratory Technician II	1	—		—	
HP11	Laboratory Technician II #2 (Environmental Research Technician)	1	—		—	
HP09	Laboratory Assistant	1	1		1	
TOTAL	Biosolids Utilization & Soil Science Section	15	13	1,152,902.63	13	1,172,459.59
124	Analytical Microbiology & Biomonitoring Section					
HP18	Principal Environmental Scientist	—	1		1	
HP18	Supervising Environmental Microbiologist	1	—		—	

Fund: Corporate Dept: Monitoring & Research		POSITION ANALYSIS				
		2017	2018		2019	
					RECOMMENDED BY COMMITTEE ON BUDGET / EMPLOYMENT	
PAY PLAN & GRADE	CLASS TITLE	ACTUAL FTEs	BUDGETED FTEs	APPROPRIATION IN DOLLARS	BUDGETED FTEs	APPROPRIATION IN DOLLARS
HP17	Senior Environmental Microbiologist	1	1		1	
HP16	Associate Environmental Microbiologist #2 (Environmental Microbiologist) (New Grade HP15)	1	1		1	
HP15	Environmental Microbiologist	1	1		1	
HP14	Assistant Environmental Microbiologist #1	1	—		—	
HP13	Senior Laboratory Technician	1	1		1	
HP11	Administrative Specialist	1	—		—	
HP11	Laboratory Technician II	5	7		8	
HP11	Laboratory Technician II #4	2	1		—	
HP09	Laboratory Assistant	2	2		2	
TOTAL	Analytical Microbiology & Biomonitoring Section	16	15	1,187,727.68	15	1,198,504.59
126	Aquatic Ecology & Water Quality Section					
HP18	Principal Environmental Scientist	—	1		1	
HP18	Supervising Aquatic Biologist	1	—		—	
HP17	Senior Aquatic Biologist	1	1		1	
HP16	Associate Aquatic Biologist #2 (Aquatic Biologist) (New Grade HP15)	2	2		2	
HP15	Aquatic Biologist	—	1		1	
HP14	Assistant Aquatic Biologist #1	1	1		—	
HP13	Senior Environmental Research Technician	1	1		1	
HP11	Environmental Research Technician	1	5		5	
HP11	Laboratory Technician II	2	—		—	
HP11	Laboratory Technician II #2 (Environmental Research Technician)	2	—		—	
NR6441	Patrol Boat Operator	2	2		2	
NR3642	Pollution Control Technician II	2	2		2	
NR3641	Pollution Control Technician I	4	4		4	
TOTAL	Aquatic Ecology & Water Quality Section	19	20	1,638,512.80	19	1,585,566.86
129	Process Facilities Capital Planning Section					
HP18	Principal Civil Engineer	1	1		1	
HP17	Senior Civil Engineer	2	2		2	

Fund: Corporate Dept: Monitoring & Research		POSITION ANALYSIS				
		2017	2018		2019	
					RECOMMENDED BY COMMITTEE ON BUDGET / EMPLOYMENT	
PAY PLAN & GRADE	CLASS TITLE	ACTUAL FTEs	BUDGETED FTEs	APPROPRIATION IN DOLLARS	BUDGETED FTEs	APPROPRIATION IN DOLLARS
HP17	Senior Electrical Engineer	1	1		—	
HP17	Senior Environmental Research Scientist	2	2		3	
HP17	Senior Mechanical Engineer	2	2		1	
HP15	Associate Civil Engineer	2	2		1	
HP15	Associate Electrical Engineer	2	2		—	
HP15	Environmental Research Scientist	2	2		2	
HP15	Associate Mechanical Engineer	3	2		1	
TOTAL	Process Facilities Capital Planning Section	17	16	1,853,698.65	11	1,290,384.68
TOTAL	Environmental Monitoring & Research Division	91	92	8,711,861.50	87	8,193,320.76
160	Analytical Laboratories Division					
161	Analytical Laboratories Administrative Section					
HP22	Assistant Director of Monitoring & Research	1	1		1	
HP18	Supervising Environmental Chemist	1	1		1	
HP17	Senior Environmental Chemist	1	1		1	
HP17	Senior Environmental Chemist #1	—	1		—	
HP15	Environmental Chemist	1	2		2	
HP13	Senior Administrative Specialist	1	1		2	
HP12	Administrative Assistant #2 (Administrative Specialist) (New Grade HP11)	1	—		—	
HP11	Administrative Specialist	—	1		—	
TOTAL	Analytical Laboratories Administrative Section	6	8	980,126.96	7	845,410.53
162	Stickney Analytical Laboratory Section					
HP18	Supervising Environmental Chemist	1	1		1	
HP17	Senior Environmental Chemist	1	2		2	
HP15	Environmental Chemist	6	5		4	
HP14	Assistant Environmental Chemist #1	1	—		—	
HP13	Senior Laboratory Technician	3	3		3	
HP11	Administrative Specialist	1	1		1	
HP11	Laboratory Technician II	9	9		11	

Fund: Corporate Dept: Monitoring & Research		POSITION ANALYSIS				
		2017	2018		2019	
					RECOMMENDED BY COMMITTEE ON BUDGET / EMPLOYMENT	
PAY PLAN & GRADE	CLASS TITLE	ACTUAL FTEs	BUDGETED FTEs	APPROPRIATION IN DOLLARS	BUDGETED FTEs	APPROPRIATION IN DOLLARS
HP10	Laboratory Technician I	2	2		—	
HP10	Laboratory Technician I #1	—	—		2	
HP09	Laboratory Assistant	3	3		3	
TOTAL	Stickney Analytical Laboratory Section	27	26	2,034,613.08	27	2,091,013.06
164	Industrial Waste Analytical Laboratory Section					
HP18	Supervising Environmental Chemist	1	1		1	
HP17	Senior Environmental Chemist	1	2		2	
HP15	Environmental Chemist	4	5		4	
HP14	Assistant Environmental Chemist #1	1	1		—	
HP13	Senior Laboratory Technician	3	3		3	
HP11	Laboratory Technician II	13	12		10	
HP09	Laboratory Assistant	1	1		1	
TOTAL	Industrial Waste Analytical Laboratory Section	24	25	2,116,039.97	21	1,823,596.84
165	Organic Compounds Analytical Laboratory Section					
HP18	Supervising Instrumentation Chemist	1	1		1	
HP17	Senior Instrumentation Chemist	2	2		2	
HP16	Instrumentation Chemist II #2 (Instrumentation Chemist) (New Grade HP15)	2	2		2	
HP15	Instrumentation Chemist	2	2		2	
HP13	Senior Laboratory Technician	1	1		1	
HP11	Laboratory Technician II	2	2		3	
TOTAL	Organic Compounds Analytical Laboratory Section	10	10	1,118,452.68	11	1,160,991.24
166	Egan Analytical Laboratory Section					
HP18	Supervising Environmental Chemist	1	1		1	
HP17	Senior Environmental Chemist	1	2		2	
HP15	Environmental Chemist	3	4		3	
HP14	Assistant Environmental Chemist #1	2	1		1	
HP13	Senior Laboratory Technician	2	2		2	
HP13	Senior Laboratory Technician #1	—	1		—	

Fund: Corporate Dept: Monitoring & Research		POSITION ANALYSIS				
		2017	2018		2019	
					RECOMMENDED BY COMMITTEE ON BUDGET / EMPLOYMENT	
PAY PLAN & GRADE	CLASS TITLE	ACTUAL FTEs	BUDGETED FTEs	APPROPRIATION IN DOLLARS	BUDGETED FTEs	APPROPRIATION IN DOLLARS
HP12	Administrative Assistant #2 (Administrative Specialist) (New Grade HP11)	1	1		1	
HP11	Laboratory Technician II	6	6		8	
HP11	Laboratory Technician II #4	1	1		1	
HP10	Laboratory Technician I	1	1		—	
HP09	Laboratory Assistant	2	2		2	
TOTAL	Egan Analytical Laboratory Section	20	22	1,868,973.95	21	1,726,849.78
167	Calumet Analytical Laboratory Section					
HP18	Supervising Environmental Chemist	1	1		1	
HP17	Senior Environmental Chemist	1	2		2	
HP15	Environmental Chemist	4	4		3	
HP13	Senior Laboratory Technician	2	2		2	
HP12	Administrative Assistant #2 (Administrative Specialist) (New Grade HP11)	1	1		1	
HP11	Laboratory Technician II	7	7		7	
HP10	Laboratory Technician I #1	1	—		—	
HP09	Laboratory Assistant	2	2		2	
TOTAL	Calumet Analytical Laboratory Section	19	19	1,625,614.51	18	1,521,609.38
TOTAL	Analytical Laboratories Division	106	110	9,743,821.15	105	9,169,470.83
190	Industrial Waste Division					
191	Industrial Waste Administrative Section					
HP22	Assistant Director of Monitoring & Research	1	1		1	
HP11	Administrative Specialist	1	1		1	
TOTAL	Industrial Waste Administrative Section	2	2	301,142.29	2	301,142.14
192	Technical Services Section					
HP18	Supervising Environmental Specialist	—	1		1	
HP17	Senior Environmental Specialist	1	1		1	
HP15	Environmental Specialist	2	2		2	
TOTAL	Technical Services Section	3	4	475,962.39	4	475,962.49

Fund: Corporate Dept: Monitoring & Research		POSITION ANALYSIS				
		2017	2018		2019	
					RECOMMENDED BY COMMITTEE ON BUDGET / EMPLOYMENT	
PAY PLAN & GRADE	CLASS TITLE	ACTUAL FTEs	BUDGETED FTEs	APPROPRIATION IN DOLLARS	BUDGETED FTEs	APPROPRIATION IN DOLLARS
193	Pretreatment & Cost Recovery Section					
HP18	Supervising Environmental Specialist	2	2		2	
HP17	Senior Civil Engineer	1	1		1	
HP17	Senior Environmental Specialist	3	3		3	
HP15	Associate Civil Engineer	7	7		7	
HP15	Associate Mechanical Engineer #2 (Associate Civil Engineer)	1	1		1	
HP15	Environmental Specialist	16	16		16	
HP12	Secretary #2 (Administrative Specialist) (New Grade HP11)	1	1		—	
HP11	Administrative Specialist	2	2		3	
HP09	Administrative Clerk	2	2		2	
TOTAL	Pretreatment & Cost Recovery Section	35	35	3,597,481.48	35	3,582,816.99
194	Field Services Section					
HP18	Supervising Environmental Specialist	1	1		1	
HP17	Senior Environmental Specialist	5	5		5	
HP15	Environmental Specialist	29	29		29	
HP13	Senior Administrative Specialist	1	1		1	
HP11	Administrative Specialist	1	1		1	
NR3642	Pollution Control Technician II	1	2		2	
NR3641	Pollution Control Technician I	21	21		21	
TOTAL	Field Services Section	59	60	5,519,055.38	60	5,486,537.73
TOTAL	Industrial Waste Division	99	101	9,893,641.54	101	9,846,459.35
TOTAL	Monitoring & Research	305	312	29,520,858.99	302	28,396,415.12
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.						

101 20000	Fund: Corporate Department: Procurement & Materials Management	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 5,118,659	\$ 5,590,700	\$ 5,590,700	\$ 3,747,144	\$ 5,285,600	\$ 5,686,900	\$ 5,686,900
601060	Compensation Plan Adjustments	62,538	123,900	123,900	55,516	70,000	74,600	74,600
601070	Social Security and Medicare Contributions	72,353	80,700	80,700	54,619	80,300	82,900	82,900
601100	Tuition and Training Payments	596	1,600	1,600	1,140	200	600	600
100	TOTAL PERSONAL SERVICES	5,254,146	5,796,900	5,796,900	3,858,419	5,436,100	5,845,000	5,845,000
612010	Travel	—	1,500	1,500	535	1,000	1,500	1,500
612030	Meals and Lodging	245	2,000	1,500	871	1,000	800	800
612050	Compensation for Personally-Owned Automobiles	1,146	1,900	1,900	394	600	1,100	1,100
612360	Advertising	82,243	111,000	110,000	96,871	90,000	120,000	120,000
612430	Payments for Professional Services	—	—	—	—	—	15,000	15,000
612490	Contractual Services, N.O.C.	—	—	500	415	500	—	—
612680	Repairs to Buildings	3,424	6,500	6,500	5,147	6,500	8,400	8,400
612800	Repairs to Office Furniture and Equipment	1,621	1,200	1,700	1,700	1,200	1,600	1,600
612840	Communications Equipment Maintenance (Includes Software)	—	—	500	400	—	—	—
612860	Repairs to Vehicle Equipment	8,983	7,700	7,700	7,049	6,700	7,100	7,100
200	TOTAL CONTRACTUAL SERVICES	97,662	131,800	131,800	113,382	107,500	155,500	155,500
623030	Metals	122,624	103,700	96,700	59,535	100,700	104,300	104,300
623070	Electrical Parts and Supplies	300,921	313,300	313,300	193,860	308,300	303,100	303,100
623090	Plumbing Accessories and Supplies	305,075	342,600	342,600	261,819	337,600	342,500	342,500
623110	Hardware	78,287	79,800	79,800	64,233	74,800	79,800	79,800
623130	Buildings, Grounds, Paving Materials, and Supplies	303,267	456,500	413,300	272,500	446,500	356,500	356,500
623170	Fiber, Paper, and Insulation Materials	46,410	42,200	42,200	39,053	39,200	42,700	42,700
623190	Paints, Solvents, and Related Materials	51,131	51,300	51,300	39,973	49,000	51,300	51,300
623250	Vehicle Parts and Supplies	9,376	10,500	12,500	11,551	10,000	10,400	10,400
623270	Mechanical Repair Parts	195,315	237,500	237,500	183,664	236,000	237,500	237,500
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	14,457	11,100	12,600	11,981	10,000	15,000	15,000
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	620,673	607,700	647,700	585,488	607,700	625,000	625,000
623660	Cleaning Supplies	293,194	263,300	263,300	196,058	253,300	265,900	265,900
623680	Tools and Supplies	98,540	73,000	78,000	72,855	73,000	100,000	100,000

101 20000	Fund: Corporate Department: Procurement & Materials Management	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
623700	Wearing Apparel	172,487	145,200	145,200	121,376	145,200	175,000	175,000
623780	Safety and Medical Supplies	88,223	100,000	100,000	51,722	86,000	71,300	71,300
623810	Computer Supplies	66,910	48,000	48,000	28,698	43,300	40,000	40,000
623820	Fuel	181,152	265,900	265,900	180,789	255,900	285,000	285,000
623840	Gases	75,779	70,100	70,100	63,833	65,100	85,100	85,100
623850	Communications Supplies	7,755	8,100	8,100	3,961	7,100	7,400	7,400
623860	Lubricants	227,260	226,100	226,100	131,090	211,100	226,400	226,400
623990	Materials and Supplies, N.O.C.	116,537	52,100	52,100	42,770	52,000	72,200	72,200
300	TOTAL MATERIALS AND SUPPLIES	3,375,374	3,508,000	3,506,300	2,616,808	3,411,800	3,496,400	3,496,400
634650	Equipment for Process Facilities	—	30,000	19,800	19,752	26,000	—	—
634760	Material Handling and Farming Equipment	—	—	11,900	11,627	—	117,200	117,200
634810	Computer Equipment	—	—	—	—	—	55,000	55,000
400	TOTAL MATERIALS AND SUPPLIES	—	30,000	31,700	31,379	26,000	172,200	172,200
645680	Buildings	—	—	—	—	—	117,000	117,000
500	TOTAL CAPITAL PROJECTS	—	—	—	—	—	117,000	117,000
TOTAL PROCUREMENT & MATERIALS MANAGEMENT		\$ 8,727,182	\$ 9,466,700	\$ 9,466,700	\$ 6,619,988	\$ 8,981,400	\$ 9,786,100	\$ 9,786,100
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.								

101 25000	Fund: Corporate Department: Human Resources	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 5,591,181	\$ 6,489,600	\$ 6,489,600	\$ 3,994,897	\$ 5,481,900	\$ 6,709,300	\$ 6,709,300
601060	Compensation Plan Adjustments	199,621	213,700	213,700	106,899	145,600	314,600	314,600
601070	Social Security and Medicare Contributions	114,787	133,600	133,600	100,526	110,100	138,500	138,500
601090	Employee Claims	21,969	60,000	74,000	54,634	60,000	60,000	60,000
601100	Tuition and Training Payments	492,329	553,600	553,600	402,874	544,000	709,800	709,800
601250	Health and Life Insurance Premiums	42,900,978	46,455,800	46,441,800	30,517,675	44,636,900	46,804,400	46,804,400
601300	Personal Services, N.O.C.	359,250	505,900	505,900	239,718	360,000	360,000	360,000
100	TOTAL PERSONAL SERVICES	49,680,114	54,412,200	54,412,200	35,417,224	51,338,500	55,096,600	55,096,600
612010	Travel	2,478	5,800	5,800	2,301	5,000	5,200	5,200
612030	Meals and Lodging	7,825	18,200	18,200	4,151	16,000	17,300	17,300
612040	Postage, Freight, and Delivery Charges	—	200	200	—	200	—	—
612050	Compensation for Personally-Owned Automobiles	523	2,200	2,200	280	700	1,100	1,100
612080	Motor Vehicle Operating Services	24	—	—	—	—	100	100
612250	Court Reporting Services	7,327	12,000	12,000	9,999	12,000	11,500	11,500
612260	Medical Services	90,281	97,300	103,800	103,360	92,000	121,100	121,100
612290	Insurance Premiums	3,058,107	3,080,300	3,080,300	2,794,444	3,075,300	3,471,100	3,471,100
612330	Rental Charges	7,925	26,700	26,700	10,130	24,600	21,500	21,500
612430	Payments for Professional Services	1,040,556	1,107,300	1,100,800	952,249	1,040,200	979,900	979,900
612490	Contractual Services, N.O.C.	54,781	46,400	46,400	40,217	44,000	72,100	72,100
612780	Safety Repairs and Services	60,445	135,100	135,100	116,001	133,100	107,500	107,500
200	TOTAL CONTRACTUAL SERVICES	4,330,272	4,531,500	4,531,500	4,033,132	4,443,100	4,808,400	4,808,400
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	61,413	58,300	55,200	44,190	53,300	30,500	30,500
623720	Books, Maps, and Charts	1,615	2,500	4,600	4,120	—	500	500
623780	Safety and Medical Supplies	95,424	193,500	193,500	96,033	177,600	166,500	166,500
623990	Materials and Supplies, N.O.C.	3,463	3,400	4,400	3,548	3,400	5,500	5,500
300	TOTAL MATERIALS AND SUPPLIES	161,915	257,700	257,700	147,891	234,300	203,000	203,000
634820	Computer Software	—	25,000	25,000	14,200	14,200	—	—
400	TOTAL MATERIALS AND SUPPLIES	—	25,000	25,000	14,200	14,200	—	—
TOTAL HUMAN RESOURCES		\$ 54,172,301	\$ 59,226,400	\$ 59,226,400	\$ 39,612,447	\$ 56,030,100	\$ 60,108,000	\$ 60,108,000

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.

101 27000	Fund: Corporate Department: Information Technology	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 7,504,043	\$ 8,514,700	\$ 8,514,700	\$ 5,551,744	\$ 7,796,800	\$ 8,516,000	\$ 8,516,000
601060	Compensation Plan Adjustments	185,067	154,700	154,700	49,727	66,500	228,800	228,800
601070	Social Security and Medicare Contributions	105,834	119,900	119,900	78,993	115,900	123,300	123,300
601100	Tuition and Training Payments	31,967	66,000	66,000	36,774	12,000	38,000	38,000
100	TOTAL PERSONAL SERVICES	7,826,911	8,855,300	8,855,300	5,717,237	7,991,200	8,906,100	8,906,100
612010	Travel	446	800	900	881	900	2,000	2,000
612030	Meals and Lodging	890	2,400	2,300	684	700	5,000	5,000
612040	Postage, Freight, and Delivery Charges	790	500	1,000	1,000	800	1,500	1,500
612050	Compensation for Personally- Owned Automobiles	834	2,100	2,100	918	1,500	1,500	1,500
612210	Communication Services	948,399	1,177,600	1,177,600	1,125,950	975,100	1,575,200	1,575,200
612330	Rental Charges	293,970	325,500	325,500	325,407	325,400	475,500	475,500
612430	Payments for Professional Services	99,973	602,500	602,500	506,548	178,500	915,200	940,200
612490	Contractual Services, N.O.C.	—	49,600	17,800	9,750	9,800	10,000	10,000
612810	Computer Equipment Maintenance	237,365	364,200	334,200	182,785	187,800	340,100	340,100
612820	Computer Software Maintenance	3,839,570	4,216,900	4,216,900	3,921,598	3,813,000	4,303,700	4,333,700
612840	Communications Equipment Maintenance (Includes Software)	684,050	735,900	735,900	730,360	727,300	777,700	777,700
200	TOTAL CONTRACTUAL SERVICES	6,106,286	7,478,000	7,416,700	6,805,881	6,220,800	8,407,400	8,462,400
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	9,763	18,700	18,700	17,452	16,000	15,500	15,500
623800	Computer Software	76,921	118,400	172,600	121,696	126,300	99,700	99,700
623810	Computer Supplies	410,474	431,500	431,500	394,984	398,500	555,300	555,300
623850	Communications Supplies	89,803	120,600	150,600	150,293	106,300	162,800	162,800
300	TOTAL MATERIALS AND SUPPLIES	586,960	689,200	773,400	684,425	647,100	833,300	833,300
634810	Computer Equipment	36,706	—	7,100	6,920	7,000	7,000	7,000
634820	Computer Software	—	30,000	—	—	—	182,000	207,000
634840	Communications Equipment (Includes Software)	—	—	—	—	—	16,500	16,500
400	TOTAL MACHINERY AND EQUIPMENT	36,706	30,000	7,100	6,920	7,000	205,500	230,500
TOTAL INFORMATION TECHNOLOGY		\$ 14,556,864	\$ 17,052,500	\$ 17,052,500	\$ 13,214,464	\$ 14,866,100	\$ 18,352,300	\$ 18,432,300

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.

101 30000	Fund: Corporate Department: Law	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 4,682,750	\$ 5,083,100	\$ 5,083,100	\$ 3,381,456	\$ 4,877,900	\$ 5,485,500	\$ 5,485,500
601060	Compensation Plan Adjustments	111,951	139,300	139,300	133,239	138,000	139,700	139,700
601070	Social Security and Medicare Contributions	67,312	73,000	73,000	50,628	74,900	80,000	80,000
601100	Tuition and Training Payments	10,819	14,000	14,000	5,777	13,000	14,000	14,000
100	TOTAL PERSONAL SERVICES	4,872,831	5,309,400	5,309,400	3,571,099	5,103,800	5,719,200	5,719,200
612010	Travel	4,284	5,000	5,000	1,453	4,500	5,000	5,000
612030	Meals and Lodging	9,320	13,000	13,000	3,030	12,000	13,000	13,000
612040	Postage, Freight, and Delivery Charges	368	1,000	1,000	850	800	1,000	1,000
612050	Compensation for Personally-Owned Automobiles	3,776	5,100	5,100	1,134	4,500	5,100	5,100
612090	Reprographic Services	1,632	17,000	17,000	15,100	4,000	17,000	17,000
612250	Court Reporting Services	10,074	50,000	59,000	49,851	9,000	27,000	27,000
612430	Payments for Professional Services	237,587	1,090,300	1,081,300	731,916	500,000	500,000	500,000
612490	Contractual Services, N.O.C.	81,746	103,800	103,800	81,954	102,000	107,800	107,800
200	TOTAL CONTRACTUAL SERVICES	348,787	1,285,200	1,285,200	885,289	636,800	675,900	675,900
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	2,993	5,500	5,500	2,150	3,500	5,200	5,200
623720	Books, Maps, and Charts	9,509	12,300	12,300	9,627	11,000	13,000	13,000
623990	Materials and Supplies, N.O.C.	—	400	400	—	300	400	400
300	TOTAL MATERIALS AND SUPPLIES	12,502	18,200	18,200	11,777	14,800	18,600	18,600
667130	Taxes on Real Estate	686,083	890,000	890,000	683,013	710,000	755,000	755,000
700	TOTAL FIXED AND OTHER CHARGES	686,083	890,000	890,000	683,013	710,000	755,000	755,000
TOTAL LAW		\$ 5,920,204	\$ 7,502,800	\$ 7,502,800	\$ 5,151,179	\$ 6,465,400	\$ 7,168,700	\$ 7,168,700

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.

101 40000	Fund: Corporate Department: Finance	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 3,052,435	\$ 3,217,600	\$ 3,207,700	\$ 2,132,307	\$ 3,000,000	\$ 3,101,900	\$ 3,101,900
601060	Compensation Plan Adjustments	21,234	41,500	41,500	6,125	20,000	111,900	111,900
601070	Social Security and Medicare Contributions	42,562	46,000	46,000	30,611	45,100	45,300	45,300
601100	Tuition and Training Payments	29,993	30,000	39,900	36,788	39,900	30,000	30,000
100	TOTAL PERSONAL SERVICES	3,146,224	3,335,100	3,335,100	2,205,831	3,105,000	3,289,100	3,289,100
612010	Travel	770	12,800	12,800	968	3,000	11,000	11,000
612030	Meals and Lodging	2,459	13,600	13,600	4,429	7,500	6,100	6,100
612040	Postage, Freight, and Delivery Charges	40	100	100	22	100	500	500
612050	Compensation for Personally-Owned Automobiles	416	—	—	—	—	100	100
612090	Reprographic Services	2,298	2,300	2,300	2,260	2,300	2,500	2,500
612250	Court Reporting Services	59,378	50,000	50,000	50,000	50,000	50,000	50,000
612340	Discount Loss	2,651	1,500	1,500	883	1,500	3,000	3,000
612430	Payments for Professional Services	304,426	306,700	306,600	279,610	306,600	282,800	257,800
612490	Contractual Services, N.O.C.	1,015	1,500	1,500	1,095	1,500	2,000	2,000
612800	Repairs to Office Furniture and Equipment	—	4,900	5,000	4,922	5,000	5,000	5,000
200	TOTAL CONTRACTUAL SERVICES	373,452	393,400	393,400	344,189	377,500	363,000	338,000
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	9,934	13,400	13,400	6,873	10,000	20,600	20,600
623720	Books, Maps, and Charts	44	1,500	1,500	96	1,500	1,500	1,500
623990	Materials and Supplies, N.O.C.	—	500	500	60	500	500	500
300	TOTAL MATERIALS AND SUPPLIES	9,978	15,400	15,400	7,029	12,000	22,600	22,600
TOTAL FINANCE		\$ 3,529,654	\$ 3,743,900	\$ 3,743,900	\$ 2,557,049	\$ 3,494,500	\$ 3,674,700	\$ 3,649,700

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.

101 60000	Fund: Corporate Department: Maintenance & Operations Division: All Divisions	LINE ITEM ANALYSIS						
		2017	2018				2019	
		Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 85,103,264	\$ 88,536,900	\$ 88,536,900	\$ 61,693,259	\$ 86,857,500	\$ 91,677,700	\$ 91,677,700
601060	Compensation Plan Adjustments	4,713,807	5,102,100	5,102,100	3,848,044	5,284,300	4,829,400	4,829,400
601070	Social Security and Medicare Contributions	1,249,621	1,271,300	1,271,300	939,240	1,375,900	1,336,500	1,336,500
601080	Salaries of Nonbudgeted Employees	6,927	29,900	29,900	—	—	5,300	5,300
601100	Tuition and Training Payments	197,837	239,200	239,200	121,611	220,100	201,900	201,900
100	TOTAL PERSONAL SERVICES	91,271,456	95,179,400	95,179,400	66,602,153	93,737,800	98,050,800	98,050,800
612010	Travel	14,735	30,300	30,300	9,931	25,500	23,300	23,300
612030	Meals and Lodging	58,039	71,000	71,000	38,219	57,400	55,300	55,300
612050	Compensation for Personally-Owned Automobiles	108,549	144,900	144,900	72,572	119,900	108,500	108,500
612080	Motor Vehicle Operating Services	653	900	900	361	900	1,700	1,700
612150	Electrical Energy	35,900,800	38,601,900	38,426,900	23,893,660	35,267,200	34,393,400	36,645,200
612160	Natural Gas	2,928,497	2,796,300	2,971,300	2,023,747	3,052,600	2,945,300	2,945,300
612170	Water and Water Services	1,858,821	1,795,000	1,795,000	1,212,392	1,839,600	2,113,700	2,109,700
612210	Communication Services	554,338	882,700	894,200	680,070	883,200	—	—
612240	Testing and Inspection Services	118,984	276,300	276,300	215,161	209,200	166,700	166,700
612330	Rental Charges	155,665	169,700	169,700	167,625	154,600	161,500	161,500
612410	Governmental Service Charges	3,560,199	3,473,800	3,473,800	2,542,112	3,367,400	3,474,100	3,474,100
612420	Maintenance of Grounds and Pavements	828,992	1,013,500	1,013,500	943,877	906,800	1,430,900	1,430,900
612430	Payments for Professional Services	543,957	535,400	535,400	515,656	483,300	489,500	489,500
612490	Contractual Services, N.O.C.	404,189	673,500	635,200	454,456	557,800	645,100	645,100
612520	Waste Material Disposal Charges	10,284,686	10,894,000	10,872,900	10,860,911	9,724,000	10,926,400	10,823,400
612530	Farming Services	24,700	24,700	24,700	20,000	20,000	154,700	34,700
612590	Sludge Disposal	3,600,138	3,700,000	3,700,000	3,700,000	3,669,600	6,193,300	4,100,000
612600	Repairs to Collection Facilities	3,075,735	3,249,300	3,225,700	3,010,736	2,874,600	3,486,100	3,486,100
612620	Repairs to Waterway Facilities	43,619	46,700	46,700	44,588	44,600	47,900	47,900
612650	Repairs to Process Facilities	4,648,489	5,528,900	5,518,900	5,391,527	5,024,200	5,582,800	5,582,800
612670	Repairs to Railroads	266,937	368,700	322,500	299,986	310,000	266,900	266,900
612680	Repairs to Buildings	612,100	1,059,100	1,070,600	964,665	882,700	1,085,000	1,085,000
612760	Repairs to Material Handling and Farming Equipment	280,002	313,600	313,600	302,106	294,000	315,900	315,900
612780	Safety Repairs and Services	280,374	324,400	324,400	286,006	223,600	334,500	334,500
612790	Repairs to Marine Equipment	53,685	65,000	65,000	65,000	33,500	65,000	65,000
612820	Computer Software Maintenance	5,311	7,500	9,300	9,300	9,200	7,500	7,500

101 60000	Fund: Corporate Department: Maintenance & Operations Division: All Divisions	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
612840	Communications Equipment Maintenance (Includes Software)	—	5,000	5,000	5,000	4,500	—	—
612860	Repairs to Vehicle Equipment	114,985	166,300	166,300	157,510	138,400	140,600	140,600
612990	Repairs, N.O.C.	8,668	25,000	25,000	19,520	18,000	28,000	28,000
200	TOTAL CONTRACTUAL SERVICES	70,335,845	76,243,400	76,129,000	57,906,694	70,196,300	74,643,600	74,575,100
623030	Metals	27,671	35,600	35,600	30,455	27,800	30,500	30,500
623070	Electrical Parts and Supplies	1,751,074	2,006,900	2,580,900	2,482,207	2,247,200	2,638,400	2,735,400
623090	Plumbing Accessories and Supplies	520,477	785,600	777,000	666,281	731,600	823,800	827,800
623110	Hardware	15,423	8,000	8,000	7,726	6,600	8,300	8,300
623130	Buildings, Grounds, Paving Materials, and Supplies	125,640	172,800	172,800	140,033	149,600	148,300	148,300
623170	Fiber, Paper, and Insulation Materials	5,545	9,900	9,900	9,300	8,600	11,100	11,100
623190	Paints, Solvents, and Related Materials	4,864	6,600	6,600	6,290	6,400	13,000	13,000
623250	Vehicle Parts and Supplies	168,088	151,200	164,800	163,860	150,800	168,000	168,000
623270	Mechanical Repair Parts	2,203,088	2,454,100	3,567,900	3,468,156	3,381,900	3,823,100	3,823,100
623300	Manhole Materials	10,266	6,900	6,900	6,045	6,600	25,000	25,000
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	43,120	48,900	46,400	45,151	44,100	38,800	38,800
623530	Farming Supplies	4,610	3,700	3,700	3,400	3,400	4,000	4,000
623560	Processing Chemicals	9,134,723	12,878,200	11,169,200	11,022,334	10,142,700	12,445,500	12,445,500
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	23,141	25,600	25,600	19,049	22,400	25,600	28,600
623660	Cleaning Supplies	3,776	1,700	4,200	2,901	4,100	2,200	2,200
623680	Tools and Supplies	375,583	210,300	210,300	202,832	201,100	244,600	247,600
623700	Wearing Apparel	1,404	1,300	1,300	538	1,000	2,600	4,100
623780	Safety and Medical Supplies	42,819	70,100	67,600	50,060	46,800	53,700	53,700
623800	Computer Software	3,724	24,700	24,700	18,120	21,400	39,100	39,100
623810	Computer Supplies	10,902	37,700	37,700	34,514	35,700	170,000	170,000
623820	Fuel	255,334	338,700	359,900	357,157	341,700	317,600	317,600
623840	Gases	841	1,100	1,100	721	900	600	600
623850	Communications Supplies	—	5,500	5,500	4,900	4,700	24,300	24,300
623860	Lubricants	6,993	21,400	18,900	7,117	12,900	7,700	7,700
623990	Materials and Supplies, N.O.C.	58,890	188,600	188,600	165,776	175,100	117,500	117,500
300	TOTAL MATERIALS AND SUPPLIES	14,797,997	19,495,100	19,495,100	18,914,923	17,775,100	21,183,300	21,291,800
634600	Equipment for Collection Facilities	45,129	44,200	44,200	44,118	43,600	60,000	60,000

101 60000	Fund: Corporate Department: Maintenance & Operations Division: All Divisions	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
634650	Equipment for Process Facilities	108,984	148,400	217,800	195,513	217,800	166,700	186,700
634760	Material Handling and Farming Equipment	—	—	—	—	—	337,000	387,000
634790	Marine Equipment	—	—	—	—	—	80,000	80,000
634810	Computer Equipment	—	—	—	—	—	250,000	140,000
634860	Vehicle Equipment	—	—	—	—	—	1,199,000	1,199,000
634970	Testing and Laboratory Equipment	5,737	25,000	33,000	30,904	37,900	—	—
634990	Machinery and Equipment, N.O.C.	—	—	12,000	11,225	12,000	36,000	36,000
400	TOTAL MACHINERY AND EQUIPMENT	159,850	217,600	307,000	281,760	311,300	2,128,700	2,088,700
TOTAL MAINTENANCE & OPERATIONS		\$176,565,148	\$ 191,135,500	\$ 191,110,500	\$ 143,705,530	\$182,020,500	\$196,006,400	\$ 196,006,400
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. 3. For the M&O Department, Expenditure (Committed Budget plus Disbursement) may exceed Adjusted Appropriation for a specific division as funding is controlled at the M&O Overall department-level.								

101 66000	Fund: Corporate Department: Maintenance & Operations Division: General	LINE ITEM ANALYSIS						
		2017	2018				2019	
		Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 11,677,399	\$ 11,816,900	\$ 11,816,900	\$ 8,285,999	\$ 11,706,200	\$ 12,676,600	\$ 12,676,600
601060	Compensation Plan Adjustments	493,328	665,300	665,300	277,370	597,500	676,900	676,900
601070	Social Security and Medicare Contributions	169,974	167,300	167,300	122,410	179,200	185,900	185,900
601080	Salaries of Nonbudgeted Employees	—	19,700	19,700	—	—	3,800	3,800
601100	Tuition and Training Payments	14,881	16,800	16,800	11,749	11,200	43,000	43,000
100	TOTAL PERSONAL SERVICES	12,355,582	12,686,000	12,686,000	8,697,528	12,494,100	13,586,200	13,586,200
612010	Travel	2,203	3,400	3,400	1,184	2,500	2,900	2,900
612030	Meals and Lodging	10,917	9,700	9,700	5,004	8,000	7,500	7,500
612050	Compensation for Personally- Owned Automobiles	17,346	7,100	7,100	4,111	5,000	9,500	9,500
612080	Motor Vehicle Operating Services	166	300	300	170	200	300	300
612150	Electrical Energy	66,741	75,600	75,600	51,174	73,000	71,400	71,400
612160	Natural Gas	7,408	8,600	8,600	6,011	7,900	8,000	8,000
612170	Water and Water Services	64,768	53,200	53,200	31,878	44,800	210,100	206,100
612210	Communication Services	164,760	276,300	192,900	143,689	189,300	—	—
612240	Testing and Inspection Services	6,359	13,800	13,800	13,789	13,600	6,100	6,100
612330	Rental Charges	14,830	8,600	8,600	8,544	8,300	8,600	8,600
612410	Governmental Service Charges	19,138	18,600	18,600	14,787	14,100	18,400	18,400
612420	Maintenance of Grounds and Pavements	659,089	679,700	679,700	678,230	616,600	668,300	668,300
612430	Payments for Professional Services	525,957	516,400	516,400	497,116	464,700	470,500	470,500
612490	Contractual Services, N.O.C.	192,107	222,500	220,700	188,350	182,500	227,500	227,500
612520	Waste Material Disposal Charges	8,829,928	9,402,000	9,402,000	9,398,490	8,352,400	9,413,000	9,310,000
612590	Sludge Disposal	—	—	—	—	—	6,193,300	4,100,000
612600	Repairs to Collection Facilities	895,224	940,100	938,800	850,450	850,500	1,187,200	1,187,200
612620	Repairs to Waterway Facilities	43,619	46,700	46,700	44,588	44,600	47,900	47,900
612650	Repairs to Process Facilities	11,436	14,300	14,300	14,300	12,700	14,800	14,800
612680	Repairs to Buildings	10,718	40,400	28,000	22,740	24,700	23,000	23,000
612760	Repairs to Material Handling and Farming Equipment	223,023	239,900	239,900	229,500	228,500	239,500	239,500
612780	Safety Repairs and Services	14,986	14,000	14,000	12,855	12,800	16,500	14,400
612790	Repairs to Marine Equipment	53,685	65,000	65,000	65,000	33,500	65,000	65,000
612820	Computer Software Maintenance	5,311	7,500	9,300	9,300	9,200	7,500	7,500
612860	Repairs to Vehicle Equipment	33,647	49,500	57,900	57,900	48,000	54,500	54,500

Account Number	Account Name	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
612990	Repairs, N.O.C.	1,474	3,500	3,700	2,650	2,700	3,500	3,500
200	TOTAL CONTRACTUAL SERVICES	11,874,838	12,716,700	12,628,200	12,351,808	11,250,100	18,974,800	16,772,400
623070	Electrical Parts and Supplies	10,880	10,600	13,600	11,671	11,200	17,000	17,000
623090	Plumbing Accessories and Supplies	4,819	11,000	11,000	10,571	10,600	11,000	15,000
623110	Hardware	1,703	2,000	1,500	1,500	1,400	2,000	2,000
623130	Buildings, Grounds, Paving Materials, and Supplies	36,390	47,000	41,000	31,877	38,500	34,000	34,000
623250	Vehicle Parts and Supplies	79,674	67,000	66,000	65,963	64,700	82,000	82,000
623270	Mechanical Repair Parts	63,302	91,600	102,600	85,216	93,600	157,800	157,800
623300	Manhole Materials	10,266	6,900	6,900	6,045	6,600	25,000	25,000
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	5,970	7,000	7,000	6,235	6,200	4,000	4,000
623530	Farming Supplies	4,610	3,700	3,700	3,400	3,400	4,000	4,000
623560	Processing Chemicals	254,724	197,000	210,500	208,732	184,600	247,000	247,000
623660	Cleaning Supplies	1,116	500	500	500	500	500	500
623680	Tools and Supplies	16,405	15,800	15,800	15,169	14,400	15,300	18,300
623700	Wearing Apparel	1,229	700	700	538	600	2,000	3,500
623780	Safety and Medical Supplies	5,082	8,000	9,600	8,598	8,600	8,000	8,000
623810	Computer Supplies	30	400	400	—	200	1,400	1,400
623820	Fuel	139,970	184,400	193,600	193,509	185,500	172,200	172,200
623860	Lubricants	906	1,500	2,000	1,900	2,000	1,500	1,500
623990	Materials and Supplies, N.O.C.	12,401	97,400	97,400	95,108	93,900	32,300	32,300
300	TOTAL MATERIALS AND SUPPLIES	649,477	752,500	783,800	746,532	726,500	817,000	825,500
634760	Material Handling and Farming Equipment	—	—	—	—	—	—	50,000
634790	Marine Equipment	—	—	—	—	—	80,000	80,000
634810	Computer Equipment	—	—	—	—	—	110,000	—
634860	Vehicle Equipment	—	—	—	—	—	320,000	320,000
634970	Testing and Laboratory Equipment	—	—	23,000	23,000	22,000	—	—
400	TOTAL MACHINERY AND EQUIPMENT	—	—	23,000	23,000	22,000	510,000	450,000
TOTAL GENERAL DIVISION		\$ 24,879,897	\$ 26,155,200	\$ 26,121,000	\$ 21,818,868	\$ 24,492,700	\$ 33,888,000	\$ 31,634,100

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.

3. For the M&O Department, Expenditure (Committed Budget plus Disbursement) may exceed Adjusted Appropriation for a specific division as funding is controlled at the M&O Overall department-level.

101 67000	Fund: Corporate Department: Maintenance & Operations Division: North Service Area	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 22,635,492	\$ 23,691,800	\$ 23,691,800	\$ 16,555,599	\$ 23,327,400	\$ 24,285,900	\$ 24,285,900
601060	Compensation Plan Adjustments	1,418,077	1,443,100	1,168,100	1,014,876	1,443,100	1,354,500	1,354,500
601070	Social Security and Medicare Contributions	331,337	339,100	339,100	250,405	366,900	351,600	351,600
601080	Salaries of Nonbudgeted Employees	6,927	—	—	—	—	—	—
601100	Tuition and Training Payments	35,419	38,400	46,700	35,409	38,400	42,900	42,900
100	TOTAL PERSONAL SERVICES	24,427,252	25,512,400	25,245,700	17,856,288	25,175,800	26,034,900	26,034,900
612010	Travel	4,205	5,900	11,400	6,374	8,100	8,000	8,000
612030	Meals and Lodging	19,097	15,400	21,400	14,553	14,900	16,200	16,200
612050	Compensation for Personally-Owned Automobiles	17,611	30,300	30,300	14,092	26,000	19,000	19,000
612080	Motor Vehicle Operating Services	110	200	100	45	200	1,000	1,000
612150	Electrical Energy	7,831,673	7,709,800	7,534,800	4,940,433	7,190,400	7,088,800	7,088,800
612160	Natural Gas	540,130	460,900	635,900	456,416	460,900	475,500	475,500
612170	Water and Water Services	77,378	56,200	56,200	43,821	52,900	75,800	75,800
612210	Communication Services	137,230	174,500	196,900	149,658	196,900	—	—
612240	Testing and Inspection Services	29,891	39,300	43,300	42,120	30,400	42,200	42,200
612330	Rental Charges	1,839	10,400	10,400	9,400	7,000	3,000	3,000
612410	Governmental Service Charges	3,352,900	3,262,500	3,262,500	2,356,490	3,162,500	3,262,500	3,262,500
612420	Maintenance of Grounds and Pavements	7,500	35,000	35,000	34,750	20,200	112,600	112,600
612490	Contractual Services, N.O.C.	3,929	9,400	9,400	3,368	6,600	3,400	3,400
612520	Waste Material Disposal Charges	519,210	506,400	509,600	504,867	484,400	514,800	514,800
612530	Farming Services	24,700	24,700	24,700	20,000	20,000	154,700	34,700
612600	Repairs to Collection Facilities	61,042	66,800	43,200	28,149	45,100	74,100	74,100
612650	Repairs to Process Facilities	1,058,187	1,199,200	1,196,200	1,170,085	1,087,700	1,138,700	1,138,700
612680	Repairs to Buildings	126,908	178,000	190,500	189,519	153,500	278,700	278,700
612760	Repairs to Material Handling and Farming Equipment	9,597	21,700	21,700	20,776	20,400	24,400	24,400
612780	Safety Repairs and Services	55,574	85,000	85,000	85,000	76,200	85,000	85,000
612860	Repairs to Vehicle Equipment	7,593	38,700	30,300	29,630	13,900	8,000	8,000
200	TOTAL CONTRACTUAL SERVICES	13,886,303	13,930,300	13,948,800	10,119,545	13,078,200	13,386,400	13,266,400
623030	Metals	9,097	15,100	15,100	11,022	11,000	10,000	10,000
623070	Electrical Parts and Supplies	684,655	679,800	938,800	1,052,477	815,300	1,151,900	1,251,900
623090	Plumbing Accessories and Supplies	133,922	156,400	156,400	129,008	156,400	155,400	155,400
623110	Hardware	11,207	—	—	—	—	—	—

101 67000	Fund: Corporate Department: Maintenance & Operations Division: North Service Area	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
623130	Buildings, Grounds, Paving Materials, and Supplies	18,560	29,700	29,700	26,483	26,500	20,100	20,100
623190	Paints, Solvents, and Related Materials	1,377	2,500	500	400	500	1,400	1,400
623250	Vehicle Parts and Supplies	12,775	8,700	16,700	16,202	13,700	12,000	12,000
623270	Mechanical Repair Parts	485,177	501,800	676,800	634,516	481,800	681,400	681,400
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	13,829	20,900	16,400	16,296	16,400	13,800	13,800
623560	Processing Chemicals	801,647	1,143,500	1,336,500	1,303,295	972,400	1,315,700	1,315,700
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	22,902	25,600	23,600	17,478	22,000	25,600	25,600
623660	Cleaning Supplies	82	—	—	—	—	—	—
623680	Tools and Supplies	105,308	73,200	73,200	72,264	73,200	66,900	66,900
623700	Wearing Apparel	175	—	—	—	—	—	—
623780	Safety and Medical Supplies	21,535	18,100	15,600	11,884	15,600	24,000	24,000
623800	Computer Software	124	1,600	1,600	—	800	21,000	21,000
623810	Computer Supplies	6,486	8,600	10,000	8,570	7,900	25,000	25,000
623820	Fuel	15,570	14,000	19,400	16,818	15,400	13,000	13,000
623840	Gases	281	—	—	—	—	—	—
623850	Communications Supplies	—	—	—	—	—	24,300	24,300
623860	Lubricants	4,852	3,100	4,600	3,646	4,600	3,000	3,000
623990	Materials and Supplies, N.O.C.	9,160	6,500	6,500	5,646	6,500	6,500	6,500
300	TOTAL MATERIALS AND SUPPLIES	2,358,719	2,709,100	3,341,400	3,326,004	2,640,000	3,571,000	3,671,000
634600	Equipment for Collection Facilities	45,129	44,200	44,200	44,118	43,600	60,000	60,000
634650	Equipment for Process Facilities	73,376	62,700	115,300	107,048	115,300	87,700	107,700
634760	Material Handling and Farming Equipment	—	—	—	—	—	37,000	37,000
634810	Computer Equipment	—	—	—	—	—	140,000	140,000
634860	Vehicle Equipment	—	—	—	—	—	65,000	65,000
634970	Testing and Laboratory Equipment	5,737	—	—	—	—	—	—
400	TOTAL MACHINERY AND EQUIPMENT	124,242	106,900	159,500	151,166	158,900	389,700	409,700
TOTAL NORTH SERVICE AREA		\$ 40,796,516	\$ 42,258,700	\$ 42,695,400	\$ 31,453,003	\$ 41,052,900	\$ 43,382,000	\$ 43,382,000

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.

3. For the M&O Department, Expenditure (Committed Budget plus Disbursement) may exceed Adjusted Appropriation for a specific division as funding is controlled at the M&O Overall department-level.

101 68000	Fund: Corporate	LINE ITEM ANALYSIS						
	Department: Maintenance & Operations							
	Division: Calumet Service Area	2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 16,774,746	\$ 17,605,700	\$ 17,605,700	\$ 12,281,297	\$ 17,161,100	\$ 18,159,200	\$ 18,159,200
601060	Compensation Plan Adjustments	898,280	850,100	1,125,100	956,008	1,000,100	795,200	795,200
601070	Social Security and Medicare Contributions	248,267	253,900	253,900	191,201	281,800	267,600	267,600
601100	Tuition and Training Payments	10,778	40,000	37,000	28,334	31,500	24,500	24,500
100	TOTAL PERSONAL SERVICES	17,932,071	18,749,700	19,021,700	13,456,839	18,474,500	19,246,500	19,246,500
612010	Travel	—	6,000	3,500	—	2,000	5,000	5,000
612030	Meals and Lodging	4,540	17,100	14,100	5,924	7,000	10,000	10,000
612050	Compensation for Personally-Owned Automobiles	27,792	45,000	45,000	24,717	38,400	40,000	40,000
612080	Motor Vehicle Operating Services	179	100	200	110	300	100	100
612150	Electrical Energy	9,050,447	9,330,700	9,330,700	5,858,953	8,824,100	8,558,300	8,558,300
612160	Natural Gas	802,678	597,000	597,000	426,533	597,000	565,200	565,200
612170	Water and Water Services	374,780	390,200	390,200	252,021	374,300	390,200	390,200
612210	Communication Services	152,242	196,500	322,000	238,319	322,000	—	—
612240	Testing and Inspection Services	31,278	66,600	66,600	57,091	30,200	66,900	66,900
612330	Rental Charges	17,000	10,000	10,000	9,900	9,300	10,000	10,000
612410	Governmental Service Charges	98,780	103,000	103,000	97,836	101,400	103,000	103,000
612420	Maintenance of Grounds and Pavements	6,091	20,000	20,000	—	20,000	145,000	145,000
612490	Contractual Services, N.O.C.	2,966	16,200	16,200	10,774	8,700	10,500	10,500
612520	Waste Material Disposal Charges	374,583	379,100	354,800	351,055	350,200	392,100	392,100
612600	Repairs to Collection Facilities	60,902	159,900	159,900	88,882	94,000	153,300	153,300
612650	Repairs to Process Facilities	1,279,879	1,752,900	1,731,900	1,671,324	1,543,800	1,748,600	1,748,600
612680	Repairs to Buildings	185,511	471,400	480,400	415,338	384,500	494,300	494,300
612760	Repairs to Material Handling and Farming Equipment	47,381	52,000	52,000	51,830	45,100	52,000	52,000
612780	Safety Repairs and Services	20,720	20,000	20,000	20,000	19,600	20,000	20,000
612860	Repairs to Vehicle Equipment	55,610	53,500	53,500	53,450	53,500	53,500	53,500
612990	Repairs, N.O.C.	4,228	8,000	8,000	8,000	3,900	8,000	8,000
200	TOTAL CONTRACTUAL SERVICES	12,597,586	13,695,200	13,779,000	9,642,057	12,829,300	12,826,000	12,826,000
623030	Metals	4,722	10,100	10,100	10,073	7,800	10,100	10,100
623070	Electrical Parts and Supplies	301,011	347,800	637,800	462,823	480,700	427,800	424,800
623090	Plumbing Accessories and Supplies	153,932	294,600	294,600	286,284	294,600	204,600	204,600
623110	Hardware	—	2,800	2,800	2,800	2,000	2,800	2,800
623130	Buildings, Grounds, Paving Materials, and Supplies	30,526	42,000	50,000	42,636	38,700	54,000	54,000

101 68000	Fund: Corporate Department: Maintenance & Operations Division: Calumet Service Area	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
623190	Paints, Solvents, and Related Materials	817	2,800	2,700	2,500	2,500	2,800	2,800
623250	Vehicle Parts and Supplies	28,541	36,000	39,000	39,000	31,500	36,000	36,000
623270	Mechanical Repair Parts	432,111	705,800	696,800	684,839	685,800	844,600	844,600
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	10,744	10,000	12,000	11,660	12,000	10,000	10,000
623560	Processing Chemicals	1,009,356	2,167,800	1,475,800	1,407,658	1,267,900	1,916,800	1,916,800
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	—	—	1,500	1,230	100	—	3,000
623660	Cleaning Supplies	1,394	700	3,200	2,038	3,200	1,000	1,000
623680	Tools and Supplies	69,803	38,300	38,300	32,706	35,500	38,300	38,300
623780	Safety and Medical Supplies	14,785	20,300	20,300	8,880	17,600	20,300	20,300
623810	Computer Supplies	70	300	300	—	200	300	300
623820	Fuel	26,326	38,500	42,100	42,036	42,100	45,000	45,000
623860	Lubricants	—	14,900	10,900	1,000	5,000	2,000	2,000
623990	Materials and Supplies, N.O.C.	11,537	32,000	32,000	19,571	28,000	32,000	32,000
300	TOTAL MATERIALS AND SUPPLIES	2,095,675	3,764,700	3,370,200	3,057,735	2,955,200	3,648,400	3,648,400
634650	Equipment for Process Facilities	35,608	85,700	102,500	88,464	102,500	79,000	79,000
634760	Material Handling and Farming Equipment	—	—	—	—	—	300,000	300,000
634860	Vehicle Equipment	—	—	—	—	—	535,000	535,000
400	TOTAL MACHINERY AND EQUIPMENT	35,608	85,700	102,500	88,464	102,500	914,000	914,000
TOTAL CALUMET SERVICE AREA		\$ 32,660,941	\$ 36,295,300	\$ 36,273,400	\$ 26,245,096	\$ 34,361,500	\$ 36,634,900	\$ 36,634,900

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.

3. For the M&O Department, Expenditure (Committed Budget plus Disbursement) may exceed Adjusted Appropriation for a specific division as funding is controlled at the M&O Overall department-level.

101 69000	Fund: Corporate	LINE ITEM ANALYSIS						
	Department: Maintenance & Operations							
	Division: Stickney Service Area	2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 34,015,627	\$ 35,422,500	\$ 35,422,500	\$ 24,570,364	\$ 34,662,800	\$ 36,556,000	\$ 36,556,000
601060	Compensation Plan Adjustments	1,904,122	2,143,600	2,143,600	1,599,791	2,243,600	2,002,800	2,002,800
601070	Social Security and Medicare Contributions	500,043	511,000	511,000	375,224	548,000	531,400	531,400
601080	Salaries of Nonbudgeted Employees	—	10,200	10,200	—	—	1,500	1,500
601100	Tuition and Training Payments	136,759	144,000	138,700	46,119	139,000	91,500	91,500
100	TOTAL PERSONAL SERVICES	36,556,550	38,231,300	38,226,000	26,591,498	37,593,400	39,183,200	39,183,200
612010	Travel	8,328	15,000	12,000	2,372	12,900	7,400	7,400
612030	Meals and Lodging	23,485	28,800	25,800	12,738	27,500	21,600	21,600
612050	Compensation for Personally-Owned Automobiles	45,801	62,500	62,500	29,652	50,500	40,000	40,000
612080	Motor Vehicle Operating Services	198	300	300	36	200	300	300
612150	Electrical Energy	18,951,938	21,485,800	21,485,800	13,043,100	19,179,700	18,674,900	20,926,700
612160	Natural Gas	1,578,281	1,729,800	1,729,800	1,134,787	1,986,800	1,896,600	1,896,600
612170	Water and Water Services	1,341,896	1,295,400	1,295,400	884,671	1,367,600	1,437,600	1,437,600
612210	Communication Services	100,106	235,400	182,400	148,404	175,000	—	—
612240	Testing and Inspection Services	51,457	156,600	152,600	102,161	135,000	51,500	51,500
612330	Rental Charges	121,996	140,700	140,700	139,781	130,000	139,900	139,900
612410	Governmental Service Charges	89,380	89,700	89,700	73,000	89,400	90,200	90,200
612420	Maintenance of Grounds and Pavements	156,311	278,800	278,800	230,897	250,000	505,000	505,000
612430	Payments for Professional Services	18,000	19,000	19,000	18,540	18,600	19,000	19,000
612490	Contractual Services, N.O.C.	205,188	425,400	388,900	251,965	360,000	403,700	403,700
612520	Waste Material Disposal Charges	560,966	606,500	606,500	606,500	537,000	606,500	606,500
612590	Sludge Disposal	3,600,138	3,700,000	3,700,000	3,700,000	3,669,600	—	—
612600	Repairs to Collection Facilities	2,058,566	2,082,500	2,083,800	2,043,255	1,885,000	2,071,500	2,071,500
612650	Repairs to Process Facilities	2,298,987	2,562,500	2,576,500	2,535,819	2,380,000	2,680,700	2,680,700
612670	Repairs to Railroads	266,937	368,700	322,500	299,986	310,000	266,900	266,900
612680	Repairs to Buildings	288,964	369,300	371,700	337,069	320,000	289,000	289,000
612780	Safety Repairs and Services	189,094	205,400	205,400	168,151	115,000	213,000	215,100
612840	Communications Equipment Maintenance (Includes Software)	—	5,000	5,000	5,000	4,500	—	—
612860	Repairs to Vehicle Equipment	18,135	24,600	24,600	16,530	23,000	24,600	24,600
612990	Repairs, N.O.C.	2,967	13,500	13,300	8,870	11,400	16,500	16,500
200	TOTAL CONTRACTUAL SERVICES	31,977,118	35,901,200	35,773,000	25,793,283	33,038,700	29,456,400	31,710,300
623030	Metals	13,852	10,400	10,400	9,360	9,000	10,400	10,400

101 69000	Fund: Corporate Department: Maintenance & Operations Division: Stickney Service Area	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
623070	Electrical Parts and Supplies	754,528	968,700	990,700	955,236	940,000	1,041,700	1,041,700
623090	Plumbing Accessories and Supplies	227,804	323,600	315,000	240,418	270,000	452,800	452,800
623110	Hardware	2,513	3,200	3,700	3,426	3,200	3,500	3,500
623130	Buildings, Grounds, Paving Materials, and Supplies	40,165	54,100	52,100	39,037	45,900	40,200	40,200
623170	Fiber, Paper, and Insulation Materials	5,545	9,900	9,900	9,300	8,600	11,100	11,100
623190	Paints, Solvents, and Related Materials	2,670	1,300	3,400	3,390	3,400	8,800	8,800
623250	Vehicle Parts and Supplies	47,099	39,500	43,100	42,695	40,900	38,000	38,000
623270	Mechanical Repair Parts	1,222,498	1,154,900	2,091,700	2,063,584	2,120,700	2,139,300	2,139,300
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	12,576	11,000	11,000	10,960	9,500	11,000	11,000
623560	Processing Chemicals	7,068,996	9,369,900	8,146,400	8,102,649	7,717,800	8,966,000	8,966,000
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	239	—	500	341	300	—	—
623660	Cleaning Supplies	1,184	500	500	363	400	700	700
623680	Tools and Supplies	184,067	83,000	83,000	82,693	78,000	124,100	124,100
623700	Wearing Apparel	—	600	600	—	400	600	600
623780	Safety and Medical Supplies	1,417	23,700	22,100	20,698	5,000	1,400	1,400
623800	Computer Software	3,600	23,100	23,100	18,120	20,600	18,100	18,100
623810	Computer Supplies	4,317	28,400	27,000	25,944	27,400	143,300	143,300
623820	Fuel	73,468	101,800	104,800	104,794	98,700	87,400	87,400
623840	Gases	560	1,100	1,100	721	900	600	600
623850	Communications Supplies	—	5,500	5,500	4,900	4,700	—	—
623860	Lubricants	1,235	1,900	1,400	570	1,300	1,200	1,200
623990	Materials and Supplies, N.O.C.	25,792	52,700	52,700	45,453	46,700	46,700	46,700
300	TOTAL MATERIALS AND SUPPLIES	9,694,125	12,268,800	11,999,700	11,784,653	11,453,400	13,146,900	13,146,900
634860	Vehicle Equipment	—	—	—	—	—	279,000	279,000
634970	Testing and Laboratory Equipment	—	25,000	10,000	7,904	15,900	—	—
634990	Machinery and Equipment, N.O.C.	—	—	12,000	11,225	12,000	36,000	36,000
400	TOTAL MACHINERY AND EQUIPMENT	—	25,000	22,000	19,129	27,900	315,000	315,000
TOTAL STICKNEY SERVICE AREA		\$ 78,227,793	\$ 86,426,300	\$ 86,020,700	\$ 64,188,563	\$ 82,113,400	\$ 82,101,500	\$ 84,355,400

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.

3. For the M&O Department, Expenditure (Committed Budget plus Disbursement) may exceed Adjusted Appropriation for a specific division as funding is controlled at the M&O Overall department-level.

101 50000	Fund: Corporate Department: Engineering	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 24,839,194	\$ 26,988,400	\$ 26,788,400	\$ 17,555,252	\$ 24,800,400	\$ 24,162,300	\$ 24,162,300
601060	Compensation Plan Adjustments	394,330	344,200	544,200	389,601	437,300	446,100	446,100
601070	Social Security and Medicare Contributions	350,514	383,600	383,600	255,781	376,400	349,600	349,600
601100	Tuition and Training Payments	101,020	124,000	124,000	46,573	100,000	118,300	118,300
100	TOTAL PERSONAL SERVICES	25,685,058	27,840,200	27,840,200	18,247,206	25,714,100	25,076,300	25,076,300
612010	Travel	6,796	12,000	12,000	5,062	9,600	10,000	10,000
612030	Meals and Lodging	16,631	25,000	25,000	14,279	18,200	17,600	17,600
612040	Postage, Freight, and Delivery Charges	935	2,000	2,000	2,000	1,100	1,500	1,500
612050	Compensation for Personally-Owned Automobiles	7,862	17,100	17,100	6,439	9,000	10,000	10,000
612080	Motor Vehicle Operating Services	186	400	400	19	100	200	200
612090	Reprographic Services	3,797	3,500	3,500	3,500	3,500	3,500	3,500
612170	Water and Water Services	4,000	3,300	3,300	3,300	3,600	4,000	4,000
612330	Rental Charges	63	100	100	—	—	—	—
612430	Payments for Professional Services	139,150	201,000	201,000	145,932	138,600	126,900	126,900
612440	Preliminary Engineering Reports and Studies	13,440	—	—	—	—	—	—
612490	Contractual Services, N.O.C.	82,128	82,100	82,100	82,059	82,100	83,100	83,100
612620	Repairs to Waterway Facilities	43,044	43,200	43,200	43,044	43,100	71,100	71,100
612970	Repairs to Testing and Laboratory Equipment	1,693	3,000	3,000	2,981	2,900	5,000	5,000
612990	Repairs, N.O.C.	8,107	8,800	8,800	8,712	8,100	10,000	10,000
200	TOTAL CONTRACTUAL SERVICES	327,831	401,500	401,500	317,327	319,900	342,900	342,900
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	33,477	60,400	64,400	60,538	52,500	42,600	42,600
623680	Tools and Supplies	4,218	10,000	6,000	4,145	5,400	8,000	8,000
623700	Wearing Apparel	6,702	6,500	6,500	6,500	6,500	—	—
623720	Books, Maps, and Charts	2,520	3,500	3,500	2,676	3,000	3,500	3,500
623990	Materials and Supplies, N.O.C.	1,152	—	—	—	—	—	—
300	TOTAL MATERIALS AND SUPPLIES	48,068	80,400	80,400	73,859	67,400	54,100	54,100
TOTAL ENGINEERING		\$ 26,060,958	\$ 28,322,100	\$ 28,322,100	\$ 18,638,392	\$ 26,101,400	\$ 25,473,300	\$ 25,473,300

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.

Construction Fund Program

Projects Under Construction						
Project Name	Project Number	Est. Construction Cost	MWRD 2019 Appropriation	Duration (days)	Award / Est. Award Date	
Television Inspection and Recording of Sewers and Manholes, District-wide	13-806-2S	\$ 1,944	\$ 921	1,080	Oct 2017	
Furnish and Deliver Screens, Conveyors, and Grit Classifier, Various Locations	18-608-21	300	300	303	May 2018	
Rehabilitation of Blower No. 9, CWRP	18-803-21	169	38	593	May 2018	
Furnish, Deliver, and Install Fire Detection Systems, Various Locations	18-604-21	535	209	572	Jun 2018	
Furnish and Deliver Station Battery Equipment, Various Locations	18-605-21	225	225	224	Jun 2018	
Pavement Rehabilitation, Various Locations	18-614-21	881	500	578	Jun 2018	
Furnish and Deliver Reconditioned Circuit Breakers, SSA	18-914-21	164	100	558	Jun 2018	
Furnish and Deliver Sludge Pumps, SWRP	18-917-21	215	215	238	Jun 2018	
Elevator Rehabilitation, MOB	J15090-054	529	411	375	Jun 2018	
Furnish and Deliver HVAC Coils, CWRP	18-613-21	132	132	236	Sep 2018	
Recondition Pump Motors No. 1 and No. 2, KWRP	18-704-21	280	200	481	Sep 2018	
Furnish, Deliver, and Install Influent Gate Actuators, OWRP	18-708-21	293	293	180	Sep 2018	
HVAC Improvements, Various Locations	18-611-21	1,851	975	540	Oct 2018	
Rehabilitate Raw Sewage Pump Rotating Assemblies, Various Locations	18-610-21	825	595	731	Nov 2018	
Furnish, Deliver, and Install Underground Steam and Utility Piping, CWRP	18-805-21	93	93	180	Nov 2018	
Rehabilitation of Overhead Bridge Crane, SSA	18-906-21	240	125	390	Dec 2018	
Railroad Track Improvements, SSA	18-913-21	1,565	825	486	Dec 2018	
Sludge Pump Replacements, SWRP	18-916-21	825	725	395	Dec 2018	
Total Projects Under Construction		\$ 11,066	\$ 6,882			

Awards in 2019

Project Name	Project Number	Est. Construction Cost	MWRD 2019 Appropriation	Duration (days)	Award / Est. Award Date
Furnish, Deliver, and Install Three Bar Screens, KWRP	18-706-21	\$ 1,350	\$ 900	713	Jan 2019
Programmable Logic Controller Human Machine Interface Migration, CSA	19-805-21	563	563	350	Jan 2019
Rehabilitate One Electric Motor, SWRP	19-925-21	300	300	242	Jan 2019
Avaya Telecom Project, Final Phase, District-wide	MWD0000013IT	150	150	364	Jan 2019
Microvi Pilot, OWRP	18-180-21	400	400	699	Feb 2019
Furnish, Deliver, and Install Grit Screw Conveyor, CWRP	18-802-21	300	300	180	Feb 2019
Furnish, Deliver, and Install Deep Anode Ground Bed System, CWRP	19-804-21	495	495	333	Feb 2019
Remove and Replace Two Carrier Chillers, MOBA	MWD2010002GA	1,000	1,000	89	Feb 2019
Rehabilitate Gloria Alitto Majewski Reservoir, KWRP	16-708-21	750	750	305	Mar 2019
Furnish and Deliver Excitation Control Equipment, NBPS and RAPS	19-603-21	480	480	305	Mar 2019
Furnish and Deliver Paddle Aerator, LASMA	19-610-21	560	560	213	Mar 2019
Replace Final Tank Channel Covers, OWRP	19-705-21	45	45	305	Mar 2019
Rebuild Gate Houses and Sludge Concentration Building, OWRP	19-707-21	155	155	305	Mar 2019
Furnish and Deliver Lathe, OWRP	19-716-21	170	170	305	Mar 2019
Furnish and Deliver Automated Online Water Quality Monitoring System, OWRP	19-721-21	97	97	153	Mar 2019
Discharge Valve Rehabilitation, Main Sewage Pump No. 5, SWRP	19-905-21	800	400	671	Mar 2019
Construct Plenum Fan Array, MOBA	MWD2010001GA	310	310	152	Mar 2019
Replace HVAC Coils, Various Locations	19-608-21	225	225	274	Apr 2019
Roof Restoration, Lockport Powerhouse	19-612-21	240	240	91	May 2019
HVAC System Replacements, Various Locations	19-613-21	1,168	453	610	May 2019
Furnish, Deliver, and Install Crane Braking System, MSPS	19-904-21	140	140	244	May 2019
Furnish and Deliver Four Lagoon Pumps, CALSMA and LASMA	19-611-21	180	180	183	Jul 2019
Collateral Channel Riverbed Restoration, SSA	18-145-2S	1,200	300	366	Aug 2019
Total 2019 Awards		\$ 11,078	\$ 8,613		
Cumulative Projects Under Construction and 2019 Awards		\$ 22,144	\$ 15,495		

Note: All cost figures are in thousands of dollars.

201 50000	Fund: Construction Department: Engineering	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
612240	Testing and Inspection Services	\$ 43,366	\$ 1,016,000	\$ 1,016,000	\$ 992,084	\$ 713,200	\$ 1,270,000	\$ 1,270,000
612400	Intergovernmental Agreements	82,000	70,000	70,000	64,280	64,300	68,500	68,500
612430	Payments for Professional Services	1,650,905	3,282,100	3,282,100	2,771,261	2,251,800	1,357,400	1,194,400
612440	Preliminary Engineering Reports and Studies	—	50,000	50,000	49,920	49,600	50,000	213,000
612450	Professional Engineering Services for Construction Projects	—	1,834,400	1,834,400	11,875	11,900	—	—
612490	Contractual Services, N.O.C.	29,350	50,000	50,000	—	20,000	50,000	50,000
612600	Repairs to Collection Facilities	284,987	—	—	—	—	—	—
200	TOTAL CONTRACTUAL SERVICES	2,090,608	6,302,500	6,302,500	3,889,420	3,110,800	2,795,900	2,795,900
634600	Equipment for Collection Facilities	—	665,000	572,000	467,783	569,700	480,000	480,000
634620	Equipment for Waterway Facilities	202,377	110,000	163,000	142,852	162,800	—	—
634650	Equipment for Process Facilities	308,100	1,958,000	1,943,000	1,893,785	1,249,800	1,564,000	1,514,000
634760	Material Handling and Farming Equipment	—	975,000	2,140,000	2,083,630	2,090,600	740,000	740,000
634810	Computer Equipment	240,887	406,000	406,000	403,906	403,900	—	—
634820	Computer Software	35,000	85,000	85,000	45,000	45,000	—	—
634840	Communications Equipment (Includes Software)	67,459	64,100	64,100	40,888	—	150,000	150,000
634860	Vehicle Equipment	1,882,968	1,134,000	1,209,000	1,128,383	1,186,500	—	—
634990	Machinery and Equipment, N.O.C.	139,028	—	—	—	—	—	—
400	TOTAL MACHINERY AND EQUIPMENT	2,875,818	5,397,100	6,582,100	6,206,226	5,708,300	2,934,000	2,884,000
645600	Collection Facilities Structures	949,998	876,000	1,276,000	1,047,055	1,047,100	300,000	300,000
645620	Waterway Facilities Structures	—	75,000	75,000	—	—	—	—
645650	Process Facilities Structures	1,021,242	2,526,500	2,526,500	1,661,583	1,211,400	2,109,000	2,109,000
645680	Buildings	849,589	3,781,000	3,596,000	2,368,502	1,192,300	2,936,000	2,936,000
645690	Capital Projects, N.O.C.	3,065,725	2,625,000	625,000	213,500	213,500	1,388,000	1,388,000
645700	Preservation of Collection Facility Structures	—	1,140,000	667,200	270,000	30,000	2,505,000	2,805,000
645720	Preservation of Waterway Facility Structures	—	650,000	674,000	624,000	670,500	300,000	300,000
645750	Preservation of Process Facility Structures	618,498	832,600	1,082,600	873,736	541,500	1,232,800	1,232,800
645780	Preservation of Buildings	2,321,786	1,796,300	2,595,100	2,333,359	2,573,400	1,048,000	1,108,000

201 50000	Fund: Construction Department: Engineering	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
645790	Preservation of Capital Projects, N.O.C.	—	78,600	78,600	78,536	25,000	53,600	53,600
500	TOTAL CAPITAL PROJECTS	8,826,837	14,381,000	13,196,000	9,470,270	7,504,700	11,872,400	12,232,400
TOTAL ENGINEERING CONSTRUCTION		\$ 13,793,263	\$ 26,080,600	\$ 26,080,600	\$ 19,565,916	\$ 16,323,800	\$ 17,602,300	\$ 17,912,300
NOTES: 1. Amounts may not add up due to rounding. 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

Awards in 2019					
Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date	
Drop Shaft 5 Inspection and Rehabilitation, NSA	14-372-3S	\$ 3,500	212	Jan 2019	
Furnish, Deliver, and Install Disc Filters, EWRP	18-702-31	4,000	730	Jan 2019	
Energy Efficiency Improvements, SWRP	19-901-31	5,820	364	Jan 2019	
Replacement of Tailrace Stop Logs, Headrace Gates, and Equipment at Lockport Powerhouse, SSA	15-830-3D	10,120	943	Feb 2019	
Phosphorus Removal Struvite Facilities at the Fox River Water Reclamation District	18-IGA-35	2,493	659	Feb 2019	
Digester Rehabilitation and Gas Piping Replacement, SWRP	17-140-3P	15,000	704	Mar 2019	
North Side Sludge Pipeline Replacement - Section 1, NSA	07-027-3S	14,327	922	Apr 2019	
Odor Control Systems at Two TARP Shafts and Decommissioning the Thornton Transitional Reservoir, CSA	15-266-4H	5,000	452	Apr 2019	
Rehabilitation of Gravity Concentration Tank, CWRP	18-803-31	1,650	487	Apr 2019	
Phosphorus Removal Liquid Facilities at the Fox River Water Reclamation District	18-IGA-36	9,340	921	Apr 2019	
Modifications to TARP Structures, CSA and SSA	17-842-3H	3,500	317	May 2019	
Digester Sludge Heating System Upgrades and Boiler Removal, CWRP	18-277-3M	10,500	493	Jun 2019	
Rehabilitation of Steel Spandrel Beams of Pump and Blower House, OWRP	15-069-3D	10,000	903	Jul 2019	
Rehabilitation of Elevator Shafts, MSPS	18-142-3H	1,500	412	Oct 2019	
Rehabilitation of TARP Pumps, MSPS	18-144-3M	16,500	672	Oct 2019	
Furnish, Deliver, and Install Disc Filters for Filters 3 and 4, HPWRP	19-701-31	1,400	517	Oct 2019	
Roof Replacement of the Lue-Hing M&R Complex, SWRP	17-135-3V	6,500	493	Nov 2019	
Rehabilitation of Locomotive Terminal Building, SWRP	18-143-3D	2,750	532	Nov 2019	
Sidestream Enhanced Biological Phosphorus Removal Pilot Study, CWRP	18-248-3P	1,000	252	Nov 2019	
Upper Des Plaines Intercepting Sewer 14B Rehabilitation, NSA	06-360-3S	6,700	313	Dec 2019	
North Shore 1 Rehabilitation, NSA	10-047-3S	22,750	602	Dec 2019	
Stickney Effluent Reuse Line, SSA	14-107-3S	800	193	Dec 2019	
Total 2019 Awards		\$ 155,150			

Projects Under Development

Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date
A/B and C/D Service Tunnel Rehabilitation - Phase III, SWRP	16-127-3D	\$ 17,000	1,047	Jan 2020
Battery B Final Settling Tanks, Rehabilitation of Concrete, SWRP	16-128-3D	2,000	381	Jan 2020
Utility Tunnel Cracks and Expansion Joints Rehabilitation, OWRP, KWRP, EWRP, HPWRP	17-843-3D	3,000	334	Mar 2020
BioP Pilot Study, EWRP	18-414-3P	500	364	Mar 2020
39th Street Conduit Rehabilitation - Phase II, SSA	01-103-AS	24,700	690	Apr 2020
Battery D Final Settling Tanks, Rehabilitation of Concrete, SWRP	16-130-3D	2,000	472	May 2020
Upper Des Plaines Intercepting Sewer 11D, Ext. C Rehabilitation, NSA	11-404-3S	5,500	402	Jun 2020
Upper Des Plaines Intercepting Sewer 11D Rehabilitation, NSA	12-369-3S	5,500	402	Jul 2020
Battery A Final Settling Tanks, Rehabilitation of Concrete, SWRP	08-174-3D	2,000	450	Aug 2020
Gate Control Equipment Upgrade at TARP Control Structures, KWRP	06-358-3M	2,200	552	Nov 2020
Battery C Final Settling Tanks, Rehabilitation of Concrete, SWRP	16-129-3D	2,000	472	Nov 2020
Digester Rehabilitation and Gas Piping Replacement, CWRP	18-253-3P	15,000	772	Nov 2020
Digester Gas Utilization Facilities, SWRP	11-189-3P	17,000	683	Jan 2021
Post-Digestion Dewatering System, CWRP	17-275-3P	15,000	492	Jan 2021
Palos Hills Pumping Station Force Main, CSA	11-242-3S	6,700	572	Feb 2021
Deammonification System, SWRP	13-101-3P	30,000	503	May 2021
McCook Reservoir Expanded Stage 2 Rock Wall Stabilization, SWRP	17-131-4F	5,000	1,230	Jan 2022
Phosphorus Recovery System, CWRP	12-245-3P	31,000	853	Aug 2022
McCook Reservoir Expanded Stage 2 Aeration and Floor Features, SSA	17-132-4F	2,000	317	Jan 2026
Total Future Awards		\$ 188,100		
Cumulative 2019 and Future Awards		\$ 343,250		

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

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

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

	Method of Financing		
	State Revolving Fund Loans	General Obligation Bonds	Total
Tunnel and Reservoir Plan	\$ 16,500	\$ 5,000	\$ 21,500
Water Reclamation Plant	39,200	48,503	87,703
Expansion and Improvements	—	—	—
Solids Management	84,827	25,120	109,947
Collection Facilities	32,200	91,900	124,100
Replacement of Facilities	—	—	—
Other	—	—	—
	\$ 172,727	\$ 170,523	\$ 343,250

Projects Under Construction

Projects under construction in the Capital Improvements Bond Fund were appropriated in prior years using the full encumbrance (obligation) method of budgetary accounting. The construction contract award amount and the anticipated completion date are provided in this table.

Project Name	Project Number	Est. Construction Cost	Award Date	Est. Substantial Completion Date
Thornton Composite Reservoir Mining, Land, and Corp Costs, CSA	77-235-2F	\$ 52,806	Jun 1998	Oct 2020
McCook Reservoir Stages 1 & 2, SSA	73-161-2H	137,500	May 1999	Oct 2023
D799 Switchgear Replacement, SWRP	09-182-3E	12,771	Dec 2015	Mar 2020
A/B & C/D Service Tunnel and Connecting Tunnel Rehabilitation - Phase II, SWRP	04-132-3D	20,906	May 2016	May 2019
McCook Reservoir Des Plaines Inflow Tunnel	13-106-4F	107,831	Jun 2016	May 2020
Painting of Final Tanks, Various Locations	17-601-31	1,582	Jul 2017	Dec 2019
Conversion of Two Gravity Concentration Tanks to Primary Sludge Fermenters, SWRP	15-124-3P	4,095	Sep 2017	Jun 2019
Furnish, Deliver, and Install Boiler Controls, SWRP	16-901-31	1,224	Sep 2017	Mar 2019
Installation of Baffle Plates in Final Settling Tanks, OWRP	15-074-3D	1,405	Nov 2017	Aug 2019
Installation of Shaftless Screw Conveyors for Aerated Grit Tanks, SWRP	17-902-31	2,595	Dec 2017	Jan 2021
Heavy Equipment Storage Building Site Improvements, Bulk Material Storage Building, CWRP and OWRP	17-845-3P	1,962	Apr 2018	Mar 2019
Emerson Ovation Distributed Control System, NSA	18-704-31	1,802	May 2018	Nov 2019
Rehabilitation of North Branch Pumping Station, NSA	16-079-3D	4,613	Aug 2018	Nov 2019
Summit Conduit Rehabilitation, SSA	16-126-3SR	2,900	Aug 2018	Jul 2019
Switchgear & Motor Control Center Replacement, OWRP	17-080-3E	3,577	Sep 2018	Jul 2020
Installation and Removal of Cofferdam at Sluice Gate No. 2, Lockport Powerhouse Controlling Works, SSA	18-607-31	350	Sep 2018	Aug 2019
Structural Repairs and Roofing Replacement at 95th Street Pumping Station, CSA	17-276-3D	5,000	Nov 2018	Sep 2020
Furnish, Deliver, and Install Telemetry Replacement for SCADA Control, Various Locations	17-606-31	545	Nov 2018	Oct 2019
Pump Rehabilitation and Diverter Gate Installation, EWRP	16-412-3M	550	Dec 2018	Nov 2019
Odor Control Facilities at WASSTRIP®, Southwest Coarse Screen and Overhead Weir, and Post-Centrifuge Building, SWRP	17-134-3M	15,000	Dec 2018	Jul 2020
Furnish, Deliver and Install Odor Control System, KWRP, HPWRP, and CWRP	17-844-3P	4,347	Dec 2018	Apr 2020
Total Projects Under Construction		\$ 383,361		

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

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

401 50000	Fund: Capital Improvements Bond Department: Engineering	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation *	Adjusted Appropriation 09/30/18 **	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
612090	Reprographic Services	\$ —	\$ 10,000	\$ 10,000	\$ 10,000	\$ —	\$ 10,000	\$ 10,000
612240	Testing and Inspection Services	274,760	—	145,585	84,585	42,000	—	—
612250	Court Reporting Services	—	25,000	25,000	25,000	3,700	25,000	25,000
612400	Intergovernmental Agreements	17,939,689	3,888,000	40,674,195	32,927,933	18,523,700	12,302,500	12,302,500
612430	Payments for Professional Services	1,067,679	1,199,000	2,460,154	1,514,400	873,800	400,000	400,000
612440	Preliminary Engineering Reports and Studies	325,602	250,000	313,945	63,945	500	2,820,000	2,820,000
612450	Professional Engineering Services for Construction Projects	6,720,063	4,000,000	11,610,296	9,558,963	5,014,600	4,500,000	4,500,000
612470	Personal Services for Post-Award Engineering for Construction Projects	2,253,622	—	10,773,686	10,772,518	2,132,300	—	—
612490	Contractual Services, N.O.C.	254,892	—	—	—	—	—	—
612780	Safety Repairs and Services	—	100,000	100,000	—	—	100,000	100,000
200	TOTAL CONTRACTUAL SERVICES	28,836,306	9,472,000	66,112,862	54,957,343	26,590,600	20,157,500	20,157,500
634600	Equipment for Collection Facilities	—	645,000	636,800	—	200,000	—	—
634620	Equipment for Waterway Facilities	—	—	8,200	8,151	8,200	—	—
634650	Equipment for Process Facilities	579,900	—	—	—	—	—	—
634820	Computer Software	—	150,000	150,000	—	—	—	—
400	TOTAL MACHINERY AND EQUIPMENT	579,900	795,000	795,000	8,151	208,200	—	—
645600	Collection Facilities Structures	9,571,866	4,210,000	15,504,884	11,524,366	7,355,600	5,015,000	5,015,000
645620	Waterway Facilities Structures	5,746,486	127,539,900	156,325,228	156,319,541	15,385,600	66,687,000	66,687,000
645630	Army Corps of Engineers Services	54,005,694	7,500,000	63,993,681	59,408,567	26,134,500	800,000	800,000
645650	Process Facilities Structures	95,280,035	58,060,000	101,457,262	80,010,991	45,773,100	11,450,000	13,100,000
645680	Buildings	4,036,392	7,413,000	14,521,006	13,645,884	600,000	6,320,000	6,320,000
645690	Capital Projects, N.O.C.	—	5,302,000	1,845,400	1,845,325	1,150,800	—	—
645700	Preservation of Collection Facility Structures	27,497,524	31,555,000	46,270,456	19,555,988	15,144,500	58,493,800	58,493,800
645720	Preservation of Waterway Facility Structures	3,769,065	25,148,400	28,567,643	16,008,365	4,081,100	2,927,800	13,553,800
645750	Preservation of Process Facility Structures	9,786,302	15,963,300	25,654,725	9,887,663	6,290,800	42,318,300	42,318,300
645780	Preservation of Buildings	—	17,974,300	27,553,000	19,848,332	3,700,000	20,212,500	20,212,500
500	TOTAL CAPITAL PROJECTS	209,693,362	300,665,900	481,693,285	388,055,022	125,616,000	214,224,400	226,500,400
656010	Land	1,467,015	300,000	300,000	1,254	290,000	300,000	300,000
600	TOTAL LAND	1,467,015	300,000	300,000	1,254	290,000	300,000	300,000

401 50000	Fund: Capital Improvements Bond Department: Engineering	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation *	Adjusted Appropriation 09/30/18 **	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
667340	Payments for Easements	62,041	1,750,000	1,750,000	270,000	796,000	1,750,000	1,750,000
727102	Principal Expense - Capital Lease	2,473,480	—	40,194,458	40,194,458	2,594,900	—	—
727112	Interest Expense - Capital Lease	1,916,284	—	12,389,516	12,389,516	1,795,000	—	—
700	TOTAL FIXED AND OTHER CHARGES	4,451,806	1,750,000	54,333,974	52,853,974	5,185,900	1,750,000	1,750,000
TOTAL CAPITAL IMPROVEMENTS BOND		\$245,028,389	\$ 312,982,900	\$ 603,235,121	\$ 495,875,745	\$157,890,700	\$236,431,900	\$ 248,707,900
<p>* The Capital Improvements Bond Fund is budgeted and accounted for on an obligation basis.</p> <p>** The appropriation in the Capital Improvements Bond Fund is adjusted to carry forward open value of contracts from the prior year.</p> <p>NOTES: 1. Amounts may not add up due to rounding.</p> <p>2. Estimated Expenditure may 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.</p> <p>3. The Capital Improvements Bond Fund appropriation is controlled on the Summary Object level.</p>								

501 50000	Fund: Stormwater Management	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 5,370,381	\$ 5,810,900	\$ 5,810,900	\$ 3,968,391	\$ 5,539,000	\$ 8,502,700	\$ 8,502,700
601060	Compensation Plan Adjustments	108,371	192,200	192,200	156,390	188,000	212,800	212,800
601070	Social Security and Medicare Contributions	76,832	83,400	83,400	59,202	86,800	124,000	124,000
601080	Salaries of Nonbudgeted Employees	—	20,000	20,000	—	—	20,000	20,000
601100	Tuition and Training Payments	8,770	10,000	10,000	6,718	7,200	11,000	11,000
601250	Health and Life Insurance Premiums	501,670	567,000	567,000	338,484	547,000	878,900	878,900
601270	General Salary Adjustments	—	—	—	—	—	42,800	42,800
100	TOTAL PERSONAL SERVICES	6,066,024	6,683,500	6,683,500	4,529,185	6,368,000	9,792,200	9,792,200
612010	Travel	1,511	2,000	2,000	981	1,200	2,000	2,000
612030	Meals and Lodging	3,897	4,000	4,000	1,849	2,200	4,000	4,000
612040	Postage, Freight, and Delivery Charges	1,210	2,500	2,500	2,000	1,500	2,500	2,500
612050	Compensation for Personally-Owned Automobiles	15,160	24,800	24,800	9,773	15,300	24,800	24,800
612080	Motor Vehicle Operating Services	55	800	800	—	200	800	800
612240	Testing and Inspection Services	—	10,000	10,000	10,000	10,000	—	—
612250	Court Reporting Services	10,508	12,000	12,000	12,000	11,600	12,000	12,000
612330	Rental Charges	693	2,500	2,500	2,500	2,300	2,500	2,500
612400	Intergovernmental Agreements	2,546,070	26,269,700	26,269,700	17,424,266	12,331,500	35,129,400	35,129,400
612430	Payments for Professional Services	227,106	1,059,000	1,059,000	410,931	455,000	775,000	775,000
612440	Preliminary Engineering Reports and Studies	1,097,336	3,724,900	3,724,900	3,523,623	1,592,000	7,605,500	7,605,500
612450	Professional Engineering Services for Construction Projects	116,109	4,147,300	3,797,300	1,506,797	1,181,000	6,534,400	6,534,400
612490	Contractual Services, N.O.C.	163,349	415,000	765,000	510,863	606,000	205,000	205,000
612520	Waste Material Disposal Charges	53,786	60,000	60,000	60,000	52,000	60,000	60,000
612620	Repairs to Waterway Facilities	2,250,515	2,585,000	2,585,000	2,398,408	2,350,000	2,500,000	2,500,000
612820	Computer Software Maintenance	150,000	145,000	145,000	145,000	145,000	145,000	145,000
612990	Repairs, N.O.C.	665	2,000	2,000	1,000	1,500	2,000	2,000
200	TOTAL CONTRACTUAL SERVICES	6,637,972	38,466,500	38,466,500	26,019,992	18,758,300	53,004,900	53,004,900
623130	Buildings, Grounds, Paving Materials, and Supplies	4,866	5,000	5,000	5,000	4,900	5,000	5,000
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	4,139	11,500	11,500	8,903	2,900	11,500	11,500
623560	Processing Chemicals	—	5,000	5,000	5,000	5,000	5,000	5,000

501 50000	Fund: Stormwater Management	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
623680	Tools and Supplies	7,824	11,000	11,000	6,280	5,000	11,000	11,000
623700	Wearing Apparel	—	2,000	2,000	1,803	1,900	8,500	8,500
623990	Materials and Supplies, N.O.C.	436,290	90,400	90,400	54,419	9,100	90,400	90,400
300	TOTAL MATERIALS AND SUPPLIES	453,119	124,900	124,900	81,405	28,800	131,400	131,400
645620	Waterway Facilities Structures	961,501	16,175,600	16,175,600	5,990,527	2,325,000	24,579,100	24,579,100
645630	Army Corps of Engineers Services	—	1,750,000	1,750,000	—	1,358,000	500,000	500,000
645690	Capital Projects, N.O.C.	—	400,000	400,000	—	225,000	400,000	400,000
645720	Preservation of Waterway Facility Structures	—	1,180,500	1,180,500	260,320	—	1,602,500	1,602,500
500	TOTAL CAPITAL PROJECTS	961,501	19,506,100	19,506,100	6,250,847	3,908,000	27,081,600	27,081,600
656010	Land	—	400,000	400,000	156,000	300,000	1,000,000	1,000,000
600	TOTAL LAND	—	400,000	400,000	156,000	300,000	1,000,000	1,000,000
667020	Equity Transfer	3,269,250	—	—	—	—	—	—
667340	Payments for Easements	13,536	400,000	400,000	345,400	396,100	400,000	400,000
700	TOTAL FIXED AND OTHER CHARGES	3,282,786	400,000	400,000	345,400	396,100	400,000	400,000
TOTAL STORMWATER MANAGEMENT		\$ 17,401,402	\$ 65,581,000	\$ 65,581,000	\$ 37,382,829	\$ 29,759,200	\$ 91,410,100	\$ 91,410,100

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.

901	Fund: Reserve Claim	LINE ITEM ANALYSIS						
		2017	2018				2019	
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/18	Expenditure (Committed Budget plus Disbursement) 09/30/18	Estimated Expenditure 12/31/18	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601090	Employee Claims	\$ 4,233,724	\$ 10,000,000	\$ 10,000,000	\$ 2,891,032	\$ 4,000,000	\$ 10,000,000	\$ 10,000,000
100	TOTAL PERSONAL SERVICES	4,233,724	10,000,000	10,000,000	2,891,032	4,000,000	10,000,000	10,000,000
667220	General Claims and Emergency Repair and Replacement Costs	2,671,350	20,289,500	20,289,500	1,242,925	1,600,000	21,767,800	21,767,800
700	TOTAL FIXED AND OTHER CHARGES	2,671,350	20,289,500	20,289,500	1,242,925	1,600,000	21,767,800	21,767,800
TOTAL RESERVE CLAIM FUND		\$ 6,905,074	\$ 30,289,500	\$ 30,289,500	\$ 4,133,957	\$ 5,600,000	\$ 31,767,800	\$ 31,767,800
NOTE: Amounts may not add up due to rounding.								

PAGE REFERENCE GUIDE

The Tentative Budget Book is presented as a supplement to the Executive Director's Recommendations Budget Book. The following is a page reference guide that provides the corresponding pages between the two budget book versions. Pages that do not appear in the Executive Director's Recommendations Budget Book and are unique to the Tentative Budget Book are noted with "N/A."

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<u>Major Budget Amendments Impacting the 2019 Tentative Budget</u>	<u>5</u>	N/A
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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 plagued 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.
- 1955** 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 "Special Civil Engineering Achievement Award" in 1974 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 Plant (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; TARP Mainstream System, Phase I, received award for "Outstanding Civil Engineering Achievement" from the ASCE.
- 1986** TARP received awards for "Outstanding Civil Engineering Achievement" and "Outstanding Civil Engineering Achievement of Past 100 Years in Illinois"; 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 began 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.
- 1992-1994** District's five Sidestream Elevated Pool Aeration Stations (SEPA) completed along the Calumet River system. These stations add oxygen to the waterways to enhance the aquatic environment. The District received "Outstanding Civil Engineering Achievement" in 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 began 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 Transitional 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.
- 2006** 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.
- 2012** North Side Water Reclamation Plant renamed Terrence J. O'Brien Water Reclamation Plant.
- 2013** Board adopted the Watershed Management Ordinance, establishing uniform and minimum stormwater regulations throughout Cook County.
- 2014** District celebrated its 125th anniversary.
- 2015** Disinfection facility at the Calumet Water Reclamation Plant placed into operation. Thornton Composite Reservoir placed into operation.
- 2016** Phosphorus recovery facility placed into operation at the Stickney Water Reclamation Plant; implemented an ultraviolet disinfection process at the O'Brien Water Reclamation Plant; Board adopted the Resource Recovery Ordinance, which provides legal framework for resource recovery initiatives.
- 2017** Phase I of the McCook Reservoir completed.

130 Years of Dedicated Service

Nearly 500 billion gallons of water flow through the pipes and facilities of the Metropolitan Water Reclamation District of Greater Chicago (District) each year. The District addresses the volume of water that comes with heavy rains and unknown contaminants that are flushed down drains throughout Cook County. It is the diligent men and women of the District and our seven industrious water reclamation plants that maintain that flow and transform wastewater into a clean product that protects our environment and makes our region an attractive place to live and visit. Our water reclamation plants meet the highest standards and uphold our distinguished record of excellence that residents have come to rely on for 130 years. The District's staff are implementing several innovations in renewable energy, while also developing reuse opportunities for water, energy, biosolids, algae, phosphorus, and other nutrients collected during the wastewater treatment process. Each of the seven water reclamation plants add value in traditional and non-traditional ways and protect the region's water quality.



The Stickney Water Reclamation Plant remains unrivaled as the world's largest plant with full secondary treatment by volume, cleaning up to 1.44 billion gallons per day, serving 2.3 million people in a 260 square mile area.



As stewards of our land, the District plants native prairie landscaping at the Terrence J. O'Brien Water Reclamation Plant and other facilities to reduce maintenance costs, increase biodiversity and wildlife habitat, sequester carbon, and meet our goals in managing stormwater.



Recreational use of area waterways is thriving thanks to improvements in wastewater treatment technologies.



The District is constructing new primary settling tanks and aerated grit tanks, support facilities, service tunnels, and conduits at the Stickney Water Reclamation Plant. This will replace tanks, produce renewable energy, increase and improve grit removal, protect downstream piping and equipment, increase water recycling and reduce odors.

Cover: The John E. Egan Water Reclamation Plant represents major advancements in the art and science of wastewater treatment, combining traditional technologies with new energy efficient processes to remove nitrogen and ammonia.



Metropolitan Water Reclamation District of Greater Chicago

100 East Erie Street • Chicago, Illinois 60611-3154



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COMPARATIVE STATEMENT OF APPROPRIATIONS AND TAX LEVIES

2019-2017 ALL FUNDS

APPROPRIATIONS	2019 **	2018 AS PASSED	2018 AS ADJUSTED *	2017 ACTUAL
FUND				
Corporate Fund	\$ 376,862,500	\$ 370,209,200	\$ 370,209,200	\$ 368,925,800
Construction Fund	18,248,300	26,080,600	26,080,600	34,450,400
Capital Improvements Bond Fund ***	360,061,300	312,982,900	312,982,900	354,625,600
Stormwater Management Fund	91,410,100	65,581,000	65,581,000	45,800,100
Retirement Fund	87,281,000	89,604,000	89,604,000	79,505,000
Reserve Claim Fund	31,767,800	30,289,500	30,289,500	30,617,100
Bond Redemption & Interest Fund	238,357,541	256,304,187	256,304,187	228,825,813
TOTAL	\$ 1,203,988,541	\$ 1,151,051,387	\$ 1,151,051,387	\$ 1,142,749,813
LEVIES				
Corporate Fund	\$ 254,574,100	\$ 240,465,800	\$ 240,465,800	\$ 224,824,731
Construction Fund	7,600,000	11,700,000	11,700,000	17,000,000
Stormwater Management Fund	52,926,000	47,826,000	47,826,000	40,856,008
Retirement Fund	71,565,400	71,534,197	71,534,197	73,438,135
Reserve Claim Fund	7,500,000	6,000,000	6,000,000	5,900,000
Subtotal	\$ 394,165,500	\$ 377,525,997	\$ 377,525,997	\$ 362,018,874
Bond Redemption & Interest Fund:				
Capital Improvement Bonds - Series:				
2016 Qualified Energy Conservation Limited Tax Series F	\$ 165,804	\$ 165,804	\$ 165,804	\$ 165,804
2009 Limited Tax Series	35,564,767	35,564,767	35,564,767	35,564,767
2011 Limited Tax Series B	18,950,616	28,911,239	28,911,239	41,406,315
2011 Unlimited Tax Series C	2,515,991	4,184,800	4,184,800	3,981,898
2014 Limited Tax Series C	8,286,788	6,763,472	6,763,472	3,240,156
2014 Unlimited Tax Series A	5,181,348	5,181,348	5,181,348	5,181,348
2014 Alternate Revenue Unlimited Tax Series B ****	3,391,037	3,390,570	3,390,570	3,389,171
2016 Alternate Revenue Unlimited Tax Series E ****	2,590,674	2,590,674	2,590,674	2,590,674
Alternate Revenue Abatement ****	—	—	—	(5,979,845)
2016 Unlimited Tax Series C	1,554,405	1,554,405	1,554,405	1,554,405
2016 Limited Tax Series D	1,036,270	1,036,270	1,036,270	1,036,270
State Revolving Fund Bonds - Series: Various	99,555,205	85,458,595	86,525,865	77,609,685
Refunding Bonds - Series:				
2007 Unlimited Tax Series A	26,694,301	26,623,057	26,623,057	26,509,845
2007 Unlimited Tax Series B	4,996,749	4,996,749	4,996,749	4,996,749
2007 Limited Tax Series C	5,541,607	5,541,607	5,541,607	5,541,607
2014 Limited Tax Series D	15,895,337	15,130,830	15,130,830	9,264,767
2016 Unlimited Tax Series A	14,555,959	14,555,959	14,555,959	14,555,959
2016 Limited Tax Series B	2,141,451	2,141,451	2,141,451	2,141,451
Subtotal Bond Redemption & Interest Fund	\$ 248,618,309	\$ 243,791,597	\$ 244,858,866	\$ 232,751,026
TOTAL	\$ 642,783,809	\$ 621,317,594	\$ 622,384,863	\$ 594,769,900
Abatement after the budget year ****	(6,185,100)	(6,152,228)	(6,152,228)	
Total (after planned abatement)	\$ 636,598,709	\$ 615,165,366	\$ 616,232,635	

NOTES: * As Adjusted reflects the 2017 EAV (\$147,945,823,261) estimated to increase 3.0 percent, plus any subsequent supplemental levies or appropriations.

** 2019 reflects an estimated 3.0 percent increase in EAV from the 2018 estimate.

*** Prior year obligations for the Capital Improvements Bond Fund are included in the Appropriation for Liabilities.

**** As part of the plan of financing, it is intended and anticipated that tax revenues deposited in the Stormwater Management Fund be transferred to the Bond Redemption & Interest Fund and used to abate taxes levied for this issue.

COMPARATIVE STATEMENT OF TAX RATES

2019-2017 ALL FUNDS

Per \$100 in Equalized Assessed Valuation (EAV)

FUND		2019 **	2018 AS PASSED	2018 AS ADJUSTED *	2017 ACTUAL
	tax rate limit				
Corporate Fund	41¢	16.22¢	16.11¢	15.78¢	15.20¢
Construction Fund	10¢	0.48	0.78	0.77	1.15
Stormwater Management Fund	5¢	3.37	3.20	3.14	2.76
Retirement Fund		4.56	4.79	4.69	4.96
Reserve Claim Fund	½ ¢	0.48	0.40	0.39	0.40
Subtotal		25.11¢	25.28¢	24.77¢	24.47¢
Bond Redemption & Interest Fund:					
Capital Improvement & Interest Fund:					
2016 Qualified Energy Conservation Limited Tax Series F		0.01¢	0.01¢	0.01¢	0.01¢
2009 Limited Tax Series		2.27	2.38	2.33	2.40
2011 Limited Tax Series B		1.21	1.94	1.90	2.80
2011 Unlimited Tax Series C		0.16	0.28	0.27	0.27
2014 Limited Tax Series C		0.53	0.45	0.44	0.22
2014 Unlimited Tax Series A		0.33	0.35	0.34	0.35
2014 Alternate Revenue Unlimited Tax Series B ***		0.22	0.23	0.22	0.23
2016 Alternate Revenue Unlimited Tax Series E ***		0.17	0.17	0.17	0.18
Alternate Revenue Abatement ***		—	—	—	(0.41)
2016 Unlimited Tax Series C		0.10	0.10	0.10	0.11
2016 Limited Tax Series D		0.07	0.07	0.07	0.07
State Revolving Fund Bonds - Series:					
Various		6.34	5.72	5.68	5.25
Refunding Bonds - Series:					
2007 Unlimited Tax Series A		1.70	1.78	1.75	1.79
2007 Unlimited Tax Series B		0.32	0.33	0.33	0.34
2007 Limited Tax Series C		0.35	0.37	0.36	0.37
2014 Limited Tax Series D		1.01	1.01	0.99	0.63
2016 Unlimited Tax Series A		0.93	0.97	0.96	0.98
2016 Limited Tax Series B		0.14	0.14	0.14	0.14
Subtotal Bond Redemption & Interest Fund		15.86¢	16.30¢	16.06¢	15.73¢
TOTAL		40.97¢	41.58¢	40.83¢	40.20¢

NOTES: * As Adjusted reflects the 2017 EAV (\$147,945,823,261) estimated to increase 3.0 percent, plus any subsequent supplemental levies or appropriations.

** 2019 reflects an estimated 3.0 percent increase in EAV from the 2018 estimate.

*** As part of the plan of financing, it is intended and anticipated that tax revenues deposited in the Stormwater Management Fund be transferred to the Bond Redemption & Interest Fund and used to abate taxes levied for this issue.

**ACCOUNT SUMMARY COMPARISON
2019 - 2018 ALL FUNDS**

ORGANIZATION OR FUND	Account Appropriation		Increase (Decrease) 2019-2018	
	2019	2018	Dollars	Percent
Board of Commissioners	\$ 5,266,700	\$ 5,145,200	\$ 121,500	2.4
General Administration	19,790,500	16,725,400	3,065,100	18.3
Monitoring & Research	31,253,400	31,888,700	(635,300)	(2.0)
Procurement & Materials Management	9,786,100	9,466,700	319,400	3.4
Human Resources	60,108,000	59,226,400	881,600	1.5
Information Technology	18,432,300	17,052,500	1,379,800	8.1
Law	7,069,400	7,502,800	(433,400)	(5.8)
Finance	3,676,400	3,743,900	(67,500)	(1.8)
Maintenance & Operations:				
General Division	31,634,100	26,155,200	5,478,900	20.9
North Service Area	43,382,000	42,258,700	1,123,300	2.7
Calumet Service Area	36,634,900	36,295,300	339,600	0.9
Stickney Service Area	84,355,400	86,426,300	(2,070,900)	(2.4)
TOTAL Maintenance & Operations	\$ 196,006,400	\$ 191,135,500	\$ 4,870,900	2.5
Engineering	25,473,300	28,322,100	(2,848,800)	(10.1)
TOTAL Corporate Fund	\$ 376,862,500	\$ 370,209,200	\$ 6,653,300	1.8
Construction Fund	18,248,300	26,080,600	(7,832,300)	(30.0)
Capital Improvements Bond Fund	360,061,300	312,982,900	47,078,400	15.0
TOTAL Capital Budget	\$ 378,309,600	\$ 339,063,500	\$ 39,246,100	11.6
Stormwater Management Fund	91,410,100	65,581,000	25,829,100	39.4
Bond Redemption & Interest Fund	238,357,541	256,304,187	(17,946,646)	(7.0)
Retirement Fund	87,281,000	89,604,000	(2,323,000)	(2.6)
Reserve Claim Fund	31,767,800	30,289,500	1,478,300	4.9
GRAND TOTAL	<u>\$1,203,988,541</u>	<u>\$1,151,051,387</u>	<u>\$ 52,937,154</u>	4.6

**PERSONNEL SUMMARY COMPARISON
2019 - 2017 ALL FUNDS**

ORGANIZATION OR FUND	Proposed FTEs 2019	Budgeted FTEs 2018	Actual FTEs 2017	Increase (Decrease) 2019-2018	
				FTEs	Percent
Board of Commissioners	38	38	37	—	—
General Administration	119	121	122	(2)	(1.7)
Monitoring & Research	300	312	305	(12)	(3.8)
Procurement & Materials Management	63	63	60	—	—
Human Resources	93	91	71	2	2.2
Information Technology	74	73	68	1	1.4
Law	39	37	36	2	5.4
Finance	27	28	28	(1)	(3.6)
Maintenance & Operations:					
General Division	115	107	115	8	7.5
North Service Area	248	245	246	3	1.2
Calumet Service Area	188	185	188	3	1.6
Stickney Service Area	369	367	372	2	0.5
TOTAL Maintenance & Operations	920	904	921	16	1.8
Engineering	212	242	242	(30)	(12.4)
TOTAL Corporate Fund	1,885	1,909	1,890	(24)	(1.3)
Construction Fund	—	—	—	—	—
Capital Improvements Bond Fund	—	—	—	—	—
TOTAL Capital Budget	—	—	—	—	—
Stormwater Management Fund	85	57	59	28	49.1
Bond Redemption & Interest Fund	—	—	—	—	—
Retirement Fund	—	—	—	—	—
Reserve Claim Fund	—	—	—	—	—
GRAND TOTAL	1,970	1,966	1,949	4	0.2

ALL FUNDS

SUMMARY OF REVENUE, EXPENDITURES, AND NET ASSETS APPROPRIABLE (b) 2019 BUDGETED, 2018 ESTIMATED, AND 2017 ACTUAL

(In Thousands)

	FUND							
	CORPORATE	CAPITAL IMPROVEMENTS BOND	CONSTRUCTION	STORMWATER MANAGEMENT	RETIREMENT (d)	BOND REDEMPTION & INTEREST (d)	RESERVE CLAIM (d)	TOTAL
2019 BUDGETED								
Net Assets Appropriable	\$ 131,296.6	\$ (609,357.7)	\$ 10,528.3	\$ 45,807.0	\$ 87,281.0	\$ 230,060.6	\$ 31,167.8	\$ (73,216.4)
Net Assets Appropriated	\$ 31,366.5	\$ (609,357.7)	\$ 10,528.3	\$ 45,807.0	\$ 87,281.0	\$ 230,060.6	\$ 31,167.8	\$ (173,146.5)
Revenue	345,496.0	969,419.0	7,720.0	45,603.1	—	8,296.9	600.0	1,377,135.0
Appropriation	\$ 376,862.5	\$ 360,061.3	\$ 18,248.3	\$ 91,410.1	\$ 87,281.0	\$ 238,357.5	\$ 31,767.8	\$ 1,203,988.5
2018 ESTIMATED								
Beginning Net Assets Appropriable as adjusted (c)	\$ 143,474.1	\$ (615,827.5)	\$ 15,526.9	\$ 35,706.1	\$ 89,604.0	\$ 248,287.6	\$ 30,591.2	\$ (52,637.6)
Revenue (a)	338,517.0	164,360.5	11,451.0	40,229.3	—	8,016.6	458.1	563,032.5
Adjustment for 2017 receipts	(3,319.3)	—	(461.8)	(369.2)	—	—	—	(4,150.3)
Expenditures	(347,375.2)	(157,890.7)	(15,987.8)	(29,759.2)	(89,604.0)	(256,304.2)	(5,600.0)	(902,521.1)
Ending Net Assets Appropriable	\$ 131,296.6	\$ (609,357.7)	\$ 10,528.3	\$ 45,807.0	\$ —	\$ —	\$ 25,449.3	\$ (396,276.5)
2017 ACTUAL								
Beginning Net Assets Appropriable as adjusted (c)	\$ 142,061.5	\$ (549,041.4)	\$ 6,384.0	\$ 13,843.2	\$ 79,505.0	\$ 224,536.5	\$ 31,455.6	\$ (51,255.6)
Revenue	339,836.6	178,242.3	22,936.2	39,264.3	—	4,625.7	310.0	585,215.1
Expenditures	(338,424.1)	(245,028.4)	(13,793.3)	(17,401.4)	(79,505.0)	(215,647.3)	(6,905.1)	(916,704.6)
Ending Net Assets Appropriable	\$ 143,474.1	\$ (615,827.5)	\$ 15,526.9	\$ 35,706.1	\$ —	\$ 13,514.9	\$ 24,860.5	\$ (382,745.0)
Adjusted NAA 1/1/2018	\$ 140,154.8		\$ 15,065.1	\$ 35,336.9				
Adjustment (a)	\$ (3,319.3)		\$ (461.8)	\$ (369.2)				

(a) Adjustment to NAA required due to current 2018 estimate on collection of property tax levies and PPRT. See the Balance Sheets and Appropriable Revenue statements 01/01/2018 for the Corporate (pages 87-88), Construction (pages 95-96), and Stormwater Management (pages 99-100) Funds. The adjustment is reflected in the 2018 revenues.

(b) This statement is a summary presentation of pages 76-78, separating current revenue and NAA from the revenue category.

(c) Ending NAA for one year are revised for accounting adjustments, equity transfers, and changes in the amount of designations to establish beginning net assets for the next year.

(d) Revenue for the Retirement, Reserve Claim, and Bond Redemption & Interest Funds does not include the current year tax levies, which are reflected in the next year's NAA.

ALL FUNDS
SUMMARY OF REVENUE AND EXPENDITURES
2019 BUDGETED
(In Thousands)

	FUND							
	CORPORATE	CAPITAL IMPROVEMENTS BOND*	CONSTRUCTION	STORMWATER MANAGEMENT	RETIREMENT	BOND REDEMPTION & INTEREST	RESERVE CLAIM	TOTAL
REVENUE								
Net Assets Appropriable	\$ 131,296.6	\$ (609,357.7)	\$ 10,528.3	\$ 45,807.0	\$ 87,281.0	\$ 230,060.6	\$ 31,167.8	\$ (73,216.4)
Budget Reserve	(99,930.1)	—	—	—	—	—	—	(99,930.1)
Net Property Taxes	245,664.0	—	7,334.0	51,073.6	—	—	—	304,071.6
Personal Property Replacement Tax	15,000.0	—	—	—	—	—	—	15,000.0
Working Cash Borrowings Adjustment	(4,564.0)	—	(134.0)	(773.6)	—	—	—	(5,471.6)
Bond Sales (Present & Future)	—	832,551.7	—	—	—	—	—	832,551.7
Grants (Federal & State)	—	11,267.3	—	—	—	—	—	11,267.3
Investment Income	2,600.0	7,800.0	500.0	800.0	—	1,900.0	600.0	14,200.0
State Revolving Fund Loans	—	120,000.0	—	—	—	—	—	120,000.0
Property & Services	21,500.0	—	—	900.0	—	—	—	22,400.0
User Charge	46,000.0	—	—	—	—	—	—	46,000.0
TIF Differential Fee & Impact Fee	9,725.0	—	20.0	—	—	—	—	9,745.0
Equity Transfer	4,200.0	(4,200.0)	—	(6,396.9)	—	6,396.9	—	—
Resource Recovery	600.0	—	—	—	—	—	—	600.0
Miscellaneous	4,771.0	2,000.0	—	—	—	—	—	6,771.0
TOTAL REVENUE	\$ 376,862.5	\$ 360,061.3	\$ 18,248.3	\$ 91,410.1	\$ 87,281.0	\$ 238,357.5	\$ 31,767.8	\$ 1,203,988.5
EXPENDITURES								
Board of Commissioners	\$ 5,266.7	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 5,266.7
General Administration	19,790.5	—	—	—	—	—	—	19,790.5
Monitoring & Research	31,253.4	—	—	—	—	—	—	31,253.4
Procurement & Materials Mgmt.	9,786.1	—	—	—	—	—	—	9,786.1
Human Resources	60,108.0	—	—	—	—	—	—	60,108.0
Information Technology	18,432.3	—	—	—	—	—	—	18,432.3
Law	7,069.4	—	—	—	—	—	—	7,069.4
Finance	3,676.4	—	—	—	—	—	—	3,676.4
Engineering	25,473.3	360,061.3	18,248.3	—	—	—	—	403,782.9
Maintenance & Operations	196,006.4	—	—	—	—	—	—	196,006.4
Stormwater Management Fund	—	—	—	91,410.1	—	—	—	91,410.1
Retirement Fund	—	—	—	—	87,281.0	—	—	87,281.0
Bond Redemption & Interest Fund	—	—	—	—	—	238,357.5	—	238,357.5
Reserve Claim Fund	—	—	—	—	—	—	31,767.8	31,767.8
TOTAL EXPENDITURES	\$ 376,862.5	\$ 360,061.3	\$ 18,248.3	\$ 91,410.1	\$ 87,281.0	\$ 238,357.5	\$ 31,767.8	\$ 1,203,988.5

* 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
2018 ESTIMATED
(In Thousands)

	FUND								
	CORPORATE	CAPITAL IMPROVEMENTS BOND*	CONSTRUCTION	STORMWATER MANAGEMENT	RETIREMENT	BOND REDEMPTION & INTEREST	RESERVE CLAIM	TOTAL	
REVENUE									
Net Assets Appropriable	\$ 143,474.1	\$ (615,827.5)	\$ 15,526.9	\$ 35,706.1	\$ 89,604.0	\$ 248,287.6	\$ 30,591.2	\$ (52,637.6)	
Adjustment for Receipts	(3,319.3)	—	(461.8)	(369.2)	—	—	—	(4,150.3)	
Net Property Taxes	232,049.5	—	11,290.5	46,152.1	—	—	—	289,492.1	
Personal Property Replacement Tax	19,849.5	—	—	—	—	—	—	19,849.5	
Working Cash Borrowings Adjustment	(4,599.0)	—	(190.5)	(752.1)	—	—	—	(5,541.6)	
Bond Sales (Present & Future)	—	—	—	—	—	—	—	—	
Grants (Federal & State)	—	11,294.5	—	—	—	—	—	11,294.5	
Investment Income	2,594.0	5,266.0	341.0	595.0	—	2,226.0	458.1	11,480.1	
State Revolving Fund Loans	—	150,000.0	—	—	—	—	—	150,000.0	
Property & Services	22,003.0	—	—	—	—	—	—	22,003.0	
User Charge	46,000.0	—	—	—	—	—	—	46,000.0	
TIF Differential Fee & Impact Fee	10,725.0	—	10.0	—	—	—	—	10,735.0	
Equity Transfer	4,200.0	(4,200.0)	—	(5,770.6)	—	5,770.6	—	—	
Miscellaneous	5,695.0	2,000.0	—	4.9	—	20.0	—	7,719.9	
TOTAL REVENUE	\$ 478,671.8	\$ (451,467.0)	\$ 26,516.1	\$ 75,566.2	\$ 89,604.0	\$ 256,304.2	\$ 31,049.3	\$ 506,244.6	
EXPENDITURES									
Board of Commissioners	\$ 4,309.4	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 4,309.4	
General Administration	15,866.0	—	—	—	—	—	—	15,866.0	
Monitoring & Research	29,441.6	—	—	—	—	—	—	29,441.6	
Procurement & Materials Mgmt.	8,655.7	—	—	—	—	—	—	8,655.7	
Human Resources	53,743.9	—	—	—	—	—	—	53,743.9	
Information Technology	14,866.1	—	—	—	—	—	—	14,866.1	
Law	6,377.0	—	—	—	—	—	—	6,377.0	
Finance	3,464.5	—	—	—	—	—	—	3,464.5	
Engineering	26,035.5	157,890.7	15,987.8	—	—	—	—	199,914.0	
Maintenance & Operations	184,615.5	—	—	—	—	—	—	184,615.5	
Stormwater Management Fund	—	—	—	29,759.2	—	—	—	29,759.2	
Retirement Fund	—	—	—	—	89,604.0	—	—	89,604.0	
Bond Redemption & Interest Fund	—	—	—	—	—	256,304.2	—	256,304.2	
Reserve Claim Fund	—	—	—	—	—	—	5,600.0	5,600.0	
Equity Transfer	—	—	—	—	—	—	—	—	
TOTAL EXPENDITURES	\$ 347,375.2	\$ 157,890.7	\$ 15,987.8	\$ 29,759.2	\$ 89,604.0	\$ 256,304.2	\$ 5,600.0	\$ 902,521.1	

* 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.

CAPITAL IMPROVEMENTS BOND FUND
ESTIMATED BALANCE SHEET
JANUARY 1, 2019 AND 2018

		ASSETS			
		2019		2018	
		AMOUNT	AVAILABLE FOR APPROPRIATION	AMOUNT	AVAILABLE FOR APPROPRIATION
CURRENT ASSETS					
Cash & Investments		\$ 232,000,000	\$ 232,000,000	\$ 337,222,198	\$ 337,222,198
Grants Receivable		1,000,000	1,000,000	941,207	941,207
State Revolving Fund Loans Receivable		120,000,000	120,000,000	150,000,000	150,000,000
Total Current Assets		<u>\$ 353,000,000</u>	<u>\$ 353,000,000</u>	<u>\$ 488,163,405</u>	<u>\$ 488,163,405</u>
		LIABILITIES & FUND EQUITY			
CURRENT LIABILITIES					
Unpaid Bills:					
Contractual Services		\$ 74,000,000	\$ 74,000,000	\$ 73,937,199	\$ 73,937,199
Contracts Payable		888,357,685	888,357,685	1,040,318,906	1,040,318,906
Total Current Liabilities		<u>\$ 962,357,685</u>	<u>\$ 962,357,685</u>	<u>\$ 1,114,256,105</u>	<u>\$ 1,114,256,105</u>
Designated for Future Claims Liabilities		—	—	—	—
Total Liabilities & Designations		<u>\$ 962,357,685</u>	<u>\$ 962,357,685</u>	<u>\$ 1,114,256,105</u>	<u>\$ 1,114,256,105</u>
ASSETS APPROPRIABLE					
Net Assets Appropriable			<u>\$ (609,357,685)</u>		<u>\$ (626,092,700)</u>
Net Assets Appropriated			<u>\$ (609,357,685)</u>		<u>\$ (626,092,700)</u>
Estimated Revenue			969,418,985		939,075,600
Total Assets Appropriable			<u>\$ 360,061,300</u>		<u>\$ 312,982,900</u>
FUND EQUITY		<u>\$ (609,357,685)</u>		<u>\$ (626,092,700)</u>	
Total Liabilities & Fund Equity		<u>\$ 353,000,000</u>		<u>\$ 488,163,405</u>	

CAPITAL IMPROVEMENTS BOND FUND
APPROPRIABLE REVENUE
2019 - 2016

REVENUE DESCRIPTION	ESTIMATED			ACTUAL	
	2019 BUDGET	2018 ADJUSTED	2018 BUDGET	2017	2016
Revenue from Money & Property					
Bond Sales (Present & Future)	\$ 832,551,685	\$ —	\$ 776,281,100	\$ —	\$ 125,003,513
Investment Income	7,800,000	5,266,000	3,700,000	3,938,820	2,395,116
Subtotal	\$ 840,351,685	\$ 5,266,000	\$ 779,981,100	\$ 3,938,820	\$ 127,398,629
Revenue from Miscellaneous Sources					
Federal & State Grants	\$ 11,267,300	\$ 11,294,500	\$ 11,294,500	\$ 16,137,198	\$ 11,233,702
State Revolving Fund Loans	120,000,000	150,000,000	150,000,000	168,986,700	173,739,000
Miscellaneous	2,000,000	2,000,000	2,000,000	2,179,586	2,468,262
Subtotal	\$ 133,267,300	\$ 163,294,500	\$ 163,294,500	\$ 187,303,484	\$ 187,440,964
Total Revenue	\$ 973,618,985	\$ 168,560,500	\$ 943,275,600	\$ 191,242,304	\$ 314,839,593
Other Financing Sources (Uses)					
Equity Transfer	\$ (4,200,000)	\$ (4,200,000)	\$ (4,200,000)	\$ (13,000,000)	\$ —
GRAND TOTAL	\$ 969,418,985	\$ 164,360,500	\$ 939,075,600	\$ 178,242,304	\$ 314,839,593

**CONSTRUCTION FUND
ESTIMATED BALANCE SHEET
JANUARY 1, 2019 AND 2018**

		ASSETS			
		2019		2018	
		AMOUNT	AVAILABLE FOR APPROPRIATION	AMOUNT	AVAILABLE FOR APPROPRIATION
CURRENT ASSETS					
Cash & Investments		\$ 13,558,000	\$ 13,558,000	\$ 13,926,461	\$ 13,926,461
Taxes Receivable		11,290,500	11,322,000	16,405,000	16,454,139
Replacement Tax		—	—	—	—
Total Current Assets		<u>\$ 24,848,500</u>	<u>\$ 24,880,000</u>	<u>\$ 30,331,461</u>	<u>\$ 30,380,600</u>
		LIABILITIES & FUND EQUITY			
CURRENT LIABILITIES					
Unpaid Bills:					
Contracts Payable		\$ 2,075,700	\$ 2,075,700	\$ 2,340,000	\$ 2,340,000
Contractual Services		276,000	276,000	1,300,000	1,300,000
Machinery & Equipment		—	—	—	—
Due to:					
Construction Working Cash Fund		12,000,000	12,000,000	12,000,000	12,000,000
Total Current Liabilities		<u>\$ 14,351,700</u>	<u>\$ 14,351,700</u>	<u>\$ 15,640,000</u>	<u>\$ 15,640,000</u>
Total Liabilities			<u>\$ 14,351,700</u>		<u>\$ 15,640,000</u>
ASSETS APPROPRIABLE FOR 2019 AND 2018					
Net Assets Appropriable			<u>\$ 10,528,300</u>		<u>\$ 14,740,600</u>
Net Assets Appropriated			<u>\$ 10,528,300</u>		<u>\$ 14,740,600</u>
Estimated Revenue			7,720,000		11,340,000
Total Assets Appropriable			<u>\$ 18,248,300</u>		<u>\$ 26,080,600</u>
FUND EQUITY					
Designated for Future Claims Liabilities		\$ —		\$ —	
Undesignated		10,496,800		14,691,461	
Total Fund Equity		<u>\$ 10,496,800</u>		<u>\$ 14,691,461</u>	
Total Liabilities & Fund Equity		<u>\$ 24,848,500</u>		<u>\$ 30,331,461</u>	

Construction Fund Program

Projects Under Construction

Project Name	Project Number	Est. Construction Cost	MWRD 2019 Appropriation	Duration (days)	Award / Est. Award Date
Industrial Waste Division and Construction Office Renovation, CWRP	16-268-2V	\$ 2,668	\$ 29	805	Nov 2016
Television Inspection and Recording of Sewers and Manholes, District-wide	13-806-2S	1,944	921	1,080	Oct 2017
Furnish and Deliver Screens, Conveyors, and Grit Classifier, Various Locations	18-608-21	316	316	303	May 2018
Rehabilitation of Blower No. 9, CWRP	18-803-21	169	38	593	May 2018
Furnish, Deliver, and Install Fire Detection Systems, Various Locations	18-604-21	535	209	572	Jun 2018
Pavement Rehabilitation, Various Locations	18-614-21	881	500	578	Jun 2018
Furnish and Deliver Reconditioned Circuit Breakers, SSA	18-914-21	164	100	558	Jun 2018
Furnish and Deliver Sludge Pumps, SWRP	18-917-21	215	215	238	Jun 2018
Elevator Rehabilitation, MOB	J15090-054	529	411	375	Jun 2018
Control and Refrigeration Equipment Replacement at the M&R Facility, SWRP	18-184-21	298	100	185	Sep 2018
Recondition Pump Motors No. 1 and No. 2, KWRP	18-704-21	280	200	481	Sep 2018
Furnish, Deliver, and Install Influent Gate Actuators, OWRP	18-708-21	293	293	180	Sep 2018
HVAC Improvements, Various Locations	18-611-23	1,851	975	540	Oct 2018
Furnish and Deliver Submersible Pump, CSA	18-601-21	161	161	175	Nov 2018
Rehabilitate Raw Sewage Pump Rotating Assemblies, Various Locations	18-610-21	825	595	731	Nov 2018
Employee Benefits Software, District-wide	17-RFP-37	45	45	395	Dec 2018
Rehabilitation of Overhead Bridge Crane, SSA	18-906-21	240	125	390	Dec 2018
Railroad Track Improvements, SSA	18-913-21	1,565	825	486	Dec 2018
Sludge Pump Replacements, SWRP	18-916-21	825	825	395	Dec 2018
Total Projects Under Construction		\$ 13,804	\$ 6,883		

Awards in 2019

Project Name	Project Number	Est. Construction Cost	MWRD 2019 Appropriation	Duration (days)	Award / Est. Award Date
Furnish, Deliver, and Install Underground Steam and Utility Piping, CWRP	18-805-21	\$ 210	\$ 210	180	Jan 2019
Programmable Logic Controller Human Machine Interface Migration, CSA	19-805-21	563	563	350	Jan 2019
Storeroom Lighting Improvements, EWRP	J67795XX	50	50	180	Jan 2019
Avaya Telecom Project, Final Phase, District-wide	MWD0000013IT	150	150	364	Jan 2019
Microvi Pilot, OWRP	18-180-21	400	400	699	Feb 2019
Furnish, Deliver, and Install Grit Screw Conveyor, CWRP	18-802-21	300	300	180	Feb 2019
Furnish, Deliver, and Install Deep Anode Ground Bed System, CWRP	19-804-21	495	495	333	Feb 2019
Remove and Replace Two Carrier Chillers, MOBA	MWD2010002GA	1,000	1,000	89	Feb 2019
Rehabilitate Gloria Alitto Majewski Reservoir, KWRP	16-708-21	750	750	305	Mar 2019
Furnish and Deliver Excitation Control Equipment, NBPS and RAPS	19-603-21	480	480	305	Mar 2019
Furnish and Deliver Paddle Aerator, LASMA	19-610-21	560	560	213	Mar 2019
Replace Final Tank Channel Covers, OWRP	19-705-21	45	45	305	Mar 2019
Rebuild Gate Houses and Sludge Concentration Building, OWRP	19-707-21	155	155	305	Mar 2019
Furnish and Deliver Lathe, OWRP	19-716-21	170	170	305	Mar 2019
Furnish and Deliver Automated Online Water Quality Monitoring System, OWRP	19-721-21	97	97	153	Mar 2019
Discharge Valve Rehabilitation, Main Sewage Pump No. 5, SWRP	19-905-21	800	400	671	Mar 2019
Construct Plenum Fan Array, MOBA	MWD2010001GA	310	310	152	Mar 2019
Replace HVAC Coils, Various Locations	19-608-21	349	349	274	Apr 2019
Roof Restoration, Lockport Powerhouse	19-612-21	240	240	91	May 2019
HVAC System Replacements, Various Locations	19-613-21	1,168	453	610	May 2019
Furnish, Deliver, and Install Crane Braking System, MSPS	19-904-21	140	140	244	May 2019
Furnish and Deliver Four Lagoon Pumps, CALSMA and LASMA	19-611-21	180	180	183	Jul 2019
Collateral Channel Riverbed Restoration, SSA	18-145-2S	1,200	300	366	Aug 2019
Total 2019 Awards		\$ 9,812	\$ 7,797		
Cumulative Projects Under Construction and 2019 Awards		\$ 23,616	\$ 14,680		

Note: All cost figures are in thousands of dollars.

Capital Improvements Bond Fund Program

Awards in 2019

Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date
Drop Shaft 5 Inspection and Rehabilitation, NSA	14-372-3S	\$ 3,500	212	Jan 2019
Pump Rehabilitation and Diverter Gate Installation, EWRP	16-412-3M	550	322	Jan 2019
Furnish, Deliver, and Install Disc Filters, EWRP	18-702-31	4,000	730	Jan 2019
Furnish, Deliver, and Install Three Bar Screens, KWRP	18-703-31	1,350	713	Jan 2019
Energy Efficiency Improvements, SWRP	19-901-31	5,820	364	Jan 2019
Replacement of Tailrace Stop Logs, Headrace Gates, and Equipment at Lockport Powerhouse, SSA	15-830-3D	10,120	943	Feb 2019
Phosphorus Removal Struvite Facilities at the Fox River Water Reclamation District	18-IGA-35	2,639	659	Feb 2019
Rehabilitate One Electric Motor, SWRP	19-902-31	300	242	Feb 2019
Digester Rehabilitation and Gas Piping Replacement, SWRP	17-140-3P	15,000	704	Mar 2019
Installation and Removal of Cofferdam at Sluice Gate No. 2, Lockport Powerhouse Controlling Works, SSA	18-607-31	350	305	Mar 2019
North Side Sludge Pipeline Replacement - Section 1, NSA	07-027-3S	14,327	922	Apr 2019
Odor Control Systems at Two TARP Shafts and Decommissioning the Thornton Transitional Reservoir, CSA	15-266-4H	5,000	452	Apr 2019
Rehabilitation of Gravity Concentration Tank, CWRP	18-803-31	1,650	487	Apr 2019
Phosphorus Removal Liquid Facilities at the Fox River Water Reclamation District	18-IGA-36	9,762	921	Apr 2019
Modifications to TARP Structures, CSA and SSA	17-842-3H	3,500	317	May 2019
Digester Sludge Heating System Upgrades and Boiler Removal, CWRP	18-277-3M	10,500	493	Jun 2019
Rehabilitation of Steel Spandrel Beams of Pump and Blower House, OWRP	15-069-3D	10,000	903	Jul 2019
Rehabilitation of Elevator Shafts, MSPS	18-142-3H	1,500	412	Oct 2019
Rehabilitation of TARP Pumps, MSPS	18-144-3M	16,500	672	Oct 2019
Furnish, Deliver, and Install Disc Filters for Filters 3 and 4, HPWRP	19-701-31	1,400	517	Oct 2019
Roof Replacement of the Lue-Hing M&R Complex, SWRP	17-135-3V	6,500	493	Nov 2019
Rehabilitation of Locomotive Terminal Building, SWRP	18-143-3D	2,750	532	Nov 2019
Sidestream Enhanced Biological Phosphorus Removal Pilot Study, CWRP	18-248-3P	1,000	252	Nov 2019
Upper Des Plaines Intercepting Sewer 14B Rehabilitation, NSA	06-360-3S	6,700	313	Dec 2019
North Shore 1 Rehabilitation, NSA	10-047-3S	22,750	602	Dec 2019
Stickney Effluent Reuse Line, SSA	14-107-3S	800	193	Dec 2019
Utility Tunnel Cracks and Expansion Joints Rehabilitation, OWRP, KWRP, EWRP, HPWRP	17-843-3D	3,000	682	Dec 2019
Total 2019 Awards		\$ 161,268		

Projects Under Development

Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date
A/B and C/D Service Tunnel Rehabilitation - Phase III, SWRP	16-127-3D	\$ 17,000	1,047	Jan 2020
Battery B Final Settling Tanks, Rehabilitation of Concrete, SWRP	16-128-3D	2,000	381	Jan 2020
BioP Pilot Study, EWRP	18-414-3P	500	364	Mar 2020
39th Street Conduit Rehabilitation - Phase II, SSA	01-103-AS	24,700	690	Apr 2020
Battery D Final Settling Tanks, Rehabilitation of Concrete, SWRP	16-130-3D	2,000	472	May 2020
Upper Des Plaines Intercepting Sewer 11D, Ext. C Rehabilitation, NSA	11-404-3S	5,500	402	Jun 2020
Upper Des Plaines Intercepting Sewer 11D Rehabilitation, NSA	12-369-3S	5,500	402	Jul 2020
Battery A Final Settling Tanks, Rehabilitation of Concrete, SWRP	08-174-3D	2,000	450	Aug 2020
Gate Control Equipment Upgrade at TARP Control Structures, KWRP	06-358-3M	2,200	552	Nov 2020
Battery C Final Settling Tanks, Rehabilitation of Concrete, SWRP	16-129-3D	2,000	472	Nov 2020
Digester Rehabilitation and Gas Piping Replacement, CWRP	18-253-3P	15,000	772	Nov 2020
Palos Hills Pumping Station Force Main, CSA	11-242-3S	6,700	572	Feb 2021
Deammonification System, SWRP	13-101-3P	30,000	503	May 2021
McCook Reservoir Expanded Stage 2 Rock Wall Stabilization, SWRP	17-131-4F	5,000	1,230	Jan 2022
McCook Reservoir Expanded Stage 2 Aeration and Floor Features, SSA	17-132-4F	2,000	317	Jan 2026
Total Future Awards		\$ 122,100		
Cumulative 2019 and Future Awards		\$ 283,368		

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

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

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

	Method of Financing		
	State Revolving Fund Loans	General Obligation Bonds	Total
Tunnel and Reservoir Plan	\$ 16,500	\$ 5,000	\$ 21,500
Water Reclamation Plant	39,200	34,271	73,471
Expansion and Improvements	—	—	—
Solids Management	84,827	10,120	94,947
Collection Facilities	32,200	61,250	93,450
Replacement of Facilities	—	—	—
Other	—	—	—
	\$ 172,727	\$ 110,641	\$ 283,368

Projects Under Construction

Projects under construction in the Capital Improvements Bond Fund were appropriated in prior years using the full encumbrance (obligation) method of budgetary accounting. The construction contract award amount and the anticipated completion date are provided in this table.

Project Name	Project Number	Est. Construction Cost	Award Date	Est. Substantial Completion Date
Thornton Composite Reservoir Mining, Land, and Corp Costs, CSA	77-235-2F	\$ 52,806	Jun 1998	Oct 2020
McCook Reservoir Stages 1 & 2, SSA	73-161-2H	137,500	May 1999	Oct 2023
D799 Switchgear Replacement, SWRP	09-182-3E	12,771	Dec 2015	Mar 2020
A/B & C/D Service Tunnel and Connecting Tunnel Rehabilitation - Phase II, SWRP	04-132-3D	20,906	May 2016	May 2019
McCook Reservoir Des Plaines Inflow Tunnel	13-106-4F	107,831	Jun 2016	May 2020
Painting of Final Tanks, Various Locations	17-601-31	1,582	Jul 2017	Dec 2019
Conversion of Two Gravity Concentration Tanks to Primary Sludge Fermenters, SWRP	15-124-3P	4,095	Sep 2017	Jun 2019
Furnish, Deliver, and Install Boiler Controls, SWRP	16-901-31	1,224	Sep 2017	Mar 2019
Installation of Baffle Plates in Final Settling Tanks, OWRP	15-074-3D	1,405	Nov 2017	Aug 2019
Installation of Shaftless Screw Conveyors for Aerated Grit Tanks, SWRP	17-902-31	2,595	Dec 2017	Jan 2021
Heavy Equipment Storage Building Site Improvements, Bulk Material Storage Building, CWRP and OWRP	17-845-3P	1,962	Apr 2018	Mar 2019
Emerson Ovation Distributed Control System, NSA	18-704-31	1,802	May 2018	Nov 2019
Rehabilitation of North Branch Pumping Station, NSA	16-079-3D	4,613	Aug 2018	Nov 2019
Summit Conduit Rehabilitation, SSA	16-126-3SR	2,900	Aug 2018	Jul 2019
Switchgear & Motor Control Center Replacement, OWRP	17-080-3E	3,577	Sep 2018	Jul 2020
Structural Repairs and Roofing Replacement at 95th Street Pumping Station, CSA	17-276-3D	5,000	Nov 2018	Sep 2020
Furnish, Deliver, and Install Telemetry Replacement for SCADA Control, Various Locations	17-606-31	545	Nov 2018	Oct 2019
Odor Control Facilities at WASSTRIP®, Southwest Coarse Screen and Overhead Weir, and Post-Centrifuge Building, SWRP	17-134-3M	15,000	Dec 2018	Jul 2020
Furnish, Deliver and Install Odor Control System, KWRP, HPWRP, and CWRP	17-844-3P	4,347	Dec 2018	Apr 2020
Total Projects Under Construction		\$ 382,461		

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

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

Stormwater Management Capital Improvements Bond Fund Program

Awards in 2019

Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date
Addison Creek Reservoir, SSA	11-186-3F	\$ 95,761	1,124	Jan 2019
Streambank Stabilization Project on Melvina Ditch in Oak Lawn and Chicago Ridge, CSA	13-248-3F	8,800	774	Jan 2019
Land Acquisition for a Flood Control Project in the vicinity of 131 Street and Cypress Drive in Palos Heights, CSA	17-IGA-04	370	119	May 2019
* Construction of a Levee along Thorn Creek at Arquilla Park, Glenwood, CSA	15-IGA-14	3,483	306	Jun 2019
Streambank Stabilization Project on Tinley Creek, CSA	10-882-AF	3,806	1,412	Jul 2019
Addison Creek Channel Improvements, SWRP	11-187-3F	42,700	1,048	Oct 2019
Total 2019 Awards		\$ 154,920		

*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 Financing

State Revolving Fund Loans	Alternate Bonds	Grants	Total
\$ 150,680	\$ 4,240	\$ —	\$ 154,920

Projects Under Construction

Projects under construction in the Capital Improvements Bond Fund were appropriated in prior years using the full encumbrance (obligation) method of budgetary accounting. The construction contract award amount and the anticipated completion date are provided in this table.

Project Name	Project Number	Est. Construction Cost	Award Date	Est. Substantial Completion Date
Melvina Ditch Reservoir Improvements, SSA	14-263-3F	\$ 14,245	Nov 2017	May 2021
* Buffalo Creek Reservoir Expansion, NSA	13-370-3F	8,598	Feb 2018	Mar 2020
Streambank Stabilization Project along Midlothian Creek in Tinley Park, CSA	10-882-CF	645	Nov 2018	Jan 2022
Pilot Study for Investigating Technology to Address Basement Backups, CSA	16-IGA-20	400	Nov 2018	Dec 2020
Total Projects Under Construction		\$ 23,888		

*These projects are 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.

Stormwater Management Fund Program

Projects Under Construction						
Project Name	Project Number	Est. Construction Cost	MWRD 2019 Appropriation	Award Date	Est. Substantial Completion Date	
Flood Control/Streambank Stabilization Project on Tinley Creek in Crestwood, CSA	10-883-AF	\$ 7,583	\$ 363	Sep 2015	Jan 2020	
Streambank Stabilization/Flood Control Project on Tinley Creek in Orland Hills, CSA	10-882-DF	664	133	Apr 2016	Aug 2020	
McDermott Drive/Morris Avenue Storm Sewer Improvements, SSA	16-IGA-04	3,654	1,800	Jul 2016	Jul 2019	
Installation of Green Infrastructure at Chicago Public Schools, Various Locations	15-IGA-20	16,000	10,575	Sep 2016	Dec 2022	
* Buffalo Creek Reservoir Expansion, NSA	13-370-3F	1,081	540	Feb 2018	Mar 2020	
Flood Control Project at Arrowhead Lake in Palos Heights, CSA	10-883-BF	1,200	1,165	Sep 2018	Jul 2022	
Flood Control Project on Natalie Creek in Oak Forest and Midlothian, CSA	14-252-5F	7,569	3,500	Sep 2018	Jan 2021	
Land Acquisition for the Flood Control Project on Midlothian Creek in Robbins, CSA	17-IGA-02	200	100	Sep 2018	Oct 2019	
Parking Lot Pavers and a Bioinfiltration Basin at the Arlington Heights Police Station, NSA	18-IGA-01	358	100	Sep 2018	Mar 2019	
Green Alleys Project in Harwood Heights, NSA	18-IGA-09	384	234	Sep 2018	Jun 2019	
Storm Sewers in Reuters Subdivision in Franklin Park, SSA	18-IGA-23	378	189	Sep 2018	Jul 2019	
Streambank Stabilization Projects for Addison Creek, SSA	14-108-5F	1,206	886	Oct 2018	Aug 2022	
Stormwater Infiltration Through the Establishment of Native Habitat at Three Chicago Parks, Various Locations	18-IGA-04	239	189	Oct 2018	Apr 2019	
Green Alleys Project in Maywood, SSA	18-IGA-10	841	641	Oct 2018	Jun 2019	
Garfield Park Community Eco Orchard in Chicago, SSA	18-IGA-05	500	400	Nov 2018	Jan 2019	
University of Illinois at Chicago Green Infrastructure at the Arthington Mall, SSA	18-IGA-18	242	192	Nov 2018	Jan 2019	
Groveland Avenue Levee Improvements in Riverside, SSA	18-IGA-20	2,506	1,052	Nov 2018	Mar 2019	
Expansion of Existing Detention Basin in Orland Park, CSA	18-IGA-33	558	558	Nov 2018	Sep 2019	
Permeable Pavement and Rain Gardens in Posen, CSA	18-IGA-15	125	125	Dec 2018	Apr 2019	
New Storm Sewers and Outfall to the North Shore Channel in Lincolnwood, NSA	18-IGA-22	1,392	1,392	Dec 2018	Feb 2019	
Culvert Improvements in Elk Grove Village, NSA	18-IGA-30	1,250	646	Dec 2018	Dec 2020	
Total Projects Under Construction		\$ 47,930	\$ 24,780			

Awards in 2019

Project Name	Project Number	Est. Construction Cost	MWRD 2019 Appropriation	Duration (days)	Est. Award Date
Streambank Stabilization Project along Calumet Union Drainage Ditch, CSA	10-882-BF	\$ 1,568	\$ 634	1,261	Jan 2019
Flood Control Project on Midlothian Creek in Robbins, CSA	14-253-5F	11,000	4,100	502	Jan 2019
Storm Sewer Improvements in La Grange, SSA	16-IGA-02	2,000	2,000	369	Jan 2019
Green Alleys Project in Chicago, CSA	18-IGA-03	197	197	59	Jan 2019
Stormwater Storage in Mt. Prospect, NSA	18-IGA-25	1,862	1,113	681	Jan 2019
Storm Sewers in Glenview, NSA	18-IGA-27	500	500	170	Apr 2019
Storm Sewers and Outfall in Forest View, SSA	18-IGA-28	1,000	1,000	150	Apr 2019
Stormwater Storage Areas in Niles, NSA	18-IGA-31	4,217	504	585	Apr 2019
Relief Sewers to Mitigate Basement Backups in Arlington Heights, NSA	18-IGA-34	1,370	1,370	417	Apr 2019
Parking Lot Conversion in Park Ridge, NSA	18-IGA-08	270	270	59	May 2019
Wetland and Park Storage Projects in Winnetka, NSA	18-IGA-24	3,238	418	424	May 2019
* Construction of a Levee along Thorn Creek at Arquilla Park in Glenwood, CSA	15-IGA-14	387	200	306	Jun 2019
Lake Catherine Commuter Parking Lot in Palos Heights, CSA	18-IGA-14	184	184	59	Jun 2019
Storm Sewers Connection to Existing Des Plaines River Outfall in Forest Park, SSA	18-IGA-21	1,106	646	424	Jun 2019
Flood Control Project on Farmers and Prairie Creeks, NSA	12-056-5F	14,100	6,183	713	Jul 2019
Flood Control Project on 1st Avenue from Roosevelt Road to Cermak Road, SSA	14-111-5F	5,200	2,600	452	Jul 2019
Flood Control in the vicinity of 131st Street and Cypress Drive in Palos Heights, CSA	14-259-5F	200	200	352	Jul 2019
Winchester Avenue Green Infrastructure Project in Calumet Park, CSA	18-IGA-02	325	163	300	Jul 2019
Orland Park Nature Center and Green Roofs in Orland Park, CSA	18-IGA-13	146	73	300	Aug 2019
Flood Control Project for Deer Creek, CSA	10-884-BF	6,500	1,720	683	Sep 2019
Green Infrastructure for the Peterson Ridge Metra Station in Chicago, NSA	18-IGA-11	1,082	541	59	Nov 2019
Total 2019 Awards		\$ 56,452	\$ 24,616		

Projects Under Development

Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date
Flood Control Project on the West Fork of the North Branch of the Chicago River, NSA	16-IGA-18	\$ 6,600	729	Feb 2020
Flood Control Project along Plainfield Road in Countryside, La Grange, McCook, and Lyons Township, SSA	14-112-5F	17,000	729	Mar 2020
Flood Control Project in the vicinity of 135th Street and Central Avenue in Crestwood, CSA	14-258-5F	9,300	317	Mar 2020
Storm Sewers and Outfall to Flagg Creek in Western Springs, SSA	18-IGA-32	192	240	Mar 2020
Flood Control Project for the Washington Street Area in Blue Island, CSA	14-260-5F	5,700	682	May 2020
Flood Control Project on Willow Road at McDonald Creek Tributary A in Prospect Heights, NSA	14-371-5F	1,800	670	May 2020
Flood Control Project on Calumet-Sag Tributary C in Bremen Township and Midlothian, CSA	14-257-5F	3,600	317	Jun 2020
Culvert Upsizing and Channel Improvements on Boca Rio Ditch in Oak Forest, CSA	18-IGA-26	203	120	Jun 2020
Flood Control Project on Central Road from the Des Plaines River to Greenwood Road, NSA	14-065-5F	12,000	683	Feb 2021
Total Future Awards		\$ 56,395		
Cumulative Projects Under Construction, 2019 Awards, and Future Awards		\$ 160,777		

* 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.

**METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE TENTATIVE 2019 BUDGET RECOMMENDATIONS**

Department Page Number:
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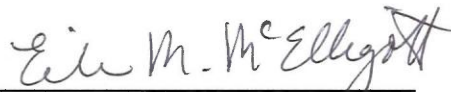
Fund: 101 Department Number: 15000 Department Name: General Administration

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item Name</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>No.</i>	<i>TO \$ Amount</i>	<i>No.</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
23	134	601010	Salaries of Regular Employees		\$10,917,700		\$10,898,400		(\$19,300)	Decrease is due to the position changes detailed below.
23	134	601060	Compensation Plan Adjustments		\$664,600		\$661,100		(\$3,500)	Decrease is due to the position changes detailed below.
23	134	612280	Subscriptions and Membership Dues		\$838,100		\$933,500		\$95,400	Increase is due to the addition of annual membership dues for the DuPage River Salt Creek Workgroup.
--	136	052	Compliance Officer #2 (Diversity Officer) (New Grade HP14) (HP15)	1		0		(1)		A crosshatch #2 was implemented on one position in Section 052.
--	136	052	Diversity Officer (HP14)	5		6		1		A crosshatch #2 was implemented on one position in Section 052.

GENERAL ADMINISTRATION BUDGET TOTAL: \$19,717,900 \$19,790,500 \$72,600

November 2018 (BF-20)


Department Head (Recommended)


Budget Officer (Reviewed)


Executive Director (Approved)

12/5/18
Date

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**METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE TENTATIVE 2019 BUDGET RECOMMENDATIONS**

Department Page Number:
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Fund: 101 Department Number: 16000 Department Name: Monitoring & Research

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item Name</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>No.</i>	<i>TO \$ Amount</i>	<i>No.</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
--	--	612400	Intergovernmental Agreements		\$0		\$49,600		\$49,600	Increase is due to study assessment costs related to the District's membership in the DuPage River Salt Creek Workgroup.
25	156	612430	Payments for Professional Services		\$102,400		\$92,400		(\$10,000)	Decrease is due to the elimination of the nutrient assessment and reduction plan, as these studies will be undertaken by the DuPage River Salt Creek Workgroup.
25	156	612490	Contractual Services, N.O.C.		\$365,600		\$336,000		(\$29,600)	Decrease is due to the re-prioritization of projects and favorable bids on 19-105-11, Collection, Shipment, and Analysis of Water Samples from the Thornton Composite Reservoir and Monitoring Wells, and the Analysis of Monitoring Well Samples from the McCook Reservoir, Site.
26	157	634970	Testing and Laboratory Equipment		\$394,300		\$384,300		(\$10,000)	Decrease is due to the re-prioritization of projects and the deferral of a portion of the telemetry system project.
28	159	122	Environmental Research Technician (HP11)	6		7		1		Title change for one position in Section 122.
28	159	122	Laboratory Technician II (HP11)	1		0		(1)		Title change for one position in Section 122.
28	159	122	Laboratory Technician I #1 (HP10)	1		0		(1)		A crosshatch #1 was implemented on one position in Section 122.
31	162	166	Assistant Environmental Chemist #1 (HP14)	1		0		(1)		A crosshatch #1 was implemented on one position in Section 166.

MONITORING & RESEARCH BUDGET TOTAL: \$31,253,400 \$31,253,400 \$0

November 2018 (BF-20)

Eduard W. Podczeminski

Department Head (Recommended)

Shellee A. Keadle

Budget Officer (Reviewed)

Brian Duckworth

Executive Director (Approved)

12/5/18

Date

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**METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE TENTATIVE 2019 BUDGET RECOMMENDATIONS**

Department Page Number:
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Fund: 101 Department Number: 25000 Department Name: Human Resources

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item Name</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>No.</i>	<i>TO \$ Amount</i>	<i>No.</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
36	193	601010	Salaries of Regular Employees		\$6,709,300		\$6,684,300		(\$25,000)	Decrease is due to the updated time frame for the apprenticeship program.
36	193	612430	Payments for Professional Services		\$979,900		\$1,004,900		\$25,000	Increase is due to the addition of consulting services to review the safety program.

HUMAN RESOURCES BUDGET TOTAL: \$60,108,000 \$60,108,000 \$0

November 2018 (BF-20)

Benny Sanders
Department Head (Recommended)

Shelly Smith
Budget Officer (Reviewed)

Brian Beckoush
Executive Director (Approved)

12/5/18
Date

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**METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE TENTATIVE 2019 BUDGET RECOMMENDATIONS**

Department Page Number:
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Fund: 101 Department Number: 27000 Department Name: Information Technology

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item Name</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>No.</i>	<i>TO \$ Amount</i>	<i>No.</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
37	205	612430	Payments for Professional Services		\$940,200		\$960,800		\$20,600	Increase is due to the reallocation of funding for the Board Room audio project to a more appropriate commitment item.
37	205	612840	Communications Equipment Maintenance (Includes Software)		\$777,700		\$779,200		\$1,500	Increase is due to the reallocation of funding for the Board Room audio project to a more appropriate commitment item.
37	205	623810	Computer Supplies		\$555,300		\$556,200		\$900	Increase is due to the reallocation of funding for the Board Room audio project to a more appropriate commitment item.
37	205	623850	Communications Supplies		\$162,800		\$156,300		(\$6,500)	Decrease is due to the reallocation of funding for the Board Room audio project to a more appropriate commitment item.
37	205	634840	Communications Equipment (Includes Software)		\$16,500		\$0		(\$16,500)	Decrease is due to the reallocation of funding for the Board Room audio project to a more appropriate commitment item.
--	207	286	Computer Systems Administrator #2 (Desktop Engineer) (New Grade HP16) (HP17)	3		2		(1)		A crosshatch #2 was implemented on one position in Section 286.
--	207	286	Desktop Engineer (HP16)	0		1		1		A crosshatch #2 was implemented on one position in Section 286.
--	208	288	Computer Systems Coordinator #2 (IT Support Analyst II) (New Grade HP13) (HP15)	1		2		1		Reclassification of one position in Section 288.
--	208	288	Computer Systems Coordinator #2 (IT Support Analyst I) (New Grade HP11) (HP15)	1		0		(1)		Reclassification of one position in Section 288.
--	208	288	IT Support Analyst II (HP13)	2		4		2		Reclassification of two positions in Section 288.
--	208	288	IT Support Analyst I (HP11)	2		0		(2)		Reclassification of two positions in Section 288.


INFORMATION TECHNOLOGY BUDGET TOTAL:

\$18,432,300

\$18,432,300

\$0

November 2018 (BF-20)


Department Head (Recommended)


Budget Officer (Reviewed)


Executive Director (Approved)

12/5/18
Date

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**METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE TENTATIVE 2019 BUDGET RECOMMENDATIONS**

Department Page Number:
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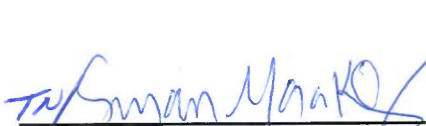
Fund: 101 Department Number: 30000 Department Name: Law

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item Name</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>No.</i>	<i>TO \$ Amount</i>	<i>No.</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
38	222	601010	Salaries of Regular Employees		\$5,485,500		\$5,386,200		(\$99,300)	Decrease is due to the transfer of one Public Affairs Specialist position to the Stormwater Management Fund.
--	224	342	Public Affairs Specialist (HP14)	1		0		(1)		One position was transferred to Section 522 in the Stormwater Management Fund.

LAW BUDGET TOTAL: \$7,168,700 \$7,069,400 (\$99,300)

November 2018 (BF-20)


Department Head (Recommended)


Budget Officer (Reviewed)


Executive Director (Approved)

12/5/18
Date

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**METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE TENTATIVE 2019 BUDGET RECOMMENDATIONS**

Department Page Number:
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Fund: 101 Department Number: 40000 Department Name: Finance

THE FOLLOWING CHANGES ARE RECOMMENDED:

Budget		Code	Position Title or Line Item Name	No.	FROM	No.	TO	No.	Plus/(Minus)	Explanation
Tentative Page	ED Rec. Page				\$ Amount		\$ Amount		\$ Amount	
39	234	601010	Salaries of Regular Employees		\$3,101,900		\$3,128,600		\$26,700	Increase is due to the addition of one Financial Analyst position, offset by the drop of one Accounting Associate position.
--	236	452	Financial Analyst (HP16)	1		2		1		One position was added in Section 452.
--	236	452	Accounting Associate (HP12)	1		0		(1)		One position was dropped in Section 452.

FINANCE BUDGET TOTAL: \$3,649,700 \$3,676,400 \$26,700

November 2018 (BF-20)


Department Head (Recommended)


Budget Officer (Reviewed)


Executive Director (Approved)

12/5/18
Date

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**METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE TENTATIVE 2019 BUDGET RECOMMENDATIONS**

Department Page Number:
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Fund: 101 Department Number: 67000 Department Name: Maintenance & Operations - North Service Area

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>TO \$ Amount</i>	<i>No.</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
45	276	612010	Travel		\$8,000	\$14,000		\$6,000	Increase is due to the additional travel related to Electrical Energy and Ovation Distributed Control System conferences and seminars.
45	276	612030	Meals and Lodging		\$16,200	\$23,200		\$7,000	Increase is due to the additional meals and lodging related to Electrical Energy and Ovation Distributed Control System conferences and seminars.
45	276	612410	Governmental Service Charges		\$3,262,500	\$3,438,500		\$176,000	Increase is due to the updated estimate of the District's share of Fox River Water Reclamation District expenses.
45	276	612530	Farming Services		\$34,700	\$24,700		(\$10,000)	Decrease is due to the Fischer Farm horticultural center not requiring operational services in 2019.
45	276	612680	Repairs to Buildings		\$278,700	\$208,700		(\$70,000)	Decrease is due to the deferral of 19-968-11, Remove Paint and Seal Ceilings, North Branch Pumping Station.
45	276	623070	Electrical Parts and Supplies		\$1,251,900	\$1,211,200		(\$40,700)	Decrease is due to the reduced need for Trojan ultraviolet parts, as a portion of the earmarked purchases are being made in 2018.
46	277	623780	Safety and Medical Supplies		\$24,000	\$12,000		(\$12,000)	Decrease is due to the deferral of a request for confined space entry equipment.
46	277	623850	Communications Supplies		\$24,300	\$15,000		(\$9,300)	Decrease is due to the reduced need for handheld radios in the North Service Area.
46	277	634650	Equipment for Process Facilities		\$107,700	\$97,700		(\$10,000)	Decrease is due to the deferral of a request for a service water pump at the Hanover Park WRP.
46	277	634760	Material Handling and Farming Equipment		\$37,000	\$0		(\$37,000)	Decrease is due to the deferral of 19-705-11, Furnish and Deliver an Electric Forklift, O'Brien WRP.

NORTH SERVICE AREA BUDGET TOTAL:

\$43,382,000

\$43,382,000

\$0

November 2018 (BF-20)

Brian Perbouch / BG

Acting Department Head (Recommended)

Shelley A. Ross

Budget Officer (Reviewed)

Brian Perbouch

Executive Director (Approved)

12/5/18

Date

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**METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE TENTATIVE 2019 BUDGET RECOMMENDATIONS**

Department Page Number:
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Fund: 101 Department Number: 68000 Department Name: Maintenance & Operations - Calumet Service Area

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>TO \$ Amount</i>	<i>No.</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
--	294	843	Engineering Technician IV #1 (HP12)	1		0		(1)	A crosshatch #1 was implemented on one position in Section 843.

CALUMET SERVICE AREA BUDGET TOTAL: \$36,634,900 \$36,634,900 \$0

November 2018 (BF-20)

Brian Perovich/BC
Acting Department Head (Recommended)

Shelley Hooks
Budget Officer (Reviewed)

Brian Perovich
Executive Director (Approved)

12/5/18
Date

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METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE TENTATIVE 2019 BUDGET RECOMMENDATIONS

Department Page Number:
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Fund: 101 Department Number: 69000 Department Name: Maintenance & Operations - Stickney Service Area

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>TO \$ Amount</i>	<i>No.</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
49	304	612150	Electrical Energy		\$20,926,700	\$20,726,700		(\$200,000)	Decrease is due to an updated estimate for electrical energy.
49	304	612650	Repairs to Process Facilities		\$2,680,700	\$3,080,700		\$400,000	Increase is due to the addition of outside services for centrifuge maintenance which is beyond the capabilities of in-house staff.
50	305	623270	Mechanical Repair Parts		\$2,139,300	\$1,939,300		(\$200,000)	Decrease is due to an updated estimate for mechanical repair parts.

STICKNEY SERVICE AREA BUDGET TOTAL: \$84,355,400 \$84,355,400 \$0

November 2018 (BF-20)

MAINTENANCE & OPERATIONS

BUDGET TOTAL: \$196,006,400 \$196,006,400 \$0

Dan Perovich / DG
Acting Department Head (Recommended)

Shelley Harts
Budget Officer (Reviewed)

Brian Bernouch
Executive Director (Approved)

12/5/18
Date

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**METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE TENTATIVE 2019 BUDGET RECOMMENDATIONS**

Department Page Number:
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Fund: 101 Department Number: 50000 Department Name: Engineering

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item Name</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>No.</i>	<i>TO \$ Amount</i>	<i>No.</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
--	324	545	Engineering Draftsman II (HP12)	1		2		1		A crosshatch #4 was implemented on one position in Section 545.
--	324	545	Engineering Draftsman II #4 (HP12)	1		0		(1)		A crosshatch #4 was implemented on one position in Section 545.
ENGINEERING BUDGET TOTAL:					<u>\$25,473,300</u>		<u>\$25,473,300</u>		<u>\$0</u>	

November 2018 (BF-20)


Department Head (Recommended)


Budget Officer (Reviewed)


Executive Director (Approved)

12/5/18
Date

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**METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE TENTATIVE 2019 BUDGET RECOMMENDATIONS**

Department Page Number:
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Fund: 201 Department Number: 50000 Fund Name: Construction

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>TO \$ Amount</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
54	385	612240	Testing and Inspection Services		\$1,270,000	\$1,303,000	\$33,000	Increase is due to carryforwards of 18-851-3C, Geotechnical Analysis and 18-852-3C, Concrete and Materials Testing and Inspection.
54	385	612400	Intergovernmental Agreements		\$68,500	\$1,068,500	\$1,000,000	Increase is due to capital project assessments in connection with the DuPage River Salt Creek Workgroup.
54	385	612430	Payments for Professional Services		\$1,194,400	\$1,131,200	(\$63,200)	Decrease is due to the revised estimate for University Master Agreements.
54	385	634600	Equipment for Collection Facilities		\$480,000	\$641,000	\$161,000	Increase is due to the carryforward of 18-601-21, Furnish and Deliver Submersible Pump, CSA.
54	385	634650	Equipment for Process Facilities		\$1,514,000	\$1,297,000	(\$217,000)	Decrease is due to the anticipated 2018 completion of 18-605-21, Furnish and Deliver Station Battery Equipment, Various Locations (\$225,000) and 18-613-21, Furnish and Deliver HVAC Coils, CWRP (\$132,000), offset by revised estimates for 19-608-21, Replace HVAC Coils, Various Locations (\$124,000) and 18-608-21, Furnish and Deliver Screens, Conveyors, and Grit Classifier, Various Locations (\$16,000).
54	385	634820	Computer Software		\$0	\$45,000	\$45,000	Increase is due to the carryforward of employee benefit software licenses project.
54	385	634860	Vehicle Equipment		\$0	\$180,000	\$180,000	Increase is due to the carryforward of fleet vehicle purchases that were unable to be delivered in 2018.
54	385	645650	Process Facilities Structures		\$2,109,000	\$1,209,000	(\$900,000)	Decrease is due to the reallocation of 18-706-21, Furnish, Deliver, and Install Three Bar Screens, KWRP from the Construction Fund to the Capital Improvements Bond Fund. The project number will be changed to 18-703-31 to reflect the change in Fund.

CONSTRUCTION FUND BUDGET TOTAL: \$17,912,300 \$18,248,300 \$336,000

November 2018 (BF-20)

Catherine A. O'Connor

Department Head (Recommended)

Shelly Heath

Budget Officer (Reviewed)

Brian Beckwith

Executive Director (Approved)

12/5/18

Date

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Brian Perovich

Acting Department Head (Recommended)

**METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE TENTATIVE 2019 BUDGET RECOMMENDATIONS**

Department Page Number:
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Fund: 201 Department Number: 50000 Fund Name: Construction

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>TO \$ Amount</i>	<i>No.</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
54	385	645680	Buildings		\$2,936,000	\$2,986,000		\$50,000	Increase is due to the carryforward of the JOC project for lighting improvements at the Egan WRP.
54	385	645700	Preservation of Collection Facility Structures		\$2,805,000	\$2,505,000		(\$300,000)	Decrease is due to the reallocation of 19-925-21, Rehabilitate One Electric Motor, SWRP from the Construction Fund to the Capital Improvements Bond Fund. The project number will be changed to 19-902-31 to reflect the change in Fund.
54	385	645750	Preservation of Process Facility Structures		\$1,232,800	\$1,449,800		\$217,000	Increase is due to the revised estimate for 18-805-21, Furnish, Deliver, and Install Underground Steam and Utility Piping, CWRP (\$117,000) and the lead time to receive equipment under 18-916-21, Sludge Pump Replacements, SWRP (\$100,000).
54	385	645780	Preservation of Buildings		\$1,108,000	\$1,238,200		\$130,200	Increase is due to carryforwards of J16121005, Control and Refrigeration Equipment Replacement in the M&R Department's Environmental Rooms, SWRP (\$100,000) and 16-268-2V, Industrial Waste Division and Construction Office Renovation, CWRP (\$30,200).

CONSTRUCTION FUND BUDGET TOTAL: \$17,912,300 \$18,248,300 \$336,000

November 2018 (BF-20)

Catherine A. O'Connor

Department Head (Recommended)

Shelley Strick

Budget Officer (Reviewed)

Brian Benkoich

Executive Director (Approved)

12/5/18

Date

12

Page

Brian Perkins / DB

Acting Department Head (Recommended)

**METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE TENTATIVE 2019 BUDGET RECOMMENDATIONS**

Department Page Number:
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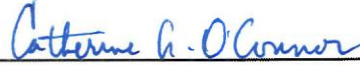
Fund: 401 Department Number: 50000 Fund Name: Capital Improvements Bond


THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>TO \$ Amount</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
59	459	612400	Intergovernmental Agreements		\$12,302,500	\$12,871,100	\$568,600	Increase is due to updated estimates for 18-IGA-36, Phosphorus Removal Liquid Facilities at the Fox River Water Reclamation District (\$422,100) and 18-IGA-35, Phosphorus Removal Struvite Facilities at the Fox River Water Reclamation District (\$146,500).
59	459	612450	Professional Engineering Services for Construction Projects		\$4,500,000	\$7,500,000	\$3,000,000	Increase is due to the addition of 18-853-3D, Civil Structural and Architectural Engineering Consulting Services.
59	459	645620	Waterway Facilities Structures		\$66,687,000	\$167,235,700	\$100,548,700	Increase is due to the deferral and anticipated 2019 award of 11-186-3F, Addison Creek Reservoir, SSA.
59	459	645650	Process Facilities Structures		\$13,100,000	\$14,450,000	\$1,350,000	Increase is due to the reallocation of 18-703-31, Furnish, Deliver, and Install Three Bar Screens, KWRP, from the Construction Fund to the Capital Improvements Bond Fund.
59	459	645700	Preservation of Collection Facility Structures		\$58,493,800	\$58,793,800	\$300,000	Increase is due to the reallocation of 19-902-31, Rehabilitate One Electric Motor, SWRP, from the Construction Fund to the Capital Improvements Bond Fund.
59	459	645720	Preservation of Waterway Facility Structures		\$13,553,800	\$13,903,800	\$350,000	Increase is due to the deferral and anticipated 2019 award of 18-607-31, Installation and Removal of Cofferdam at Sluice Gate No. 2, Lockport Powerhouse Controlling Works, SSA.
59	459	645750	Preservation of Process Facility Structures		\$42,318,300	\$45,895,800	\$3,577,500	Increase is due to the addition of 17-843-3D, Utility Tunnel Cracks and Expansion Joints Rehabilitation, OWRP, KWRP, EWRP, and HPWRP (\$3,000,000) and the deferral and anticipated 2019 award of 16-412-3M, Pump Rehabilitation and Diverter Gate Installation, EWRP (\$577,500).
59	459	656010	Land		\$300,000	\$1,664,700	\$1,364,700	Increase is due to updated estimates for land acquisitions related to 11-187-3F, Addison Creek Channel Improvements, SWRP.
60	460	667340	Payments for Easements		\$1,750,000	\$2,043,900	\$293,900	Increase is due to updated estimates for easements related to 11-187-3F, Addison Creek Channel Improvements, SWRP.

CAPITAL IMPROVEMENTS BOND FUND BUDGET TOTAL: \$248,707,900 \$360,061,300 \$111,353,400

November 2018 (BF-20)


Department Head (Recommended)


Budget Officer (Reviewed)


Executive Director (Approved)

12/5/18
Date

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**METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE TENTATIVE 2019 BUDGET RECOMMENDATIONS**

Department Page Number:
1 of 1

Fund: 501 Department Number: 50000 Fund Name: Stormwater Management

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>TO \$ Amount</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
61	535	601010	Salaries of Regular Employees		\$8,502,700	\$8,602,000	\$99,300	Increase is due to the transfer of one Public Affairs Specialist position from the Law Department.
61	535	601060	Compensation Plan Adjustments		\$212,800	\$277,800	\$65,000	Increase is due to the revised estimate for paid overtime as a result of the transfer of 27 Local Sewer Section employees from the Corporate Fund.
61	535	612400	Intergovernmental Agreements		\$35,129,400	\$34,531,600	(\$597,800)	Decrease is due to revised estimates for 16-IGA-02, Storm Sewer Improvements in La Grange, SSA (\$1,000,000) and 18-IGA-21, Storm Sewer Connection to Existing Des Plaines River Outfall in Forest Park, SSA (\$521,000), offset by increases to 16-IGA-04, McDermott Drive/Morris Avenue Storm Sewer Improvements, SSA (\$841,800), Green Infrastructure projects (\$78,400), and 18-IGA-08, Parking Lot Conversion in Park Ridge, NSA (\$3,000).
62	536	645620	Waterway Facilities Structures		\$24,579,100	\$23,367,100	(\$1,212,000)	Decrease is due to the deferral of 14-256-5F, Flood Control Project in the Worth Woods Subdivision in Worth, CSA.
62	536	645630	Army Corps of Engineers Services		\$500,000	\$2,145,500	\$1,645,500	Increase is due to updated estimates for the McCook Levy Flood project.
--	--	522	Public Affairs Specialist (HP14)	0		1	1	One position was transferred from Section 342 in the Law Department.

STORMWATER MANAGEMENT FUND BUDGET TOTAL: \$91,410,100 \$91,410,100 \$0

November 2018 (BF-20)

Catherine G. O'Connor

Department Head (Recommended)

Shelley A. Hecks

Budget Officer (Reviewed)

Brian Beckwith

Executive Director (Approved)

12/5/18

Date

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COMPARATIVE STATEMENT OF APPROPRIATIONS AND TAX LEVIES

2019-2017 ALL FUNDS

APPROPRIATIONS	2019 **	2018 AS PASSED	2018 AS ADJUSTED *	2017 ACTUAL
FUND				
Corporate Fund	\$ 376,862,500	\$ 370,209,200	\$ 370,209,200	\$ 368,925,800
Construction Fund	18,340,300	26,080,600	26,080,600	34,450,400
Capital Improvements Bond Fund ***	378,173,800	312,982,900	312,982,900	354,625,600
Stormwater Management Fund	91,410,100	65,581,000	65,581,000	45,800,100
Retirement Fund	87,281,000	89,604,000	89,604,000	79,505,000
Reserve Claim Fund	31,767,800	30,289,500	30,289,500	30,617,100
Bond Redemption & Interest Fund	238,357,541	256,304,187	256,304,187	228,825,813
TOTAL	\$ 1,222,193,041	\$ 1,151,051,387	\$ 1,151,051,387	\$ 1,142,749,813
LEVIES				
Corporate Fund	\$ 254,574,100	\$ 240,465,800	\$ 240,465,800	\$ 224,824,731
Construction Fund	7,600,000	11,700,000	11,700,000	17,000,000
Stormwater Management Fund	52,926,000	47,826,000	47,826,000	40,856,008
Retirement Fund	71,565,400	71,534,197	71,534,197	73,438,135
Reserve Claim Fund	7,500,000	6,000,000	6,000,000	5,900,000
Subtotal	\$ 394,165,500	\$ 377,525,997	\$ 377,525,997	\$ 362,018,874
Bond Redemption & Interest Fund:				
Capital Improvement Bonds - Series:				
2016 Qualified Energy Conservation Limited Tax Series F	\$ 165,804	\$ 165,804	\$ 165,804	\$ 165,804
2009 Limited Tax Series	35,564,767	35,564,767	35,564,767	35,564,767
2011 Limited Tax Series B	18,950,616	28,911,239	28,911,239	41,406,315
2011 Unlimited Tax Series C	2,515,991	4,184,800	4,184,800	3,981,898
2014 Limited Tax Series C	8,286,788	6,763,472	6,763,472	3,240,156
2014 Unlimited Tax Series A	5,181,348	5,181,348	5,181,348	5,181,348
2014 Alternate Revenue Unlimited Tax Series B ****	3,391,037	3,390,570	3,390,570	3,389,171
2016 Alternate Revenue Unlimited Tax Series E ****	2,590,674	2,590,674	2,590,674	2,590,674
Alternate Revenue Abatement ****	—	—	—	(5,979,845)
2016 Unlimited Tax Series C	1,554,405	1,554,405	1,554,405	1,554,405
2016 Limited Tax Series D	1,036,270	1,036,270	1,036,270	1,036,270
State Revolving Fund Bonds - Series: Various	99,555,205	85,458,595	86,525,865	77,609,685
Refunding Bonds - Series:				
2007 Unlimited Tax Series A	26,694,301	26,623,057	26,623,057	26,509,845
2007 Unlimited Tax Series B	4,996,749	4,996,749	4,996,749	4,996,749
2007 Limited Tax Series C	5,541,607	5,541,607	5,541,607	5,541,607
2014 Limited Tax Series D	15,895,337	15,130,830	15,130,830	9,264,767
2016 Unlimited Tax Series A	14,555,959	14,555,959	14,555,959	14,555,959
2016 Limited Tax Series B	2,141,451	2,141,451	2,141,451	2,141,451
Subtotal Bond Redemption & Interest Fund	\$ 248,618,309	\$ 243,791,597	\$ 244,858,866	\$ 232,751,026
TOTAL	\$ 642,783,809	\$ 621,317,594	\$ 622,384,863	\$ 594,769,900
Abatement after the budget year ****	(6,185,100)	(6,152,228)	(6,152,228)	
Total (after planned abatement)	\$ 636,598,709	\$ 615,165,366	\$ 616,232,635	

NOTES: * As Adjusted reflects the 2017 EAV (\$147,945,823,261) estimated to increase 3.0 percent, plus any subsequent supplemental levies or appropriations.

** 2019 reflects an estimated 3.0 percent increase in EAV from the 2018 estimate.

*** Prior year obligations for the Capital Improvements Bond Fund are included in the Appropriation for Liabilities.

**** As part of the plan of financing, it is intended and anticipated that tax revenues deposited in the Stormwater Management Fund be transferred to the Bond Redemption & Interest Fund and used to abate taxes levied for this issue.

COMPARATIVE STATEMENT OF TAX RATES

2019-2017 ALL FUNDS

Per \$100 in Equalized Assessed Valuation (EAV)

FUND		2019 **	2018 AS PASSED	2018 AS ADJUSTED *	2017 ACTUAL
	tax rate limit				
Corporate Fund	41¢	16.22¢	16.11¢	15.78¢	15.20¢
Construction Fund	10¢	0.48	0.78	0.77	1.15
Stormwater Management Fund	5¢	3.37	3.20	3.14	2.76
Retirement Fund		4.56	4.79	4.69	4.96
Reserve Claim Fund	½ ¢	0.48	0.40	0.39	0.40
Subtotal		25.11¢	25.28¢	24.77¢	24.47¢
Bond Redemption & Interest Fund:					
Capital Improvement & Interest Fund:					
2016 Qualified Energy Conservation Limited Tax Series F		0.01¢	0.01¢	0.01¢	0.01¢
2009 Limited Tax Series		2.27	2.38	2.33	2.40
2011 Limited Tax Series B		1.21	1.94	1.90	2.80
2011 Unlimited Tax Series C		0.16	0.28	0.27	0.27
2014 Limited Tax Series C		0.53	0.45	0.44	0.22
2014 Unlimited Tax Series A		0.33	0.35	0.34	0.35
2014 Alternate Revenue Unlimited Tax Series B ***		0.22	0.23	0.22	0.23
2016 Alternate Revenue Unlimited Tax Series E ***		0.17	0.17	0.17	0.18
Alternate Revenue Abatement ***		—	—	—	(0.41)
2016 Unlimited Tax Series C		0.10	0.10	0.10	0.11
2016 Limited Tax Series D		0.07	0.07	0.07	0.07
State Revolving Fund Bonds - Series:					
Various		6.34	5.72	5.68	5.25
Refunding Bonds - Series:					
2007 Unlimited Tax Series A		1.70	1.78	1.75	1.79
2007 Unlimited Tax Series B		0.32	0.33	0.33	0.34
2007 Limited Tax Series C		0.35	0.37	0.36	0.37
2014 Limited Tax Series D		1.01	1.01	0.99	0.63
2016 Unlimited Tax Series A		0.93	0.97	0.96	0.98
2016 Limited Tax Series B		0.14	0.14	0.14	0.14
Subtotal Bond Redemption & Interest Fund		15.86¢	16.30¢	16.06¢	15.73¢
TOTAL		40.97¢	41.58¢	40.83¢	40.20¢

NOTES: * As Adjusted reflects the 2017 EAV (\$147,945,823,261) estimated to increase 3.0 percent, plus any subsequent supplemental levies or appropriations.

** 2019 reflects an estimated 3.0 percent increase in EAV from the 2018 estimate.

*** As part of the plan of financing, it is intended and anticipated that tax revenues deposited in the Stormwater Management Fund be transferred to the Bond Redemption & Interest Fund and used to abate taxes levied for this issue.

**ACCOUNT SUMMARY COMPARISON
2019 - 2018 ALL FUNDS**

ORGANIZATION OR FUND	Account Appropriation		Increase (Decrease) 2019-2018	
	2019	2018	Dollars	Percent
Board of Commissioners	\$ 5,266,700	\$ 5,145,200	\$ 121,500	2.4
General Administration	19,790,500	16,725,400	3,065,100	18.3
Monitoring & Research	31,253,400	31,888,700	(635,300)	(2.0)
Procurement & Materials Management	9,786,100	9,466,700	319,400	3.4
Human Resources	60,108,000	59,226,400	881,600	1.5
Information Technology	18,432,300	17,052,500	1,379,800	8.1
Law	7,069,400	7,502,800	(433,400)	(5.8)
Finance	3,676,400	3,743,900	(67,500)	(1.8)
Maintenance & Operations:				
General Division	31,641,000	26,155,200	5,485,800	21.0
North Service Area	43,382,000	42,258,700	1,123,300	2.7
Calumet Service Area	36,634,900	36,295,300	339,600	0.9
Stickney Service Area	84,348,500	86,426,300	(2,077,800)	(2.4)
TOTAL Maintenance & Operations	\$ 196,006,400	\$ 191,135,500	\$ 4,870,900	2.5
Engineering	25,473,300	28,322,100	(2,848,800)	(10.1)
TOTAL Corporate Fund	\$ 376,862,500	\$ 370,209,200	\$ 6,653,300	1.8
Construction Fund	18,340,300	26,080,600	(7,740,300)	(29.7)
Capital Improvements Bond Fund	378,173,800	312,982,900	65,190,900	20.8
TOTAL Capital Budget	\$ 396,514,100	\$ 339,063,500	\$ 57,450,600	16.9
Stormwater Management Fund	91,410,100	65,581,000	25,829,100	39.4
Bond Redemption & Interest Fund	238,357,541	256,304,187	(17,946,646)	(7.0)
Retirement Fund	87,281,000	89,604,000	(2,323,000)	(2.6)
Reserve Claim Fund	31,767,800	30,289,500	1,478,300	4.9
GRAND TOTAL	<u>\$1,222,193,041</u>	<u>\$1,151,051,387</u>	<u>\$ 71,141,654</u>	6.2

**PERSONNEL SUMMARY COMPARISON
2019 - 2017 ALL FUNDS**

ORGANIZATION OR FUND	Proposed FTEs 2019	Budgeted FTEs 2018	Actual FTEs 2017	Increase (Decrease) 2019-2018	
				FTEs	Percent
Board of Commissioners	38	38	37	—	—
General Administration	119	121	122	(2)	(1.7)
Monitoring & Research	300	312	305	(12)	(3.8)
Procurement & Materials Management	63	63	60	—	—
Human Resources	93	91	71	2	2.2
Information Technology	71	73	68	(2)	(2.7)
Law	39	37	36	2	5.4
Finance	27	28	28	(1)	(3.6)
Maintenance & Operations:					
General Division	115	107	115	8	7.5
North Service Area	248	245	246	3	1.2
Calumet Service Area	188	185	188	3	1.6
Stickney Service Area	369	367	372	2	0.5
TOTAL Maintenance & Operations	920	904	921	16	1.8
Engineering	212	242	242	(30)	(12.4)
TOTAL Corporate Fund	1,882	1,909	1,890	(27)	(1.4)
Construction Fund	—	—	—	—	—
Capital Improvements Bond Fund	—	—	—	—	—
TOTAL Capital Budget	—	—	—	—	—
Stormwater Management Fund	85	57	59	28	49.1
Bond Redemption & Interest Fund	—	—	—	—	—
Retirement Fund	—	—	—	—	—
Reserve Claim Fund	—	—	—	—	—
GRAND TOTAL	1,967	1,966	1,949	1	0.1

ALL FUNDS

SUMMARY OF REVENUE, EXPENDITURES, AND NET ASSETS APPROPRIABLE (b) 2019 BUDGETED, 2018 ESTIMATED, AND 2017 ACTUAL

(In Thousands)

	FUND								
	CORPORATE	CAPITAL IMPROVEMENTS BOND	CONSTRUCTION	STORMWATER MANAGEMENT	RETIREMENT (d)	BOND REDEMPTION & INTEREST (d)	RESERVE CLAIM (d)	TOTAL	
2019 BUDGETED									
Net Assets Appropriable	\$ 131,296.6	\$ (609,357.7)	\$ 10,620.3	\$ 45,807.0	\$ 87,281.0	\$ 230,060.6	\$ 31,167.8	\$ (73,124.4)	
Net Assets Appropriated	\$ 31,366.5	\$ (609,357.7)	\$ 10,620.3	\$ 45,807.0	\$ 87,281.0	\$ 230,060.6	\$ 31,167.8	\$ (173,054.5)	
Revenue	345,496.0	987,531.5	7,720.0	45,603.1	—	8,296.9	600.0	1,395,247.5	
Appropriation	\$ 376,862.5	\$ 378,173.8	\$ 18,340.3	\$ 91,410.1	\$ 87,281.0	\$ 238,357.5	\$ 31,767.8	\$ 1,222,193.0	
2018 ESTIMATED									
Beginning Net Assets Appropriable as adjusted (c)	\$ 143,474.1	\$ (615,827.5)	\$ 15,526.9	\$ 35,706.1	\$ 89,604.0	\$ 248,287.6	\$ 30,591.2	\$ (52,637.6)	
Revenue (a)	338,517.0	164,360.5	11,451.0	40,229.3	—	8,016.6	458.1	563,032.5	
Adjustment for 2017 receipts	(3,319.3)	—	(461.8)	(369.2)	—	—	—	(4,150.3)	
Expenditures	(347,375.2)	(157,890.7)	(15,895.8)	(29,759.2)	(89,604.0)	(256,304.2)	(5,600.0)	(902,429.1)	
Ending Net Assets Appropriable	\$ 131,296.6	\$ (609,357.7)	\$ 10,620.3	\$ 45,807.0	\$ —	\$ —	\$ 25,449.3	\$ (396,184.5)	
2017 ACTUAL									
Beginning Net Assets Appropriable as adjusted (c)	\$ 142,061.5	\$ (549,041.4)	\$ 6,384.0	\$ 13,843.2	\$ 79,505.0	\$ 224,536.5	\$ 31,455.6	\$ (51,255.6)	
Revenue	339,836.6	178,242.3	22,936.2	39,264.3	—	4,625.7	310.0	585,215.1	
Expenditures	(338,424.1)	(245,028.4)	(13,793.3)	(17,401.4)	(79,505.0)	(215,647.3)	(6,905.1)	(916,704.6)	
Ending Net Assets Appropriable	\$ 143,474.1	\$ (615,827.5)	\$ 15,526.9	\$ 35,706.1	\$ —	\$ 13,514.9	\$ 24,860.5	\$ (382,745.0)	
Adjusted NAA 1/1/2018	\$ 140,154.8		\$ 15,065.1	\$ 35,336.9					
Adjustment (a)	\$ (3,319.3)		\$ (461.8)	\$ (369.2)					

(a) Adjustment to NAA required due to current 2018 estimate on collection of property tax levies and PPRT. See the Balance Sheets and Appropriable Revenue statements 01/01/2018 for the Corporate (pages 87-88), Construction (pages 95-96), and Stormwater Management (pages 99-100) Funds. The adjustment is reflected in the 2018 revenues.

(b) This statement is a summary presentation of pages 76-78, separating current revenue and NAA from the revenue category.

(c) Ending NAA for one year are revised for accounting adjustments, equity transfers, and changes in the amount of designations to establish beginning net assets for the next year.

(d) Revenue for the Retirement, Bond Redemption & Interest, and Reserve Claim Funds does not include the current year tax levies, which are reflected in the next year's NAA.

ALL FUNDS
SUMMARY OF REVENUE AND EXPENDITURES
2019 BUDGETED
(In Thousands)

	FUND							
	CORPORATE	CAPITAL IMPROVEMENTS BOND*	CONSTRUCTION	STORMWATER MANAGEMENT	RETIREMENT	BOND REDEMPTION & INTEREST	RESERVE CLAIM	TOTAL
REVENUE								
Net Assets Appropriable	\$ 131,296.6	\$ (609,357.7)	\$ 10,620.3	\$ 45,807.0	\$ 87,281.0	\$ 230,060.6	\$ 31,167.8	\$ (73,124.4)
Budget Reserve	(99,930.1)	—	—	—	—	—	—	(99,930.1)
Net Property Taxes	245,664.0	—	7,334.0	51,073.6	—	—	—	304,071.6
Personal Property Replacement Tax	15,000.0	—	—	—	—	—	—	15,000.0
Working Cash Borrowings Adjustment	(4,564.0)	—	(134.0)	(773.6)	—	—	—	(5,471.6)
Bond Sales (Present & Future)	—	850,664.2	—	—	—	—	—	850,664.2
Grants (Federal & State)	—	11,267.3	—	—	—	—	—	11,267.3
Investment Income	2,600.0	7,800.0	500.0	800.0	—	1,900.0	600.0	14,200.0
State Revolving Fund Loans	—	120,000.0	—	—	—	—	—	120,000.0
Property & Services	21,500.0	—	—	900.0	—	—	—	22,400.0
User Charge	46,000.0	—	—	—	—	—	—	46,000.0
TIF Differential Fee & Impact Fee	9,725.0	—	20.0	—	—	—	—	9,745.0
Equity Transfer	4,200.0	(4,200.0)	—	(6,396.9)	—	6,396.9	—	—
Resource Recovery	600.0	—	—	—	—	—	—	600.0
Miscellaneous	4,771.0	2,000.0	—	—	—	—	—	6,771.0
TOTAL REVENUE	\$ 376,862.5	\$ 378,173.8	\$ 18,340.3	\$ 91,410.1	\$ 87,281.0	\$ 238,357.5	\$ 31,767.8	\$ 1,222,193.0
EXPENDITURES								
Board of Commissioners	\$ 5,266.7	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 5,266.7
General Administration	19,790.5	—	—	—	—	—	—	19,790.5
Monitoring & Research	31,253.4	—	—	—	—	—	—	31,253.4
Procurement & Materials Mgmt.	9,786.1	—	—	—	—	—	—	9,786.1
Human Resources	60,108.0	—	—	—	—	—	—	60,108.0
Information Technology	18,432.3	—	—	—	—	—	—	18,432.3
Law	7,069.4	—	—	—	—	—	—	7,069.4
Finance	3,676.4	—	—	—	—	—	—	3,676.4
Engineering	25,473.3	378,173.8	18,340.3	—	—	—	—	421,987.4
Maintenance & Operations	196,006.4	—	—	—	—	—	—	196,006.4
Stormwater Management Fund	—	—	—	91,410.1	—	—	—	91,410.1
Retirement Fund	—	—	—	—	87,281.0	—	—	87,281.0
Bond Redemption & Interest Fund	—	—	—	—	—	238,357.5	—	238,357.5
Reserve Claim Fund	—	—	—	—	—	—	31,767.8	31,767.8
TOTAL EXPENDITURES	\$ 376,862.5	\$ 378,173.8	\$ 18,340.3	\$ 91,410.1	\$ 87,281.0	\$ 238,357.5	\$ 31,767.8	\$ 1,222,193.0

* 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
2018 ESTIMATED
(In Thousands)

	FUND								
	CORPORATE	CAPITAL IMPROVEMENTS BOND*	CONSTRUCTION	STORMWATER MANAGEMENT	RETIREMENT	BOND REDEMPTION & INTEREST	RESERVE CLAIM	TOTAL	
REVENUE									
Net Assets Appropriable	\$ 143,474.1	\$ (615,827.5)	\$ 15,526.9	\$ 35,706.1	\$ 89,604.0	\$ 248,287.6	\$ 30,591.2	\$ (52,637.6)	
Adjustment for Receipts	(3,319.3)	—	(461.8)	(369.2)	—	—	—	(4,150.3)	
Net Property Taxes	232,049.5	—	11,290.5	46,152.1	—	—	—	289,492.1	
Personal Property Replacement Tax	19,849.5	—	—	—	—	—	—	19,849.5	
Working Cash Borrowings Adjustment	(4,599.0)	—	(190.5)	(752.1)	—	—	—	(5,541.6)	
Bond Sales (Present & Future)	—	—	—	—	—	—	—	—	
Grants (Federal & State)	—	11,294.5	—	—	—	—	—	11,294.5	
Investment Income	2,594.0	5,266.0	341.0	595.0	—	2,226.0	458.1	11,480.1	
State Revolving Fund Loans	—	150,000.0	—	—	—	—	—	150,000.0	
Property & Services	22,003.0	—	—	—	—	—	—	22,003.0	
User Charge	46,000.0	—	—	—	—	—	—	46,000.0	
TIF Differential Fee & Impact Fee	10,725.0	—	10.0	—	—	—	—	10,735.0	
Equity Transfer	4,200.0	(4,200.0)	—	(5,770.6)	—	5,770.6	—	—	
Miscellaneous	5,695.0	2,000.0	—	4.9	—	20.0	—	7,719.9	
TOTAL REVENUE	\$ 478,671.8	\$ (451,467.0)	\$ 26,516.1	\$ 75,566.2	\$ 89,604.0	\$ 256,304.2	\$ 31,049.3	\$ 506,244.6	
EXPENDITURES									
Board of Commissioners	\$ 4,309.4	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 4,309.4	
General Administration	15,866.0	—	—	—	—	—	—	15,866.0	
Monitoring & Research	29,441.6	—	—	—	—	—	—	29,441.6	
Procurement & Materials Mgmt.	8,655.7	—	—	—	—	—	—	8,655.7	
Human Resources	53,743.9	—	—	—	—	—	—	53,743.9	
Information Technology	14,866.1	—	—	—	—	—	—	14,866.1	
Law	6,377.0	—	—	—	—	—	—	6,377.0	
Finance	3,464.5	—	—	—	—	—	—	3,464.5	
Engineering	26,035.5	157,890.7	15,895.8	—	—	—	—	199,822.0	
Maintenance & Operations	184,615.5	—	—	—	—	—	—	184,615.5	
Stormwater Management Fund	—	—	—	29,759.2	—	—	—	29,759.2	
Retirement Fund	—	—	—	—	89,604.0	—	—	89,604.0	
Bond Redemption & Interest Fund	—	—	—	—	—	256,304.2	—	256,304.2	
Reserve Claim Fund	—	—	—	—	—	—	5,600.0	5,600.0	
Equity Transfer	—	—	—	—	—	—	—	—	
TOTAL EXPENDITURES	\$ 347,375.2	\$ 157,890.7	\$ 15,895.8	\$ 29,759.2	\$ 89,604.0	\$ 256,304.2	\$ 5,600.0	\$ 902,429.1	

* 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.

CAPITAL IMPROVEMENTS BOND FUND
ESTIMATED BALANCE SHEET
JANUARY 1, 2019 AND 2018

		ASSETS			
		2019		2018	
		AMOUNT	AVAILABLE FOR APPROPRIATION	AMOUNT	AVAILABLE FOR APPROPRIATION
CURRENT ASSETS					
Cash & Investments		\$ 232,000,000	\$ 232,000,000	\$ 337,222,198	\$ 337,222,198
Grants Receivable		1,000,000	1,000,000	941,207	941,207
State Revolving Fund Loans Receivable		120,000,000	120,000,000	150,000,000	150,000,000
Total Current Assets		\$ 353,000,000	\$ 353,000,000	\$ 488,163,405	\$ 488,163,405
		LIABILITIES & FUND EQUITY			
CURRENT LIABILITIES					
Unpaid Bills:					
Contractual Services		\$ 74,000,000	\$ 74,000,000	\$ 73,937,199	\$ 73,937,199
Contracts Payable		888,357,685	888,357,685	1,040,318,906	1,040,318,906
Total Current Liabilities		\$ 962,357,685	\$ 962,357,685	\$ 1,114,256,105	\$ 1,114,256,105
Designated for Future Claims Liabilities		—	—	—	—
Total Liabilities & Designations		\$ 962,357,685	\$ 962,357,685	\$ 1,114,256,105	\$ 1,114,256,105
ASSETS APPROPRIABLE					
Net Assets Appropriable			\$ (609,357,685)		\$ (626,092,700)
Net Assets Appropriated			\$ (609,357,685)		\$ (626,092,700)
Estimated Revenue			987,531,485		939,075,600
Total Assets Appropriable			\$ 378,173,800		\$ 312,982,900
FUND EQUITY		\$ (609,357,685)		\$ (626,092,700)	
Total Liabilities & Fund Equity		\$ 353,000,000		\$ 488,163,405	

CAPITAL IMPROVEMENTS BOND FUND
APPROPRIABLE REVENUE
2019 - 2016

REVENUE DESCRIPTION	ESTIMATED			ACTUAL	
	2019 BUDGET	2018 ADJUSTED	2018 BUDGET	2017	2016
Revenue from Money & Property					
Bond Sales (Present & Future)	\$ 850,664,185	\$ —	\$ 776,281,100	\$ —	\$ 125,003,513
Investment Income	7,800,000	5,266,000	3,700,000	3,938,820	2,395,116
Subtotal	\$ 858,464,185	\$ 5,266,000	\$ 779,981,100	\$ 3,938,820	\$ 127,398,629
Revenue from Miscellaneous Sources					
Federal & State Grants	\$ 11,267,300	\$ 11,294,500	\$ 11,294,500	\$ 16,137,198	\$ 11,233,702
State Revolving Fund Loans	120,000,000	150,000,000	150,000,000	168,986,700	173,739,000
Miscellaneous	2,000,000	2,000,000	2,000,000	2,179,586	2,468,262
Subtotal	\$ 133,267,300	\$ 163,294,500	\$ 163,294,500	\$ 187,303,484	\$ 187,440,964
Total Revenue	\$ 991,731,485	\$ 168,560,500	\$ 943,275,600	\$ 191,242,304	\$ 314,839,593
Other Financing Sources (Uses)					
Equity Transfer	\$ (4,200,000)	\$ (4,200,000)	\$ (4,200,000)	\$ (13,000,000)	\$ —
GRAND TOTAL	\$ 987,531,485	\$ 164,360,500	\$ 939,075,600	\$ 178,242,304	\$ 314,839,593

**CONSTRUCTION FUND
ESTIMATED BALANCE SHEET
JANUARY 1, 2019 AND 2018**

		ASSETS			
		2019		2018	
CURRENT ASSETS		AMOUNT	AVAILABLE FOR APPROPRIATION	AMOUNT	AVAILABLE FOR APPROPRIATION
Cash & Investments		\$ 13,650,000	\$ 13,650,000	\$ 13,926,461	\$ 13,926,461
Taxes Receivable		11,290,500	11,322,000	16,405,000	16,454,139
Replacement Tax		—	—	—	—
Total Current Assets		\$ 24,940,500	\$ 24,972,000	\$ 30,331,461	\$ 30,380,600
		LIABILITIES & FUND EQUITY			
CURRENT LIABILITIES					
Unpaid Bills:					
Contracts Payable		\$ 2,075,700	\$ 2,075,700	\$ 2,340,000	\$ 2,340,000
Contractual Services		276,000	276,000	1,300,000	1,300,000
Machinery & Equipment		—	—	—	—
Due to:					
Construction Working Cash Fund		12,000,000	12,000,000	12,000,000	12,000,000
Total Current Liabilities		\$ 14,351,700	\$ 14,351,700	\$ 15,640,000	\$ 15,640,000
Total Liabilities			\$ 14,351,700		\$ 15,640,000
ASSETS APPROPRIABLE FOR 2019 AND 2018					
Net Assets Appropriable		\$ 10,620,300		\$ 14,740,600	
Net Assets Appropriated		\$ 10,620,300		\$ 14,740,600	
Estimated Revenue		7,720,000		11,340,000	
Total Assets Appropriable		\$ 18,340,300		\$ 26,080,600	
FUND EQUITY					
Designated for Future Claims Liabilities		\$ —		\$ —	
Undesignated		10,588,800		14,691,461	
Total Fund Equity		\$ 10,588,800		\$ 14,691,461	
Total Liabilities & Fund Equity		\$ 24,940,500		\$ 30,331,461	

Construction Fund Program

Projects Under Construction

Project Name	Project Number	Est. Construction Cost	MWRD 2019 Appropriation	Duration (days)	Award / Est. Award Date
Industrial Waste Division and Construction Office Renovation, CWRP	16-268-2V	\$ 2,668	\$ 29	805	Nov 2016
Television Inspection and Recording of Sewers and Manholes, District-wide	13-806-2S	1,944	921	1,080	Oct 2017
Furnish and Deliver Screens, Conveyors, and Grit Classifier, Various Locations	18-608-21	316	316	303	May 2018
Rehabilitation of Blower No. 9, CWRP	18-803-21	169	38	593	May 2018
Furnish, Deliver, and Install Fire Detection Systems, Various Locations	18-604-21	535	209	572	Jun 2018
Pavement Rehabilitation, Various Locations	18-614-21	881	500	578	Jun 2018
Furnish and Deliver Reconditioned Circuit Breakers, SSA	18-914-21	164	100	558	Jun 2018
Furnish and Deliver Sludge Pumps, SWRP	18-917-21	215	215	238	Jun 2018
Elevator Rehabilitation, MOB	J15090-054	529	411	375	Jun 2018
Control and Refrigeration Equipment Replacement at the M&R Facility, SWRP	18-184-21	298	100	185	Sep 2018
Recondition Pump Motors No. 1 and No. 2, KWRP	18-704-21	280	200	481	Sep 2018
Furnish, Deliver, and Install Influent Gate Actuators, OWRP	18-708-21	293	293	180	Sep 2018
HVAC Improvements, Various Locations	18-611-23	1,851	975	540	Oct 2018
Furnish and Deliver Submersible Pump, CSA	18-601-21	161	161	175	Nov 2018
Rehabilitate Raw Sewage Pump Rotating Assemblies, Various Locations	18-610-21	825	595	731	Nov 2018
Replace Air Conditioning Unit at Waterways Control Center, MOB	J15090-065	14	14	63	Nov 2018
Employee Benefits Software, District-wide	17-RFP-37	45	45	395	Dec 2018
Rehabilitation of Overhead Bridge Crane, SSA	18-906-21	240	125	390	Dec 2018
Railroad Track Improvements, SSA	18-913-21	1,565	825	486	Dec 2018
Sludge Pump Replacements, SWRP	18-916-21	825	825	395	Dec 2018
Renovate Bathroom Stalls, MOBA	J15090-032	75	75	120	Dec 2018
Total Projects Under Construction		\$ 13,893	\$ 6,972		

Awards in 2019

Project Name	Project Number	Est. Construction Cost	MWRD 2019 Appropriation	Duration (days)	Award / Est. Award Date
Southwest Intercepting Sewer 17C Rehabilitation, SSA	18-555-2J	\$ 35	\$ 35	58	Jan 2019
Furnish, Deliver, and Install Underground Steam and Utility Piping, CWRP	18-805-21	210	210	180	Jan 2019
Programmable Logic Controller Human Machine Interface Migration, CSA	19-805-21	563	563	350	Jan 2019
Storeroom Lighting Improvements, EWRP	J67795XX	50	50	180	Jan 2019
Avaya Telecom Project, Final Phase, District- wide	MWD0000013IT	150	150	364	Jan 2019
Microvi Pilot, OWRP	18-180-21	400	400	699	Feb 2019
Furnish, Deliver, and Install Grit Screw Conveyor, CWRP	18-802-21	300	300	180	Feb 2019
Furnish, Deliver, and Install Deep Anode Ground Bed System, CWRP	19-804-21	495	495	333	Feb 2019
Remove and Replace Two Carrier Chillers, MOBA	MWD2010002GA	1,000	1,000	89	Feb 2019
Rehabilitate Gloria Alitto Majewski Reservoir, KWRP	16-708-21	750	750	305	Mar 2019
Furnish and Deliver Excitation Control Equipment, NBPS and RAPS	19-603-21	480	480	305	Mar 2019
Furnish and Deliver Paddle Aerator, LASMA	19-610-21	560	560	213	Mar 2019
Replace Final Tank Channel Covers, OWRP	19-705-21	45	45	305	Mar 2019
Rebuild Gate Houses and Sludge Concentration Building, OWRP	19-707-21	155	155	305	Mar 2019
Furnish and Deliver Lathe, OWRP	19-716-21	170	170	305	Mar 2019
Furnish and Deliver Automated Online Water Quality Monitoring System, OWRP	19-721-21	97	97	153	Mar 2019
Discharge Valve Rehabilitation, Main Sewage Pump No. 5, SWRP	19-905-21	800	400	671	Mar 2019
Construct Plenum Fan Array, MOBA	MWD2010001GA	310	310	152	Mar 2019
Replace HVAC Coils, Various Locations	19-608-21	349	349	274	Apr 2019
Roof Restoration, Lockport Powerhouse	19-612-21	240	240	91	May 2019
HVAC System Replacements, Various Locations	19-613-21	1,168	453	610	May 2019
Furnish, Deliver, and Install Crane Braking System, MSPS	19-904-21	140	140	244	May 2019
Furnish and Deliver Four Lagoon Pumps, CALSA and LASMA	19-611-21	180	180	183	Jul 2019
Collateral Channel Riverbed Restoration, SSA	18-145-2S	1,200	300	366	Aug 2019
Total 2019 Awards		\$ 9,847	\$ 7,832		
Cumulative Projects Under Construction and 2019 Awards		\$ 23,740	\$ 14,804		

Note: All cost figures are in thousands of dollars.

Capital Improvements Bond Fund Program

Awards in 2019

Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date
Drop Shaft 5 Inspection and Rehabilitation, NSA	14-372-3S	\$ 3,500	212	Jan 2019
Pump Rehabilitation and Diverter Gate Installation, EWRP	16-412-3M	550	322	Jan 2019
Furnish, Deliver, and Install Disc Filters, EWRP	18-702-31	4,000	730	Jan 2019
Furnish, Deliver, and Install Three Bar Screens, KWRP	18-703-31	1,350	713	Jan 2019
Energy Efficiency Improvements, SWRP	19-901-31	5,820	364	Jan 2019
Replacement of Tailrace Stop Logs, Headrace Gates, and Equipment at Lockport Powerhouse, SSA	15-830-3D	10,120	943	Feb 2019
Phosphorus Removal Struvite Facilities at the Fox River Water Reclamation District	18-IGA-35	2,639	659	Feb 2019
Rehabilitate One Electric Motor, SWRP	19-902-31	300	242	Feb 2019
Odor Control Facilities at WASSTRIP®, Southwest Coarse Screen and Overhead Weir, and Post-Centrifuge Building, SWRP	17-134-3M	17,250	603	Mar 2019
Digester Rehabilitation and Gas Piping Replacement, SWRP	17-140-3P	15,000	704	Mar 2019
Installation and Removal of Cofferdam at Sluice Gate No. 2, Lockport Powerhouse Controlling Works, SSA	18-607-31	350	305	Mar 2019
North Side Sludge Pipeline Replacement - Section 1, NSA	07-027-3S	14,327	922	Apr 2019
Odor Control Systems at Two TARP Shafts and Decommissioning the Thornton Transitional Reservoir, CSA	15-266-4H	5,000	452	Apr 2019
Rehabilitation of Gravity Concentration Tank, CWRP	18-803-31	1,650	487	Apr 2019
Phosphorus Removal Liquid Facilities at the Fox River Water Reclamation District	18-IGA-36	9,762	921	Apr 2019
Modifications to TARP Structures, CSA and SSA	17-842-3H	3,500	317	May 2019
Digester Sludge Heating System Upgrades and Boiler Removal, CWRP	18-277-3M	10,500	493	Jun 2019
Rehabilitation of Steel Spandrel Beams of Pump and Blower House, OWRP	15-069-3D	10,000	903	Jul 2019
Rehabilitation of Elevator Shafts, MSPS	18-142-3H	1,500	412	Oct 2019
Rehabilitation of TARP Pumps, MSPS	18-144-3M	16,500	672	Oct 2019
Furnish, Deliver, and Install Disc Filters for Filters 3 and 4, HPWRP	19-701-31	1,400	517	Oct 2019
Roof Replacement of the Lue-Hing M&R Complex, SWRP	17-135-3V	6,500	493	Nov 2019
Rehabilitation of Locomotive Terminal Building, SWRP	18-143-3D	2,750	532	Nov 2019
Sidestream Enhanced Biological Phosphorus Removal Pilot Study, CWRP	18-248-3P	1,000	252	Nov 2019
Upper Des Plaines Intercepting Sewer 14B Rehabilitation, NSA	06-360-3S	6,700	313	Dec 2019
North Shore 1 Rehabilitation, NSA	10-047-3S	22,750	602	Dec 2019
Stickney Effluent Reuse Line, SSA	14-107-3S	800	193	Dec 2019
Utility Tunnel Cracks and Expansion Joints Rehabilitation, OWRP, KWRP, EWRP, HPWRP	17-843-3D	3,000	682	Dec 2019
Total 2019 Awards		\$ 178,518		

Projects Under Development

Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date
A/B and C/D Service Tunnel Rehabilitation - Phase III, SWRP	16-127-3D	\$ 17,000	1,047	Jan 2020
Battery B Final Settling Tanks, Rehabilitation of Concrete, SWRP	16-128-3D	2,000	381	Jan 2020
BioP Pilot Study, EWRP	18-414-3P	500	364	Mar 2020
39th Street Conduit Rehabilitation - Phase II, SSA	01-103-AS	24,700	690	Apr 2020
Battery D Final Settling Tanks, Rehabilitation of Concrete, SWRP	16-130-3D	2,000	472	May 2020
Upper Des Plaines Intercepting Sewer 11D, Ext. C Rehabilitation, NSA	11-404-3S	5,500	402	Jun 2020
Upper Des Plaines Intercepting Sewer 11D Rehabilitation, NSA	12-369-3S	5,500	402	Jul 2020
Battery A Final Settling Tanks, Rehabilitation of Concrete, SWRP	08-174-3D	2,000	450	Aug 2020
Gate Control Equipment Upgrade at TARP Control Structures, KWRP	06-358-3M	2,200	552	Nov 2020
Battery C Final Settling Tanks, Rehabilitation of Concrete, SWRP	16-129-3D	2,000	472	Nov 2020
Digester Rehabilitation and Gas Piping Replacement, CWRP	18-253-3P	15,000	772	Nov 2020
Palos Hills Pumping Station Force Main, CSA	11-242-3S	6,700	572	Feb 2021
Deammonification System, SWRP	13-101-3P	30,000	503	May 2021
McCook Reservoir Expanded Stage 2 Rock Wall Stabilization, SWRP	17-131-4F	5,000	1,230	Jan 2022
McCook Reservoir Expanded Stage 2 Aeration and Floor Features, SSA	17-132-4F	2,000	317	Jan 2026
Total Future Awards		\$ 122,100		
Cumulative 2019 and Future Awards		\$ 300,618		

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

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

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

	Method of Financing		
	State Revolving Fund Loans	General Obligation Bonds	Total
Tunnel and Reservoir Plan	\$ 16,500	\$ 5,000	\$ 21,500
Water Reclamation Plant	56,450	34,271	90,721
Expansion and Improvements	—	—	—
Solids Management	84,827	10,120	94,947
Collection Facilities	32,200	61,250	93,450
Replacement of Facilities	—	—	—
Other	—	—	—
	\$ 189,977	\$ 110,641	\$ 300,618

Projects Under Construction

Projects under construction in the Capital Improvements Bond Fund were appropriated in prior years using the full encumbrance (obligation) method of budgetary accounting. The construction contract award amount and the anticipated completion date are provided in this table.

Project Name	Project Number	Est. Construction Cost	Award Date	Est. Substantial Completion Date
Thornton Composite Reservoir Mining, Land, and Corp Costs, CSA	77-235-2F	\$ 52,806	Jun 1998	Oct 2020
McCook Reservoir Stages 1 & 2, SSA	73-161-2H	137,500	May 1999	Oct 2023
D799 Switchgear Replacement, SWRP	09-182-3E	12,771	Dec 2015	Mar 2020
A/B & C/D Service Tunnel and Connecting Tunnel Rehabilitation - Phase II, SWRP	04-132-3D	20,906	May 2016	May 2019
McCook Reservoir Des Plaines Inflow Tunnel	13-106-4F	107,831	Jun 2016	May 2020
Painting of Final Tanks, Various Locations	17-601-31	1,582	Jul 2017	Dec 2019
Conversion of Two Gravity Concentration Tanks to Primary Sludge Fermenters, SWRP	15-124-3P	4,095	Sep 2017	Jun 2019
Furnish, Deliver, and Install Boiler Controls, SWRP	16-901-31	1,224	Sep 2017	Mar 2019
Installation of Baffle Plates in Final Settling Tanks, OWRP	15-074-3D	1,405	Nov 2017	Aug 2019
Installation of Shaftless Screw Conveyors for Aerated Grit Tanks, SWRP	17-902-31	2,595	Dec 2017	Jan 2021
Heavy Equipment Storage Building Site Improvements, Bulk Material Storage Building, CWRP and OWRP	17-845-3P	1,962	Apr 2018	Mar 2019
Emerson Ovation Distributed Control System, NSA	18-704-31	1,802	May 2018	Nov 2019
Rehabilitation of North Branch Pumping Station, NSA	16-079-3D	4,613	Aug 2018	Nov 2019
Summit Conduit Rehabilitation, SSA	16-126-3SR	2,900	Aug 2018	Jul 2019
Switchgear & Motor Control Center Replacement, OWRP	17-080-3E	3,577	Sep 2018	Jul 2020
Structural Repairs and Roofing Replacement at 95th Street Pumping Station, CSA	17-276-3D	5,000	Nov 2018	Sep 2020
Furnish, Deliver, and Install Telemetry Replacement for SCADA Control, Various Locations	17-606-31	545	Nov 2018	Oct 2019
Furnish, Deliver and Install Odor Control System, KWRP, HPWRP, and CWRP	17-844-3P	4,347	Dec 2018	Apr 2020
Total Projects Under Construction		\$ 367,461		

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

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

Stormwater Management Capital Improvements Bond Fund Program

Awards in 2019

Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date
Addison Creek Reservoir, SSA	11-186-3F	\$ 95,761	1,124	Jan 2019
Streambank Stabilization Project on Melvina Ditch in Oak Lawn and Chicago Ridge, CSA	13-248-3F	8,800	774	Jan 2019
Land Acquisition for a Flood Control Project in the vicinity of 131 Street and Cypress Drive in Palos Heights, CSA	17-IGA-04	370	119	May 2019
* Construction of a Levee along Thorn Creek at Arquilla Park, Glenwood, CSA	15-IGA-14	3,483	306	Jun 2019
Streambank Stabilization Project on Tinley Creek, CSA	10-882-AF	3,806	1,412	Jul 2019
Addison Creek Channel Improvements, SWRP	11-187-3F	42,700	1,048	Oct 2019
Total 2019 Awards		\$ 154,920		

*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 Financing

State Revolving Fund Loans	Alternate Bonds	Grants	Total
\$ 150,680	\$ 4,240	\$ —	\$ 154,920

Projects Under Construction

Projects under construction in the Capital Improvements Bond Fund were appropriated in prior years using the full encumbrance (obligation) method of budgetary accounting. The construction contract award amount and the anticipated completion date are provided in this table.

Project Name	Project Number	Est. Construction Cost	Award Date	Est. Substantial Completion Date
Melvina Ditch Reservoir Improvements, SSA	14-263-3F	\$ 14,245	Nov 2017	May 2021
* Buffalo Creek Reservoir Expansion, NSA	13-370-3F	8,598	Feb 2018	Mar 2020
Pilot Study for Investigating Technology to Address Basement Backups, CSA	16-IGA-20	400	Nov 2018	Dec 2020
Total Projects Under Construction		\$ 23,243		

*These projects are 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.

Stormwater Management Fund Program

Projects Under Construction						
Project Name	Project Number	Est. Construction Cost	MWRD 2019 Appropriation	Award Date	Est. Substantial Completion Date	
Flood Control/Streambank Stabilization Project on Tinley Creek in Crestwood, CSA	10-883-AF	\$ 7,583	\$ 363	Sep 2015	Jan 2020	
Streambank Stabilization/Flood Control Project on Tinley Creek in Orland Hills, CSA	10-882-DF	664	133	Apr 2016	Aug 2020	
McDermott Drive/Morris Avenue Storm Sewer Improvements, SSA	16-IGA-04	3,654	1,800	Jul 2016	Jul 2019	
Installation of Green Infrastructure at Chicago Public Schools, Various Locations	15-IGA-20	16,000	10,575	Sep 2016	Dec 2022	
* Buffalo Creek Reservoir Expansion, NSA	13-370-3F	1,081	540	Feb 2018	Mar 2020	
Flood Control Project at Arrowhead Lake in Palos Heights, CSA	10-883-BF	1,200	1,165	Sep 2018	Jul 2022	
Flood Control Project on Natalie Creek in Oak Forest and Midlothian, CSA	14-252-5F	7,569	3,500	Sep 2018	Jan 2021	
Land Acquisition for the Flood Control Project on Midlothian Creek in Robbins, CSA	17-IGA-02	200	100	Sep 2018	Oct 2019	
Parking Lot Pavers and a Bioinfiltration Basin at the Arlington Heights Police Station, NSA	18-IGA-01	358	100	Sep 2018	Mar 2019	
Green Alleys Project in Harwood Heights, NSA	18-IGA-09	384	234	Sep 2018	Jun 2019	
Storm Sewers in Reuters Subdivision in Franklin Park, SSA	18-IGA-23	378	189	Sep 2018	Jul 2019	
Streambank Stabilization Projects for Addison Creek, SSA	14-108-5F	1,823	1,503	Oct 2018	Aug 2022	
Stormwater Infiltration Through the Establishment of Native Habitat at Three Chicago Parks, Various Locations	18-IGA-04	239	189	Oct 2018	Apr 2019	
Green Alleys Project in Maywood, SSA	18-IGA-10	841	641	Oct 2018	Jun 2019	
Garfield Park Community Eco Orchard in Chicago, SSA	18-IGA-05	500	400	Nov 2018	Jan 2019	
University of Illinois at Chicago Green Infrastructure at the Arthington Mall, SSA	18-IGA-18	242	192	Nov 2018	Jan 2019	
Groveland Avenue Levee Improvements in Riverside, SSA	18-IGA-20	2,506	1,052	Nov 2018	Mar 2019	
Expansion of Existing Detention Basin in Orland Park, CSA	18-IGA-33	558	558	Nov 2018	Sep 2019	
Permeable Pavement and Rain Gardens in Posen, CSA	18-IGA-15	125	125	Dec 2018	Apr 2019	
New Storm Sewers and Outfall to the North Shore Channel in Lincolnwood, NSA	18-IGA-22	1,392	1,392	Dec 2018	Feb 2019	
Culvert Improvements in Elk Grove Village, NSA	18-IGA-30	1,250	646	Dec 2018	Dec 2020	
Total Projects Under Construction		\$ 48,547	\$ 25,397			

Awards in 2019

Project Name	Project Number	Est. Construction Cost	MWRD 2019 Appropriation	Duration (days)	Est. Award Date
Streambank Stabilization Project along Calumet Union Drainage Ditch, CSA	10-882-BF	\$ 1,568	\$ 634	1,261	Jan 2019
Flood Control Project on Midlothian Creek in Robbins, CSA	14-253-5F	11,000	4,100	502	Jan 2019
Storm Sewer Improvements in La Grange, SSA	16-IGA-02	2,000	2,000	369	Jan 2019
Green Alleys Project in Chicago, CSA	18-IGA-03	197	197	59	Jan 2019
Stormwater Storage in Mt. Prospect, NSA	18-IGA-25	1,862	1,113	681	Jan 2019
Storm Sewers in Glenview, NSA	18-IGA-27	500	500	170	Apr 2019
Storm Sewers and Outfall in Forest View, SSA	18-IGA-28	1,000	1,000	150	Apr 2019
Stormwater Storage Areas in Niles, NSA	18-IGA-31	2,000	504	585	Apr 2019
Relief Sewers to Mitigate Basement Backups in Arlington Heights, NSA	18-IGA-34	1,370	1,370	417	Apr 2019
Parking Lot Conversion in Park Ridge, NSA	18-IGA-08	270	270	59	May 2019
Wetland and Park Storage Projects in Winnetka, NSA	18-IGA-24	3,238	500	424	May 2019
* Construction of a Levee along Thorn Creek at Arquilla Park in Glenwood, CSA	15-IGA-14	387	200	306	Jun 2019
Lake Catherine Commuter Parking Lot in Palos Heights, CSA	18-IGA-14	184	184	59	Jun 2019
Storm Sewers Connection to Existing Des Plaines River Outfall in Forest Park, SSA	18-IGA-21	1,106	646	424	Jun 2019
Flood Control Project on Farmers and Prairie Creeks, NSA	12-056-5F	14,100	6,183	713	Jul 2019
Flood Control Project on 1st Avenue from Roosevelt Road to Cermak Road, SSA	14-111-5F	5,200	2,600	452	Jul 2019
Flood Control in the vicinity of 131st Street and Cypress Drive in Palos Heights, CSA	14-259-5F	200	200	352	Jul 2019
Winchester Avenue Green Infrastructure Project in Calumet Park, CSA	18-IGA-02	325	163	300	Jul 2019
Orland Park Nature Center and Green Roofs in Orland Park, CSA	18-IGA-13	146	73	300	Aug 2019
Flood Control Project for Deer Creek, CSA	10-884-BF	6,500	1,720	683	Sep 2019
Green Infrastructure for the Peterson Ridge Metra Station in Chicago, NSA	18-IGA-11	1,082	541	59	Nov 2019
Total 2019 Awards		\$ 54,235	\$ 24,698		

Projects Under Development

Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date
Flood Control Project on the West Fork of the North Branch of the Chicago River, NSA	16-IGA-18	\$ 6,600	729	Feb 2020
Flood Control Project along Plainfield Road in Countryside, La Grange, McCook, and Lyons Township, SSA	14-112-5F	17,000	729	Mar 2020
Flood Control Project in the vicinity of 135th Street and Central Avenue in Crestwood, CSA	14-258-5F	9,300	317	Mar 2020
Storm Sewers and Outfall to Flagg Creek in Western Springs, SSA	18-IGA-32	192	240	Mar 2020
Flood Control Project for the Washington Street Area in Blue Island, CSA	14-260-5F	5,700	682	May 2020
Flood Control Project on Willow Road at McDonald Creek Tributary A in Prospect Heights, NSA	14-371-5F	1,800	670	May 2020
Flood Control Project on Calumet-Sag Tributary C in Bremen Township and Midlothian, CSA	14-257-5F	3,600	317	Jun 2020
Culvert Upsizing and Channel Improvements on Boca Rio Ditch in Oak Forest, CSA	18-IGA-26	203	120	Jun 2020
Flood Control Project on Central Road from the Des Plaines River to Greenwood Road, NSA	14-065-5F	12,000	683	Feb 2021
Total Future Awards		\$ 56,395		
Cumulative Projects Under Construction, 2019 Awards, and Future Awards		\$ 159,177		

* 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.

**METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE ADOPTED 2019 BUDGET RECOMMENDATIONS**

Department Page Number:
1 of 1

Fund: 101 Department Number: 16000 Department Name: Monitoring & Research

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item Name</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>No.</i>	<i>TO \$ Amount</i>	<i>No.</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
25	156	612490	Contractual Services, N.O.C.		\$336,000		\$335,600		(\$400)	Decrease is due to favorable bids on 19-105-11, Collection, Shipment, and Analysis of Water Samples from the Thornton Composite Reservoir and Monitoring Wells, and the Analysis of Monitoring Well Samples from the McCook Reservoir Site.
25	156	623820	Fuel		\$13,400		\$13,800		\$400	Increase is due to the higher than anticipated award value of 19-022-11, Furnish and Deliver Diesel Fuel to Various Locations.
31	162	162	Laboratory Assistant (HP09)	3		2		(1)		One position was transferred to Section 164.
31	162	164	Laboratory Assistant (HP09)	1		2		1		One position was transferred from Section 162.
32	163	166	Laboratory Technician II (HP11)	8		7		(1)		One position was transferred to Section 167.
32	163	167	Laboratory Technician II (HP11)	7		8		1		One position was transferred from Section 166.

MONITORING & RESEARCH BUDGET TOTAL: \$31,253,400 \$31,253,400 \$0

December 2018 (BF-21)


Department Head (Recommended)


Budget Officer (Reviewed)


Executive Director (Approved)

12/12/18
Date

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**METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE ADOPTED 2019 BUDGET RECOMMENDATIONS**

Department Page Number:
1 of 1


Fund: 101 Department Number: 27000 Department Name: Information Technology

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item Name</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>No.</i>	<i>TO \$ Amount</i>	<i>No.</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
37	205	601010	Salaries of Regular Employees		\$8,516,000		\$8,196,000		(\$320,000)	Decrease is due to the position changes detailed below.
37	205	612430	Payments for Professional Services		\$960,800		\$1,280,800		\$320,000	Increase is due to the addition of professional services for cyber security assessment.
--	208	289	IT Security Analyst (HP14)	1		0		(1)		One position was dropped in Section 289.
--	208	291	Information Technology Manager (HP19)	2		1		(1)		A crosshatch #1 was added to one position in Section 291.
--	--	291	Information Technology Manager #1 (HP19)	0		1		1		A crosshatch #1 was added to one position in Section 291.
--	208	293	Senior Applications Administrator (HP18)	1		0		(1)		A crosshatch #1 was added to one position in Section 293.
--	--	293	Senior Applications Administrator #1 (HP18)	0		1		1		A crosshatch #1 was added to one position in Section 293.
--	209	294	GIS Analyst (HP14)	3		2		(1)		One position was dropped in Section 294.
--	209	295	Applications Analyst (HP14)	2		1		(1)		One position was dropped in Section 295.

INFORMATION TECHNOLOGY BUDGET TOTAL: \$18,432,300 \$18,432,300 \$0

December 2018 (BF-21)


Department Head (Recommended)


Budget Officer (Reviewed)


Executive Director (Approved)

12/12/18
Date

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METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE ADOPTED 2019 BUDGET RECOMMENDATIONS

Department Page Number:
1 of 4

Fund: 101 Department Number: 66000 Department Name: Maintenance & Operations - General Division

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item Name</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>No.</i>	<i>TO \$ Amount</i>	<i>No.</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
44	261	623820	Fuel		\$172,200		\$179,100		\$6,900	Increase is due to the higher than anticipated award value of 19-022-11, Furnish and Deliver Diesel Fuel to Various Locations.

GENERAL DIVISION BUDGET TOTAL: \$31,634,100 \$31,641,000 \$6,900

December 2018 (BF-21)


Department Head (Recommended)


Budget Officer (Reviewed)


Executive Director (Approved)

12/12/18
Date

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**METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE ADOPTED 2019 BUDGET RECOMMENDATIONS**

Department Page Number:
2 of 4

Fund: 101 **Department Number:** 67000 **Department Name:** Maintenance & Operations - North Service Area

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item Name</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>No.</i>	<i>TO \$ Amount</i>	<i>No.</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
45	276	612530	Farming Services		\$24,700		\$24,000		(\$700)	Decrease is due to the Fischer Farm horticultural center not requiring operational services in 2019.
46	277	623820	Fuel		\$13,000		\$13,700		\$700	Increase is due to the higher than anticipated award value of 19-022-11. Furnish and Deliver Diesel Fuel to Various Locations.

NORTH SERVICE AREA BUDGET TOTAL: \$43,382,000 \$43,382,000 \$0

December 2018 (BF-21)



Department Head (Recommended)



Budget Officer (Reviewed)



Executive Director (Approved)

12/12/18

Date

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METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE ADOPTED 2019 BUDGET RECOMMENDATIONS

Department Page Number:
3 of 4

Fund: 101

Department Number: 68000

Department Name: Maintenance & Operations - Calumet Service Area

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item Name</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>No.</i>	<i>TO \$ Amount</i>	<i>No.</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
47	291	623130	Buildings, Grounds, Paving Materials, and Supplies		\$54,000		\$51,600		(\$2,400)	Decrease is due to the reduced need for materials used for structural repairs to boilers based on the work completed in 2018.
48	292	623820	Fuel		\$45,000		\$47,400		\$2,400	Increase is due to the higher than anticipated award value of 19-022-11. Furnish and Deliver Diesel Fuel to Various Locations.

CALUMET SERVICE AREA BUDGET TOTAL: \$36,634,900 \$36,634,900 \$0

December 2018 (BF-21)


Department Head (Recommended)


Budget Officer (Reviewed)


Executive Director (Approved)

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Date

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METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE ADOPTED 2019 BUDGET RECOMMENDATIONS

Department Page Number:
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Fund: 101 Department Number: 69000 Department Name: Maintenance & Operations - Stickney Service Area

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item Name</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>No.</i>	<i>TO \$ Amount</i>	<i>No.</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
50	305	623270	Mechanical Repair Parts		\$1,939,300		\$1,927,800		(\$11,500)	Decrease is due to an updated estimate for mechanical repair parts as a result of the addition of outside services for centrifuge maintenance.
50	305	623820	Fuel		\$87,400		\$92,000		\$4,600	Increase is due to the higher than anticipated award value of 19-022-11, Furnish and Deliver Diesel Fuel to Various Locations.

STICKNEY SERVICE AREA BUDGET TOTAL: \$84,355,400 \$84,348,500 (\$6,900)

December 2018 (BF-21)

MAINTENANCE & OPERATIONS

BUDGET TOTAL: \$196,006,400 \$196,006,400 \$0


Department Head (Recommended)


Budget Officer (Reviewed)


Executive Director (Approved)

12/12/18
Date

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**METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE ADOPTED 2019 BUDGET RECOMMENDATIONS**

Department Page Number:
1 of 1

Fund: 201 Department Number: 50000 Fund Name: Construction

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item Name</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>No.</i>	<i>TO \$ Amount</i>	<i>No.</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
54	385	634620	Equipment for Waterway Facilities		\$0		\$17,000		\$17,000	Increase is due to the carryforward of a project to replace air conditioning units in the Waterways Control Center at the Main Office Building.
54	385	645680	Buildings		\$2,986,000		\$3,061,000		\$75,000	Increase is due to the carryforward of a project to renovate bathroom stalls at the Main Office Building Complex.
54	385	645700	Preservation of Collection Facility Structures		\$2,505,000		\$2,540,000		\$35,000	Increase is due to the carryforward of JOC 18-555-2J, Southwest Side Intercepting Sewer 17-C Relining.
54	385	645750	Preservation of Process Facility Structures		\$1,449,800		\$1,414,800		(\$35,000)	Decrease is due to the 2018 completion of 11-403-2P, Membrane Gas Holder Replacement and Digester Cleaning, EWRP.

CONSTRUCTION FUND BUDGET TOTAL: \$18,248,300 \$18,340,300 \$92,000

December 2018 (BF-21)


Department Head (Recommended)


Budget Officer (Reviewed)


Executive Director (Approved)

12/12/18
Date

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Department Head (Recommended)

**METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE ADOPTED 2019 BUDGET RECOMMENDATIONS**

Department Page Number:
1 of 1

Fund: 401 Department Number: 50000 Fund Name: Capital Improvements Bond

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item Name</i>	<i>No.</i>	<i>FROM \$ Amount</i>	<i>No.</i>	<i>TO \$ Amount</i>	<i>No.</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>
59	459	612400	Intergovernmental Agreements		\$12,871,100		\$16,354,100		\$3,483,000	Increase is due to the addition of funding for 15-IGA-14, Construction of a Levee along Thorn Creek at Arquilla Park, Glenwood, CSA.
59	459	645620	Waterway Facilities Structures		\$167,235,700		\$163,752,700		(\$3,483,000)	Decrease is due to 10-884-BF, Flood Control Project for Deer Creek, CSA, being fully funded by the Stormwater Management Fund.
59	459	645650	Process Facilities Structures		\$14,450,000		\$32,562,500		\$18,112,500	Increase is due to the deferral and anticipated 2019 award of 17-134-3M, Odor Control Facilities at WASSTRIP®, Southwest Coarse Screen and Overhead Weir, and Post-Centrifuge Building, SWRP.

CAPITAL IMPROVEMENTS BOND FUND BUDGET TOTAL: \$360,061,300 \$378,173,800 \$18,112,500

December 2018 (BF-21)



Department Head (Recommended)



Budget Officer (Reviewed)



Executive Director (Approved)

12/12/18

Date

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**METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
CHANGES TO THE ADOPTED 2019 BUDGET RECOMMENDATIONS**

Department Page Number:
1 of 1

Fund: 501 Department Number: 50000 Fund Name: Stormwater Management

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget Tentative Page</i>	<i>ED Rec. Page</i>	<i>Code</i>	<i>Position Title or Line Item Name</i>	<i>FROM No. \$ Amount</i>	<i>TO No. \$ Amount</i>	<i>Plus/(Minus) No. \$ Amount</i>	<i>Explanation</i>
62	536	645620	Waterway Facilities Structures	\$23,367,100	\$22,725,400	(\$641,700)	Decrease is due to changes in project schedules for Waterway Facilities Structures.
62	536	645720	Preservation of Waterway Facility Structures	\$1,602,500	\$2,244,200	\$641,700	Increase is due to the higher than anticipated award value of 14-108-5F, Streambank Stabilization Projects for Addison Creek, SSA.

STORMWATER MANAGEMENT FUND BUDGET TOTAL: \$91,410,100 \$91,410,100 \$0

December 2018 (BF-21)

Catherine A. O'Connor

Department Head (Recommended)

Shelley Pratt

Budget Officer (Reviewed)

Brian Beckwith

Executive Director (Approved)

12/12/18

Date

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APPROPRIATION ORDINANCE NUMBER O18-006A
(CONTINUED)

THE METROPOLITAN WATER RECLAMATION DISTRICT RETIREMENT FUND

And an amount of Estimated Expenditures for the Purpose of the Metropolitan Water Reclamation District Retirement Fund of \$87,281,000.

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, 2019.

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*