

# **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:

<a href="#"><u>Transmittal Letter</u></a>	437
<a href="#"><u>Appropriations, Expenditures, and Budgeted FTE Positions, 2011 - 2020</u></a>	438
<a href="#"><u>Organization Chart</u></a>	439
<a href="#"><u>Budget Narrative</u></a>	440
<a href="#"><u>Project List</u></a>	444
<a href="#"><u>Projects Listed by Service Area</u></a>	447
<a href="#"><u>Project Fact Sheets</u></a>	451
<a href="#"><u>Project Exhibits</u></a>	505
<a href="#"><u>Objectives and Program Summary</u></a>	511
<a href="#"><u>Performance Data</u></a>	513
<a href="#"><u>Line Item Analysis</u></a>	515
<a href="#"><u>Position Analysis</u></a>	517



**Metropolitan Water Reclamation District of Greater Chicago**

100 EAST ERIE STREET

CHICAGO, ILLINOIS 60611-3154

312.751.5600

**BOARD OF COMMISSIONERS**  
Kari K. Steele  
*President*  
Barbara J. McGowan  
*Vice President*  
Frank Avila  
*Chairman Of Finance*  
Cameron Davis  
Kimberly Du Buclet  
Marcelino Garcia  
Josina Morita  
Debra Shore  
Mariyana T. Spyropoulos

September 10, 2019

Mr. Brian A. Perkovich  
Executive Director  
O F F I C E

Dear Sir:

Subject: 2020 Program for the Stormwater Management Fund

The Stormwater Management Fund's program for 2020, as prepared in detail, is transmitted herewith. The budget presentation supports the request for funding of the 2020 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, 2020 major initiatives and challenges, and 2019 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 2020.

Respectfully submitted,

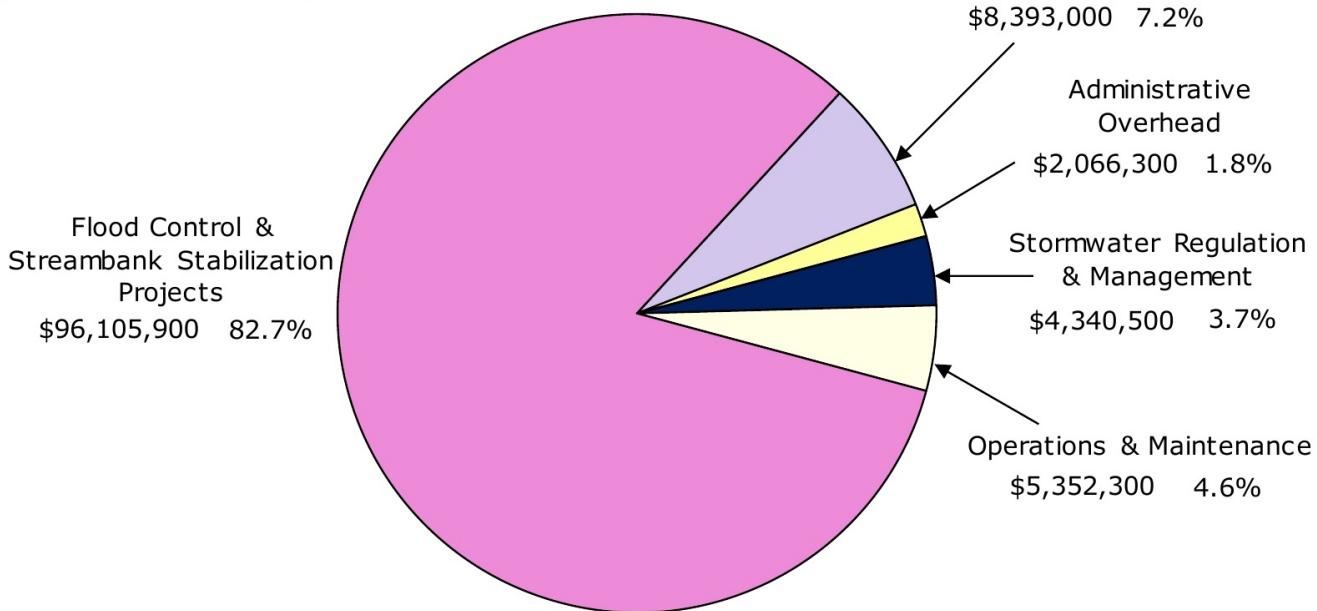
Catherine A. O'Connor  
Director of Engineering

John P. Murray  
Director of Maintenance & Operations

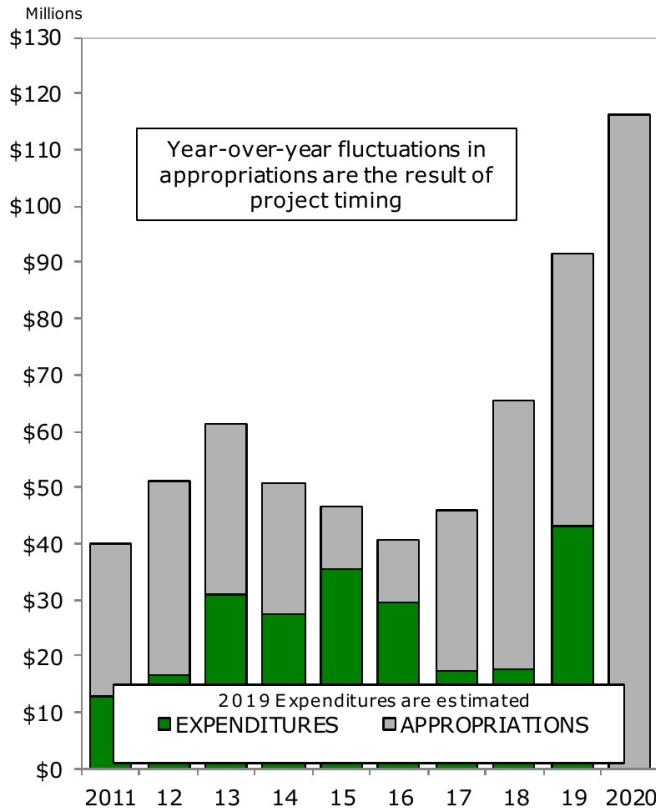
## STORMWATER MANAGEMENT FUND

2020	\$116,258,000
2019	\$91,410,100
Increase	\$24,847,900

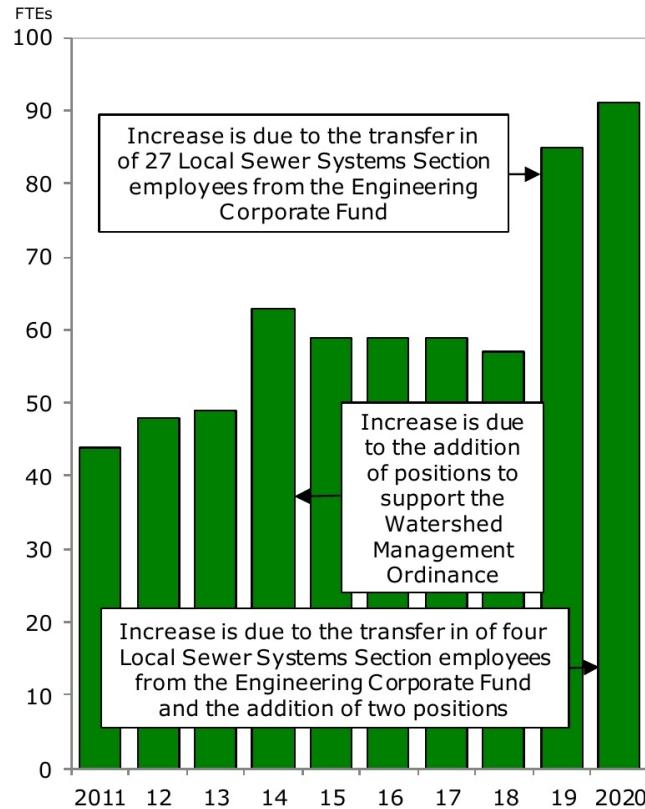
### FUNCTIONS



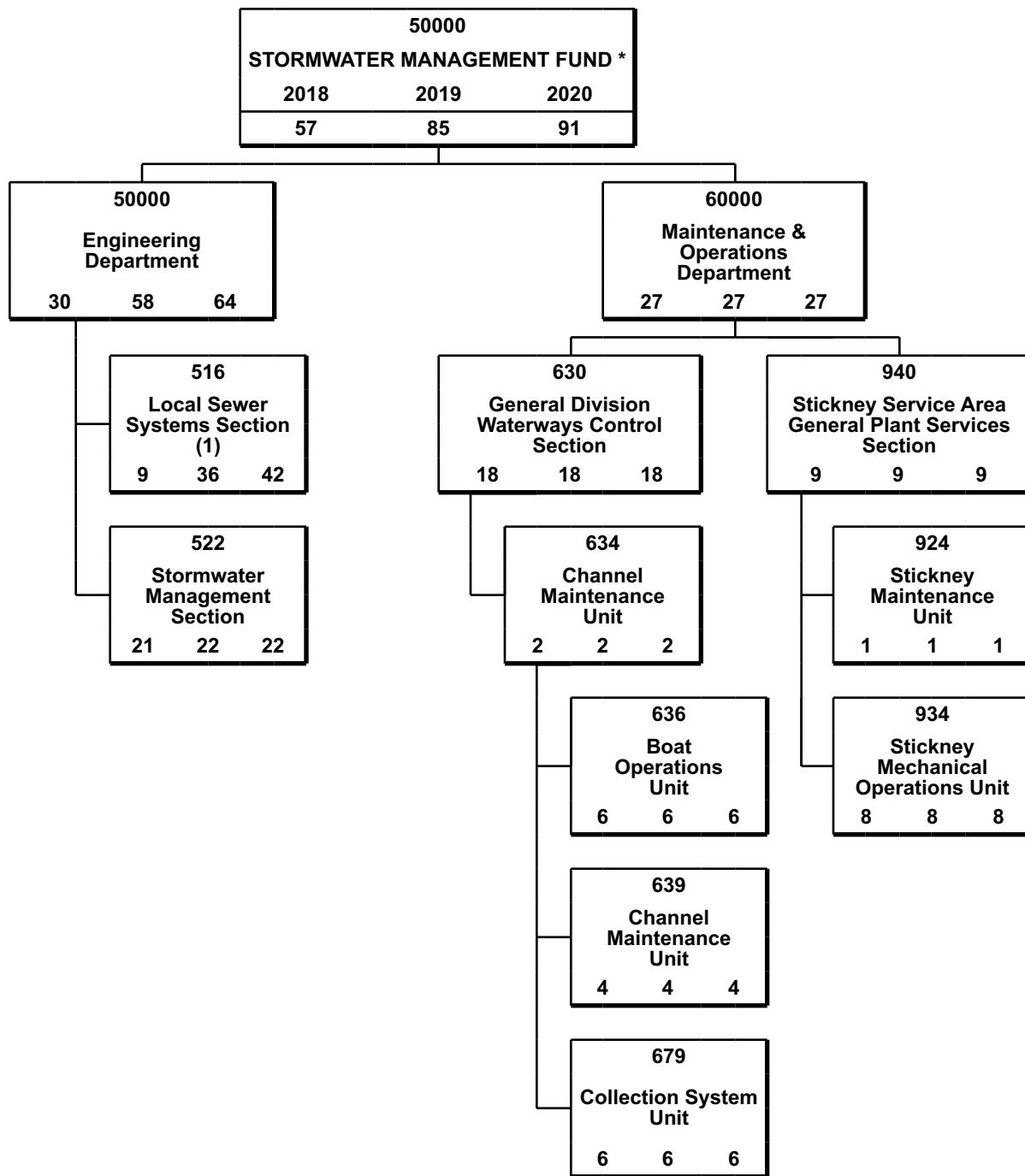
### APPROPRIATIONS & EXPENDITURES



### BUDGETED FTE POSITIONS



## STORMWATER MANAGEMENT FUND



\* Positions funded by the Stormwater Management Fund are operationally controlled by the Engineering and Maintenance & Operations Departments.

(1) Effective 01/01/19, 27 positions were transferred from the Engineering Department - Corporate Fund to the Stormwater Management Fund.

## 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. 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. Information on the Stormwater Management Program and WMO can be found at [www.mwrd.org](http://www.mwrd.org).

### Summary of 2019 Accomplishments

- Completed construction of two flood control and one streambank stabilization projects originally identified in the DWPs;
- Awarded two flood control and one streambank stabilization projects;
- 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 an IGA for acquisition of 32 flood-prone properties within the Village of Franklin Park;
- Solicited applications for Green Infrastructure projects from local communities and agencies and continued to identify partnership opportunities to assist in constructing local flood control projects;
- Required construction of 78 million gallons of volume control, detention, and floodplain compensatory storage, in conjunction with development throughout Cook County, as a result of WMO enforcement;
- Amended the WMO on May 16, 2019 to include results of the Watershed Specific Release Rate Study as well as clarifications to better serve the District and its constituents. Watershed Specific Release Rates will require detention facilities to be sized to mitigate the impact of development flood risks for downstream properties;
- Conducted a technical advisory committee meeting every two months to present changes to the WMO and Technical Guidance Manual (TGM);
- Presented WMO updates and status of the I/I Control Program at Watershed Planning Council meetings;
- Updated the TGM based on the WMO Amendment;
- 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 2020 appropriation for the Stormwater Management Fund is \$116,258,000, an increase of \$24,847,900, or 27.2 percent, from 2019. The staffing level has increased from 85 to 91 positions, which includes the transfer of four Corporate Fund LSSS positions responsible for administering the WMO from the Engineering Department and the addition of one Assistant Civil Engineer and one Senior Civil Engineer. The increase in operational costs due to these position changes will be partially offset by revenues generated from WMO permit review fees.

Significant features of the 2020 Budget are:

- Prioritize and implement new Green Infrastructure projects from 2019 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;
- Award the Addison Creek Channel Improvements project in Bellwood, Broadview, Melrose Park, Northlake, Stone Park, and Westchester;
- Continue the SSMP to reduce flooding in urbanized areas;

- Continue to expand the online content related to the Chicago Area Waterway System and the SSMP to provide educational materials, as well as general information regarding the management of the system before, during, and after a storm;
- Amend the WMO and update the TGM to include clarifications to better serve the District and its constituents;
- Continue the implementation of the I/I Control Program to reduce sanitary sewer overflows and basement backups.

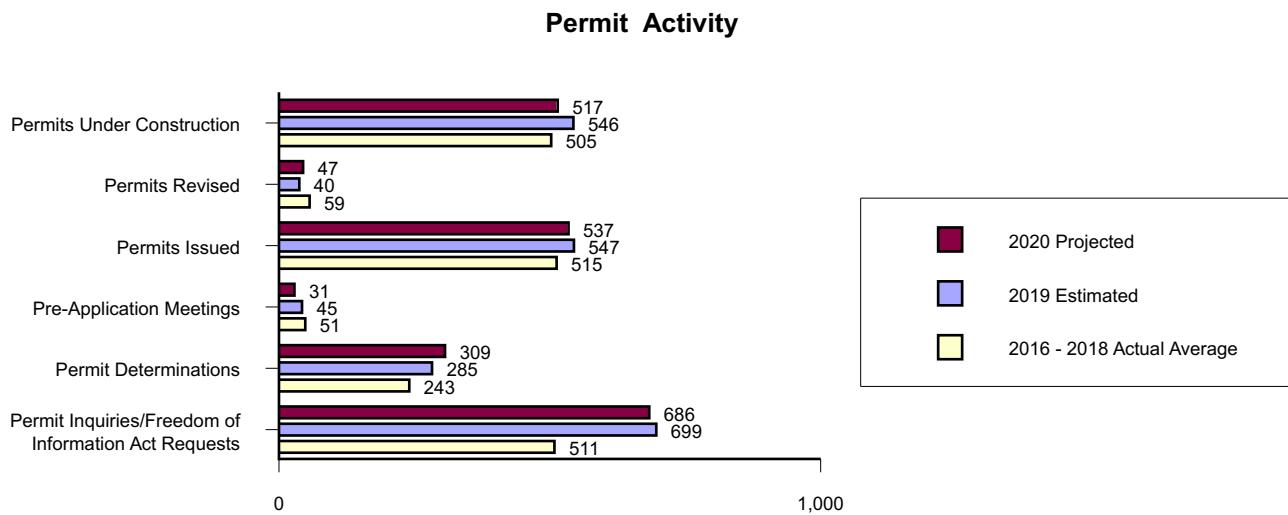
## 2020 Initiatives in Support of the Strategic Business Plan Include the Following:

### • 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 2019, the average review time for an initial submittal was 11 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 537 total permits in 2020, with an estimated average time from initial submittal to permit issuance of 37 working days. The number of total permits issued averaged 515 annually from 2016-2018.



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 is 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 is shown on the Permit Activity exhibit. LSSS staff issue and process an average of four 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 hired two engineering consultant firms to provide program management services, one for the combined sewer areas and another for separate sewer areas. They have prepared a framework for the next six Master Plans and are making assessments for future Master Plans to ultimately create a vision to address flooding throughout 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 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 third quarter of 2019, 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 123 regional and local stormwater management projects.

In 2019, projects under construction in partnership with municipalities included Addison Creek Reservoir, Arrowhead Lake Flood Control Project, Addison Creek Streambank Stabilization, Buffalo Creek Reservoir Expansion, Natalie Creek Flood Control Project, Green Alley projects in Harwood Heights, Maywood, and River Forest, new storm sewers in Franklin Park, and Elk Grove Village Culvert Improvements.

The District developed the WMO and TGM 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.

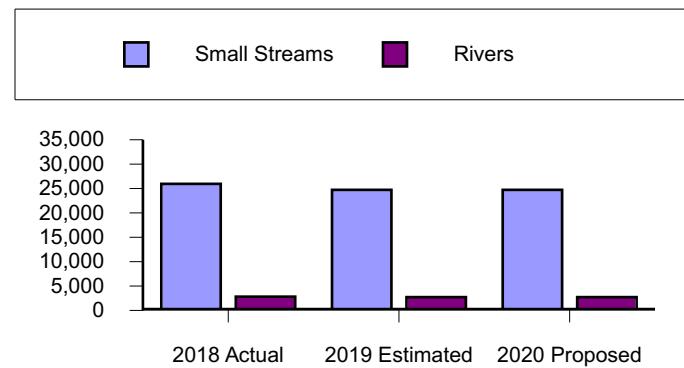
- **Information Technology**

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 IGA with the District. As of July 2019, nine municipalities have entered into an IGA 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 506, while maps of flood control projects including reservoirs, Green Infrastructure, and other projects the District is implementing with local municipalities can be found on pages 507 - 510.

## **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, which is comprised of three distinct components, as follows:

- Local Sponsorship Assistance Program: The District's top priority will be to facilitate the Illinois Emergency Management Agency's federally funded program by assisting local sponsor communities in providing their share of the cost for property acquisition;
- District Initiated Program: The cost of a property acquisition alternative will be estimated for any approved project and compared to the estimated cost of the structural project determined through a preliminary engineering analysis. Should the cost of the property acquisition alternative be less than the structural project, and the benefits at least equivalent, the acquisition alternative will be pursued in lieu of the structural project;
- Local Government Application Program: The District will consider applications directly from local governments requesting property acquisition of specific flood-prone structures.

The District solicited applications from municipalities and townships for assistance with the acquisition of flood-prone structures located throughout Cook County and entered into an IGA to partner with the Village of Franklin Park to acquire 32 flood-prone residential structures. These acquisitions will be completed in 2021. As a result of the 2019 application process, additional agreements will be negotiated to assist local communities with flood-prone property acquisitions in the future.

## **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	2020 Appropriation	Award Date	Est. Substantial Completion Date	
Installation of Green Infrastructure at Chicago Public Schools, Various Locations	15-IGA-20	\$ 16,000	\$ 4,553	Sep 2016	Dec 2022	
Land Acquisition for the Flood Control Project on Midlothian Creek in Robbins, CSA	17-IGA-02	200	200	Dec 2017	Jan 2020	
* Buffalo Creek Reservoir Expansion, NSA	13-370-3F	1,029	126	Feb 2018	Mar 2020	
Flood Control Project on Natalie Creek in Oak Forest and Midlothian, CSA	14-252-5F	7,629	6,118	Sep 2018	Dec 2020	
Streambank Stabilization Projects for Addison Creek, SSA	14-108-5F	1,546	160	Nov 2018	Apr 2020	
Groveland Avenue Levee Improvements in Riverside, SSA	18-IGA-20	2,506	1,767	Dec 2018	Aug 2022	
Culvert Improvements in Elk Grove Village, NSA	18-IGA-30	1,250	1,250	Mar 2019	Feb 2020	
Pilot Study for Investigating Technology to Address Basement Backups, CSA and SSA	16-IGA-20	400	400	Jun 2019	Dec 2020	
New Storm Sewers and New Storm Sewer Outfall along North Shore Avenue in Lincolnwood, NSA	18-IGA-22	1,392	1,392	Jun 2019	Nov 2020	
University of Illinois at Chicago Green Infrastructure at the Arthington Mall, SSA	18-IGA-18	242	242	Aug 2019	May 2020	
Green Alleys Project in Chicago, CSA	18-IGA-03	197	197	Sep 2019	Jun 2020	
Stormwater Storage Areas in Niles, NSA	18-IGA-31	2,000	1,521	Sep 2019	Feb 2021	
Green Infrastructure Alley Paving Improvements in Cicero, SSA	19-IGA-02	269	269	Sep 2019	May 2020	
Expansion of Existing Detention Basin in Orland Park, CSA	18-IGA-33	558	424	Oct 2019	Aug 2020	
Evanston/Skokie School District 65 Green Infrastructure At Orrington Elementary School, NSA	19-IGA-07	12	12	Oct 2019	May 2020	
Stormwater Storage in Mount Prospect, NSA	18-IGA-25	1,348	1,348	Nov 2019	Jan 2020	
Storm Sewers and Outfall in Forest View, SSA	18-IGA-28	1,000	399	Nov 2019	Jan 2020	
Streambank Stabilization Project along Midlothian Creek in Tinley Park, CSA	19-IGA-21	645	645	Nov 2019	Jan 2023	
Garfield Park Community Eco Orchard in Chicago, SSA	18-IGA-05	500	500	Dec 2019	Jan 2020	
Washington Street Green Infrastructure Parking Lot Improvements in Lansing, CSA	19-IGA-13	250	250	Dec 2019	May 2020	
Green Alley Improvements Project in Oak Park, SSA	19-IGA-14	475	475	Dec 2019	May 2020	
Green Alley Improvements Project in River Grove, SSA	19-IGA-16	385	385	Dec 2019	May 2020	
Total Projects Under Construction		\$ 39,833	\$ 22,633			

**Awards in 2020**

Project Name	Project Number	Est. Construction Cost	2020 Appropriation	Duration (days)	Est. Award Date
Streambank Stabilization Project along Calumet Union Drainage Ditch, CSA	10-882-BF	\$ 1,568	\$ 811	1,307	Jan 2020
Streambank Stabilization Project on Melvina Ditch in Oak Lawn and Chicago Ridge, CSA	13-248-5F	11,450	519	621	Jan 2020
Flood Control Project on 1st Avenue from Roosevelt Road to Cermak Road, SSA	14-111-5F	5,200	1,120	500	Jan 2020
Winchester Avenue Green Infrastructure Project in Calumet Park, CSA	18-IGA-02	360	360	120	Jan 2020
Storm Sewers Connection to Existing Des Plaines River Outfall in Forest Park, SSA	18-IGA-21	1,106	1,106	330	Jan 2020
Wetland and Park Storage Projects in Winnetka, NSA	18-IGA-24	500	500	365	Jan 2020
Cornell Avenue Green Infrastructure Project in Dolton, CSA	19-IGA-01	250	250	90	Jan 2020
Green Infrastructure in Calumet City, CSA	19-IGA-05	395	395	90	Jan 2020
Public Library Green Parking Lot in Park Ridge, NSA	19-IGA-17	650	650	270	Jan 2020
Flood Control in the vicinity of 131st Street and Cypress Drive in Palos Heights, CSA	14-259-5F	134	134	300	Mar 2020
Lake Catherine Commuter Parking Lot in Palos Heights, CSA	18-IGA-14	184	184	120	Mar 2020
Storm Sewers and Outfall to Flagg Creek in Western Springs, SSA	18-IGA-32	192	192	240	Mar 2020
Barbara Vick Outdoor Classrooms in Chicago, CSA	19-IGA-03	100	100	90	Mar 2020
School District 154 Wolcott School Playground Enhancement in Thornton, CSA	19-IGA-09	144	144	90	Mar 2020
Addison Green Alley in Chicago, SSA	19-IGA-18	150	150	90	Mar 2020
South Laflin Green Alley in Chicago, SSA	19-IGA-19	102	102	90	Mar 2020
South Homan Green Alley in Chicago, SSA	19-IGA-20	155	155	90	Mar 2020
Permeable Pavement and Rain Gardens in Posen, CSA	18-IGA-15	250	250	90	Apr 2020
Public Works Facility Demonstration Rain Garden in Oak Park, SSA	19-IGA-11	20	20	90	Apr 2020
Flood Control Project on Midlothian Creek in Robbins, CSA	14-253-5F	11,000	265	550	May 2020
Flood Control Project for Deer Creek, CSA	10-884-BF	6,500	2	731	Jun 2020
Culvert Upsizing and Channel Improvements on Boca Rio Ditch in Oak Forest, CSA	18-IGA-26	519	519	214	Jun 2020
Green Streets Project in Ford Heights, CSA	19-IGA-12	357	357	90	Jun 2020
Flood Control Project in the vicinity of 135th Street and Central Avenue in Crestwood, CSA	14-258-5F	9,300	149	365	Jul 2020
* Addison Creek Channel Improvements, SWRP	11-187-3F	21,350	3,109	731	Aug 2020
Flood Control Project on the West Fork of the North Branch of the Chicago River, NSA	16-IGA-18	6,600	1,860	509	Aug 2020
* Construction of a Levee along Thorn Creek at Arquila Park in Glenwood, CSA	15-IGA-14	387	200	366	Sep 2020
Flood Control Projects on Farmers and Prairie Creeks, NSA	12-056-5F	14,100	1	761	Nov 2020
Total 2020 Awards		\$ 93,023	\$ 13,604		

## Projects Under Development

Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date
Flood Control Project in the Worth Woods Subdivision in Worth, CSA	14-256-5F	\$ 2,500	366	Jan 2021
Flood Control Project for the Washington Street Area in Blue Island, CSA	14-260-5F	5,700	730	Jun 2021
Flood Control Project along Plainfield Road in Countryside, La Grange, McCook, and Lyons Township, SSA	14-112-5F	17,000	730	Jul 2021
Flood Control Project on Willow Road at McDonald Creek Tributary A in Prospect Heights, NSA	14-371-5F	1,800	730	Jul 2021
Flood Control Project on Central Road from Des Plaines River to Greenwood Road, NSA	14-065-5F	12,000	731	Sep 2021
Flood Control Project on Calumet-Sag Tributary C in Bremen Township and Midlothian, CSA	14-257-5F	3,600	365	Sep 2021
Total Future Awards		\$ 42,600		
Cumulative Projects Under Construction, 2020 Awards, and Future Awards		\$ 175,455		

\* 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.**

The Stormwater Management local cost-sharing programs for Green Infrastructure projects and stormwater projects, along with flood-prone property acquisitions and projects that are in the preliminary stages of design, will continue to be a priority for the District in addressing flooding due to increased intense rain events that overwhelm current infrastructure throughout Cook County. The table below provides planned expenditures for the fiscal years 2021-2024 not included in the detailed list of Projects Under Development presented above.

## 2021-2024 Projects Under Development

Projects	2021	2022	2023	2024	Total 2021-2024
Green Infrastructure Projects Intergovernmental Agreements	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 20,000
Local Stormwater Projects Intergovernmental Agreements	5,000	5,000	5,000	5,000	20,000
Flood-Prone Property Acquisitions	5,000	5,000	5,000	5,000	20,000
Future Stormwater Projects (projects currently under preliminary design)	—	5,000	5,000	20,000	30,000
Anticipated District Stormwater Projects from Master Planning	—	—	5,000	15,000	20,000
Total	\$ 15,000	\$ 20,000	\$ 25,000	\$ 50,000	\$ 110,000

**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 2020 award, or under development.

## STICKNEY SERVICE AREA (SSA)



### Stickney Water Reclamation Plant (SWRP)

#### Projects Under Construction

		Estimated Substantial Completion Date	Estimated Construction Cost
14-108-5F	Streambank Stabilization Projects for Addison Creek, SSA	4/20	\$ 1,546,000
15-IGA-20	Installation of Green Infrastructure at Chicago Public Schools, Various Locations	12/22	16,000,000
18-IGA-05	Garfield Park Community Eco Orchard in Chicago, SSA	1/20	500,000
18-IGA-18	University of Illinois at Chicago Green Infrastructure at the Arthington Mall, SSA	5/20	242,000
18-IGA-20	Groveland Avenue Levee Improvements in Riverside, SSA	8/22	2,506,028
18-IGA-28	Storm Sewers and Outfall in Forest View, SSA	1/20	1,000,000
19-IGA-02	Green Infrastructure Alley Paving Improvements in Cicero, SSA	5/20	268,900
19-IGA-14	Green Alley Improvements Project in Oak Park, SSA	5/20	475,000
19-IGA-16	Green Alley Improvements Project in River Grove, SSA	5/20	385,000
		Total	\$ 22,922,928

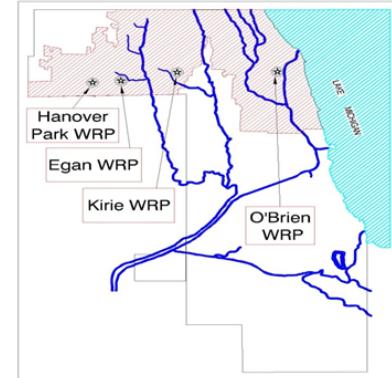
#### Projects for 2020 Award

11-187-3F	* Addison Creek Channel Improvements, SWRP	\$ 21,350,000
14-111-5F	Flood Control Project on 1st Avenue from Roosevelt Road to Cermak Road, SSA	5,200,000
18-IGA-21	Storm Sewers Connection to Existing Des Plaines River Outfall in Forest Park, SSA	1,106,300
18-IGA-32	Storm Sewers and Outfall to Flagg Creek in Western Springs, SSA	191,907
19-IGA-11	Public Works Facility Demonstration Rain Garden in Oak Park, SSA	20,000
19-IGA-18	Addison Green Alley in Chicago, SSA	150,000
19-IGA-19	South Laflin Green Alley in Chicago, SSA	101,500
19-IGA-20	South Homan Green Alley in Chicago, SSA	155,000
	Total	\$ 28,274,707

#### Projects Under Development

14-112-5F	Flood Control Project along Plainfield Road in Countryside, La Grange, McCook, and Lyons Township, SSA	\$ 17,000,000
	Total	\$ 17,000,000
	Stickney Service Area Grand Total	<u><u>\$ 68,197,635</u></u>

## NORTH SERVICE AREA (NSA)



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

#### Projects Under Construction

		Estimated Substantial Completion Date	Estimated Construction Cost
13-370-3F	* Buffalo Creek Reservoir Expansion, NSA	3/20	\$ 1,028,867
18-IGA-22	New Storm Sewers and New Sewer Outfall along North Shore Avenue in Lincolnwood, NSA	11/20	1,391,763
18-IGA-25	Stormwater Storage in Mount Prospect, NSA	1/20	1,348,000
18-IGA-30	Culvert Improvements in Elk Grove Village, NSA	2/20	1,250,000
18-IGA-31	Stormwater Storage Areas in Niles, NSA	2/21	2,000,000
19-IGA-07	Evanston/Skokie School District 65 Green Infrastructure At Orrington Elementary School, NSA	5/20	12,000
		Total	\$ 7,030,630

#### Projects for 2020 Award

12-056-5F	Flood Control Project on Farmers and Prairie Creeks, NSA	\$ 14,100,000
16-IGA-18	Flood Control Project on the West Fork of the North Branch of the Chicago River, NSA	6,600,000
18-IGA-24	Wetland and Park Storage Projects in Winnetka, NSA	500,000
19-IGA-17	Public Library Green Parking Lot in Park Ridge, NSA	650,000
		Total \$ 21,850,000

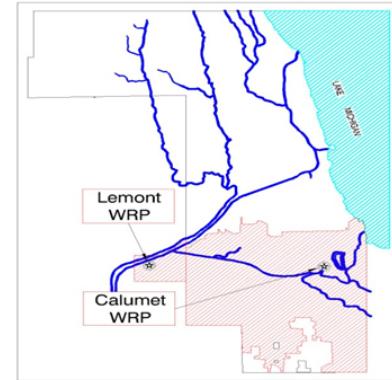
#### Projects Under Development

14-065-5F	Flood Control Project on Central Road from 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
		Total \$ 13,800,000

North Service Area Grand Total

\$ 42,680,630

## CALUMET SERVICE AREA (CSA)



### Calumet Water Reclamation Plant (CWRP)

#### Projects Under Construction

		Estimated Substantial Completion Date	Estimated Construction Cost
14-252-5F	Flood Control Project on Natalie Creek in Oak Forest and Midlothian, CSA	12/20	\$ 7,629,000
16-IGA-20	Pilot Study for Investigating Technology to Address Basement Backup, CSA and SSA	12/20	400,000
17-IGA-02	Land Acquisition for the Flood Control Project on Midlothian Creek in Robbins, CSA	1/20	200,000
18-IGA-03	Green Alleys Project in Chicago, CSA	6/20	197,000
18-IGA-33	Expansion of Existing Detention Basin in Orland Park, CSA	8/20	558,000
19-IGA-13	Washington Street Green Infrastructure Parking Lot Improvements in Lansing, CSA	5/20	250,000
19-IGA-21	Streambank Stabilization Project along Midlothian Creek in Tinley Park, CSA	1/23	645,000
		Total	\$ 9,879,000

#### Projects for 2020 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
13-248-5F	Streambank Stabilization Project on Melvina Ditch in Oak Lawn and Chicago Ridge, CSA	11,450,200
14-253-5F	Flood Control Project on Midlothian Creek in Robbins, CSA	11,000,000
14-258-5F	Flood Control Project in the vicinity of 135th Street and Central Avenue in Crestwood, CSA	9,300,000
14-259-5F	Flood Control in the vicinity of 131st Street and Cypress Drive in Palos Heights, CSA	134,000
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	360,000
18-IGA-14	Lake Catherine Commuter Parking Lot in Palos Heights, CSA	184,000
18-IGA-15	Permeable Pavement and Rain Gardens in Posen, CSA	250,000
18-IGA-26	Culvert Upsizing and Channel Improvements on Boca Rio Ditch in Oak Forest, CSA	519,300
19-IGA-01	Cornell Avenue Green Infrastructure Project in Dolton, CSA	250,000
19-IGA-03	Barbara Vick Outdoor Classrooms in Chicago, CSA	100,000
19-IGA-05	Green Infrastructure in Calumet City, CSA	395,333
19-IGA-09	School District 154 Wolcott School Playground Enhancement in Thornton, CSA	143,500
19-IGA-12	Green Streets Project in Ford Heights, CSA	356,500
		Total \$ 42,897,833

**Calumet Water Reclamation Plant (CWRP)**

<b>Projects Under Development</b>		<b>Estimated Construction Cost</b>
14-256-5F	Flood Control Project in the Worth Woods Subdivision in Worth, CSA	\$ 2,500,000
14-257-5F	Flood Control Project on Calumet-Sag Tributary C in Bremen Township and Midlothian, CSA	3,600,000
14-260-5F	Flood Control Project for the Washington Street Area in Blue Island, CSA	5,700,000
		<b>Total</b> <b>\$ 11,800,000</b>
		<b>Calumet Service Area Grand Total</b> <b>\$ 64,576,833</b>
		<b>Capital Projects Grand Total - All Service Areas</b> <b>\$ 175,455,098</b>

\* 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

**Contract Award Date** July 2020

**Substantial Completion Date** June 2024

**Project Description** This project proposes to stabilize banks located along approximately 4,000 linear feet of Tinley Creek in the Village of Orland Park. The work is divided into two locations between 151st Street and Oriole Court and between 86th Avenue and 159th Street. The project will use bioengineering techniques such as geolifts, live stake vegetation, and gentler slopes to stabilize both banks.

**Project Justification** This project will protect structures and infrastructure in imminent danger of failure due to active streambank erosion.

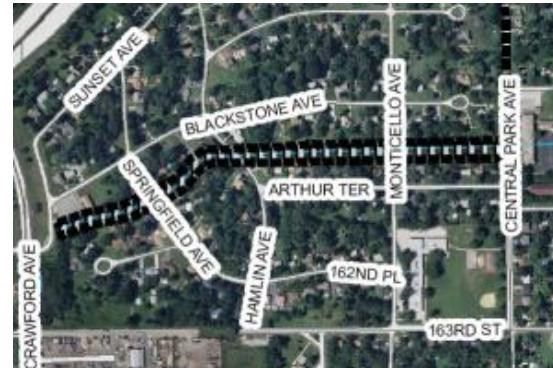
**Project Status** Design

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



## Streambank Stabilization Project along Calumet Union Drainage Ditch, CSA

<b>Project Number</b>	10-882-BF
<b>Service Area</b>	Calumet
<b>Location</b>	Markham, IL
<b>Engineering Consultant</b>	Michael Baker International, Inc.
<b>Engineering Contractor</b>	To be determined
<b>Estimated Construction Cost</b>	\$1,568,000
<b>Contract Award Date</b>	January 2020
<b>Substantial Completion Date</b>	June 2023
<b>Project Description</b>	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 substantial completion.
<b>Project Justification</b>	This project will protect 42 residential structures and infrastructure in imminent danger of failure from active streambank erosion and flooding.
<b>Project Status</b>	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

**Contract Award Date** June 2020

**Substantial Completion Date** May 2022

**Project Description** This project will reduce flooding damages by increasing channel conveyance and raising a berm for about 3,000 feet between U.S. Route 30 and Hammond Lane in 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** This project will help alleviate public health and safety concerns by reducing overbank flooding, which affects approximately 270 structures in the Village of Ford Heights.

**Project Status** Design



## Addison Creek Reservoir, SSA

<b>Project Number</b>	11-186-3F
<b>Service Area</b>	Stickney
<b>Location</b>	Bellwood, IL
<b>Engineering Consultant</b>	Christopher B. Burke Engineering, Ltd.
<b>Engineering Contractor</b>	IHC Construction Companies, LLC
<b>Estimated Construction Cost</b>	\$63,280,000
<b>Contract Award Date</b>	January 2019
<b>Substantial Completion Date</b>	February 2022
<b>Project Description</b>	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 pump station.
<b>Project Justification</b>	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.
<b>Project Status</b>	Construction



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

## Addison Creek Channel Improvements, SWRP

<b>Project Number</b>	11-187-3F
<b>Service Area</b>	Stickney
<b>Location</b>	Northlake, Melrose Park, Stone Park, Bellwood, Westchester, and Broadview, IL
<b>Engineering Consultant</b>	Hey & Associates, Inc.
<b>Engineering Contractor</b>	To be determined
<b>Estimated Construction Cost</b>	\$42,700,000
<b>Contract Award Date</b>	August 2020
<b>Substantial Completion Date</b>	July 2022
<b>Project Description</b>	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.
<b>Project Justification</b>	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.
<b>Project Status</b>	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

**Contract Award Date** November 2020

**Substantial Completion Date** November 2022

**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** 13-248-5F**Service Area** Calumet**Location** Oak Lawn and Chicago Ridge, IL**Engineering Consultant** MWH Americas, Inc.**Engineering Contractor** To be determined**Estimated Construction Cost** \$11,450,195**Contract Award Date** January 2020**Substantial Completion Date** September 2021**Project Description** This project consists of 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

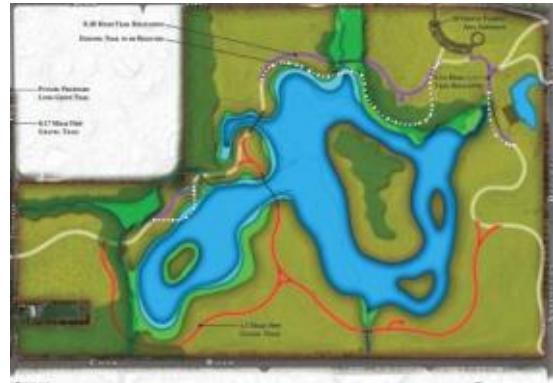
**Contract Award Date** February 2018

**Substantial Completion Date** March 2020

**Project Description** This project consists of a 172 acre-foot expansion of the existing Buffalo Creek Reservoir. This project is a modification of the original BUCR-3 project identified in the Lower Des Plaines Detailed Watershed Plan. The project includes relocating trails and bridges above the reservoir's inundation level. This project is located in the Lower Des Plaines Tributary Watershed.

**Project Justification** Approximately 104 structures will receive flood protection from the expansion.

**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** Industria, Inc.

**Estimated Construction Cost** \$1,546,000

**Contract Award Date** November 2018

**Substantial Completion Date** April 2020

**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** Construction

## 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

**Contract Award Date** January 2020

**Substantial Completion Date** April 2021

**Project Description** This project will increase the 1st Avenue drainage conveyance capacity by replacing existing storm sewer system with two parallel trunk sewers ranging in size from 18-inches to 48-inches on the east side and 18-inches to 36-inches on the west side. Multiple bioswales, in conjunction with the "daylighting" of lateral sewers and the installation of underdrains, will also be installed along 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

<b>Project Number</b>	14-252-5F
<b>Service Area</b>	Calumet
<b>Location</b>	Oak Forest and Midlothian, IL
<b>Engineering Consultant</b>	Burns & McDonnell Engineering Co., Inc.
<b>Engineering Contractor</b>	IHC Construction Companies, LLC
<b>Estimated Construction Cost</b>	\$7,629,000
<b>Contract Award Date</b>	September 2018
<b>Substantial Completion Date</b>	December 2020
<b>Project Description</b>	The scope of the project is to install flood control measures along Natalie Creek 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.
<b>Project Justification</b>	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.
<b>Project Status</b>	Construction



## 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

**Contract Award Date** May 2020

**Substantial Completion Date** September 2021

**Project Description** This three-phase project on Midlothian Creek in Robbins will include the construction of a diversion channel connecting to the Calumet-Sag Channel, channel improvements on Midlothian Creek, and the construction of a naturalized detention area that resembles a park setting.

**Project Justification** The project will provide flood relief for an estimated 92 structures in Robbins.

**Project Status** Design



## Flood Control Project in the vicinity of 135th Street and Central Avenue in Crestwood, CSA

**Project Number** 14-258-5F

**Service Area** Calumet

**Location** Crestwood, IL

**Engineering Consultant** HR Green, Inc.

**Engineering Contractor** To be determined

**Estimated Construction Cost** \$9,300,000

**Contract Award Date** July 2020

**Substantial Completion Date** June 2021

**Project Description** The flood control project will involve the installation of a new storm sewer along 135th Street and existing storage and conveyance improvements for a detention basin on the Nathan Hale School property and Crestwood Drainage Ditch. This project is located in the Calumet-Sag Channel Watershed.

**Project Justification** The project will provide flood relief for 82 structures with the potential to protect additional structures once local storm sewers are upsized.

**Project Status** Design



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

<b>Project Number</b>	14-259-5F
<b>Service Area</b>	Calumet
<b>Location</b>	Palos Heights, IL
<b>Engineering Consultant</b>	Not Applicable
<b>Engineering Contractor</b>	Not Applicable
<b>Estimated Construction Cost</b>	\$134,000
<b>Contract Award Date</b>	March 2020



**Date** Substantial Completion Date December 2020

**Project Description** This project will involve the demolition of a property at 13040 South Cypress Lane and the installation of a swale at this location along with the installation of a new downstream storm sewer and outfall to Navajo Creek.

**Project Justification** This flood control project will protect three residential properties at risk from a 100-year storm event.

## Project Status

## Melvina Ditch Reservoir Improvements, SSA

<b>Project Number</b>	14-263-3F
<b>Service Area</b>	Stickney
<b>Location</b>	Stickney Township
<b>Engineering Consultant</b>	V3 Companies of Illinois, Ltd.
<b>Engineering Contractor</b>	F.H. Paschen, S.N. Nielsen and Associates, LLC



<b>Estimated Construction Cost</b>	\$14,716,780
<b>Contract Award Date</b>	November 2017
<b>Substantial Completion Date</b>	October 2020

<b>Project Description</b>	This project consists of expanding the existing Melvina Ditch Reservoir by 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.
----------------------------	--

<b>Project Justification</b>	This project will reduce flooding for an estimated 430 structures in the City of Burbank and the Village of Oak Lawn.
------------------------------	---

<b>Project Status</b>	Construction
-----------------------	--------------

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

## 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

**Contract Award Date** September 2020

**Substantial Completion Date** July 2021

**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** Not Applicable

**Estimated Construction Cost** \$16,000,000

**Contract Award Date** September 2016

**Substantial Completion Date** December 2022

**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



## Acquisition of 32 Flood-Prone Properties in Franklin Park, SSA

**Project Number** 16-IGA-13

**Service Area** Stickney

**Location** Franklin Park, IL

**Engineering Consultant** Not Applicable

**Engineering Contractor** Not Applicable

**Estimated Construction Cost** \$4,681,000

**Contract Award Date** October 2018

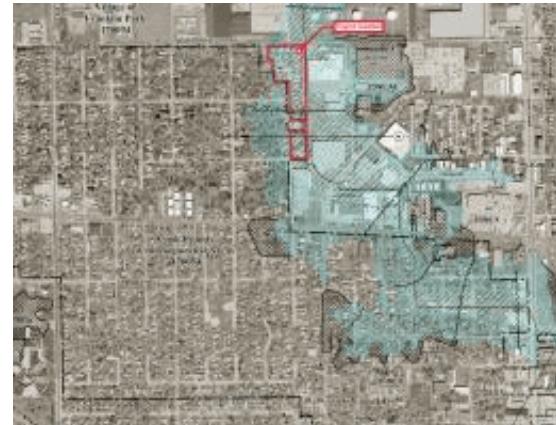
**Substantial Completion Date** August 2020

**Project Description** Purchase of 32 flood-prone homes along Silver Creek. This is a cost sharing agreement with the Village of Franklin Park.

**Project Justification** Flood Control. Purchase of these homes will reduce the flood hazard risk in the Village of Franklin Park.

**Project Status** Cost Sharing Agreement

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



## Flood Control Project on the West Fork of the North Branch of the Chicago River, NSA

**Project Number** 16-IGA-18

**Service Area** North

**Location** Glenview, IL

**Engineering Consultant** Not Applicable

**Engineering Contractor** To be determined

**Estimated Construction Cost** \$6,600,000

**Contract Award Date** August 2020

**Substantial Completion Date** November 2021

**Project Description** The project includes the creation of floodwalls, berms, and additional storage along the West Fork of the North Branch of the Chicago River. This project is located in the North Branch of the Chicago River Watershed.

**Project Justification** This project will reduce flooding by preventing the West Fork of the North Branch of the Chicago River from backing up into local sewers and divert storm water to new relief storm sewers.

**Project Status** Planning



## Pilot Study for Investigating Technology to Address Basement Backups, CSA and SSA

**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

**Contract Award Date** June 2019

**Substantial Completion Date** December 2020

**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** Negotiation / Evaluation



## 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** Not Applicable

**Estimated Construction Cost** \$200,000

**Contract Award Date** December 2017

**Substantial Completion Date** January 2020

**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



## 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** \$360,000

**Contract Award Date** January 2020

**Substantial Completion Date** March 2020

**Project Description** The Village of Calumet Park will be installing a roadside bioswale and permeable pavers in the parking lane of Winchester Avenue for the public benefit of reducing flooding in the general area. 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 \$360,000 of the construction cost through an Intergovernmental Agreement. The Village of Calumet Park will be responsible for operations and maintenance.

**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** Not Applicable

**Estimated Construction Cost** \$197,000

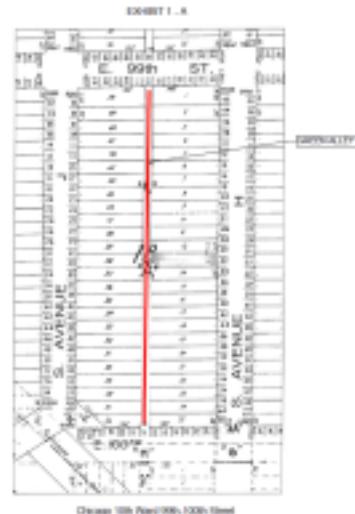
**Contract Award Date** September 2019

**Substantial Completion Date** June 2020

**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



## 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** Not Applicable

**Estimated Construction Cost** \$500,000

**Contract Award Date** December 2019

**Substantial Completion Date** January 2020

**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

## Lake Catherine Commuter Parking Lot in Palos Heights, CSA

<b>Project Number</b>	18-IGA-14
<b>Service Area</b>	Calumet
<b>Location</b>	Palos Heights, IL
<b>Engineering Consultant</b>	Not Applicable
<b>Engineering Contractor</b>	To be determined
<b>Estimated Construction Cost</b>	\$184,000



## Contract Award Date

**Substantial Completion Date** May 2020

**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 Catherine 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** Not Applicable

**Estimated Construction Cost** \$250,000

**Contract Award Date** April 2020

**Substantial Completion Date** June 2020

**Project Description** The District will provide technical and funding assistance for design and construction of a permeable parking lot and rain garden for the Village of Posen at the Veterans of Foreign Wars Hall (2590 Walter Zimmy Drive). The project will be funded through an Intergovernmental Agreement. The Village of Posen will be responsible for operations and maintenance.

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

**Project Status** Design



## 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** Not Applicable

**Estimated Construction Cost** \$242,000

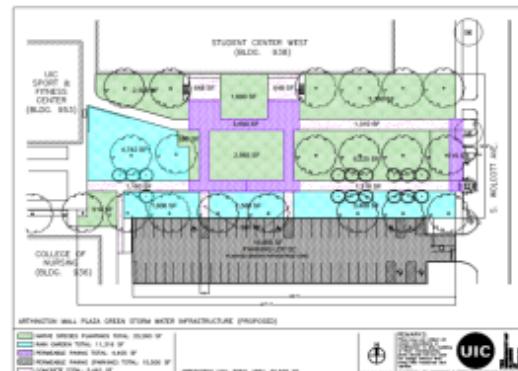
**Contract Award Date** August 2019

**Substantial Completion Date** May 2020

**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** Not Applicable

**Estimated Construction Cost** \$2,506,028

**Contract Award Date** December 2018

**Substantial Completion Date** August 2022

**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 Corps 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** Design



## 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** \$1,106,300

**Contract Award Date** January 2020

**Substantial Completion Date** October 2020

**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. The Village of Forest Park will own, maintain, and operate the subject improvements following the completion of this project.

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

**Project Status** Design



## New Storm Sewers and New Storm Sewer Outfall along North Shore Avenue 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** \$1,391,763

**Contract Award Date** June 2019

**Substantial Completion Date** November 2020

**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-inches to 60-inches 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** Construction



## Wetland and Park Storage Projects in Winnetka, NSA

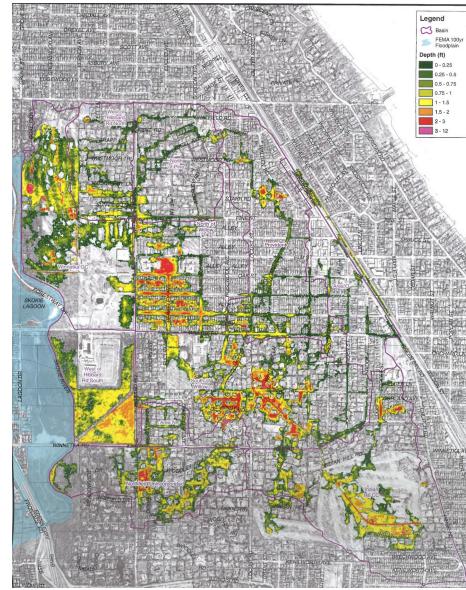
<b>Project Number</b>	18-IGA-24
<b>Service Area</b>	North
<b>Location</b>	Winnetka, IL
<b>Engineering Consultant</b>	Not Applicable
<b>Engineering Contractor</b>	Not Applicable
<b>Estimated Construction Cost</b>	\$500,000
<b>Contract Award Date</b>	January 2020

<b>Substantial Completion Date</b>	November 2020
------------------------------------	---------------

**Project Description** This project will provide a wetland and an underground stormwater storage area 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.

<b>Project Status</b>	Design
-----------------------	--------



## Stormwater Storage in Mount Prospect, NSA

**Project Number** 18-IGA-25

**Service Area** North

**Location** Mount Prospect, IL

**Engineering Consultant** Not Applicable

**Engineering Contractor** Not Applicable

**Estimated Construction Cost** \$1,348,000

**Contract Award Date** November 2019

**Substantial Completion Date** January 2020

**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 Corps 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



## Culvert Upsizing and Channel Improvements on Boca Rio Ditch in Oak Forest, CSA

**Project Number** 18-IGA-26

**Service Area** Calumet

**Location** Oak Forest, IL

**Engineering Consultant** Not Applicable

**Engineering Contractor** To be determined

**Estimated Construction Cost** \$519,300

**Contract Award Date** June 2020

**Substantial Completion Date** October 2020

**Project Description** This project will replace existing deteriorated roadway culverts, upsize and install 8-inches by 4-inches box culvert near 151st Street and Boca Rio Drive, install three sedimentation basins along Boca Rio Ditch south of 151st Street, and install stream bank stabilization improvements along Boca Rio Ditch north of 151st Street in Oak Forest.

**Project Justification** This project will reduce the risk of flooding for 28 residential structures and enhance water quality along Boca Rio Ditch.

**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** Not Applicable

**Estimated Construction Cost** \$1,000,000

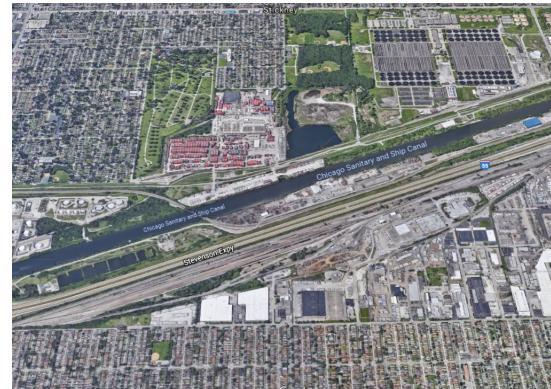
**Contract Award Date** November 2019

**Substantial Completion Date** January 2020

**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** Not Applicable

**Estimated Construction Cost** \$1,250,000

**Contract Award Date** March 2019

**Substantial Completion Date** February 2020

**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** Not Applicable

**Estimated Construction Cost** \$2,000,000

**Contract Award Date** September 2019

**Substantial Completion Date** February 2021

**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



## Storm Sewers and Outfall to Flagg Creek in Western Springs, SSA

**Project Number** 18-IGA-32

**Service Area** Stickney

**Location** Western Springs, IL

**Engineering Consultant** Not Applicable

**Engineering Contractor** To be determined

**Estimated Construction Cost** \$191,907

**Contract Award Date** March 2020

**Substantial Completion Date** November 2020

**Project Description** This project is to construct a new storm sewer outfall to Flagg Creek located in/near Spring Rock Park just north of 47th Street and east of I-294 and was identified in 2012 Sewer Overflow Long-Term Control Plan.

**Project Justification** This project will provide relief to 16 acres and 42 structures.

**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** Not Applicable

**Estimated Construction Cost** \$558,000

**Contract Award Date** October 2019

**Substantial Completion Date** August 2020

**Project Description** This project will expand the Grasslands regional detention basin in Orland Park.

**Project Justification** This project will provide upstream storage and flood protection for the Grasslands Subdivision by reducing flooding for an estimated 30 structures in the Village of Orland Park.

**Project Status** Design



## Cornell Avenue Green Infrastructure Project in Dolton, CSA

**Project Number** 19-IGA-01

**Service Area** Calumet

**Location** Dolton, IL

**Engineering Consultant** Not Applicable

**Engineering Contractor** To be determined

**Estimated Construction Cost** \$250,000

**Contract Award Date** January 2020

**Substantial Completion Date** April 2020

**Project Description** The Village of Dolton will construct infiltration trenches, bioswales, and native plantings located at 156th Street to 158th Street, bounded by Madison and Cornell Avenues in Dolton. The Village will be responsible for operations and maintenance.

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

**Project Status** Planning



## Green Infrastructure Alley Paving Improvements in Cicero, SSA

**Project Number** 19-IGA-02

**Service Area** Stickney

**Location** Cicero, IL

**Engineering Consultant** Not Applicable

**Engineering Contractor** Not Applicable

**Estimated Construction Cost** \$268,865

**Contract Award Date** September 2019

**Substantial Completion Date** May 2020

**Project Description** This project will be replacing an alley with the permeable pavement in Cicero. The town of Cicero will be responsible for the maintenance.

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

**Project Status** Planning



## Barbara Vick Outdoor Classrooms in Chicago, CSA

<b>Project Number</b>	19-IGA-03
<b>Service Area</b>	Calumet
<b>Location</b>	Chicago, IL
<b>Engineering Consultant</b>	Not Applicable
<b>Engineering Contractor</b>	Not Applicable
<b>Estimated Construction Cost</b>	\$100,000
<b>Contract Award Date</b>	March 2020
<b>Substantial Completion Date</b>	April 2020
<b>Project Description</b>	Chicago Public Childhood and Nature materials, natural in Chicago. Chi
<b>Project Justification</b>	The project will benefit the project area
<b>Project Status</b>	Planning



## Green Infrastructure in Calumet City, CSA

<b>Project Number</b>	19-IGA-05
<b>Service Area</b>	Calumet
<b>Location</b>	Calumet City, IL
<b>Engineering Consultant</b>	Not Applicable
<b>Engineering Contractor</b>	Not Applicable
<b>Estimated Construction Cost</b>	\$395,333
<b>Contract Award Date</b>	January 2020
<b>Substantial Completion Date</b>	March 2020
<b>Project Description</b>	This project will construct bioswales in the street right-of-way at Yates Avenue north of Harbor Avenue and permeable pavers in an alley located behind Harbor Avenue, bounded by Yates Avenue and Paxton Avenue. Calumet City will be responsible for operations and maintenance.
<b>Project Justification</b>	The project will reduce the current load to the storm sewer system and help alleviate flooding within the project area.
<b>Project Status</b>	Planning



## Evanston/Skokie School District 65 Green Infrastructure At Orrington Elementary School, NSA

**Project Number** 19-IGA-07

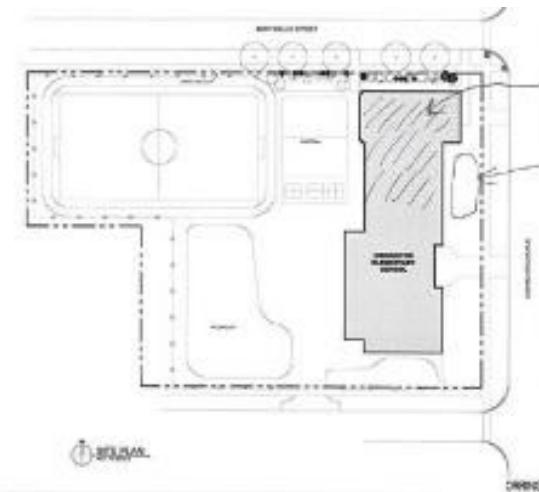
**Service Area** North

**Location** Evanston, IL

**Engineering Consultant** Not Applicable

**Engineering Contractor** Not Applicable

**Estimated Construction Cost** \$12,000



**Contract Award Date** October 2019

**Substantial Completion Date** May 2020

**Project Description** This project will install Green Infrastructure at the Orrington Elementary School. Evanston/Skokie School District 65 will be responsible for operations and maintenance.

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

**Project Status** Planning

## School District 154 Wolcott School Playground Enhancement in Thornton, CSA

**Project Number** 19-IGA-09

**Service Area** Calumet

**Location** Thornton, IL

**Engineering Consultant** Not Applicable

**Engineering Contractor** Not Applicable

**Estimated Construction Cost** \$143,500

**Contract Award Date** March 2020

**Substantial Completion Date** May 2020

**Project Description** Thornton School District 154 will remove asphalt playground surfaces and construct permeable playground surfaces and bioswales located at 200 North Wolcott Street at the intersection of Wolcott and Harrison Streets. Thornton School District 154 will be responsible for operations and maintenance.

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

**Project Status** Planning



## Public Works Facility Demonstration Rain Garden in Oak Park, SSA

**Project Number** 19-IGA-11



**Service Area** Stickney

**Location** Oak Park, IL

**Engineering Consultant** Not Applicable

**Engineering Contractor** Not Applicable

**Estimated Construction Cost** \$20,000

**Contract Award Date** April 2020

**Substantial Completion Date** June 2020

**Project Description** The District will design a demonstration rain garden for the Public Works Facility in Oak Park. The Village of Oak Park will be responsible for operations and maintenance.

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

**Project Status** Planning

## Green Streets Project in Ford Heights, CSA

<b>Project Number</b>	19-IGA-12
<b>Service Area</b>	Calumet
<b>Location</b>	Ford Heights, IL
<b>Engineering Consultant</b>	Not Applicable
<b>Engineering Contractor</b>	Not Applicable
<b>Estimated Construction Cost</b>	\$356,500
<b>Contract Award Date</b>	June 2020
<b>Substantial Completion Date</b>	August 2020
<b>Project Description</b>	The Village of Ford Heights will construct roadside bioswales located in the street right-of-way along Cottage Grove Avenue, Park Avenue, Drexel Avenue, Werline Avenue, Seeley Avenue, bounded by 10th Place and 11th Place, and also south and west of Ellis Avenue and south of 11th Street in Ford Heights. The Village will be responsible for operations and maintenance.
<b>Project Justification</b>	The project will reduce the current load to the storm sewer system and help alleviate flooding within the project area.
<b>Project Status</b>	Planning



## Washington Street Green Infrastructure Parking Lot Improvements in Lansing, CSA

**Project Number** 19-IGA-13

**Service Area** Calumet

**Location** Lansing, IL

**Engineering Consultant** Not Applicable

**Engineering Contractor** Not Applicable

**Estimated Construction Cost** \$250,000



**Contract Award Date** December 2019

**Substantial Completion Date** May 2020

**Project Description** The Village of Lansing will construct bioswales within and next to a parking lot located at 3300 Washington Street at the intersection of Roy and Washington Streets. The Village will be responsible for operations and maintenance.

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

**Project Status** Planning

## Green Alley Improvements Project in Oak Park, SSA

**Project Number** 19-IGA-14

**Service Area** Stickney

**Location** Oak Park, IL

**Engineering Consultant** Not Applicable

**Engineering Contractor** Not Applicable

**Estimated Construction Cost** \$475,000



**Contract Award Date** December 2019

**Substantial Completion Date** May 2020

**Project Description** The Village of Oak Park will construct permeable pavers in six alleys in various locations. The Village will be responsible for operations and maintenance.

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

**Project Status** Planning

## Green Alley Improvements Project in River Grove, SSA

**Project Number** 19-IGA-16

**Service Area** Stickney

**Location** River Grove, IL

**Engineering Consultant** Not Applicable

**Engineering Contractor** Not Applicable

**Estimated Construction Cost** \$385,000



**Contract Award Date** December 2019

**Substantial Completion Date** May 2020

**Project Description** The Village of River Grove will construct three permeable alleys using permeable pavers in various locations. The Village will be responsible for operations and maintenance.

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

**Project Status** Planning

## Public Library Green Parking Lot in Park Ridge, NSA

<b>Project Number</b>	19-IGA-17
<b>Service Area</b>	North
<b>Location</b>	Park Ridge, IL
<b>Engineering Consultant</b>	Not Applicable
<b>Engineering Contractor</b>	Not Applicable
<b>Estimated Construction Cost</b>	\$650,000
<b>Contract Award Date</b>	January 2020
<b>Substantial Completion Date</b>	August 2020
<b>Project Description</b>	This project will construct a permeable paver parking lot and rain gardens located at 20 South Prospect Avenue in Park Ridge. Park Ridge will be responsible for operations and maintenance.
<b>Project Justification</b>	The project will reduce the current load to the combined sewer system and help alleviate flooding within the project area.
<b>Project Status</b>	Planning



## Addison Green Alley in Chicago, SSA

**Project Number** 19-IGA-18

**Service Area** Stickney

**Location** Chicago, IL

**Engineering Consultant** Not Applicable

**Engineering Contractor** Not Applicable

**Estimated Construction Cost** \$150,000

**Contract Award Date** March 2020

**Substantial Completion Date** May 2020

**Project Description** This project will construct a green alley near 1900 West Eddy in the 47th Ward in the City of Chicago.

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

**Project Status** Planning



## South Laflin Green Alley in Chicago, SSA

**Project Number** 19-IGA-19

**Service Area** Stickney

**Location** Chicago, IL

**Engineering Consultant** Not Applicable

**Engineering Contractor** Not Applicable

**Estimated Construction Cost** \$101,500

**Contract Award Date** March 2020

**Substantial Completion Date** May 2020

**Project Description** This project will be constructing a green alley near 725 South Laflin in the 28th Ward in the City of Chicago.

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

**Project Status** Planning



## South Homan Green Alley in Chicago, SSA

**Project Number** 19-IGA-20

**Service Area** Stickney

**Location** Chicago, IL

**Engineering Consultant** Not Applicable

**Engineering Contractor** Not Applicable

**Estimated Construction Cost** \$155,000

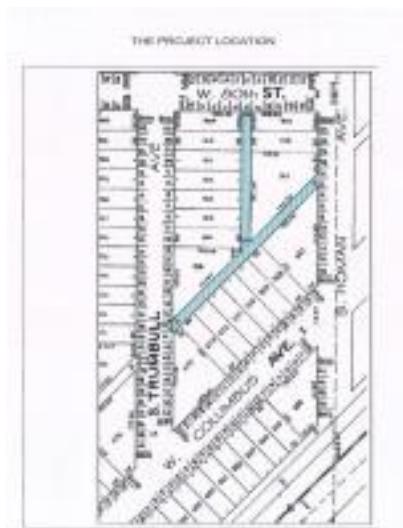
**Contract Award Date** March 2020

**Substantial Completion Date** May 2020

**Project Description** The City of Chicago will be replacing an alley with permeable pavement in the 18th Ward. The alley is bounded by West 80th Street, South Homan Avenue, West Columbus Avenue, and South Trumbull Avenue. The District will be providing reimbursement funding for up to \$155,000 through an Intergovernmental Agreement. The City of Chicago will be responsible for operations and maintenance.

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

**Project Status** Planning



## Streambank Stabilization Project along Midlothian Creek in Tinley Park, CSA

**Project Number** 19-IGA-21

**Service Area** Calumet

**Location** Tinley Park, IL

**Engineering Consultant** Michael Baker International, Inc.

**Engineering Contractor** To be determined

**Estimated Construction Cost** \$645,000

**Contract Award Date** November 2019

**Substantial Completion Date** January 2023

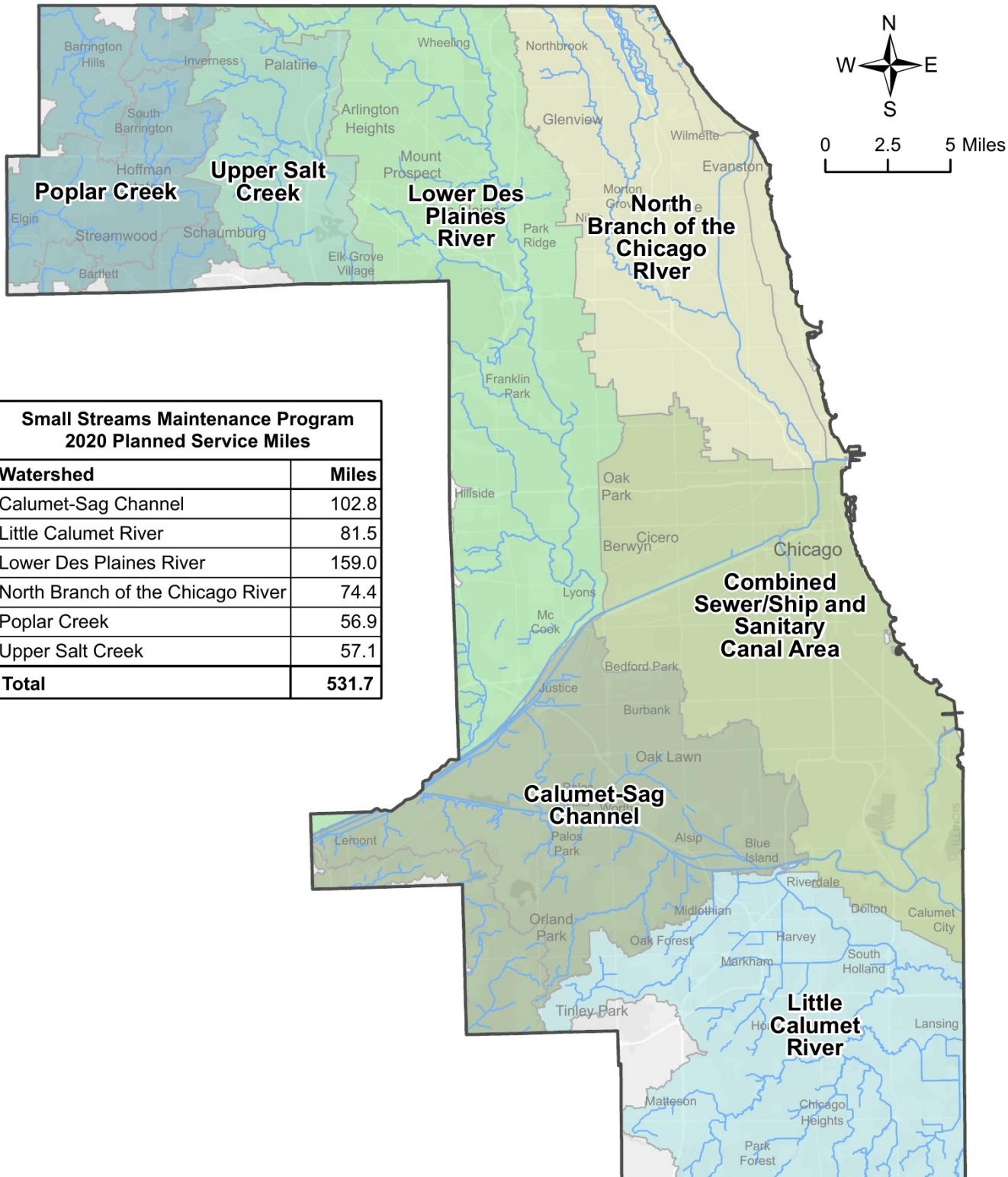
**Project Description** This project proposes to stabilize banks located along approximately 500 linear feet of Midlothian Creek in the Village of Tinley Park between 66th Court and Hickory Street. The project will use bioengineering techniques such as geolifts, live stake vegetation and gentler slopes to stabilize the bank. Rock vanes will also be used to redirect stream flow. The Village will prepare the contract documents, perform the work, and will be responsible for long-term operations and maintenance.

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

**Project Status** Design

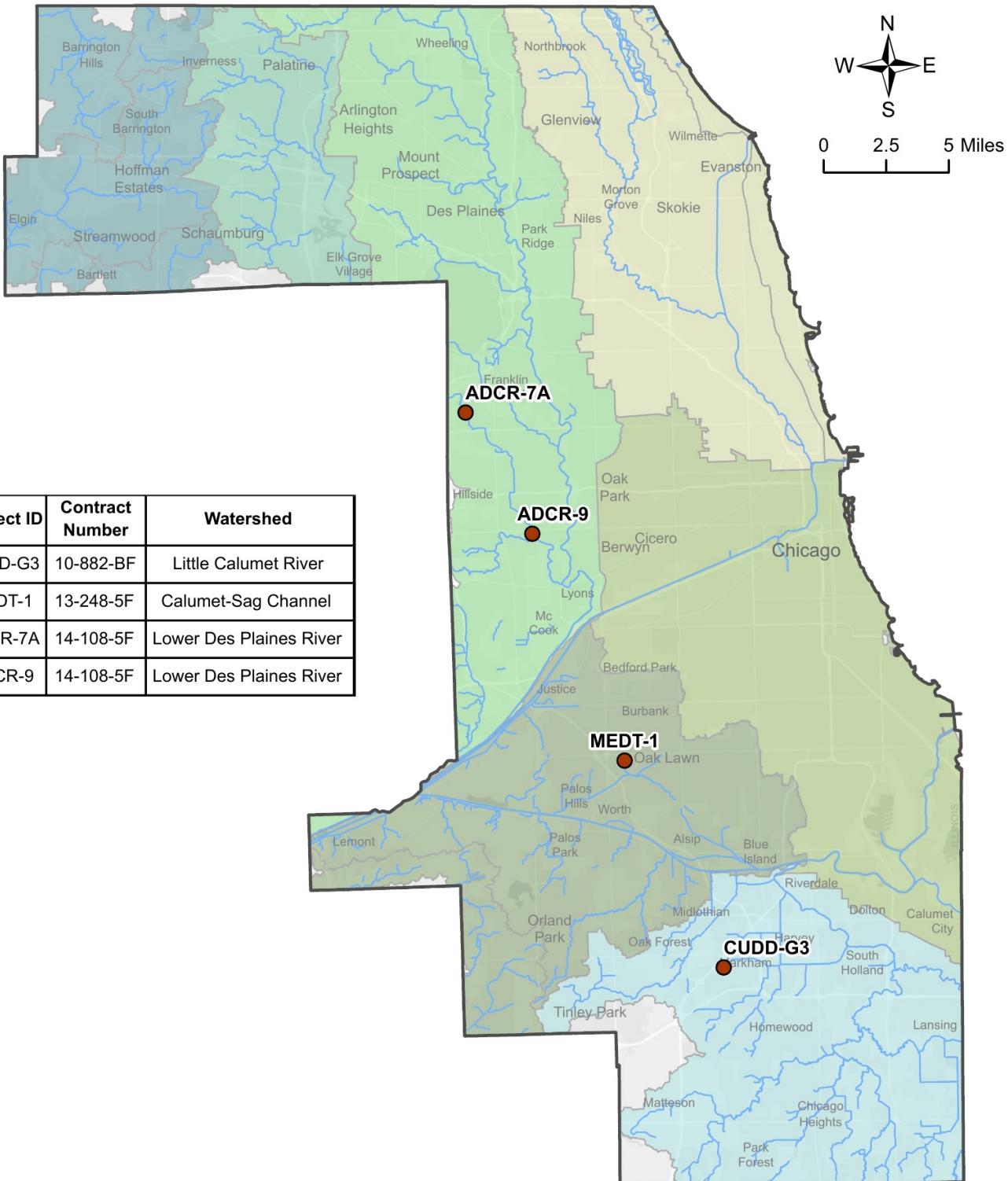


# STORMWATER MANAGEMENT WATERSHEDS



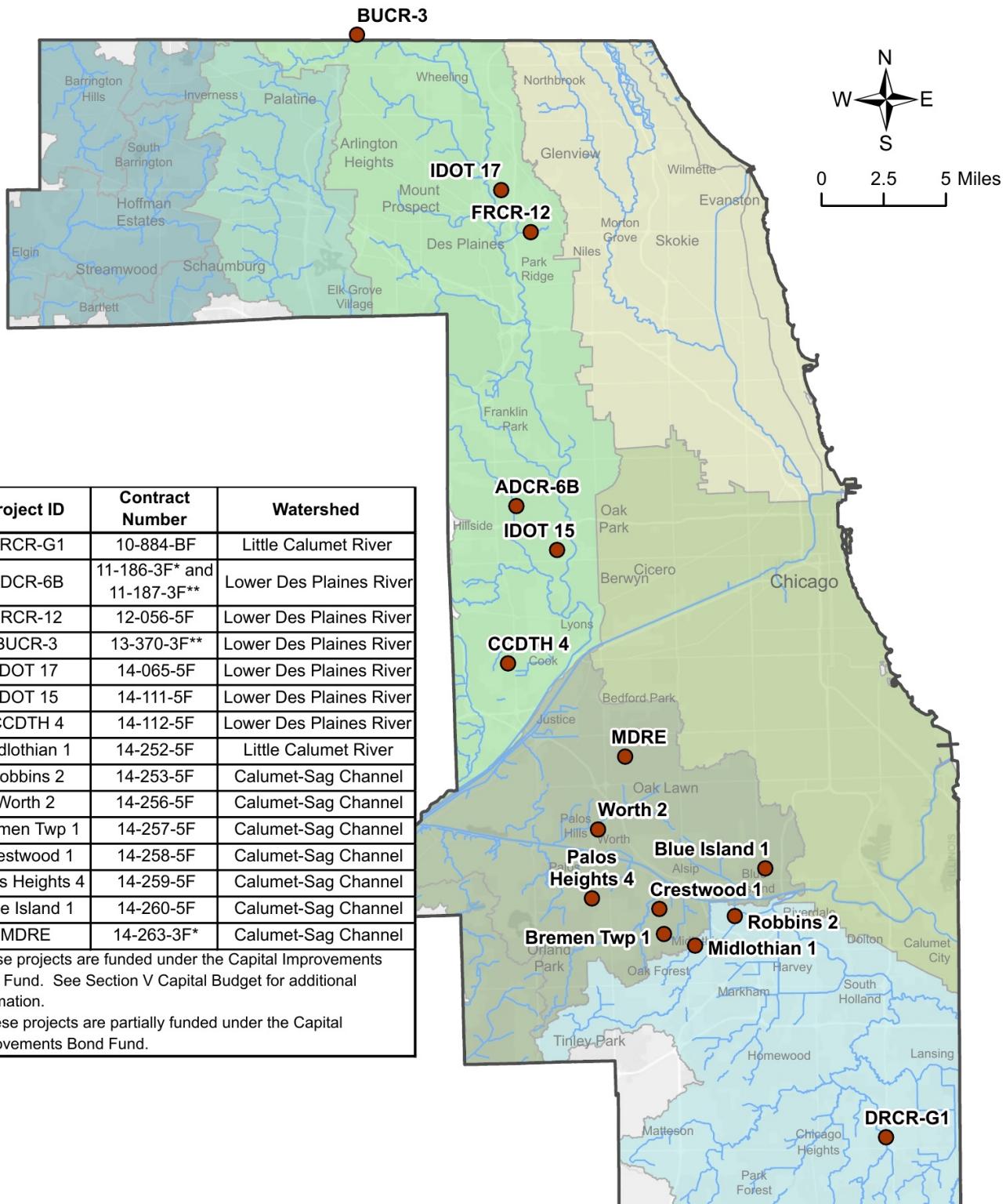
# STORMWATER MANAGEMENT PROJECTS

## STREAMBANK STABILIZATION

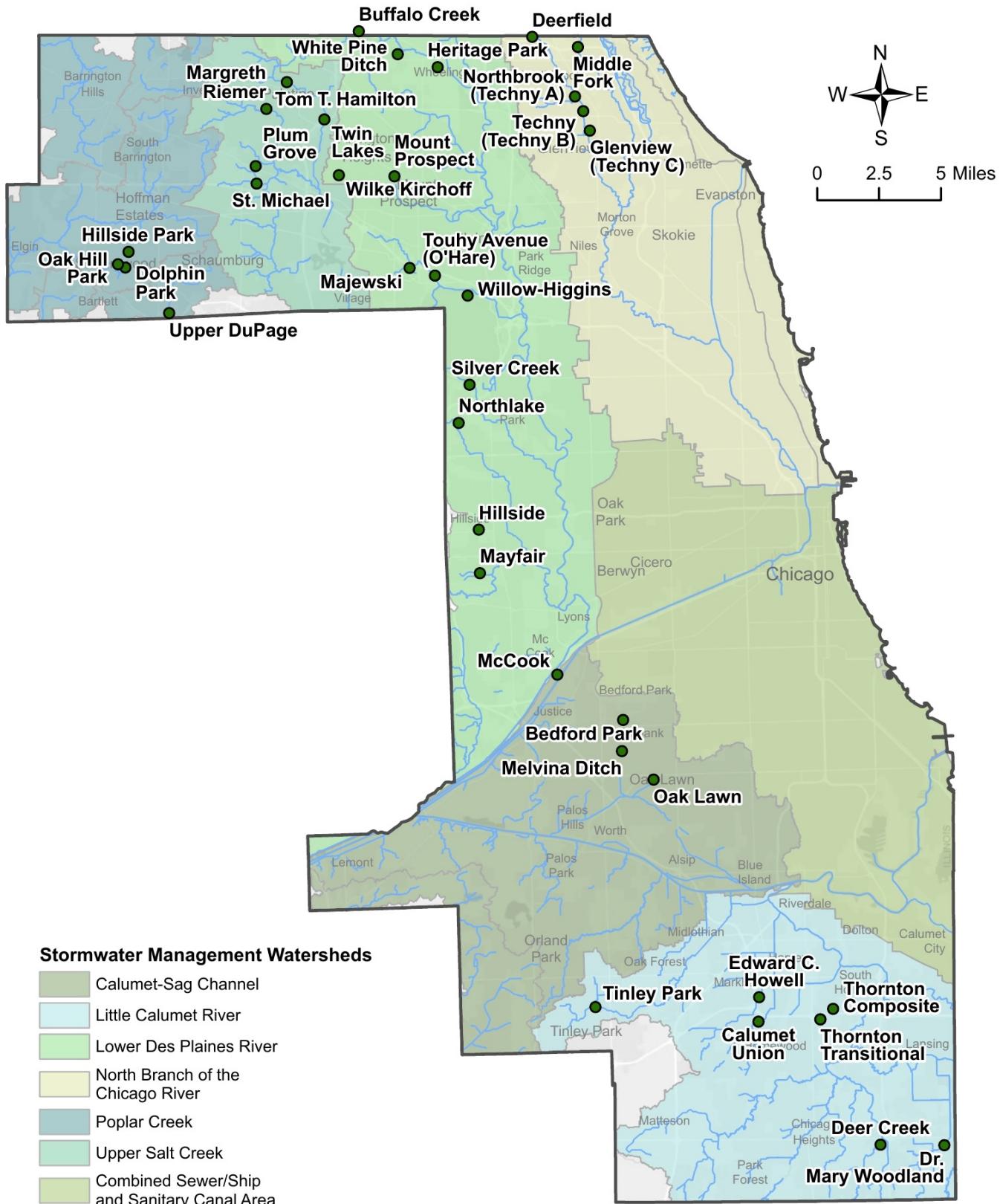


# STORMWATER MANAGEMENT PROJECTS

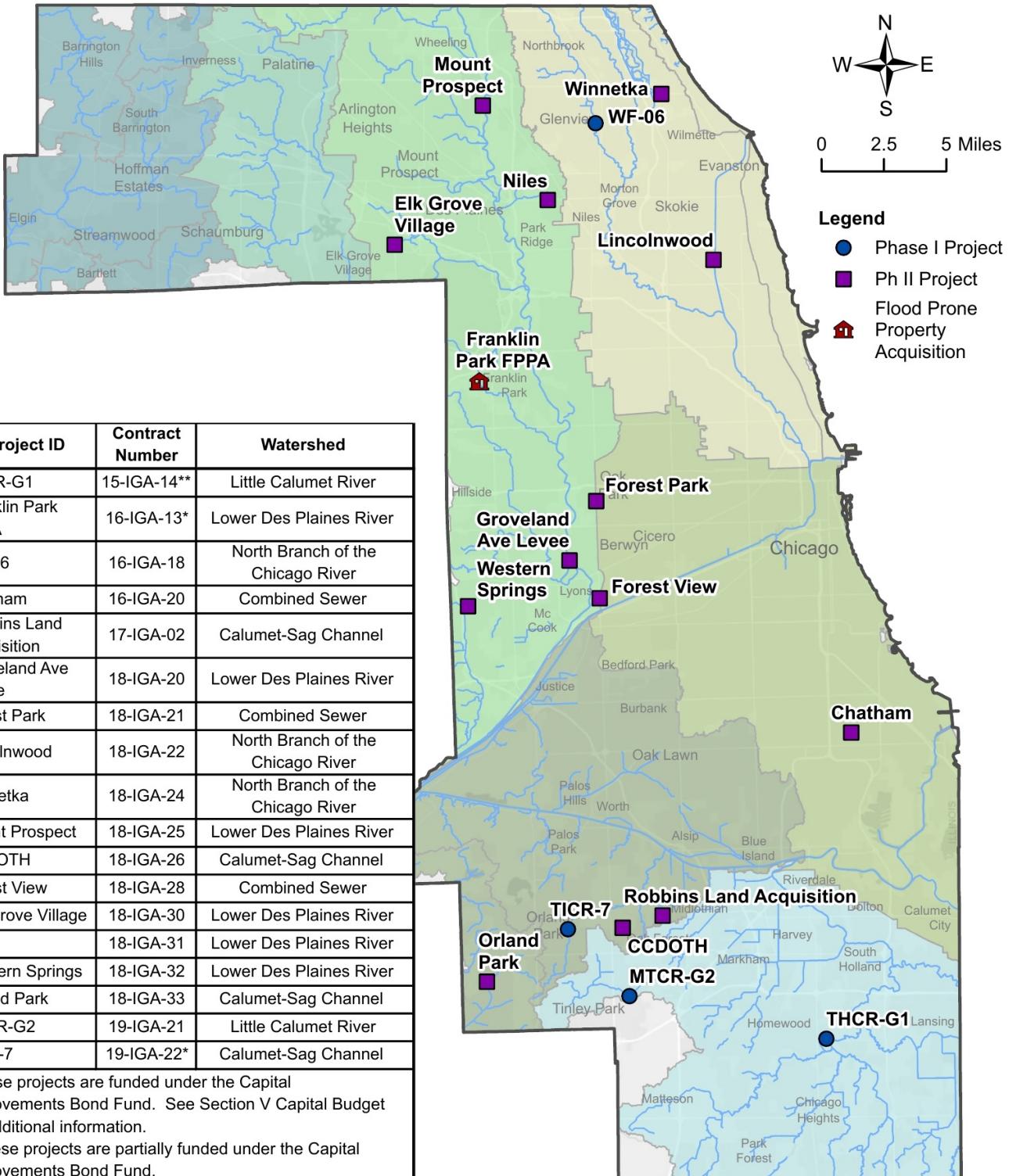
## FLOOD CONTROL



# EXISTING MWRD SUPPORTED FLOOD CONTROL RESERVOIRS

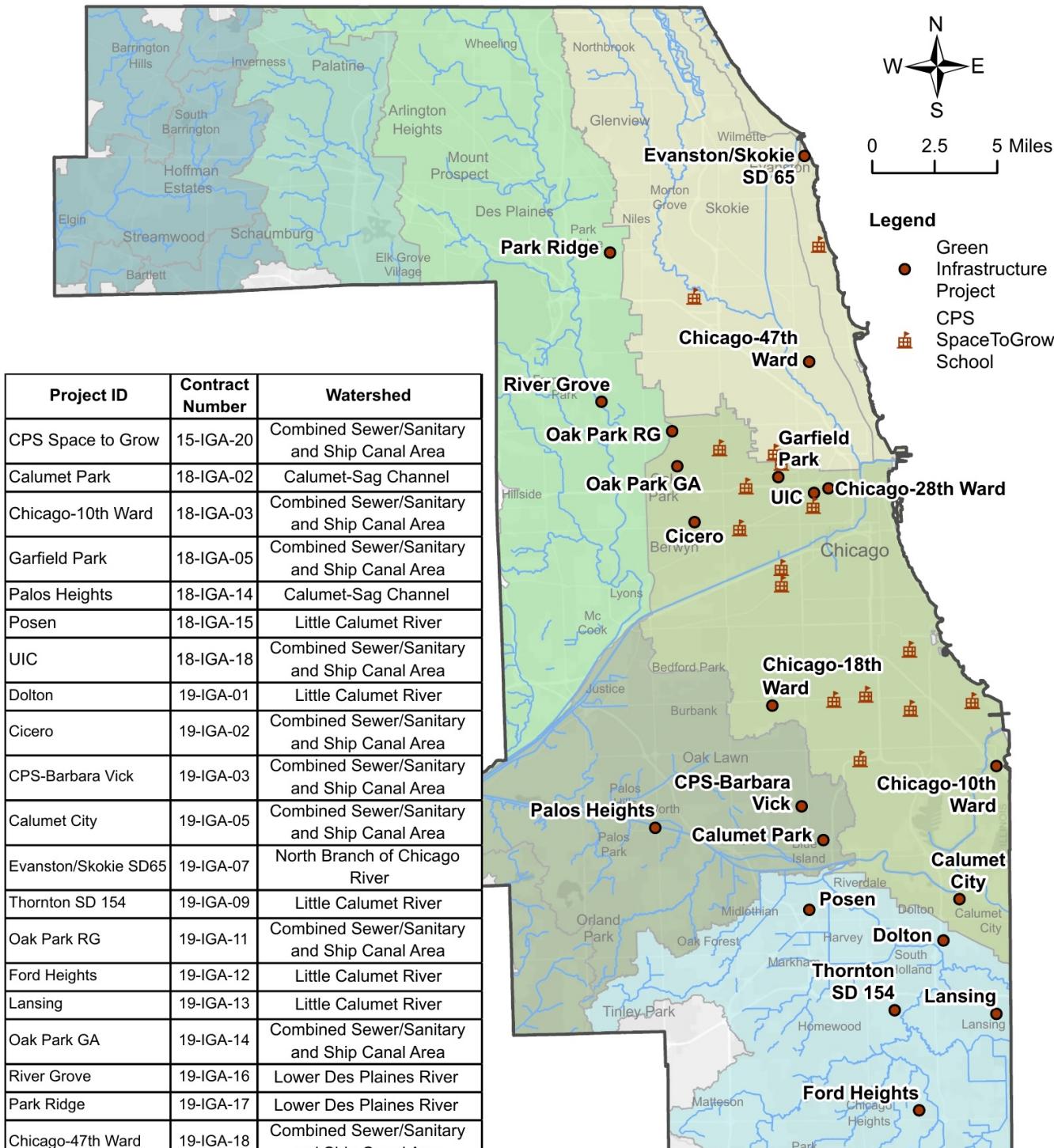


# STORMWATER MANAGEMENT PROJECTS INTERGOVERNMENTAL AGREEMENTS



# STORMWATER MANAGEMENT PROJECTS

## GREEN INFRASTRUCTURE



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

## 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.		\$ 14,777,000	12.7%	
2. Planning, design, and construction of stormwater management projects by the District or outside agencies under agreement.		\$ 96,128,700	82.7%	
3. Operation and maintenance of natural and manmade drainageways for the purpose of stormwater management.		\$ 5,352,300	4.6%	
Totals		<u>\$ 116,258,000</u>	<u>100.0%</u>	

## MEASURABLE GOALS:

	Unit of Measure	2018	2019	2020	
		Actual	Estimated	Proposed	
1. Award contracts for the continued implementation of the Stormwater Management Capital Improvement Program in the Stormwater Management and Capital Improvements Bond Funds.	No. of Contracts	20	23	29	
2. Expenditures for the acquisition of flood-prone properties in the Capital Improvements Bond Fund.	Dollars	\$949,000	\$2,204,400	\$2,102,000	
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	\$12,882,146	\$23,884,800	\$56,588,600	
4. Remove 28,000 cubic yards of debris from 532 miles of small streams and rivers.	Debris Cubic Yards Removed	29,324	28,000	28,000	
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:		2018 Number Name	Actual	Budgeted		Change			
				FTEs	Dollars	Dollars	Percent		
4310	Stormwater Management Planning	\$ 614,583	2020	1	\$ 8,393,000	\$ 3,702,000	78.9	a)	
			2019	1	\$ 4,691,000				
4320	Stormwater Management Regulation	\$ 1,102,593	2020	42	\$ 4,340,500	\$ 604,000	16.2	b)	
			2019	36	\$ 3,736,500				
4330	Operations and Maintenance	\$ 4,708,246	2020	25	\$ 5,221,100	\$ 176,900	3.5	c)	
			2019	25	\$ 5,044,200				
4340	Flood Mitigation Projects	\$ 10,280,327	2020	19	\$ 96,105,900	\$ 20,274,000	26.7	d)	
			2019	19	\$ 75,831,900				
4350	Administrative Overhead	\$ 931,557	2020	4	\$ 2,066,300	\$ 86,800	4.4		
			2019	4	\$ 1,979,500				
7604	Social Security and Medicare Contributions	\$ 81,001	2020	—	\$ 131,200	\$ 4,200	3.3		
			2019	—	\$ 127,000				
		Totals	\$ 17,718,307	2020	\$ 116,258,000	\$ 24,847,900	27.2%		
					2019	\$ 91,410,100			

a) Increase is due to the request for Stormwater Master Planning (\$3,754,900).  
b) Increase is due to the transfer in of four FTE positions from the Engineering Corporate Fund to the Stormwater Management Fund (\$330,400), the addition of one Senior Civil Engineer (\$109,000) and one Assistant Civil Engineer (\$81,600), and the revised estimate for 18-847-5F, Wetland Specialist Services for Watershed Management Permits (\$60,000).  
c) Increase is due to the reallocation of salaries to more accurately reflect current activities (\$119,100), the increased estimate for the paid overtime (\$35,000), and the revised request for 19-646-51, Small Streams Maintenance in Cook County (\$19,500).  
d) The projects proposed for each year are based on detailed watershed plans identifying flooding problems within each of the six major watersheds. The number of actual projects awarded may not, on face value, quantify performance. There are several factors that could either increase or decrease the number of projects awarded. Some of these factors are project size and complexity, project schedules, Intergovernmental Agreements lead times, and unforeseen obstacles. The numbers are provided only as a general indicator of performance.

**50000 STORMWATER MANAGEMENT FUND****PERFORMANCE DATA**

Program Number	Measurable Activity	2018		2019		2020		
		Actual	Budgeted	Estimated				
4310	Stormwater Management Planning							
4311	Watershed Councils	Cost	\$ 38,189	\$ 39,900	\$ 40,600			
4312	Mapping, Surveys, and Soil Testing	Cost	\$ 264,060	\$ 322,800	\$ 179,400	a)		
4313	Watershed Plan Development	Cost	\$ 311,027	\$ 4,282,700	\$ 8,127,100	b)		
4314	Publications and Public Information	Cost	\$ 1,307	\$ 22,500	\$ 22,800			
4315	Geographic Information System	Cost	\$ —	\$ 23,100	\$ 23,100			
4320	Stormwater Management Regulation							
4321	Permits	Cost	\$ 801,959	\$ 1,952,500	\$ 2,426,100	c)		
4322	Watershed Management Ordinance Development	Cost	\$ 233,190	\$ 104,100	\$ 106,700			
4323	Inspections	Cost	\$ 67,444	\$ 861,900	\$ 949,000			
4324	Watershed Management Ordinance Administration	Cost	\$ —	\$ 662,200	\$ 702,200			
4326	Watershed Management Ordinance Infiltration/Inflow Control Program	Cost	\$ —	\$ 155,800	\$ 156,500			
4330	Operations & Maintenance							
4331	Stormwater Detention Reservoir Activity	Cost	\$ 1,082,399	\$ 1,173,800	\$ 1,273,700			
4332	Small Streams Maintenance	Cost	\$ 2,835,979	\$ 3,109,600	\$ 3,170,800			
		Debris Cubic Yards Removed	29,324	33,000	28,000			
		Cost per Cubic Yard	\$ 96.71	\$ 94.23	\$ 113.24			
4334	Operations & Maintenance Contracted with Other Governments	Cost	\$ 165,694	\$ 165,900	\$ 168,900			
4335	Waterways Debris Removal	Cost	\$ 624,174	\$ 594,900	\$ 607,700			

- a) Decrease is due to the planned completion of 16-838-5C, Watershed Specific Release Rate Study, Phase II (\$143,400).
- b) Increase is due to the request for Stormwater Master Planning (\$3,754,900) and the revised estimate for 18-848-5F, Program Management of Stormwater Master Planning in Separate Sewer Area (\$254,500), offset by the revised estimate for 18-849-5F, Program Management of Stormwater Master Planning in the Combined Sewer Area (\$165,000).
- c) Increase is due to the transfer in of two FTE positions from the Engineering Corporate Fund to the Stormwater Management Fund (\$196,600), the addition of one Senior Civil Engineer (\$109,000) and one Assistant Civil Engineer (\$81,600), and the revised request for 18-847-5F, Wetland Specialist Services for Watershed Management Permits (\$60,000).

**50000 STORMWATER MANAGEMENT FUND****PERFORMANCE DATA**

Program Number	Measurable Activity	2018		2019		2020		
		Actual	Budgeted	Estimated				
4340	Flood Mitigation Projects							
4341	Planning/Design	Cost \$ 1,977,499	\$ 13,701,500	\$ 25,293,600	d)			
4342	Contract Administration	Cost \$ 576,860	\$ 619,700	\$ 621,900				
4343	Construction	Cost \$ 1,009,923	\$ 24,608,300	\$ 21,030,200	d)			
4344	Flood Mitigation Projects Contracted with Other Governments	Cost \$ 5,689,130	\$ 34,811,800	\$ 42,869,500	d)			
4345	Land & Easements	Cost \$ 1,026,915	\$ 2,090,600	\$ 6,290,700	d)			
4350	Administrative Overhead	Cost \$ 931,557	\$ 1,979,500	\$ 2,066,300				
7604	Social Security and Medicare Contributions	Cost \$ 81,001	\$ 127,000	\$ 131,200				
		Totals \$ 17,718,307	\$ 91,410,100	\$ 116,258,000				

d) The projects proposed for each year are based on detailed watershed plans identifying flooding problems within each of the six major watersheds. The number of actual projects awarded may not, on face value, quantify performance. There are several factors that could either increase or decrease the number of projects awarded. Some of these factors are project size and complexity, project schedules, Intergovernmental Agreements lead times, and unforeseen obstacles. The numbers are provided only as a general indicator of performance.

501 50000	Fund: Stormwater Management	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 5,618,805	\$ 8,626,500	\$ 8,626,500	\$ 5,963,977	\$ 8,442,000	\$ 9,325,700	\$ —
601060	Compensation Plan Adjustments	187,763	293,100	293,100	190,809	225,000	360,100	—
601070	Social Security and Medicare Contributions	81,001	127,000	127,000	89,023	120,800	131,200	—
601080	Salaries of Nonbudgeted Employees	—	20,000	20,000	—	—	20,000	—
601100	Tuition and Training Payments	9,703	11,000	11,000	5,395	10,000	42,600	—
601250	Health and Life Insurance Premiums	517,745	878,900	878,900	503,116	802,000	878,900	—
601270	General Salary Adjustments	—	—	—	—	—	143,300	—
100	TOTAL PERSONAL SERVICES	6,415,018	9,956,500	9,956,500	6,752,321	9,599,800	10,901,800	—
612010	Travel	1,526	2,000	3,800	2,789	3,300	4,400	—
612030	Meals and Lodging	2,606	4,000	11,000	9,759	10,000	11,900	—
612040	Postage, Freight, and Delivery Charges	1,307	2,500	2,500	2,000	1,400	2,500	—
612050	Compensation for Personally- Owned Automobiles	15,846	24,800	24,800	10,518	16,800	24,800	—
612080	Motor Vehicle Operating Services	6	800	800	55	200	3,100	—
612250	Court Reporting Services	12,934	12,000	12,000	12,000	12,000	49,000	—
612330	Rental Charges	2,036	2,500	2,500	2,500	1,500	2,500	—
612400	Intergovernmental Agreements	5,421,625	34,531,600	34,522,800	25,426,047	13,293,700	43,243,900	—
612430	Payments for Professional Services	283,650	775,000	775,000	373,774	278,000	635,000	—
612440	Preliminary Engineering Reports and Studies	1,098,908	7,605,500	7,403,500	3,895,156	2,118,000	14,828,200	—
612450	Professional Engineering Services for Construction Projects	348,581	6,534,400	6,534,400	3,989,354	2,071,000	14,209,600	—
612490	Contractual Services, N.O.C.	533,470	205,000	407,000	403,079	318,000	531,000	—
612520	Waste Material Disposal Charges	29,172	60,000	60,000	60,000	28,000	60,000	—
612620	Repairs to Waterway Facilities	2,382,830	2,500,000	2,500,000	2,500,000	2,250,000	2,519,500	—
612820	Computer Software Maintenance	145,000	145,000	145,000	140,000	140,000	—	—
612860	Repairs to Vehicle Equipment	—	—	—	—	—	2,000	—
612990	Repairs, N.O.C.	992	2,000	2,000	1,000	900	2,000	—
200	TOTAL CONTRACTUAL SERVICES	10,280,489	52,407,100	52,407,100	36,828,032	20,542,800	76,129,400	—
623130	Buildings, Grounds, Paving Materials, and Supplies	4,964	5,000	5,000	5,000	4,900	5,000	—
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	7,900	11,500	11,500	8,827	11,300	11,500	—

501 50000	Fund: Stormwater Management	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
623560	Processing Chemicals	—	5,000	5,000	5,000	4,900	5,000	—
623680	Tools and Supplies	5,118	11,000	11,000	8,301	7,800	11,500	—
623700	Wearing Apparel	1,803	8,500	8,500	8,230	7,800	8,500	—
623990	Materials and Supplies, N.O.C.	9,475	90,400	90,400	89,514	14,000	60,400	—
634860	Vehicle Equipment	—	—	—	—	—	95,000	—
634990	Machinery and Equipment, N.O.C.	—	—	30,000	—	—	30,000	—
300	TOTAL MATERIALS AND SUPPLIES	29,259	131,400	161,400	124,872	50,700	226,900	—
645620	Waterway Facilities Structures	305,408	22,725,400	16,954,600	11,318,422	4,500,000	17,056,900	—
645630	Army Corps of Engineers Services	—	2,145,500	2,145,500	1,609,773	1,800,000	—	—
645690	Capital Projects, N.O.C.	—	400,000	400,000	—	100,000	100,000	—
645720	Preservation of Waterway Facility Structures	—	2,244,200	2,244,200	1,503,300	1,383,000	6,043,000	—
500	TOTAL CAPITAL PROJECTS	305,408	27,515,100	21,744,300	14,431,495	7,783,000	23,199,900	—
656010	Land	342,433	1,000,000	4,831,600	591,902	3,800,000	2,650,000	—
600	TOTAL LAND	342,433	1,000,000	4,831,600	591,902	3,800,000	2,650,000	—
667340	Payments for Easements	345,700	400,000	2,309,200	34,033	1,400,000	3,150,000	—
700	TOTAL FIXED AND OTHER CHARGES	345,700	400,000	2,309,200	34,033	1,400,000	3,150,000	—
TOTAL STORMWATER MANAGEMENT FUND		\$ 17,718,307	\$ 91,410,100	\$ 91,410,100	\$ 58,762,655	\$ 43,176,300	\$ 116,258,000	\$ —

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.

Fund: Stormwater Management		POSITION ANALYSIS			
		2018	2019		2020
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Proposed by the Executive Director
					Budgeted FTEs
					Appropriation in Dollars
<b>50000</b>	<b>Engineering Department</b>				
516	<b>Local Sewer Systems Section</b>				
HP18	Principal Civil Engineer	1	2		2
HP17	Senior Civil Engineer	2	8		9
HP15	Associate Civil Engineer	3	8		9
HP14	Assistant Civil Engineer	2	6		8
HP14	Engineering Technician V	—	3		3
HP12	Engineering Technician IV	1	4		6
HP12	Engineering Technician IV #4	—	1		1
HP11	Administrative Specialist	—	1		1
HP11	Engineering Technician III	—	1		1
HP09	Administrative Clerk	—	2		2
TOTAL 516	Local Sewer Systems Section	9	36	3,626,755	42
					4,193,484
522	<b>Stormwater Management Section</b>				
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
HP14	Public Affairs Specialist	—	1		1
HP11	Administrative Specialist	1	1		1
TOTAL 522	Stormwater Management Section	21	22	2,570,652	22
					2,580,837
TOTAL	Engineering Department	30	58	6,197,407	64
					6,774,321
<b>60000</b>	<b>Maintenance &amp; Operations Department</b>				
630	<b>General Division</b>				
634	<b>Channel Maintenance Unit</b>				
HP18	Principal Engineer	1	1		1
HP15	Associate Civil Engineer	1	1		1
TOTAL 634	Channel Maintenance Unit	2	2	236,240	2
					268,250

Fund: Stormwater Management		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
<b>636</b>	<b>Boat Operations Unit</b>					
HP14	Engineering Technician V	1	2		2	
HP14	Engineering Technician V #4	1	—		—	
HP12	Engineering Technician IV	1	2		2	
HP12	Engineering Technician IV #4	1	—		—	
NR8650	Maintenance Laborer Class A Shift	2	2		2	
TOTAL 636	Boat Operations Unit	6	6	529,852	6	542,609
<b>639</b>	<b>Channel Maintenance Unit</b>					
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 639	Channel Maintenance Unit	4	4	394,930	4	398,715
<b>679</b>	<b>Collection System Unit</b>					
NR8331	Laborer Foreman	1	1		1	
NR8650	Maintenance Laborer Class A Shift	4	4		4	
PR6473	Truck Driver	1	1		1	
TOTAL 679	Collection System Unit	6	6	506,750	6	516,339
TOTAL 630	General Division	18	18	1,667,772	18	1,725,913
<b>940</b>	<b>Stickney Service Area General Plant Services Section</b>					
<b>924</b>	<b>Stickney Maintenance Unit</b>					
PR7773	Pipefitter	1	1		1	
TOTAL 924	Stickney Maintenance Unit	1	1	100,880	1	103,168
<b>934</b>	<b>Stickney Mechanical Operations Unit</b>					
NR8650	Maintenance Laborer Class A Shift	4	4		4	

Fund: Stormwater Management		POSITION ANALYSIS			
		2018	2019		2020
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Proposed by the Executive Director
NR6831	Operating Engineer I	4	4		4
TOTAL 934	Stickney Mechanical Operations Unit	8	8	751,712	8
TOTAL 940	Stickney Service Area General Plant Services Section	9	9	852,592	9
TOTAL	Maintenance & Operations Department	27	27	2,520,364	27
TOTAL	Stormwater Management	57	85	8,717,771	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. Dollar amounts may not add up due to rounding.					

**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 2020, are included in this section. A tax levy ordinance for the principal and interest due in 2020 and 2021 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 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 to issue short-term financing. There will be no tax levies for the Corporate, Construction, or Stormwater Working Cash Funds in 2020.

### Reserve Claim Fund:

<a href="#">Description of Fund, Purpose, and Operation</a> .....	<a href="#">521</a>
<a href="#">Line Item Analysis</a> .....	<a href="#">523</a>

### Bond Redemption & Interest Fund:

<a href="#">Description of Fund, Purpose, and Operation</a> .....	<a href="#">524</a>
<a href="#">Appropriation for Payment of Outstanding Bonds, 2020</a> .....	<a href="#">527</a>

### Retirement Fund:

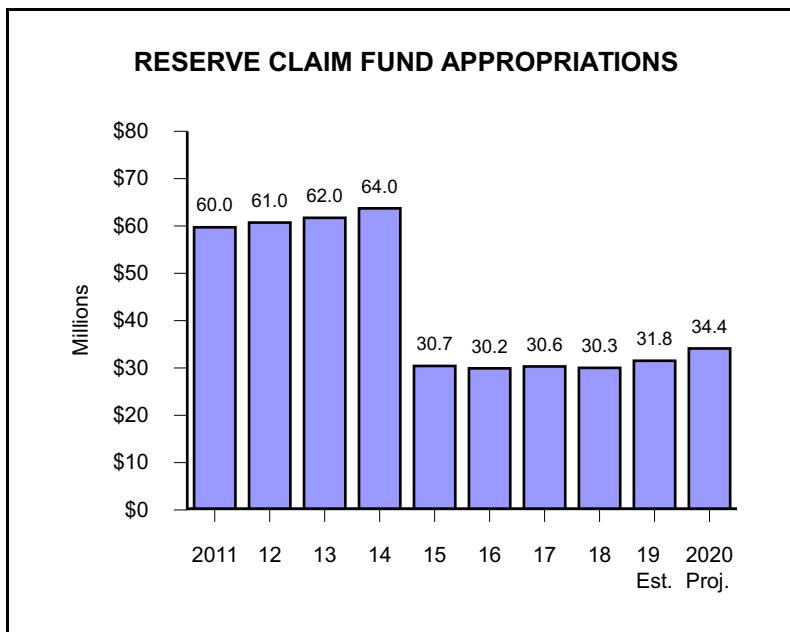
<a href="#">Description of Fund, Purpose, and Operation</a> .....	<a href="#">529</a>
<a href="#">Appropriation Ordinance</a> .....	<a href="#">532</a>

## RESERVE CLAIM FUND

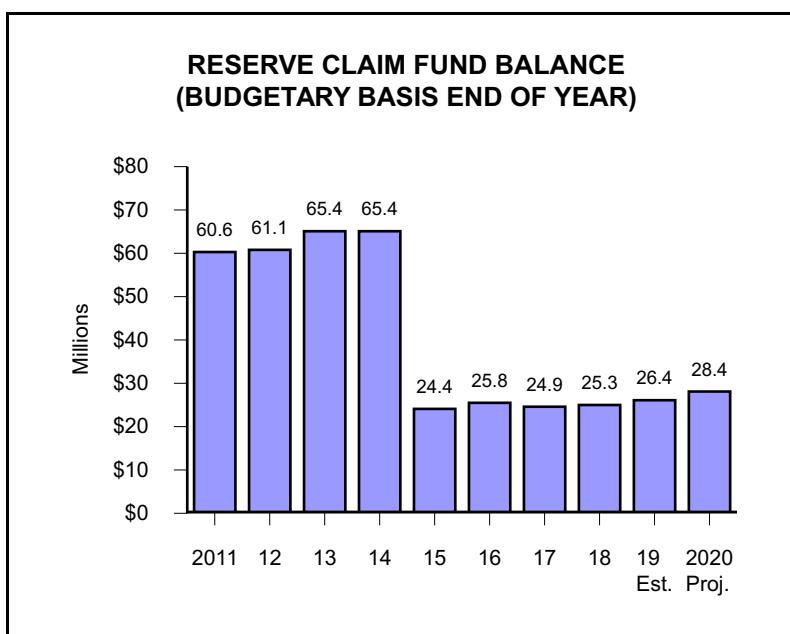
### Description of Fund, Purpose, and Operation

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 \$77.9 million. Resources are accumulated in this fund to the extent that revenue from the annual tax levy, personal property replacement tax, and investment income on the fund balance is reduced by the payment of claims.

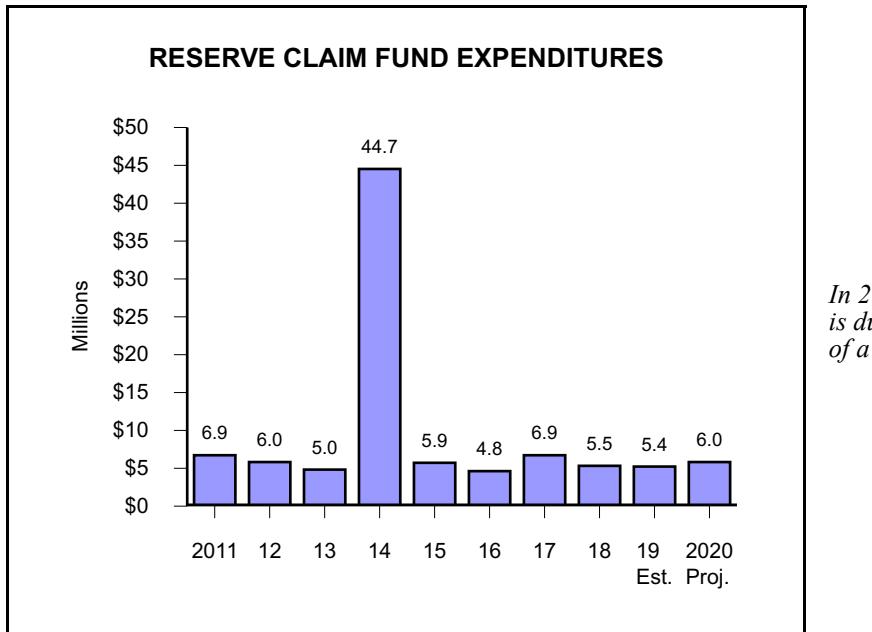


The policy, set by the Board of Commissioners, is to accumulate a reserve fund balance towards the statutory limit and to levy at the statutory tax rate limit. This policy is similar in function to insurance company reserves. The estimated 2019 year-end fund balance is \$26.4 million and the projection for 2020 is \$28.4 million.



The appropriation for the Reserve Claim Fund is not designed to be spent during any one budget year. The available fund balance plus new revenue to be received must be appropriated each year to authorize the District to fund emergencies and to settle large claims or lawsuits. Designation is also provided for accounts payable and other contingent liabilities. For 2020, accounts payable and other liabilities are estimated at \$0.3 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.



901	Fund: Reserve Claim	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601090	Employee Claims	\$ 4,213,964	\$ 10,000,000	\$ 10,000,000	\$ 2,643,795	\$ 4,400,000	\$ 10,000,000	\$ —
100	TOTAL PERSONAL SERVICES	4,213,964	10,000,000	10,000,000	2,643,795	4,400,000	10,000,000	—
667220	General Claims and Emergency Repair and Replacement Costs	1,283,102	21,767,800	21,767,800	1,455,885	1,000,000	24,395,000	—
700	TOTAL FIXED AND OTHER CHARGES	1,283,102	21,767,800	21,767,800	1,455,885	1,000,000	24,395,000	—
TOTAL RESERVE CLAIM FUND		\$ 5,497,066	\$ 31,767,800	\$ 31,767,800	\$ 4,099,680	\$ 5,400,000	\$ 34,395,000	\$ —

NOTE: Amounts may not add up due to rounding.

# BOND REDEMPTION & INTEREST FUND

## Description of Fund, Purpose, and Operation

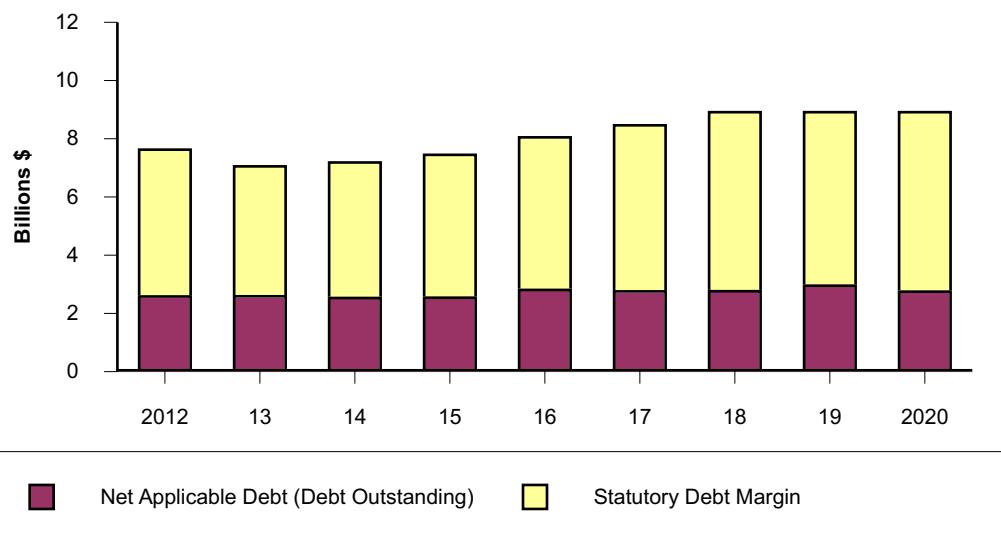
The District's Bond Redemption & Interest Fund is a debt service fund established to account for annual property tax levies and certain other revenues, principally interest on investments, which are used for the payment of interest and redemption of general obligation bond issues. Sub-funds are established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

### Debt Limits, Margins, and Borrowing Authority

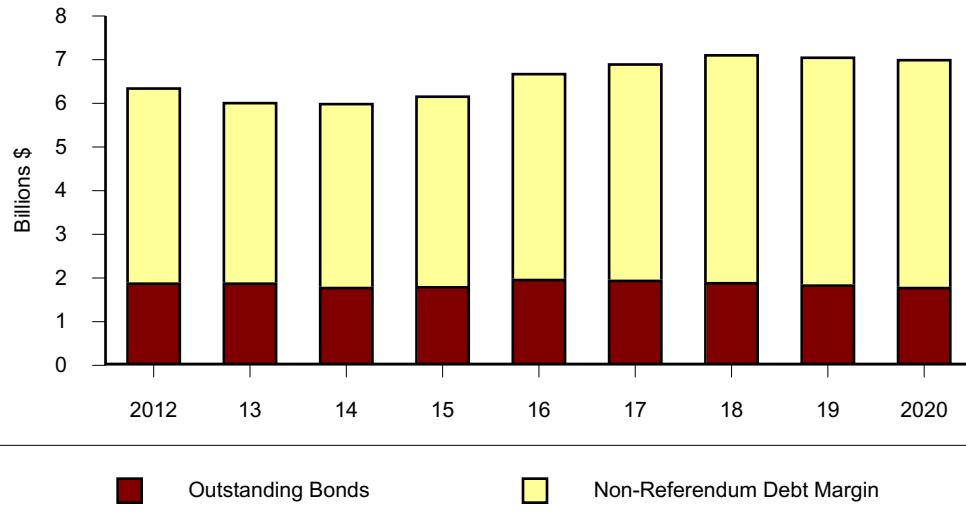
Applicable Illinois State Statutes establish the following limitations relative to the District:

- 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 (\$155.8 billion for 2018) within the District boundary. On December 31, 2019, the District's statutory debt limit is estimated at \$9.0 billion, with a net applicable debt of \$2.8 billion and an estimated statutory debt margin of \$6.2 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, 2019, it is estimated that the District's outstanding capital improvement and refunding bonds will total \$1.8 billion with a non-referendum statutory debt limit of \$5.2 billion and a non-referendum bonded debt margin of \$3.4 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 2034, as extended, effective January 1, 2020. 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. The debt service extension limitation for the District, related to the 2019 tax year, is \$169.2 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 (\$155.8 billion for 2018) 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

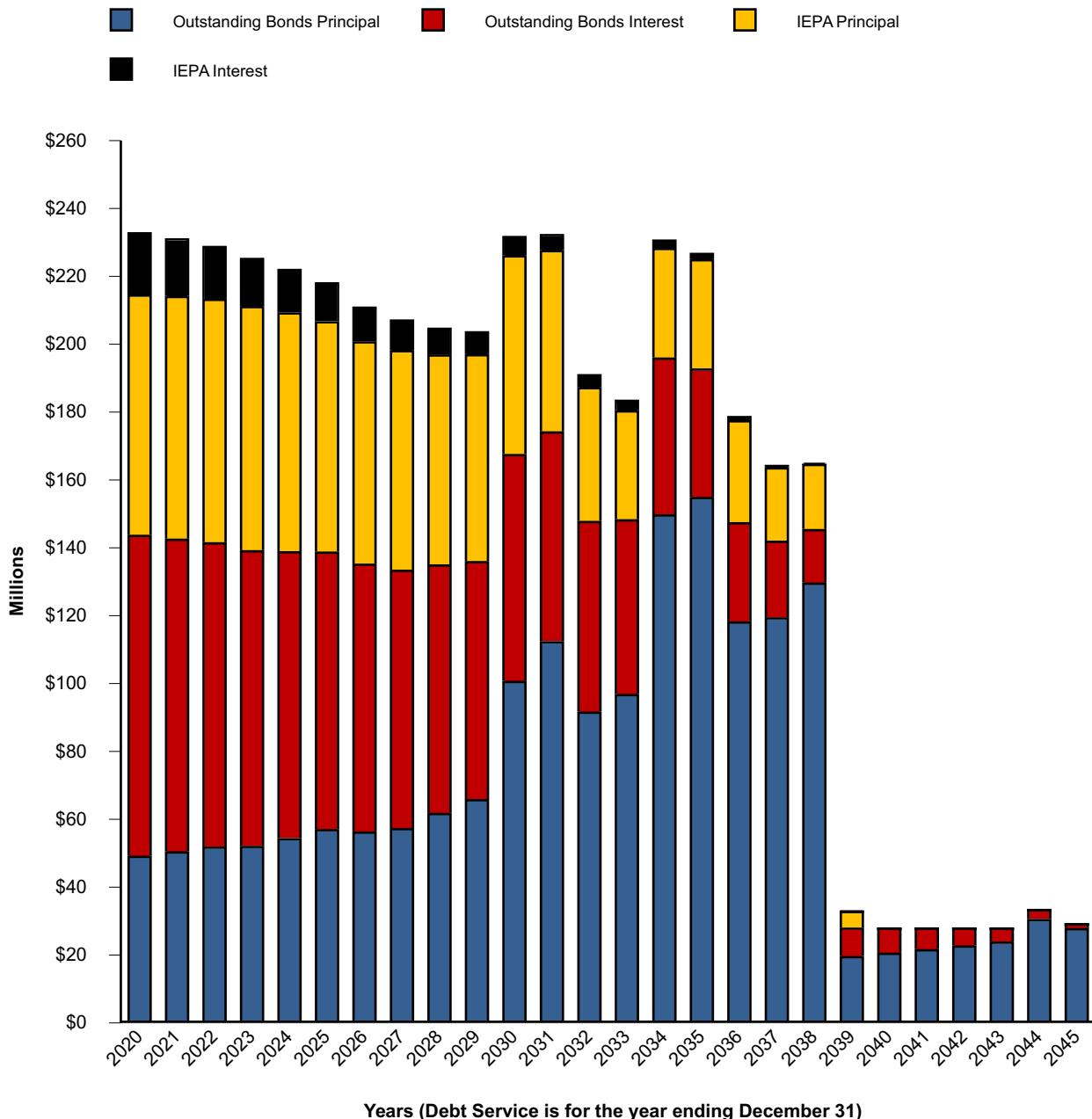
## Description of Fund, Purpose, and Operation (continued)

### 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 2020**

<b>BOND ISSUE</b>	<b>RATES OF INTEREST</b>	<b>JANUARY 1, 2020</b>			<b>JULY 1, 2020</b>			<b>TOTAL PAYABLE</b>
		<b>INTEREST PAYABLE</b>	<b>PRINCIPAL PAYABLE</b>	<b>INTEREST PAYABLE</b>	<b>PRINCIPAL PAYABLE</b>	<b>INTEREST PAYABLE</b>	<b>PRINCIPAL PAYABLE</b>	
<b>Capital Improvements Bonds - Series:</b>								
2016 Qualified Energy Conservation Limited Tax Series F	5.0	\$ 80,000 (1)	\$ —	\$ 80,000 (2)	\$ — (2)	\$ — (2)	\$ 160,000	
2009 Limited Tax Series	5.72	17,160,000 (1)	—	17,160,000 (2)	— (2)	— (2)	34,320,000	
2011 Limited Tax Series B	5.0	5,476,172 (1)	—	5,476,172 (2)	7,335,000 (2)	— (2)	18,287,344	
2011 Unlimited Tax Series C	3.0 to 5.0	1,038,966 (1)	—	1,038,966 (2)	350,000 (2)	— (2)	2,427,932	
2014 Limited Tax Series C	2.0 to 5.0	1,478,375 (1)	—	1,478,375 (2)	5,040,000 (2)	— (2)	7,996,750	
2014 Unlimited Tax Series A	5.0	2,500,000 (1)	—	2,500,000 (2)	— (2)	— (2)	5,000,000	
2014 Alternate Revenue Unlimited Tax Series B	2.0 to 5.0	1,128,675 (1)	—	1,128,675 (2)	1,015,000 (2)	— (2)	3,272,350	
2016 Alternate Revenue Unlimited Tax Series E	5.0	1,250,000 (1)	—	1,250,000 (2)	— (2)	— (2)	2,500,000	
2016 Unlimited Tax Series C	5.0	750,000 (1)	—	750,000 (2)	— (2)	— (2)	1,500,000	
2016 Limited Tax Series D	5.0	500,000 (1)	—	500,000 (2)	— (2)	— (2)	1,000,000	
<b>State Revolving Fund Bonds - Series:</b>								
14M SRF L175372	2.221	\$ 12,238	\$ 32,174	\$ 11,956	\$ 32,456	\$ 88,824		
14N SRF L175371	1.995	11,656	30,644	11,388	30,912	84,600		
14O SRF L175305	1.750	26,668	67,956	26,074	68,550	189,248		
16A SRF L174555	1.750	1,086,728	2,769,194	1,062,497	2,793,424	7,711,843		
14P SRF L175369	1.560	26,422	76,926	25,821	77,527	206,696		
16C SRF L175367	1.760	51,216	122,023	50,142	123,097	346,478		
14B SRF L175171	2.210	26,941	61,630	26,259	62,311	177,141		
14C SRF L174559	2.295	205,642	449,782	200,480	454,943	1,310,847		
14D SRF L175263	1.860	105,211	257,568	102,816	259,963	725,558		
14E SRF L173062	1.860	390,556	926,417	381,941	935,033	2,633,947		
14F SRF L175342	1.750	697,709	1,673,529	683,066	1,688,172	4,742,476		
14G SRF L175152	1.860	176,759	419,279	172,859	423,179	1,192,076		
14H SRF L175355	1.860	10,307	27,862	10,047	28,122	76,338		
14K SRF L175366	1.860	46,483	113,796	45,425	114,854	320,558		
14L SRF L175368	1.750	45,773	120,338	44,718	121,392	332,221		
09D SRF L174558	2.295	313,331	998,931	301,868	1,010,394	2,624,524		
12A SRF L174710	2.295	67,370	171,778	65,399	173,749	478,296		
12B SRF L174712	2.295	57,698	147,114	56,009	148,803	409,624		
12C SRF L174621	1.995	121,768	314,193	118,633	317,327	871,921		
12D SRF L174988	1.930	215,207	819,646	207,297	827,556	2,069,706		
12E SRF L174709	1.930	45,330	130,717	44,069	131,979	352,095		
12F SRF L174989	1.930	435,074	1,533,912	420,271	1,548,714	3,937,971		
12G SRF L174923	1.930	313,681	735,195	306,586	742,289	2,097,751		
12H SRF L174924	1.930	194,502	724,556	187,509	731,548	1,838,115		
12L SRF L175161	2.210	326,266	720,213	318,308	728,171	2,092,958		
12J SRF L175172	1.995	22,236	61,718	21,620	62,333	167,907		
12K SRF L174925	1.995	115,093	307,857	112,022	310,927	845,899		
09A SRF L173074	1.250	191,845	1,147,609	184,671	1,154,783	2,678,908		
09B SRF L173064	—	—	191,445	—	191,445	382,890		
09C SRF L173063	—	—	55,979	—	55,979	111,958		

(1) Interest Payable June 1, 2020 (2) Interest and Principal Payable December 1, 2020

**BOND REDEMPTION & INTEREST FUND****Appropriation for Payment of Outstanding Bonds During the Year 2020**

BOND ISSUE	RATES OF INTEREST	JANUARY 1, 2020			JULY 1, 2020			TOTAL PAYABLE
		INTEREST PAYABLE	PRINCIPAL PAYABLE	INTEREST PAYABLE	PRINCIPAL PAYABLE			
<b>State Revolving Fund Bonds - Series (continued):</b>								
09I SRF L174675	1.250	\$ 42,133	\$ 273,449	\$ 40,424	\$ 275,157		\$ 631,163	
07A SRF L172625	2.500	318,078	1,067,151	304,739	1,080,490		2,770,458	
07B SRF L172850	2.500	221,230	703,907	212,431	712,706		1,850,274	
07C SRF L172770	—	—	1,666,667	—	1,666,667		3,333,334	
09G SRF L173075	1.250	122,385	738,148	117,770	742,762		1,721,065	
09H SRF L173800	—	—	18,397	—	18,396		36,793	
09E SRF L173005	1.250	157,750	981,748	151,614	987,884		2,278,996	
07D SRF L172763	2.500	72,551	243,405	69,507	246,449		631,912	
09F SRF L174557	1.250	261,042	1,561,103	251,285	1,570,860		3,644,290	
04G SRF L172611	2.500	22,863	111,622	21,469	113,016		268,970	
04H SRF L172849	2.500	371,858	1,396,863	354,398	1,414,324		3,537,443	
01A SRF L172126	2.570	206,077	1,692,259	184,331	1,714,005		3,796,672	
97DD SRF L171152	2.905	56,607	462,918	49,883	469,641		1,039,049	
01B SRF L172127	2.500	246,195	1,681,380	225,178	1,702,397		3,855,150	
01C SRF L172128	2.500	253,091	1,444,054	235,040	1,462,104		3,394,289	
04A SRF L172485	2.500	142,302	647,152	134,213	655,241		1,578,908	
04B SRF L172488	2.500	166,236	756,000	156,787	765,449		1,844,472	
04C SRF L172493	2.500	14,676	71,649	13,780	72,545		172,650	
04D SRF L172494	2.500	14,074	68,710	13,215	69,569		165,568	
04E SRF L172495	2.500	49,239	209,402	46,621	212,020		517,282	
04F SRF L172496	—	—	99,368	—	99,367		198,735	
12O SRF L175166	1.995	39,799	106,454	38,736	107,516		292,505	
12I SRF L175222	2.210	48,968	108,093	47,773	109,288		314,122	
12M SRF L175168	2.210	123,940	255,387	121,118	258,209		758,654	
12N SRF L175164	1.995	24,761	63,890	24,124	64,527		177,302	
14I SRF L175223	1.860	66,866	158,608	65,390	160,083		450,947	
14J SRF L175219	2.210	38,642	88,399	37,665	89,375		254,081	
97BB SRF L171151	2.535	8,150	319,460	4,101	323,509		655,220	
14A SRF L173076	2.210	787,906	1,739,256	768,687	1,758,474		5,054,323	
97CC SRF L172031	2.535	72,683	1,118,167	58,511	1,132,339		2,381,700	
16D SRF L175460	1.750	64,792	170,347	63,302	171,836		470,277	
<b>TOTAL</b>		\$ 56,642,549	\$ 35,233,394	\$ 56,299,787	\$ 84,846,137		\$ 233,021,867	

(1) Interest Payable June 1, 2020 (2) Interest and Principal Payable December 1, 2020

# 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, survivor, and disability benefits to the employees of the Metropolitan Water Reclamation District of Greater Chicago in accordance with Chapter 40, Act 5, Articles 1, 13, and 20 of the Illinois Compiled Statutes (Statute). The primary goal of the Fund is to provide required benefits to the members while preserving the fiscal integrity and financial stability of the Fund.

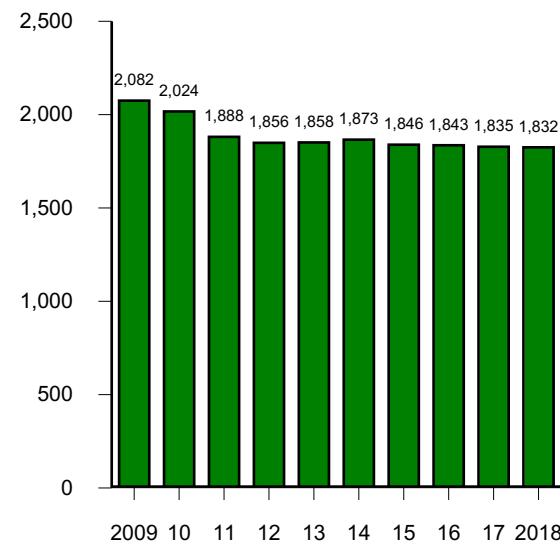
On August 3, 2012, the Governor signed Public Act 97-0894, which increased the nine percent required employee contributions one percent per year for three years beginning in 2013 to the current contribution of 12 percent for employees who first became a member of the Fund or certain reciprocal systems before January 1, 2011 (Tier I). In 2014, the District's Board of Commissioners adopted a Funding Policy that incorporated a funding goal that will achieve a 100 percent funding ratio by the year 2050. Currently, the required employer contribution is based on the actuarially determined contribution required to achieve the District's funding goal but not to exceed an amount equal to employee contributions two years prior multiplied by 4.19.

As of December 31, 2018, the Fund had 1,832 active (contributing) participants, 1,848 employee annuitants, 571 spouse annuitants, and 24 child annuitants. In addition, the Fund had 32 District employees receiving disability benefits at the end of the year.

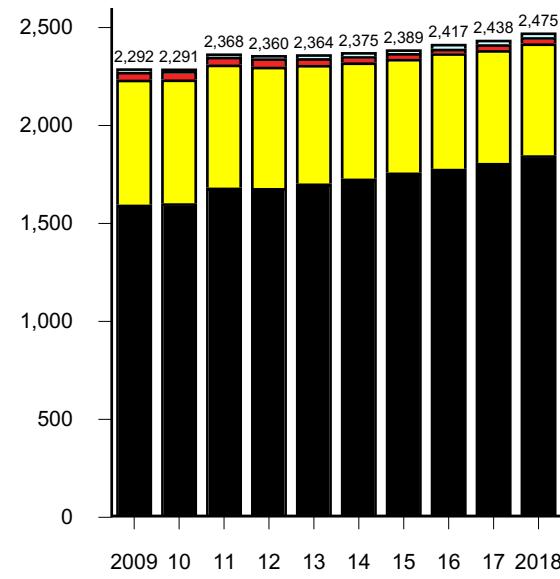
Additions to the Fund are from the following sources:

- Employee contributions - beginning in 2015, (Tier I) employees contribute 12 percent of salary to the Fund. Employees hired on or after January 1, 2011 (Tier II) contribute nine percent of salary.
- Employer contributions - include real estate property tax levies and the Personal Property Replacement Tax. In 2020, the District will levy a tax which will produce a sum that will be sufficient to meet the funding goals of the District's Funding Policy.
- Net investment income - includes dividends and interest, as well as realized and unrealized appreciation (depreciation) in the fair value of the investments, less investment expense.

### Active Participants



### Beneficiaries



■ Employee Annuitants

■ Spouse Annuitants

■ Disabilities

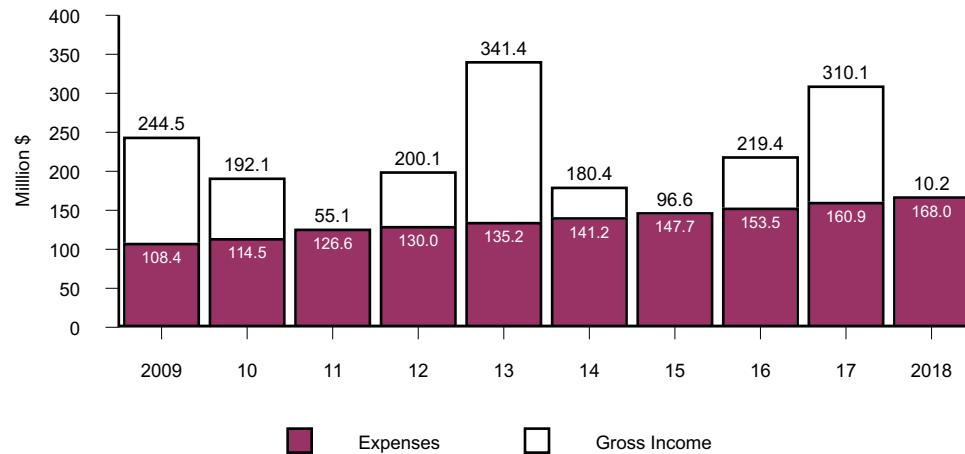
■ Children's Annuitants

## RETIREMENT FUND

### Description of Fund, Purpose, and Operation (continued)

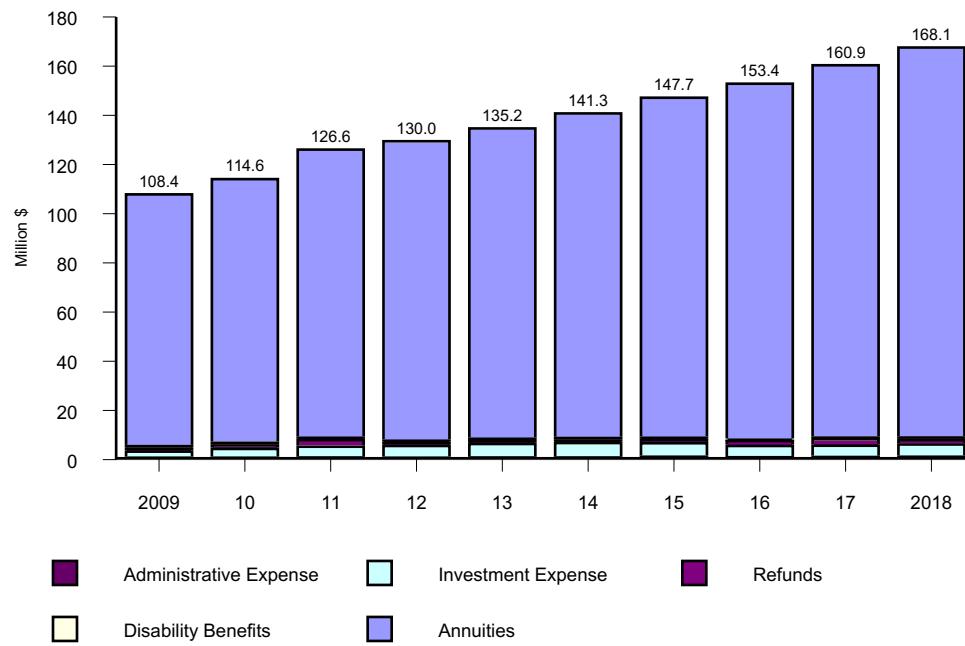
Gross income for 2018 was \$10.2 million, which is a combination of employee and employer contributions of \$108.2 million, investment income of \$(98.3) million, securities lending income of \$307,100, and other income of \$15,400; reflecting an income of \$299.9 million less than in 2017. Total investment income in 2018 was lower 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**



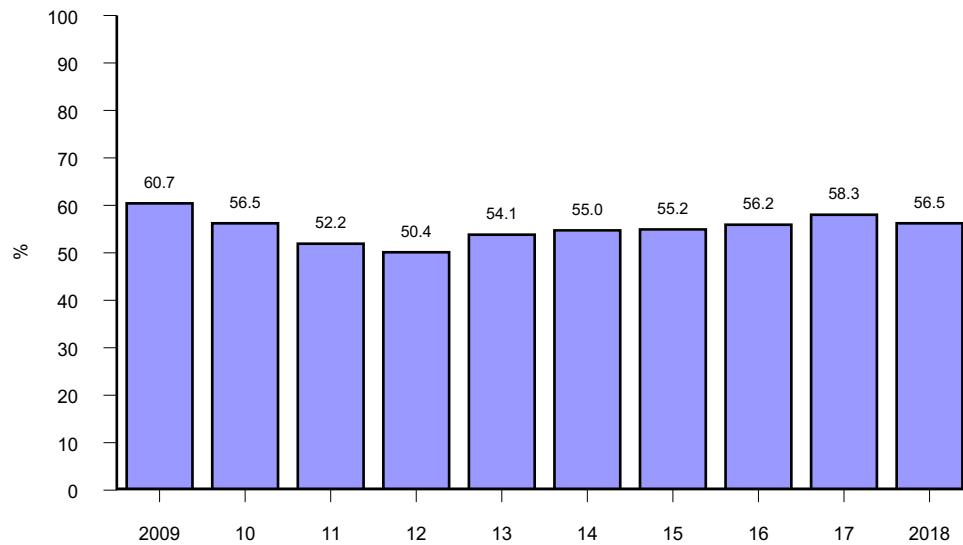
Expenses for 2018 include annuity and disability benefit payments of \$159.5 million investment management expenses of \$5.0 million, administrative expenses of \$1.7 million, and refunds of \$1.8 million for a total of \$168.0 million.

**Expenses**

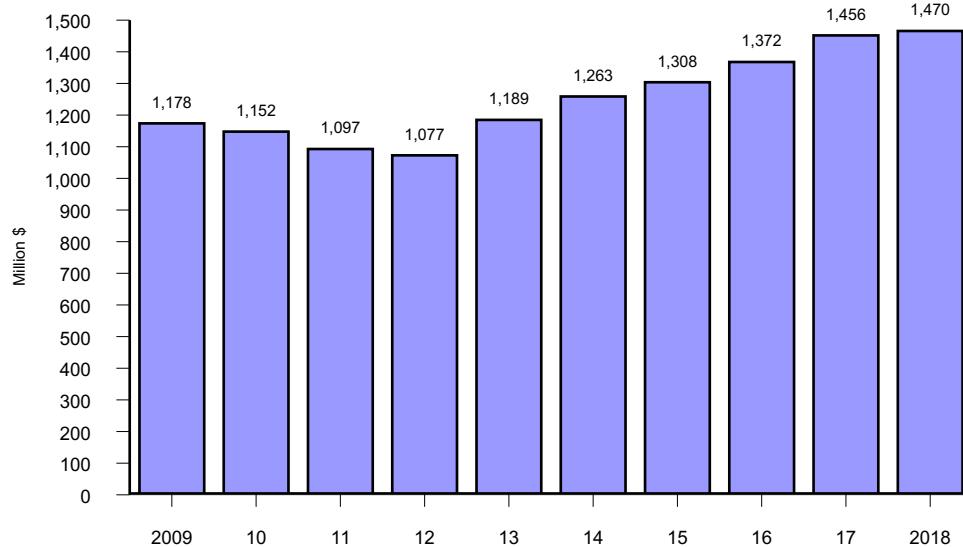


As of December 31, 2018, the funded ratio of the Fund was 56.5 percent utilizing the Actuarial Asset Value required by the Governmental Accounting Standards Board. The funded ratio has been in the range of 50.4 percent to 60.7 percent over the last ten years.

#### Funded Ratio at Actuarial Value



#### Assets at Actuarial Value



For the 2020 Budget, the gross property tax levy totals \$72.2 million, an increase of \$0.66 million, or 0.93 percent, above the 2019 adjusted levy. The 2020 Personal Property Replacement Tax allocation to the Retirement Fund is \$18.4 million. The 2020 appropriation is \$87.3 million, an increase of \$0.04 million, or 0.04 percent, above the 2019 Adjusted Budget.

**APPROPRIATION ORDINANCE NUMBER O19-008**  
**(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 \$87,319,000.

*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, 2020.

Approved as to Form and Legality:

Approved:

*Deputy General Counsel*

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

*General Counsel*

## **SECTION VIII**

## **TAX LEVY ORDINANCES**

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

Each tax levy states the revenue which is to be raised, through the collection of property taxes, to finance the operations of a specific fund. The gross tax levy, which allows for loss in collection, is presented with the amount of estimated loss, where applicable. A factor of 3.5 percent for loss in collection is used for 2020 levies.

This section includes 2020 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 2020 Tax Levy for Payment of Outstanding Bonds, can also be found in this section.

<a href="#"><u>Retirement Fund and Corporate Fund</u></a> .....	<a href="#"><u>533</u></a>
<a href="#"><u>Construction Fund</u></a> .....	<a href="#"><u>534</u></a>
Bond Redemption & Interest Fund:	
<a href="#"><u>Tax Levy Ordinance for Outstanding Bonds</u></a> .....	<a href="#"><u>535</u></a>
<a href="#"><u>Tax Levy for Payment of Outstanding Bonds, 2020</u></a> .....	<a href="#"><u>538</u></a>
<a href="#"><u>Reserve Claim Fund</u></a> .....	<a href="#"><u>540</u></a>
<a href="#"><u>Stormwater Management Fund</u></a> .....	<a href="#"><u>541</u></a>

**ORDINANCE NUMBER O19-009**

**FOR THE LEVY OF TAXES FOR THE FISCAL YEAR  
BEGINNING JANUARY 1, 2020 AND ENDING DECEMBER 31, 2020  
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, 2020  
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, 2020, for the fiscal year ending December 31, 2020, 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 \$72,227,600 which includes the sum of \$2,527,966 as a reserve for loss in collection of taxes, distributed as

Contributions for Service Retirement Allowances and Spouses' Allowances .....	\$ 13,507,668
Contributions for Ordinary Disability Benefits .....	954,899
Contributions for Duty Disability Benefits .....	217,108
Contributions for Expense of Administration .....	1,522,954
Contributions for Children's Annuities .....	117,201
Contributions for Current and Past Service Requirements .....	55,907,770
	<u><u>\$ 72,227,600</u></u>

For Corporate Purposes of the said Metropolitan Water Reclamation District of Greater Chicago, "the sum of \$266,455,300 which includes the sum of \$9,325,936 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 2020 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, 2020, 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, 2020.

Approved as to Form and Legality:

Approved:

*Deputy General Counsel*

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

*General Counsel*

**ORDINANCE NUMBER O19-010**

**FOR THE LEVY OF TAXES FOR THE FISCAL YEAR BEGINNING  
JANUARY 1, 2020 AND ENDING DECEMBER 31, 2020  
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, 2020  
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, 2020 for the fiscal year ending December 31, 2020, 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, administrative buildings, flood control facilities, or water quality improvement projects, 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 \$7,000,000 which includes the sum of \$245,000 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

2020 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, 2020, 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 2020 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 2020 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, 2020.

Approved as to Form and Legality:

*Deputy General Counsel*

*General Counsel*

Approved:

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

**ORDINANCE NUMBER O19-011**

**FOR THE LEVY OF TAXES FOR THE FISCAL YEAR BEGINNING  
JANUARY 1, 2020 AND ENDING DECEMBER 31, 2020  
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, 2020, and all taxable property in townships or parts of townships disconnected from the Metropolitan Water Reclamation District of Greater Chicago prior to January 1, 2020, but after the issuance of any bonds, the amounts of money hereinafter stated:

Capital Improvement Bonds - Series:

2016 Qualified Energy Conservation Limited Tax Series F ....	07/07/16	\$ 165,804
2009 Limited Tax Series .....	08/26/09	35,564,767
2011 Limited Tax Series B .....	07/27/11	20,865,901
2011 Unlimited Tax Series C .....	07/27/11	2,142,417
2014 Limited Tax Series C .....	01/06/15	7,434,975
2014 Unlimited Tax Series A .....	01/06/15	5,181,348
2014 Alternate Revenue Unlimited Tax Series B .....	01/06/15	3,390,570
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

State Revolving Funds Bonds - Series:

09D SRF L174558 .....		\$ 2,719,713
12A SRF L174710 .....		495,644
12B SRF L174712 .....		424,480
12C SRF L174621 .....		913,248
12D SRF L174988 .....		2,144,773
12E SRF L174709 .....		364,865
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 .....		889,061
12L SRF L175161 .....		2,557,534
12M SRF L175168 .....		873,990
12N SRF L175164 .....		186,528
12O SRF L175166 .....		303,113
14A SRF L173076 .....		5,237,640
14B SRF L175171 .....		183,566
14C SRF L174559 .....		1,358,390
14D SRF L175263 .....		828,388
14E SRF L173062 .....		2,914,926
14F SRF L175342 .....		4,930,622
14G SRF L175152 .....		1,364,037

**ORDINANCE NUMBER O19-011**

**FOR THE LEVY OF TAXES FOR THE FISCAL YEAR BEGINNING  
JANUARY 1, 2020 AND ENDING DECEMBER 31, 2020  
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 .....	256,092
14Q SRF L175539 .....	302,290
14R SRF L175517 .....	1,936,468
16A SRF L174555 .....	8,497,409
16B SRF L172129 .....	273,531
16C SRF L175367 .....	2,134,539
16D SRF L175460 .....	503,633
16G SRF L174708 .....	558,617
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
97CC SRF L172031 .....	2,468,083

**ORDINANCE NUMBER O19-011**

**FOR THE LEVY OF TAXES FOR THE FISCAL YEAR BEGINNING  
JANUARY 1, 2020 AND ENDING DECEMBER 31, 2020  
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 .....	\$ 26,727,980
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 .....	13,989,638
2016 Unlimited Tax Series A .....	07/07/16 .....	14,555,959
2016 Limited Tax Series B .....	07/07/16 .....	2,141,451
		<b><u>\$ 246,537,587</u></b>

*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 2020 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, 2020, 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, 2020 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, 2020.

Approved:

Approved as to Form and Legality:

*Deputy General Counsel*

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

*General Counsel*

## BOND REDEMPTION AND INTEREST FUND

### 2020 Tax Levy for Payment of Outstanding Bonds

BOND ISSUE	ISSUE DATED	INTEREST PAYMENT DATES	INTEREST	PRINCIPAL	RESERVE FOR UNCOLLECTED TAX (A)	GROSS LEVY
<b>Capital Improvement Bonds - Series:</b>						
2016 Qualified Energy Conservation Limited Tax Series F	07/07/16	6/1/20 - 12/1/20	\$ 160,000	\$ —	\$ 5,804	\$ 165,804
2009 Limited Tax Series	08/26/09	6/1/20 - 12/1/20	34,320,000	—	1,244,767	35,564,767
2011 Limited Tax Series B	07/27/11	6/1/20 - 12/1/20	10,585,594	9,550,000	730,307	20,865,901
2011 Unlimited Tax Series C	07/27/11	6/1/20 - 12/1/20	2,067,432	—	74,985	2,142,417
2014 Limited Tax Series C	01/06/15	6/1/20 - 12/1/20	2,704,751	4,470,000	260,224	7,434,975
2014 Unlimited Tax Series A	01/06/15	6/1/20 - 12/1/20	5,000,001	—	181,347	5,181,348
2014 Alternate Revenue Unlimited Tax Series B	01/06/15	6/1/20 - 12/1/20	2,226,900	1,045,000	118,670	3,390,570
2016 Alternate Revenue Unlimited Tax Series E	07/07/16	6/1/20 - 12/1/20	2,500,000	—	90,674	2,590,674
2016 Unlimited Tax Series C	07/07/16	6/1/20 - 12/1/20	1,500,001	—	54,404	1,554,405
2016 Limited Tax Series D	07/07/16	6/1/20 - 12/1/20	1,000,001	—	36,269	1,036,270
<b>State Revolving Funds Bonds - Series:</b>						
09D SRF L174558	07/01/13	7/1/20 - 1/1/21	\$ 545,231	\$ 2,079,292	\$ 95,190	\$ 2,719,713
12A SRF L174710	07/01/14	7/1/20 - 1/1/21	120,737	357,559	17,348	495,644
12B SRF L174712	07/01/14	7/1/20 - 1/1/21	103,402	306,221	14,857	424,480
12C SRF L174621	07/01/16	7/1/20 - 1/1/21	223,690	657,594	31,964	913,248
12D SRF L174988	07/01/15	7/1/20 - 1/1/21	374,356	1,695,350	75,067	2,144,773
12E SRF L174709	07/01/15	7/1/20 - 1/1/21	81,720	270,375	12,770	364,865
12F SRF L174989	07/01/15	7/1/20 - 1/1/21	725,542	3,310,140	146,372	4,182,054
12G SRF L174923	07/01/18	7/1/20 - 1/1/21	608,986	1,550,362	78,318	2,237,666
12H SRF L174924	07/01/15	7/1/20 - 1/1/21	339,448	1,498,666	66,667	1,904,781
12I SRF L175222	07/01/16	7/1/20 - 1/1/21	92,466	232,228	11,776	336,470
12J SRF L175172	07/01/15	7/1/20 - 1/1/21	40,106	127,800	6,090	173,996
12K SRF L174925	07/01/15	7/1/20 - 1/1/21	211,380	646,564	31,117	889,061
12L SRF L175161	07/01/16	7/1/20 - 1/1/21	702,836	1,765,184	89,514	2,557,534
12M SRF L175168	07/01/18	7/1/20 - 1/1/21	253,294	590,106	30,590	873,990
12N SRF L175164	07/01/16	7/1/20 - 1/1/21	45,688	134,312	6,528	186,528
12O SRF L175166	07/01/15	7/1/20 - 1/1/21	72,067	220,437	10,609	303,113
14A SRF L173076	07/01/16	7/1/20 - 1/1/21	1,439,357	3,614,966	183,317	5,237,640
14B SRF L175171	07/01/16	7/1/20 - 1/1/21	49,046	128,095	6,425	183,566
14C SRF L174559	07/01/16	7/1/20 - 1/1/21	374,617	936,229	47,544	1,358,390
14D SRF L175263	07/01/18	7/1/20 - 1/1/21	218,541	580,853	28,994	828,388
14E SRF L173062	07/01/18	7/1/20 - 1/1/21	769,002	2,043,902	102,022	2,914,926
14F SRF L175342	07/01/19	7/1/20 - 1/1/21	1,295,999	3,462,051	172,572	4,930,622
14G SRF L175152	07/01/18	7/1/20 - 1/1/21	359,854	956,442	47,741	1,364,037
14H SRF L175355	07/01/17	7/1/20 - 1/1/21	18,828	57,718	2,776	79,322
14I SRF L175223	07/01/18	7/1/20 - 1/1/21	213,612	567,752	28,340	809,704
14J SRF L175219	07/01/16	7/1/20 - 1/1/21	84,295	220,157	11,042	315,494
14K SRF L175366	07/01/18	7/1/20 - 1/1/21	92,018	244,570	12,208	348,796
14L SRF L175368	07/01/18	7/1/20 - 1/1/21	86,460	246,604	12,080	345,144
14M SRF L175372	07/01/18	7/1/20 - 1/1/21	23,159	66,055	3,236	92,450
14N SRF L175371	07/01/18	7/1/20 - 1/1/21	24,703	70,459	3,451	98,613
14O SRF L175305	07/01/18	7/1/20 - 1/1/21	50,950	145,320	7,119	203,389
14P SRF L175369	07/01/18	7/1/20 - 1/1/21	60,979	186,150	8,963	256,092
14Q SRF L175539	07/01/20	7/1/20 - 1/1/21	79,840	211,870	10,580	302,290
14R SRF L175517	07/01/20	7/1/20 - 1/1/21	573,160	1,295,532	67,776	1,936,468

## BOND REDEMPTION AND INTEREST FUND

### 2020 Tax Levy for Payment of Outstanding Bonds

BOND ISSUE	ISSUE DATED	INTEREST PAYMENT DATES	INTEREST	PRINCIPAL	RESERVE FOR UNCOLLECTED TAX (A)	GROSS LEVY
<b>State Revolving Funds Bonds - Series:</b>						
16A SRF L174555	07/01/18	7/1/20 - 1/1/21	\$ 2,128,646	\$ 6,071,354	\$ 297,409	\$ 8,497,409
16B SRF L172129	07/01/20	7/1/20 - 1/1/21	78,427	185,530	9,574	273,531
16C SRF L175367	07/01/19	7/1/20 - 1/1/21	563,766	1,496,064	74,709	2,134,539
16D SRF L175460	07/01/18	7/1/20 - 1/1/21	123,014	362,992	17,627	503,633
16G SRF L174708	07/01/20	7/1/20 - 1/1/21	177,000	362,065	19,552	558,617
09A SRF L173074	07/01/12	7/1/20 - 1/1/21	333,075	2,345,832	97,163	2,776,070
09B SRF L173064	06/21/11	7/1/20 - 1/1/21	—	382,890	13,887	396,777
09C SRF L173063	01/15/11	7/1/20 - 1/1/21	—	111,957	4,062	116,019
09I SRF L174675	06/21/11	7/1/20 - 1/1/21	72,206	558,956	22,892	654,054
07A SRF L172625	06/17/10	7/1/20 - 1/1/21	541,269	2,229,188	100,484	2,870,941
07B SRF L172850	07/01/10	7/1/20 - 1/1/21	379,871	1,470,402	67,109	1,917,382
07C SRF L172770	01/01/11	7/1/20 - 1/1/21	—	3,333,334	120,898	3,454,232
09G SRF L173075	07/01/13	7/1/20 - 1/1/21	212,213	1,508,851	62,424	1,783,488
09H SRF L173800	04/23/11	7/1/20 - 1/1/21	—	36,794	1,334	38,128
09E SRF L173005	08/06/11	7/1/20 - 1/1/21	272,202	2,006,793	82,659	2,361,654
07D SRF L172763	06/10/10	7/1/20 - 1/1/21	123,458	508,453	22,920	654,831
09F SRF L174557	07/01/16	7/1/20 - 1/1/21	453,235	3,191,055	132,176	3,776,466
04G SRF L172611	01/31/07	7/1/20 - 1/1/21	35,802	233,167	9,756	278,725
04H SRF L172849	07/01/09	7/1/20 - 1/1/21	619,514	2,917,930	128,301	3,665,745
01A SRF L172126	07/01/04	7/1/20 - 1/1/21	257,402	3,539,269	137,704	3,934,375
97DD SRF L171152	07/01/04	7/1/20 - 1/1/21	65,260	973,788	37,688	1,076,736
01B SRF L172127	07/01/05	7/1/20 - 1/1/21	342,888	3,512,261	139,825	3,994,974
01C SRF L172128	06/16/06	7/1/20 - 1/1/21	377,782	3,016,507	123,110	3,517,399
04A SRF L172485	05/15/08	7/1/20 - 1/1/21	227,062	1,351,845	57,267	1,636,174
04B SRF L172488	05/28/08	7/1/20 - 1/1/21	265,252	1,579,220	66,898	1,911,370
04C SRF L172493	03/27/07	7/1/20 - 1/1/21	22,981	149,669	6,262	178,912
04D SRF L172494	01/31/07	7/1/20 - 1/1/21	22,038	143,529	6,006	171,573
04E SRF L172495	05/30/08	7/1/20 - 1/1/21	79,858	437,423	18,763	536,044
04F SRF L172496	04/23/11	7/1/20 - 1/1/21	—	198,736	7,208	205,944
97CC SRF L172031	07/01/04	7/1/20 - 1/1/21	44,529	2,337,171	86,383	2,468,083
<b>Refunding Bonds - Series:</b>						
2007 Unlimited Tax Series A	03/21/07	6/1/20 - 12/1/20	\$ 2,397,501	\$ 23,395,000	\$ 935,479	\$ 26,727,980
2007 Unlimited Tax Series B	03/21/07	6/1/20 - 12/1/20	4,821,863	—	174,886	4,996,749
2007 Limited Tax Series C	03/21/07	6/1/20 - 12/1/20	5,347,650	—	193,957	5,541,607
2014 Limited Tax Series D	01/06/15	6/1/20 - 12/1/20	1,395,001	12,105,000	489,637	13,989,638
2016 Unlimited Tax Series A	07/07/16	6/1/20 - 12/1/20	14,046,500	—	509,459	14,555,959
2016 Limited Tax Series B	07/07/16	6/1/20 - 12/1/20	2,066,500	—	74,951	2,141,451
<b>TOTAL</b>			<b>\$ 110,313,814</b>	<b>\$ 127,594,940</b>	<b>\$ 8,628,833</b>	<b>\$ 246,537,587</b>

(A) Reserve at 3.5%

**ORDINANCE NUMBER O19-012**

**FOR THE LEVY OF TAXES FOR THE FISCAL YEAR BEGINNING  
JANUARY 1, 2020 AND ENDING DECEMBER 31, 2020  
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, 2020  
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, 2020, for the fiscal year ending December 31, 2020, 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 sanitary district in matters including, but not limited to, the Workers' Compensation Act or the Workers' 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 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 2020 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, 2020, 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, 2020.

Approved as to Form and Legality:

*Deputy General Counsel*

*General Counsel*

Approved:

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

**ORDINANCE NUMBER O19-013**

**FOR THE LEVY OF TAXES FOR THE FISCAL YEAR BEGINNING  
JANUARY 1, 2020 AND ENDING DECEMBER 31, 2020  
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, 2020  
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, 2020, for the fiscal year ending December 31, 2020, 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 2020, 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, 2020, 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, 2020.

Approved as to Form and Legality:

*Deputy General Counsel*

*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 46 years.

<a href="#"><u>Compensation Plan Narrative</u></a>	<a href="#"><u>543</u></a>
<a href="#"><u>Salary Schedules</u></a>	<a href="#"><u>544</u></a>
<a href="#"><u>Develop Employees</u></a>	<a href="#"><u>545</u></a>
<a href="#"><u>User Charge Rates/Property Tax Levies and Collections</u></a>	<a href="#"><u>546</u></a>
<a href="#"><u>Property Tax Base</u></a>	<a href="#"><u>547</u></a>
<a href="#"><u>Awards and Achievements Recognition</u></a>	<a href="#"><u>549</u></a>
<a href="#"><u>Leading Partnerships</u></a>	<a href="#"><u>557</u></a>
<a href="#"><u>Financial Glossary</u></a>	<a href="#"><u>563</u></a>
<a href="#"><u>Glossary of Technical Terms</u></a>	<a href="#"><u>567</u></a>
<a href="#"><u>Acronyms</u></a>	<a href="#"><u>569</u></a>

## 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	\$9,317.17
EX02	\$2,692.31	EX10	\$9,317.17	EX18	\$5,240.93
EX03	\$7,066.69	EX11	\$10,481.82	EX19	\$9,317.17
EX04	\$2,578.16 to \$4,012.97	EX12	\$10,481.82	EX20	None
EX05	\$9,317.17	EX13	\$9,317.17	EX21	\$2,884.62
EX06	\$2,578.16 to \$4,012.97	EX14	\$10,481.82	EX22	\$3,076.92
EX07	\$11,646.51	EX15	\$10,481.82	EX23	\$3,651.91
EX08	\$9,317.17	EX16	\$673.08	EX24	\$3,651.91

### Technical, Administrative, and Managerial (HP)

HP07	\$1,339.53 to \$1,950.92	HP14	\$2,772.12 to \$4,297.49	HP21	\$5,577.27 to \$8,368.42
HP08	\$1,457.88 to \$2,147.87	HP15	\$3,042.58 to \$4,634.99	HP22	\$6,156.42 to \$9,143.16
HP09	\$1,599.83 to \$2,384.32	HP16	\$3,376.63 to \$5,051.85	HP23	\$6,845.35 to \$9,957.71
HP10	\$1,789.18 to \$2,699.55	HP17	\$3,769.04 to \$5,541.53	TM01	\$1,040.00
HP11	\$2,010.14 to \$3,067.30	HP18	\$4,230.45 to \$6,117.20	TM02	\$1,400.00
HP12	\$2,278.37 to \$3,513.89	HP19	\$4,803.16 to \$6,831.82		
HP13	\$2,578.16 to \$4,012.97	HP20	\$5,086.45 to \$7,711.85		

### Labor Trades (LT)

NR1541	\$3,275.30	NR6275	\$4,902.40	PR5153	\$3,884.00	PR5975	\$4,210.40	PR7579	\$4,194.40
NR1835	\$2,939.20	NR6441	\$3,537.60	PR5155	\$4,044.00	PR5989	\$4,330.40	PR7743	\$4,040.00
NR1853	\$3,318.40	NR6810	\$3,468.80	PR5159	\$4,084.00	PR6453	\$4,088.00	PR7773	\$3,968.00
NR1857	\$3,537.60	NR6831	\$4,072.00	PR5353	\$3,750.40	PR6459	\$4,408.00	PR7775	\$4,208.00
NR2483	\$3,318.40	NR6832	\$4,218.40	PR5553	\$3,784.00	PR6473	\$3,048.00	PR7779	\$4,368.00
NR3641	\$2,377.60	NR7393	\$4,449.60	PR5555	\$4,020.80	PR6479	\$3,308.00	PR1025	\$2,152.80 to \$3,523.20
NR3642	\$2,601.60	NR7394	\$5,292.80	PR5753	\$4,080.00	PR7343	\$3,948.00	TR3509	\$2,079.09
NR5369	\$3,335.20	NR7399	\$3,605.60	PR5755	\$4,324.00	PR7347	\$4,428.00		
NR6210	\$3,650.40	NR8331	\$3,537.60	PR5759	\$4,408.00	PR7349	\$4,188.00		
NR6232	\$3,832.80	NR8650	\$3,318.40	PR5933	\$4,004.00	PR7423	\$4,272.00		
NR6233	\$4,024.80	NR8651	\$3,159.20	PR5935	\$4,284.00	PR7424	\$4,672.00		
NR6251	\$4,669.60	NR8652	\$2,203.20	PR5953	\$3,640.00	PR7425	\$4,992.00		
NR6271	\$4,700.80	NR8660	\$1,943.20	PR5955	\$3,968.00	PR7573	\$3,914.40		
NR6272	\$4,449.60	NR8661	\$2,137.80	PR5973	\$4,050.40	PR7575	\$4,114.40		

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 \$4,230.45 to \$6,117.20 bi-weekly. By multiplying those rates by 26, it can be determined that the annual salary range for such positions is \$109,991.70 to \$159,047.20. 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 2018 and 2019 graduates that utilized the tuition reimbursement program.

<b>EMPLOYEE NAME</b>	<b>COLLEGE/UNIVERSITY</b>	<b>MONTH/YEAR OF GRADUATION</b>	<b>FIELD OF STUDY</b>
Austin, Marcus	DeVry University	Sep 2018	Master of Project Management
Huang, Shao-Kuang	Roosevelt University	May 2019	Master of Science in Accounting
Ito, Tracy	DePaul University	Jun 2019	Master of Science in Human Resources
Kim, Kevin	Illinois Institute of Technology	May 2019	Juris Doctor
Lopez, Karla	DeVry University	Sep 2018	Bachelor of Science in Business Administration
Mihalache, Mircea	Northwestern University	Jun 2018	Master of Science
Miller, Patrick	University of Cincinnati	Dec 2018	Master of Science
Nielson, Gregory	Independence University	Aug 2018	Bachelor of Science in Business Administration
Pappu, Spandana	Roosevelt University	May 2019	Master of Science
Reichling, John	Indiana Wesleyan University	Feb 2019	Master of Business Administration
Rijal, Dev	University of Florida	May 2019	Master of Science with a major in Environmental Engineering Sciences
Schade, Ann	Saint Xavier University	Dec 2018	Master of Business Administration
Thomas, Paul	DeVry University	Dec 2018	Bachelor of Science in Electronics Engineering Technology
Zigulich, Michael	Illinois Institute of Technology	May 2019	Master of Engineering in Environmental Engineering

## USER CHARGE RATES

Year	Large Commercial/Industrial Users				Tax-Exempt Users				Revenues in \$ millions
	Flow per million gallons	BOD <sub>5</sub> per 1,000 pounds	SS per 1,000 pounds	OM&R Factor	Flow per million gallons	BOD <sub>5</sub> per 1,000 pounds	SS per 1,000 pounds		
<b>2020*</b>									
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		47.0
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		45.0
2013	241.73	250.76	165.25	42.4%	245.18	254.34	167.60		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	277.70	205.33		48.7
2009	229.37	231.90	174.25	50.4%	235.96	238.56	179.25		45.0
2008	223.72	229.23	178.11	49.9%	230.29	235.98	183.35		54.4
2007	224.87	228.39	173.01	50.4%	231.07	234.69	177.77		53.6

\* The 2020 numbers are pending.

BOD<sub>5</sub> Biochemical Oxygen Demand based on standard five-day test

SS Suspended Solids

OM&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 BOD<sub>5</sub> 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 OM&R factor. Users owing more than \$12,000 annually pay monthly estimates.

## PROPERTY TAX LEVIES AND COLLECTIONS

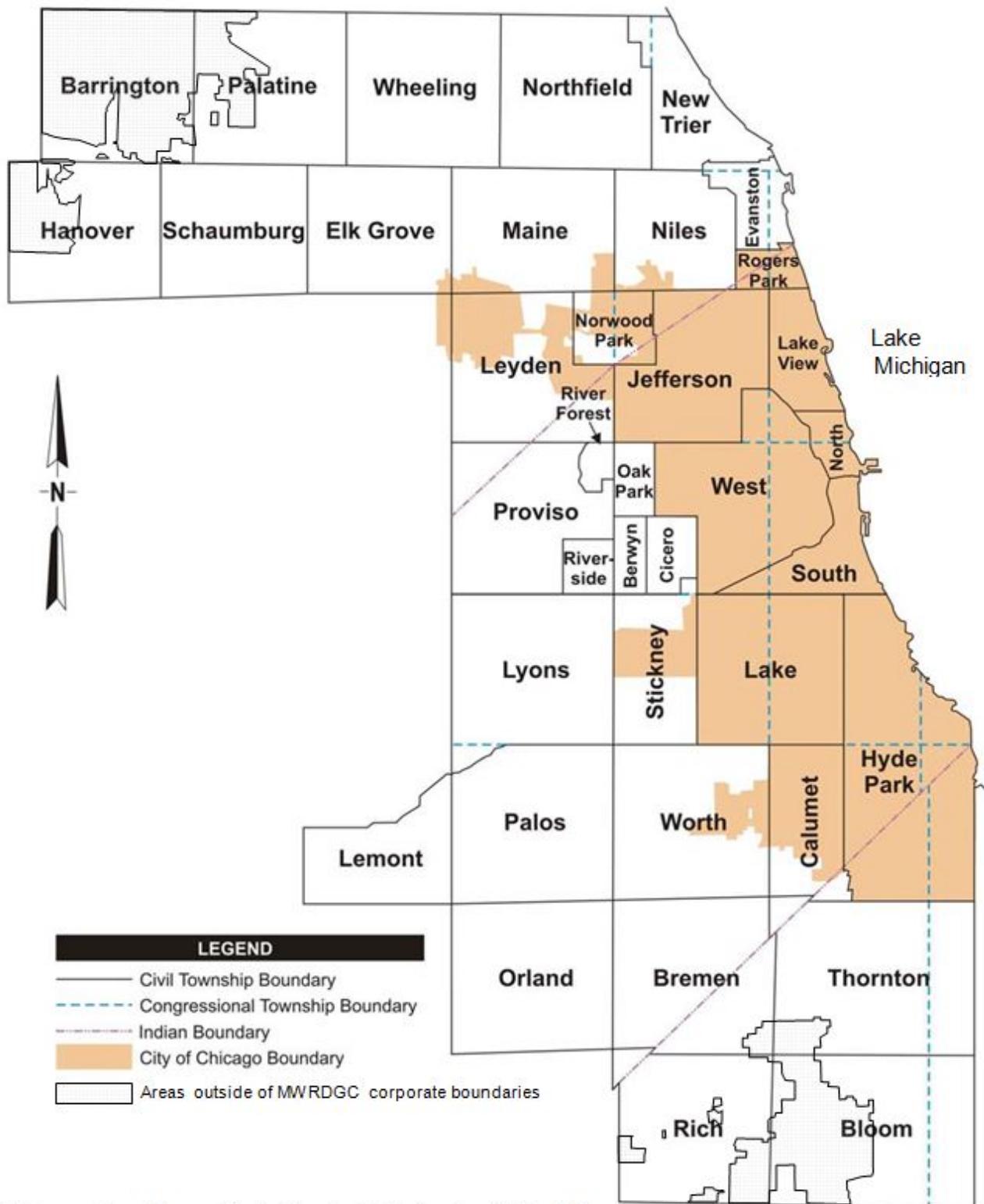
(in thousands of dollars)

Fiscal Year Ended Dec. 31	Taxes Levied for the Fiscal Year	Collected within the First Year			Final Due Date
		Amount	Percentage of Levy		
2018	\$ 616,233	\$ —	—	—	8/1/2019
2017	593,135	581,007	98.0	8/1/2018	
2016	571,454	559,938	98.0	8/1/2017	
2015	555,098	541,008	97.5	8/1/2016	
2014	540,666	523,203	96.8	8/1/2015	
2013	514,659	497,452	96.7	8/1/2014	
2012	493,573	476,881	96.6	8/1/2013	
2011	476,955	460,618	96.6	8/1/2012	
2010	457,356	435,009	95.1	10/1/2011	
2009	455,361	383,612	84.2	12/13/2010	

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, 2018.

## PROPERTY TAX BASE

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



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

# PROPERTY TAX BASE

## MWRDGC Equalized Assessed Valuation by Township 2013 - 2018 (in \$ millions)

Township	2013	2014	2015	2016	2017	2018	Average Annual Change
<b>Suburban</b>							
Barrington	\$ 325	\$ 328	\$ 326	\$ 319	\$ 328	\$ 320	-1.56 %
Berwyn	647	596	581	600	735	707	0.93 %
Bloom	474	450	440	456	490	483	-0.56 %
Bremen	1,566	1,469	1,425	1,480	1,648	1,617	-0.52 %
Calumet	176	177	176	179	199	189	0.58 %
Cicero	586	555	536	554	647	629	0.40 %
Elk Grove	3,128	3,184	3,103	3,516	3,559	3,521	-0.27 %
Evanston	2,202	2,245	2,196	2,670	2,740	2,721	1.81 %
Hanover	1,406	1,426	1,379	1,608	1,615	1,575	-0.32 %
Lemont	733	715	711	755	914	892	2.67 %
Lyden	2,331	2,332	2,409	2,753	2,794	2,727	0.75 %
Lyons	3,465	3,469	3,373	3,523	4,267	4,124	2.29 %
Maine	3,729	3,778	3,666	4,308	4,383	4,281	-0.40 %
New Trier	4,151	4,201	4,075	4,987	5,097	4,921	1.61 %
Niles	3,810	3,886	3,818	4,461	4,542	4,456	0.82 %
Northfield	4,722	4,787	4,627	5,531	5,716	5,585	1.31 %
Norwood Park	726	745	727	839	852	839	0.02 %
Oak Park	1,369	1,383	1,334	1,387	1,656	1,592	1.69 %
Orland	2,921	2,829	2,753	2,890	3,310	3,221	0.88 %
Palatine	2,597	2,628	2,557	2,977	2,987	2,913	-0.11 %
Palos	1,369	1,330	1,290	1,350	1,577	1,509	0.85 %
Proviso	2,723	2,652	2,573	2,679	3,150	3,065	1.26 %
Rich	1,044	988	962	1,007	1,098	1,073	-0.80 %
River Forest	493	488	470	486	586	565	1.48 %
Riverside	505	489	474	495	575	555	0.70 %
Schaumburg	3,949	3,999	3,892	4,497	4,549	4,449	0.27 %
Stickney	972	935	914	956	1,102	1,073	0.64 %
Thornton	1,718	1,662	1,651	1,699	1,770	1,715	-1.32 %
Wheeling	4,185	4,253	4,152	4,894	4,952	4,906	0.54 %
Worth	3,011	2,847	2,752	2,880	3,341	3,239	0.52 %
<b>City of Chicago</b>							
Hyde Park	3,576	3,648	3,890	4,077	4,143	4,280	2.30 %
Jefferson	10,529	10,741	11,311	11,735	11,960	13,439	3.43 %
Lake	6,227	6,364	6,684	6,970	6,978	7,309	2.06 %
Lake View	8,416	8,654	9,521	9,782	10,020	11,077	3.88 %
North Chicago	12,079	12,509	14,197	14,839	15,718	18,174	6.32 %
Rogers Park	1,299	1,318	1,376	1,433	1,449	1,624	2.76 %
South Chicago	12,050	13,277	14,559	15,297	16,119	18,201	6.45 %
West Chicago	8,188	8,398	9,427	9,883	10,380	12,222	6.81 %
<b>Total EAV</b>	<b>123,400</b>	<b>125,736</b>	<b>130,305</b>	<b>140,752</b>	<b>147,946</b>	<b>155,788</b>	<b>2.74%</b>

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>
	2018	<i>Engineering Excellence Merit Award for the Mayfair Reservoir Expansion</i>
American Council of Engineering Companies - Illinois Chapter		
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>
Construction Industry Service Corporation (CISCO)	2002	<i>DuPage River Clean Water Award</i>
	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>
Environmental Systems Research Institute	2019	<i>Special Achievement in Geographic Information System (SAG) Award</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	2019-1985	<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>
	2018-2007	<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 2018</i>
	2018-1975	<i>Certificate of Achievement for Excellence in Financial Reporting - Comprehensive Annual Financial Report for Fiscal Years 1975 through 2018</i>
	2017-1993	<i>Certificate of Achievement for Excellence in Financial Reporting for the MWRD Retirement Fund - Comprehensive Annual Financial Report for Fiscal Years 1993 through 2017</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	2018	<i>Legislative Award for the Watershed Management Ordinance</i>
	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>
Illinois Safety Council and Greater Chicago Safety Council	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>
	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	<i>Safety and Health Award for Outstanding Safety Performance</i>
	1996-1994	
	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	2019	<i>National Environmental Achievement Award (NEAA) in the Operations &amp; Environmental Performance Category</i>
	2018	<i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Platinum Award for 27 consecutive years of full compliance for Calumet Water Reclamation Plant; Platinum Award for 22 consecutive years of full compliance for Lemont Water Reclamation Plant; Platinum Award for 14 consecutive years of full compliance for James C. Kirie Water Reclamation Plant; Platinum Award for 13 consecutive years of full compliance for Terrence J. O'Brien Water Reclamation Plant; Platinum Award for 11 consecutive years of full compliance for Hanover Park Water Reclamation Plant; and Platinum Award for five consecutive years of full compliance 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>
	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>
	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>
		<i>Utility of the Future Today Recognition</i>

## AWARDS AND ACHIEVEMENTS RECOGNITION

National Association of Clean Water Agencies (NACWA), formerly known as Association of Metropolitan Sewerage Agencies (continued)	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>  <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>  <i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Gold Award for John E. Egan and Stickney Water Reclamation Plants</i>
	2013	<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>  <i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Silver Award for John E. Egan and Stickney Water Reclamation Plants</i>  <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&amp;R Dr. Cecil Lue-Hing and former General Superintendents Bart Lynam, Hugh McMillan, and Ben Sosewitz</i>
	2012	<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>  <i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Silver Award for John E. Egan Water Reclamation Plant</i>
	2011	<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>  <i>NACWA Award for Full Compliance with National Pollutant Discharge Elimination System, Gold Award for Hanover Park Water Reclamation Plant</i>  <i>NACWA Award for Compliance with National Pollutant Discharge Elimination System, Silver Award for John E. Egan Water Reclamation Plant</i>
	2010	<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>  <i>NACWA Award for Full Compliance with National Pollutant Discharge Elimination System, Gold Award for Hanover Park Water Reclamation Plant</i>

**AWARDS AND ACHIEVEMENTS RECOGNITION**

National Association of Clean Water Agencies (NACWA), formerly known as Association of Metropolitan Sewerage Agencies (continued)	2009	<i>NACWA Award for Full Compliance with National Pollutant Discharge Elimination System, Gold Award for Hanover Park and North Side Water Reclamation Plants</i> <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>
	2008	<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> <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> <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>

**AWARDS AND ACHIEVEMENTS RECOGNITION**

National Association of Clean Water Agencies (NACWA), formerly known as Association of Metropolitan Sewerage Agencies (continued)	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>
	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>
National Association of Flood and Stormwater Management Agencies (NAFSMA)	1993	<i>Outstanding Operations Award for Sidestream Pool Aeration Stations</i>
National Association of Government Defined Contribution Administrators	2016	<i>Green Infrastructure Award, First Place in the Large Agency Category for the Space to Grow Program</i>
National Association of State Land Reclamationists (NASLR)	2013, 2009	<i>Leadership Recognition Award of Distinction for National Save for Retirement Week Campaign</i>
National Biosolids Partnership (Water Environment Federation and National Association of Clean Water Agencies)	2017	<i>Best Innovation Award in Mining Category for the McCook Reservoir Stage 2</i>
National Institute of Governmental Purchasing	2018	<i>Ten-Year Platinum Award for the Dedication to Environmentally Sound Biosolids Management Practices</i>
National Physical Plan Alliance	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 Purchasing Institute	2019-2003	<i>Outstanding Agency Accreditation Achievement Award</i>
National Society of Professional Engineers	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>
Risk & Insurance Magazine	2006-2005	<i>Achievement of Excellence in Procurement</i>
Rotary Club of Naperville	1985	<i>Outstanding Engineering Accomplishment Award for the Tunnel and Reservoir Plan - Phase I System</i>
Storm Water Solutions Magazine	1973	<i>Outstanding Engineering Achievements in the United States for the Brookfield LaGrange Rock Tunnel</i>
Structural Engineers Association of Illinois	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>
The Consulting Engineers Council of Illinois	1985	<i>Paul Harris Award</i>
United States Department of Defense	2017	<i>Top 10 Stormwater Project for Space to Grow</i>
United States Environmental Protection Agency	2016	<i>Top 10 Stormwater Project for the Blue Island Green Infrastructure Project</i>
	1985	<i>Honor Award for the Structural-Geotechnical Design of the Tunnel and Reservoir Plan Mainstream Pumping Station</i>
	1985	<i>Engineering Excellence Honor Award for the Tunnel and Reservoir Plan Mainstream System Phase I</i>
	2003	<i>Certificate of Appreciation for Outstanding Achievement through Value Engineering</i>
	2017	<i>Honorable Mention of the Phosphorus Recovery System for Excellence and Innovation within the Clean Water State Revolving Fund Program</i>

**AWARDS AND ACHIEVEMENTS RECOGNITION**

United States Environmental Protection Agency (continued)	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>
	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>
	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>
United States Green Building Council	2015	<i>Best of Green Schools Award for Collaboration, Space to Grow Partnership</i>
	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>
Water and Wastes Digest	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>
	1992	<i>Recognition for the Solids Dewatering Prototype at the Stickney Water Reclamation Plant</i>
Water Environment Research Foundation	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
American Contract Compliance Association	Certification by Eminence Committee	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	Principal Environmental Scientist
American Society of Civil Engineers, Illinois Section	Student Contest Committee	Oladeji, Dr. Olawale	Senior Environmental Soil Scientist
Asian Carp Regional Coordinating Committee	Member, Illinois Infrastructure Report Card Wastewater Subcommittee	Goldrich, Michael	Senior Environmental Specialist
Calumet Bi-State Collaborative	Technical and Policy Workgroup Member	Minarik, Tom	Senior Aquatic Biologist
Central States Water Environment Association	Communications Committee	Fore, Allison	Public & Intergovernmental Affairs Officer
Chicago Area Waterway System and Chloride Reduction Initiative	Vice Chair, Global Water Stewardship Committee	Durkin, Maureen	Managing Civil Engineer
Chicago Region Trees Initiative	Data Acquisitions Committee and Water Quality Committee	Minarik, Tom	Senior Aquatic Biologist
City of Chicago Sister Agencies	Chair, Water Quality Committee	Wasik, Jennifer	Principal Environmental Scientist
Civil Engineer Professional Advisory Council	Work Group	Fore, Allison	Public & Intergovernmental Affairs Officer
Decalogue Society	Sister Agency Testing Committee	Coleman, Edward	Human Resources Manager
Dupage River Salt Creek Workgroup, Nutrient Trading Framework Projects Committee	Human Resources Round Table Committee	Kosowski, Thaddeus	Assistant Director of Human Resources
Emerson Process Management's Ovation Group	Sister Agency Testing Committee	Urian, Stefanie	Human Resource Analyst
Envirotropica	Sister Agency Testing Committee	Vanella, Patricia	Human Resource Analyst
Great Lakes Employment Assessment Network	Member	Podczerwinski, Edward	Director of Monitoring & Research
Global Tunnel Xchange	Member	Saindon, Pamela	Principal Attorney
Government College Relations Council	Anti-Semitism Committee	Majka, Jeff	Senior Electrical Engineer
Human Resources Round Table for the City of Chicago Sister Agencies	Executive Board Member on the Ovation User's Group	Tian, Dr. Guanglong	Principal Environmental Scientist
	Associate Editor	Fitzpatrick, Kevin	Managing Civil Engineer
	Committee Member	Coleman, Edward	Human Resources Manager
	Council Member		
	Program Officer	Urian, Stefanie	Human Resources Analyst
	Member	Kosowski, Thaddeus J.	Assistant Director of Human Resources

PROFESSIONAL ORGANIZATION	MEMBERSHIP ROLE	EMPLOYEE NAME	JOB TITLE
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	Executive Director
	Nutrients and Total Maximum Daily Loads Committee	Szyszka, Theodore	Senior Civil Engineer
	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 Loss Reduction Strategy, Policy Working Group		
	Bacteria Stakeholders Workgroup	Rijal, Dr. Geeta K.	Principal Environmental Scientist
	Nutrient Loss Reduction Strategy, Agricultural Watershed Partnership	Tian, Dr. Guanglong	Principal Environmental Scientist
	Nutrient Loss Reduction Strategy, Nutrient Monitoring Council	Vick, Justin	Aquatic Biologist
	Bacteria Stakeholders Workgroup		
Illinois Public Employer Labor Relations Association	Board of Directors, Member and Vice-Chair of Training Committee	Bonner, Roxanne J.	Human Resources Manager
	Marketing/Communications Committee	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 Association	North American Utility Subcommittee for the Task Group on Meta-Data Collection and Organization in Wastewater Treatment and Wastewater Resource Recovery Systems	Yang, Fenghua	Senior Environmental Research Scientist
Illinois Water Environment Association	Committee Chair, Sustainability Committee	Brose, Dr. Dominic	Senior Environmental Research Scientist
	Member, Biosolids Committee		
	Committee Chair, Social Media	Cooney, Dylan	Senior Civil Engineer
	Biosolids and Resources Recovery Committee	Cox, Dr. Albert	Environmental Monitoring & Research Manager
	Leaders Innovation Forum for Technology Committee	Cummings, Joseph	Managing Engineer
	Chairman, Safety and Security Committee	Delathouwer, Tim	Safety Coordinator
	Vice Chair of the Electrical Power, Energy, and Controls Committee	Gottardo, Glenn	Managing Electrical Engineer
	Operator Training Committee	Kohlhaas, Lynn	Principal Civil Engineer
	Plant Operations Committee		
	Removal and Recovery Committee	Kozak, Dr. Joseph A.	Principal Environment Scientist
	Nutrient Removal Committee		
	Chair, Biosolids and Resources Recovery Committee	Kumar, Dr. Kuldip	Senior Environmental Research Scientist
	Chairperson of the Students and Young Professionals Committee	Matias, Meagan	Senior Civil Engineer

PROFESSIONAL ORGANIZATION	MEMBERSHIP ROLE	EMPLOYEE NAME	JOB TITLE
Illinois Water Environment Association (continued)	Plant Operations Committee	Matual, Sandra	Treatment Plant Operator III
	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
	Sustainability Committee	Qin, Dongqi	Senior Environmental Research Scientist
	Scholarship and Charitable Giving Committee	Rijal, Dr. Geeta K.	Principal Environmental Scientist
	Water Environment Federation Delegate	Rose, Rebecca	Supervising Environmental Chemist
	Committee Chair, Leaders Innovation Forum for Technology	Schipma, Jane	Treatment Plant Operator III
	Nutrient Renewal and Recovery Committee		
	Operator Training Committee		
	Vice-Chair, Industrial Pretreatment Committee	Scapardine, Barbara	Environmental Specialist
	Vice-Chair, Sustainability Committee		
	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
	President Elect	Wu, Fred	Senior Civil Engineer
	Chairman of the Membership Committee		
	Collection Facilities Committee Member		
	Scholarship and Charitable Giving Committee		
	Students and Young Professionals Committee		
	Operator Training Committee	Zigulich, Michael	Associate Civil Engineer
	Plant Operations 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.	Deputy General Council
	Founding and Organizing Member	Saindon, Pamela	Principal Attorney
	Member at Large, Executive Committee	Wasik, Jennifer	Principal Environmental Scientist
Industrial Water, Waste, and Sewage Group			
Institute of Electrical and Electronics Engineers, Power & Energy Society-Chicago			
Inter-Governmental Panel on Climate Change			
International Journal of Environmental Science and Technology			
Local Governmental Law Consortium			
Lower Des Plaines Watershed Group			

PROFESSIONAL ORGANIZATION	MEMBERSHIP ROLE	EMPLOYEE NAME	JOB TITLE
Midwest Water Analysts Association	Secretary	Miller, Sarah	Senior Environmental Chemist
	Steering Committee	Poshyvanyk, Paul	Environmental Chemist
	Steering Committee	Rose, Rebecca	Supervising Environmental Chemist
	President	Stefanich, Tricia	Supervising Environmental Chemist
Molecular Diversity Preservation International and Multidisciplinary Digital Publishing Institute	Peer Reviewer for the Water Journal, the Fluids Journal, Geoscientific Model Development, and Resources	Oskouie, Dr. Ali	Senior Environmental Research Scientist
The National Association of Clean Water Agencies	Utility and Resource Management Committee	Carmody, Steve	Engineer of Treatment Plant Operations I
	Communications and Public Affairs Committee	Fore, Allison	Public & Intergovernmental Affairs Officer
	Climate and Resiliency Committee	Grabowy, Jonathan	Managing Civil Engineer
	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	Aquatic Biologist
	Emerging Contaminants Committee	Wasik, Jennifer	Principal Environmental Scientist
	Water Quality Committee	Yarnik, Greg	Supervising Environmental Specialist
	Pretreatment Program Committee	Grunwald, Pawel	Supervising Environmental Chemist
The National Environmental Laboratory Accreditation Conference	Contributing Member		
National Public Employee Labor Relations Association	Member, Board of Directors	Bonner, Roxanne J.	Human Resources Manager
The National Science Foundation	Industrial Advisory Board of Water Equipment and Policy Committee	Zhang, Dr. Heng	Assistant Director of Monitoring & Research
North Branch Watershed Group	MWRD Representative	Vick, Justin	Aquatic Biologist
Partnership for River Restoration in the Upper Midwest	Technical Committee	Vick, Justin	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	Member, Intelligent Water Systems Focus Group	Chavich, John	Assistant Director of Monitoring & Research
	Residuals and Biosolids Committee	Cox, Dr. Albert	Environmental Monitoring & Research Manager
	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

PROFESSIONAL ORGANIZATION	MEMBERSHIP ROLE	EMPLOYEE NAME	JOB TITLE
Water Environment Federation (continued)	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
	Member, Resource Recovery Facilities Task Group	Stefanich, Tricia	Supervising Environmental Chemist
	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
Water Environment & Reuse Foundation Leaders Innovation Forum for Technology	Design and Implementation of Peracetic Acid for Municipal Water and Wastewater Related Processes Subcommittee	Patel, Kamlesh	Senior Environmental Research Scientist
	Vice Chairman of the Workgroup on Shortcut Nitrogen Removal	Zhang, Dr. Heng	Assistant Director of Monitoring & Research
	Workgroup on Digestion Enhancements Committee		
	Workgroup on Energy from Wastewater Committee		
Water Research Foundation (formerly Water Environment & Reuse Foundation)	Project Advisory Committee, Occurrence of PFAS Compounds in U.S. Wastewater Treatment Plants	Cox, Dr. Albert	Environmental Monitoring & Research Manager
	Leaders Innovation Forum for Technology Committee	Fitzpatrick, Kevin	Managing Civil Engineer
	Trace Organics in Biosolids Research Challenge Committee	Kumar, Dr. Kuldip	Principal Environmental Scientist
	Steering Committee, Leaders Innovation Forum for Technology	Kunetz, Thomas	Assistant Director of Monitoring & Research
	Member, LIFT - Link New Technology Review Committee	Oskouie, Dr. Ali	Senior Environmental Research Scientist
	Member, Odors and Air Pollutants Review Committee		
	Design and Implementation of Peracetic Acid for Municipal Water and Wastewater Related Processes Subcommittee	Patel, Kamlesh	Senior Environmental Research Scientist
	Project Advisory Committee, Unlocking the Potential of Mixed-Microbial Fermentation for Enhancing Carbonaceous Resource Recovery from Organic Wastes		
	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	Rijal, Dr. Geeta K.	Principal Environmental Scientist
	Leaders Innovation Forum for Technology Committee	Storino, Louis	Principal Civil Engineer

PROFESSIONAL ORGANIZATION	MEMBERSHIP ROLE	EMPLOYEE NAME	JOB TITLE
Water Research Foundation (formerly Water Environment & Reuse Foundation) (continued)	Understanding the Impacts of Low-Energy and Low-Carbon Nitrogen Removal Technologies of Bio-P and Nutrient Recovery Processes Project Committee  Issue Area Team on the Nutrient Challenge Program Committee	Yang, Fenghua  Zhang, Dr. Heng	Senior Environmental Research Scientist  Assistant Director of Monitoring & Research
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 electrical energy 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 (CO<sub>2</sub>) 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.

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

**ACRONYMS (continued)**

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



## 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** Egan Treatment Plant placed into operation.

**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.

**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.

**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.

**2000** District celebrated the 100th anniversary of the reversal of the Chicago River and completed a century of protecting Chicago's water environment; ASCE names Chicago Wastewater System one of only 10 worldwide civil engineering Monuments of the Millennium.

**2003** Thornton Transitional Reservoir placed into operation.

**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.

**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.

**2015** Disinfection facility at the Calumet Water Reclamation Plant placed into operation. Thornton Composite Reservoir placed into operation.

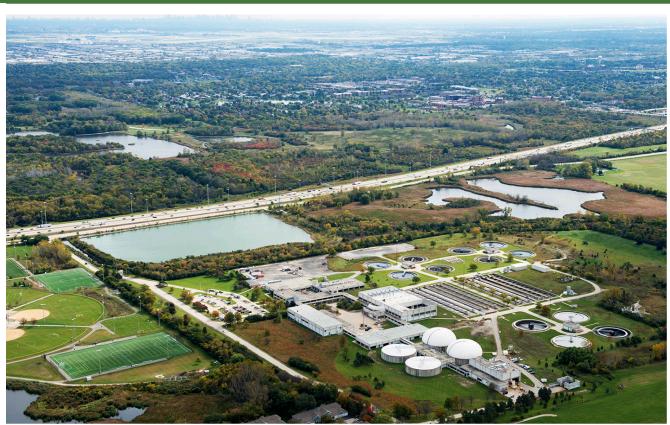
**2016** Phosphorus recovery facility placed into operation at the Stickney Water Reclamation Plant; implemented an ultraviolet disinfection process at the O'Brien Water Reclamation Plant; Board adopted the Resource Recovery Ordinance, which provides legal framework for resource recovery initiatives.

**2017** Phase I of the McCook Reservoir completed.

# MWRD Water Reclamation Plants



**Calumet Water Reclamation Plant** is the longest performing of the MWRD's seven WRPs. In operation since 1922, it serves residents and businesses in the southern portion of Cook County to clean more than 350 million gallons of wastewater per day on average. The plant's service population is more than one million people in an area of about 300 square miles.



**John E. Egan Water Reclamation Plant** serves more than 160,000 residents in a 44 square mile area. In operation since 1975, the Egan WRP cleans an average of 30 million gallons of wastewater per day.



**Hanover Park Water Reclamation Plant** has been serving residents in northwestern Cook and DuPage County communities since 1963. The Hanover Park WRP serves more than 56,000 people within an 11.2 square mile area and cleans an average of 12 million gallons per day.



**James C. Kirie Water Reclamation Plant** opened in 1980, making it the newest of the MWRD's seven wastewater treatment plants. The 108-acre Kirie plant serves a population of about 264,000 residents in a 65.2 square mile area to clean more than 50 million gallons of wastewater per day.



**Lemont Water Reclamation Plant** is a small but industrious MWRD facility that provides wastewater treatment for a service area of more than 20 square miles that includes nearly 23,000 people in the village of Lemont. It opened in 1961 and cleans an average of 2.5 million gallons of wastewater per day.



**Terrence J. O'Brien Water Reclamation Plant** was built to serve residents in communities north of downtown Chicago. In operation since 1928, the O'Brien WRP serves over 1.3 million people in an area of 143 square miles and cleans an average of 230 million gallons of wastewater per day.

**Stickney Water Reclamation Plant** (front cover) is one of the largest wastewater treatment facilities in the world. It serves residents in the central part of Chicago as well as 46 other communities within a 260 square mile area. Opened in two phases in 1930 and 1939, the Stickney plant currently serves more than 2.3 million people and cleans an average of 700 million gallons of wastewater per day.

**Metropolitan Water Reclamation District of Greater Chicago**  
100 East Erie Street • Chicago, Illinois 60611-3154

# 2020 BUDGET

## Tentative Budget

The 2020 Executive Director's Recommendations  
(previously printed) and Amendments Herein

November 19, 2019



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, 2019**

*Christopher P. Moriel*

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, 2019. 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

# 2020 Budget

## Tentative Budget

The 2020 Executive Director's Recommendations (previously printed) and Amendments Herein

November 19, 2019

### Officers

#### **Brian A. Perkovich**

Executive Director

#### **Mary Ann Boyle**

Treasurer

#### **Allison Fore**

Public & Intergovernmental Affairs Officer

#### **Darlene A. LoCascio**

Director of Procurement & Materials Management

#### **Eileen M. McElligott**

Administrative Services Officer

#### **Susan T. Morakalis**

General Counsel

#### **John P. Murray**

Director of Maintenance & Operations

#### **Catherine A. O'Connor**

Director of Engineering

#### **Edward W. Podczerwinski**

Director of Monitoring & Research

#### **Beverly K. Sanders**

Director of Human Resources

#### **John H. Sudduth**

Director of Information Technology

#### **Jacqueline Torres**

Clerk/Director of Finance

For additional copies of this document, contact:

Shellie A. Riedle, Budget Officer

100 East Erie Street, Chicago, IL 60611-3154

[www.mwrd.org](http://www.mwrd.org)

### Board of Commissioners



Seated, from left to right:

#### **Barbara J. McGowan**

Vice President

#### **Kari K. Steele**

President

#### **Frank Avila**

Chairman of Finance

Standing, from left to right:

#### **Mariyana T. Spyropoulos**

Commissioner

#### **Marcelino Garcia**

Commissioner

#### **Debra Shore**

Commissioner

#### **Josina Morita**

Commissioner

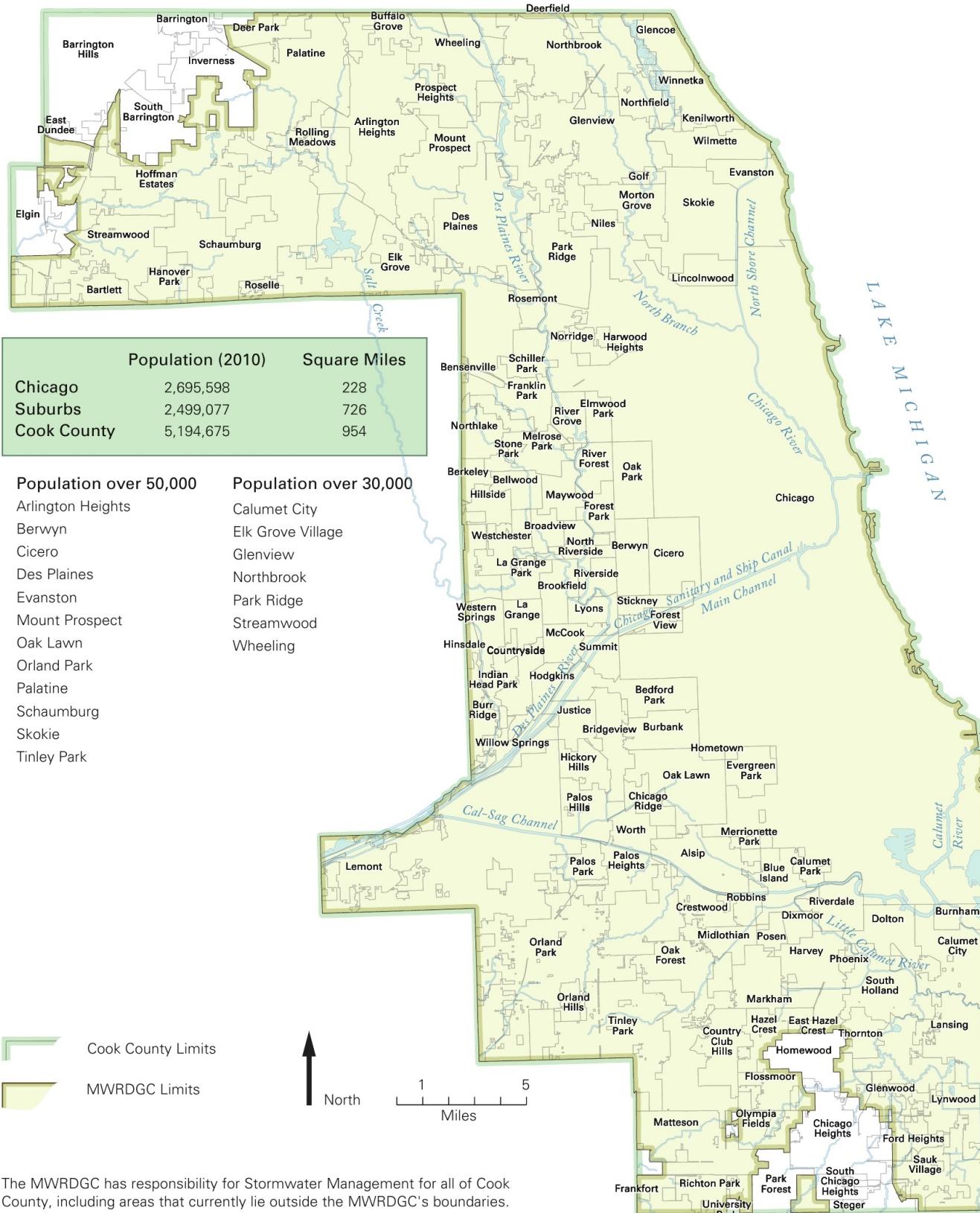
#### **Kimberly Du Buclet**

Commissioner

#### **Cameron Davis**

Commissioner

Cook County and Metropolitan Water Reclamation District of Greater Chicago



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

The 2020 Tentative Budget for the Metropolitan Water Reclamation District of Greater Chicago consists of the Executive Director's Recommendations (previously published on October 15, 2019) and amendments approved by the Committee on Budget and Employment on November 7, 2019. 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 7, 2019 Committee on Budget and Employment meeting. All changes are highlighted.

## TABLE OF CONTENTS

<a href="#">Transmittal Letter, Chairman, Committee on Budget and Employment</a> .....	<u>1</u>
<a href="#">Major Budget Amendments Impacting the 2020 Tentative Budget</a> .....	<u>5</u>
<a href="#">Report of Committee on Budget and Employment</a> .....	<u>6</u>
<a href="#">Comparative Statement of Appropriations, Tax Levies, and Tax Rates</a> .....	<u>8</u>
<a href="#">Account and Personnel Summary Comparison (Table)</a> .....	<u>10</u>
<a href="#">All Funds Summary of Revenue, Expenditures, and Net Assets Appropriable, 2020-2018</a> .....	<u>12</u>
<a href="#">Summary of Revenues and Expenditures, 2020-2019</a> .....	<u>13</u>
<a href="#">Personal Property Replacement Taxes Receivable, 2020 and Prior Years, Including Estimate for 2020</a> .....	<u>15</u>
<a href="#">Corporate Fund Estimated Balance Sheet, 2020-2019</a> .....	<u>16</u>
<a href="#">Corporate Fund Appropriable Revenue, 2020-2017</a> .....	<u>17</u>
<a href="#">Capital Improvements Bond Fund Estimated Balance Sheet, 2020-2019</a> .....	<u>18</u>
<a href="#">Capital Improvements Bond Fund Appropriable Revenue, 2020-2017</a> .....	<u>19</u>
<a href="#">Construction Fund Estimated Balance Sheet, 2020-2019</a> .....	<u>20</u>
<a href="#">Reserve Claim Fund Appropriable Revenue, 2020-2017</a> .....	<u>21</u>
<a href="#">Corporate Fund Line Item Analysis and Position Analysis</a> .....	<u>22</u>
<a href="#">Board of Commissioners</a> .....	<u>26</u>
<a href="#">General Administration</a> .....	<u>27</u>
<a href="#">Monitoring &amp; Research</a> .....	<u>29</u>
<a href="#">Procurement &amp; Materials Management</a> .....	<u>38</u>
<a href="#">Human Resources</a> .....	<u>40</u>
<a href="#">Information Technology</a> .....	<u>41</u>
<a href="#">Law</a> .....	<u>46</u>
<a href="#">Finance</a> .....	<u>47</u>
<a href="#">Maintenance &amp; Operations - All Divisions:</a> .....	<u>48</u>
<a href="#">General Division</a> .....	<u>51</u>
<a href="#">North Service Area</a> .....	<u>58</u>
<a href="#">Calumet Service Area</a> .....	<u>66</u>
<a href="#">Stickney Service Area</a> .....	<u>71</u>
<a href="#">Engineering</a> .....	<u>73</u>
<a href="#">Capital Budget</a> .....	<u>74</u>
<a href="#">Stormwater Management Fund</a> .....	<u>85</u>
<a href="#">Reserve Claim Fund</a> .....	<u>93</u>
<a href="#">Page Reference Guide</a> .....	<u>94</u>

**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

Kari K. Steele  
*President*  
Barbara J. McGowan  
*Vice President*  
Frank Avila  
*Chairman of Finance*  
Cameron Davis  
Kimberly Du Buclet  
Marcelino Garcia  
Josina Morita  
Debra Shore  
Mariyana T. Spyropoulos

November 19, 2019

The Honorable Kari K. Steele  
And Members of the Board of Commissioners  
OFFICE

Honorable Ladies and Gentlemen:

The 2020 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 15, 2019. A hearing on these recommendations was conducted on November 7, 2019, when the Executive Director and his Executive Team presented 2019 accomplishments and initiatives included in the 2020 Budget. The Executive Director presented a financial summary of the 2020 Budget. The District has a stable Corporate Fund, a sustainable capital program, and remains committed to funding the Other Postemployment Benefits (OPEB) Fund. The Retirement Fund has a funded ratio of 56.5 percent.

The Corporate Fund Tentative Budget includes an increase of 2.5 percent and emphasizes consistent, effective maintenance of our facilities, while the Stormwater Management Fund recommendations include an increase of \$24.8 million over the 2019 appropriation to fund construction costs for both Green Infrastructure and major flood control projects. The District continues to implement new technologies that further our commitment to environmental protection. The 2020 Capital Improvement Program utilizes grants, State Revolving Fund loans, and general obligation and alternate revenue bonds, along with pay-as-you-go funding to maximize the value to the taxpayers.

The District serves 128 communities covering nearly all of Cook County, treating an average of 1.4 billion gallons of water each day, with a total treatment capacity of 2.0 billion gallons per day at seven water reclamation plants. The District also controls 76.1 miles of navigable waterways, and owns and operates 34 stormwater detention reservoirs to provide regional flood protection.

#### Historic Buildings, Modern Facilities

During 2019, the District celebrated its 130th anniversary, recognizing past accomplishments and looking to the future. The Lockport Controlling Works was constructed in 1899, followed by the Lockport Powerhouse in 1907. The Controlling Works is located at the confluence of the Chicago Sanitary & Ship Canal and the Des Plaines River and enables the District to regulate water levels of the canal. The Powerhouse marks the southwestern extent of the District's management of the Chicago Area Waterway System (CAWS) and provides approximately 40 million kilowatt hours of hydroelectric power generation annually. In 2004, the National Park Service recognized the Lockport Powerhouse by listing it on the National Register of Historic Places. The 2020 budget includes \$10 million in projects that are currently underway to rehabilitate the Controlling Works and Powerhouse to ensure reliable operation into the future.

The Calumet Water Reclamation Plant (WRP) was placed into service in 1922, followed by the O'Brien WRP in 1928, and the Stickney WRP in 1939. Four smaller WRPs were built between 1961 and 1980. Within the historic sites, the District operates



*Lockport Powerhouse and Controlling Works. The Lockport Powerhouse generates approximately 40 million kilowatt hours of electrical energy annually, generating \$1.2 million in revenue for the District.*

modern water reclamation facilities with a tradition of operational excellence. In 2018, six of seven WRPs received National Association of Clean Water Agencies Platinum Peak Performance Awards for maintaining 100 percent compliance with National Pollutant Discharge Elimination Permits for at least five consecutive years. All seven WRPs have earned 99.71 percent or higher compliance since 2009.



*In 2020, the District will begin a \$10 million rehabilitation of the steel spandrel beams in the pump and blower house at the O'Brien WRP.*

Consistent, proactive plant maintenance is critical to meeting operational goals and fulfilling the District's mission to protect the health and safety of the public, protecting Lake Michigan, and meeting the goals of the Strategic Business Plan, *Recovering Resources, Transforming Water*. The 2020 Corporate Fund budget for the Maintenance & Operations Department includes an increase of 3.1 percent from the 2019 appropriation that will fund maintenance programs to ensure the plants are in peak operating condition.

Of the Capital Improvement Program's recommended \$231.5 million appropriation, 55.4 percent is dedicated to projects at the seven WRPs including a \$10 million rehabilitation of the steel spandrel beams at the O'Brien WRP pump and blower house, boiler replacements, digester rehabilitation, and gas piping replacements.

## Stormwater Management

The District mitigates flooding and provides water quality benefits throughout Cook County through Stormwater Management programs. Changing weather patterns and intense bursts of precipitation can quickly overwhelm systems throughout the region. In 2019, the District updated the Watershed Management Ordinance (WMO). Among the changes made to the WMO, the District increased stormwater detention requirements based on the Illinois State Water Survey's Updated Bulletin 70 rainfall data, published in March 2019, which indicated that annual average rainfall across Illinois has increased by 11 percent over the past century.

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. The District continues to partner with Chicago Public Schools, the Chicago Department of Water Management, Healthy Schools Campaign, and Openlands on the Space to Grow Program implementing Green Infrastructure into schoolyards and creating vibrant places to play and learn. In 2019, five new green schoolyards opened or will open by the end of the year. An additional six are planned to open in 2020. The District also helped build a rain garden with volunteers from around the world at Saucedo Scholastic Academy as part of the Water Environment Federation's Technical Exhibition and Conference (WEFTEC) held in Chicago from September 23-25, 2019.

The 2020 Budget highlights the District's commitment to reduce flooding. The Stormwater Management Fund budget is increasing by \$24.8 million over the 2019 appropriation to further our investment in flood control projects and continue to support local stormwater issues. During 2019, construction began on the \$63.3 million Addison Creek Reservoir, partially funded by a \$5 million Community Development Block Grant - Disaster Recovery Program, a federally funded program through the U.S. Department of Housing and Urban Development. The Addison Creek Channel improvements will begin in 2020. Together these large-scale projects will reduce overbank flooding for approximately 2,200 structures.

The District will complete construction on two additional reservoir projects in 2019. Together with the Forest Preserve District of Cook County, the District is increasing flood storage at Arrowhead Lake and removing 70 structures from the flood plain in Palos Heights. The \$1.6 million project will bring needed relief for area residents and improve forest preserve amenities. The \$9.7 million Buffalo Creek Reservoir expansion increases the storage capacity by 58.6 million gallons and will protect 107 structures from flooding impacts, with additional benefits along Buffalo Creek and the main stem of the Des Plaines River.



*WEFTEC volunteers from around the globe installing a rain garden at Saucedo Scholastic Academy in Chicago.*



*Groundbreaking at Arrowhead Lake in Palos Heights on April 30, 2019. The project will bring needed flood relief and provide multi-use trails and other amenities for the Forest Preserves.*

## Tunnel and Reservoir Plan

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 in 1972. 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 to enhance pollution control benefits of the tunnel system. In 2018, the 3.5 billion gallon McCook Reservoir Stage 1 became operational. Construction on Stage 2 is scheduled to be completed in 2029, adding 6.5 billion gallons of storage. During 2019, with the support of the Army Corps of Engineers Chicago District and the Illinois congressional delegation, the District secured \$33.8 million in federal funding to help complete Stage 2.

The District received the lump sum payment as a result of a pilot program established under the Water Resources Development Act of 2014 that evaluates the cost-effectiveness and project delivery efficiency of allowing non-federal interests to carry out construction of projects for flood risk management.

The goal of TARP is to reduce combined sewer overflows; thereby, providing both pollution control and flood control. The system is accomplishing both goals. In its first year in operation in 2018, the McCook Reservoir Stage 1 was filled 39 times and captured 27.2 billion gallons of water that would have overwhelmed area combined sewer systems and flooded streets, homes, and communities. When completed, the McCook Reservoir is estimated to provide more than \$143 million annually in flood reduction benefits to 3.1 million people in Chicago and 36 suburban communities.

In the south suburbs, combined sewer overflows have been nearly eliminated since the 7.9 billion gallon Thornton Composite Reservoir was completed in 2015. Not only do the tunnels and reservoir systems protect from flood damage, findings from a District water quality monitoring study showed water quality improvements. Mean fecal coliform and total suspended solids concentrations decreased and dissolved oxygen concentrations increased significantly in the Calumet River System in 2017-2018. The preliminary results from a microbial health and composition study that the District is conducting with Argonne National Laboratory indicate signs of improvement in the Calumet River System since Thornton Composite Reservoir was completed and disinfection at the Calumet WRP commenced. The study, which began in 2013, released an interim report in 2019. The full study analyzing monthly water samples from 16 different sites throughout the CAWS will continue collecting data through 2019, before the final report is released.



*The Thornton Composite Reservoir in December 2015, following the first time it took in water.*

## 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. In May 2019, the District took an important

step in promoting transparency and efficiency by entering into an Intergovernmental Agreement with Cook County to allow the Office of the Independent Inspector General to provide services to the District. These accomplishments speak to the effective leadership of the agency.

The 2020 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'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. The 2020 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 2020 Tentative Budget, compared to the 2019 Budget as Adjusted is:

	<u>2020</u>	<u>2019 Adjusted</u>	<u>Increase (Decrease)</u>	<u>Percent Change</u>
Total Tax Levy	\$ 652,646,487	\$ 643,374,010	\$ 9,272,477	1.4 %
Aggregate Levy	\$ 353,182,900	\$ 341,239,500	\$ 11,943,400	3.5 %
Appropriation	\$ 1,089,417,467	\$ 1,222,943,041	\$ (133,525,574)	(10.9)%

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 2020 aggregate levy is equal to the estimated CPI plus new property for 2020.

### Conclusion

The 2020 Tentative Budget was prepared to incorporate the goals and strategies of the Strategic Business Plan, *Recovering Resources, Transforming Water*. The 2020 update to the plan is included in the 2020 Executive Director's Budget Recommendations. The 2020 Budget provides a plan to accomplish our goals and fulfill the District's mission of protecting the health and safety of the public, protecting and improving water quality, and providing flood protection.

Respectfully submitted,



Frank Avila  
Chairman, Committee on Budget and Employment



Josina Morita  
Vice-Chairman, Committee on Budget and Employment

## ***Budget Message / Highlights***

### **Major Budget Amendments Impacting the 2020 Tentative Budget**

The 2020 Executive Director's Recommended Budget was presented to the Board of Commissioners on October 15, 2019 according to the budget process detailed on pages 32-34 of the 2020 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 \$2.1 million, or 0.19 percent, from the 2020 Executive Director's Recommendations of \$1.087 billion to \$1.089 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, Stormwater Management Fund, and Bond Redemption & Interest Fund are presented without modification from the 2020 Executive Director's Recommendations.

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

<b>Appropriations</b>					
	<b>2020 Executive Director's Recommendations</b>	<b>2020 Tentative Budget</b>	<b>Increase (Decrease)</b>	<b>Percent Change</b>	
Corporate Fund	\$ 386,697,700	\$ 386,972,700	\$ 275,000	0.07 %	
Construction Fund	15,343,400	17,044,400	1,701,000	11.09 %	
Retirement Fund	87,319,000	87,319,000	—	—%	
Reserve Claim Fund	34,395,000	34,395,000	—	—%	
Capital Improvements Bond Fund	214,306,200	214,406,500	100,300	0.05 %	
Stormwater Management Fund	116,258,000	116,258,000	—	—%	
Bond Redemption & Interest Fund	233,021,867	233,021,867	—	—%	
<b>Total Budget</b>	<b>\$ 1,087,341,167</b>	<b>\$ 1,089,417,467</b>	<b>\$ 2,076,300</b>	<b>0.19%</b>	

### **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 2020. The year-end revenue estimates for the Corporate Fund are revised to include a Personal Property Replacement Tax payment from the State of Illinois that was \$5 million over the original year-end estimate. This increase allows the District to reduce a planned equity transfer of accumulated interest income from the Capital Improvements Bond Fund. The total appropriation request for the Corporate Fund increased by \$275,000, or 0.07 percent, from the 2020 Executive Director's Recommendations of \$386.7 million to \$387.0 million. The increase is due to the addition of funding for an Affirmative Action Disparity Study and the need to complete the installation of racking at a Stickney storeroom facility.

### **Construction Fund**

The Construction Fund, which finances smaller construction projects on a pay-as-you-go basis, increased by \$1.7 million, or 11.09 percent, from the 2020 Executive Director's Recommendations of \$15.3 million to \$17.0 million. The increase is due primarily to the timing of project completion for an Intergovernmental Agreement with the DuPage River Salt Creek Workgroup and the roof restoration at the Lockport Powerhouse.

### **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 \$100,300, or 0.05 percent, from the 2020 Executive Director's Recommendations of \$214.3 million to \$214.4 million. The change in appropriation is due to changes in project schedules and cost estimates, offset by moving a streambank stabilization project on Tinley Creek to the Stormwater Management Fund.

CHICAGO, November 19, 2019

**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 he 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, 2020 and ending December 31, 2020, as prepared and submitted by the Executive Director in the document entitled "2020 Budget - Executive Director's Recommendations - October 15, 2019," 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, 2020, 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 he 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, 2020 and ending December 31, 2020";

and

"An Ordinance for the Levy of Taxes for the fiscal year beginning January 1, 2020 and ending December 31, 2020, 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, 2020, 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, 2020 and ending December 31, 2020, 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, 2020, 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, 2020 and ending December 31, 2020, 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, 2020 and ending December 31, 2020, 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, 2020, 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, 2020 and ending December 31, 2020, 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, 2020, 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, 2020 and ending December 31, 2020";

and

"An Ordinance for the Levy of Taxes for the fiscal year beginning January 1, 2020 and ending December 31, 2020 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, 2020, 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, 2020 and ending December 31, 2020, 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, 2020, 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, 2020 and ending December 31, 2020, 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, 2020 and ending December 31, 2020, 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, 2020, for the purpose of providing revenues for the Reserve Claim Fund";

Approved as to Form and Legality:

*Lisa A. Goldberg*

Head Assistant Attorney

*Stephen M. Markley*

General Counsel

and

"An Ordinance for the Levy of Taxes for the fiscal year beginning January 1, 2020 and ending December 31, 2020, 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, 2020, 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 2020 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, 2020 and ending December 31, 2020;

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 2020 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, 2020 and ending December 31, 2020, shall be published once before January 20, 2020, 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,

*M. Frank Arila*

Chairman,  
Committee on Budget and Employment

# COMPARATIVE STATEMENT OF APPROPRIATIONS AND TAX LEVIES

## 2020-2018 ALL FUNDS

APPROPRIATIONS	2020 **	2019 AS PASSED	2019 AS ADJUSTED *	2018 ACTUAL
<b>FUND</b>				
Corporate Fund	\$ 386,972,700	\$ 377,612,500	\$ 377,612,500	\$ 370,209,200
Construction Fund	17,044,400	18,340,300	18,340,300	26,080,600
Capital Improvements Bond Fund ***	214,406,500	378,173,800	378,173,800	312,982,900
Stormwater Management Fund	116,258,000	91,410,100	91,410,100	65,581,000
Retirement Fund	87,319,000	87,281,000	87,281,000	89,604,000
Reserve Claim Fund	34,395,000	31,767,800	31,767,800	30,289,500
Bond Redemption & Interest Fund	233,021,867	238,357,541	238,357,541	256,304,187
<b>TOTAL</b>	<b>\$ 1,089,417,467</b>	<b>\$ 1,222,943,041</b>	<b>\$ 1,222,943,041</b>	<b>\$ 1,151,051,387</b>
<b>LEVIES</b>				
Corporate Fund	\$ 266,455,300	\$ 254,574,100	\$ 254,574,100	\$ 241,153,834
Construction Fund	7,000,000	7,600,000	7,600,000	11,700,000
Stormwater Management Fund	52,926,000	52,926,000	52,926,000	47,826,000
Retirement Fund	72,227,600	71,565,400	71,565,400	71,534,197
Reserve Claim Fund	7,500,000	7,500,000	7,500,000	6,000,000
Subtotal	\$ 406,108,900	\$ 394,165,500	\$ 394,165,500	\$ 378,214,031
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	20,865,901	18,950,616	18,950,616	28,911,238
2011 Unlimited Tax Series C	2,142,417	2,515,991	2,515,991	4,184,800
2014 Limited Tax Series C	7,434,975	8,286,788	8,286,788	6,763,472
2014 Unlimited Tax Series A	5,181,348	5,181,348	5,181,348	5,181,348
2014 Alternate Revenue Unlimited Tax Series B ****	3,390,570	3,391,037	3,391,037	3,390,570
2016 Alternate Revenue Unlimited Tax Series E ****	2,590,674	2,590,674	2,590,674	2,590,674
Alternate Revenue Abatement ****	—	—	—	(5,981,244)
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	98,657,072	99,555,205	100,145,406	86,551,302
State Revolving Fund Stormwater Abatement****				(170,984)
Refunding Bonds - Series:				
2007 Unlimited Tax Series A	26,727,980	26,694,301	26,694,301	26,623,057
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	13,989,638	15,895,337	15,895,337	15,130,830
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	\$ 246,537,587	\$ 248,618,309	\$ 249,208,510	\$ 238,732,075
<b>TOTAL</b>	<b>\$ 652,646,487</b>	<b>\$ 642,783,809</b>	<b>\$ 643,374,010</b>	<b>\$ 616,946,106</b>
Abatement after the budget year ****	(6,184,633)	(6,185,100)	(6,185,100)	
<b>Total (after planned abatement)</b>	<b>\$ 646,461,854</b>	<b>\$ 636,598,709</b>	<b>\$ 637,188,910</b>	

NOTES: \* As Adjusted reflects the 2018 EAV (\$155,788,046,903) estimated to increase 3.0 percent, plus any subsequent supplemental levies or appropriations.

\*\* 2020 reflects an estimated 3.0 percent increase in EAV from the 2019 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

### 2020-2018 ALL FUNDS

Per \$100 in Equalized Assessed Valuation (EAV)

FUND	2020 **	2019 AS PASSED	2019 AS ADJUSTED *	2018 ACTUAL
	tax rate limit			
Corporate Fund	41¢	16.12¢	16.22¢	15.87¢
Construction Fund	10¢	0.42	0.48	0.47
Stormwater Management Fund	5¢	3.20	3.37	3.30
Retirement Fund		4.37	4.56	4.46
Reserve Claim Fund	½ ¢	0.45	0.48	0.47
Subtotal		24.56¢	25.11¢	24.57¢
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	2.15	2.27	2.22	2.28
2011 Limited Tax Series B	1.26	1.21	1.18	1.86
2011 Unlimited Tax Series C	0.13	0.16	0.16	0.27
2014 Limited Tax Series C	0.45	0.53	0.52	0.43
2014 Unlimited Tax Series A	0.31	0.33	0.32	0.33
2014 Alternate Revenue Unlimited Tax Series B ***	0.21	0.22	0.21	0.22
2016 Alternate Revenue Unlimited Tax Series E ***	0.16	0.17	0.16	0.17
Alternate Revenue Abatement ***	—	—	—	(0.39)
2016 Unlimited Tax Series C	0.09	0.10	0.10	0.10
2016 Limited Tax Series D	0.06	0.07	0.06	0.07
State Revolving Fund Bonds - Series:				
Various	5.97	6.34	6.24	5.56
Refunding Bonds - Series:				
2007 Unlimited Tax Series A	1.62	1.70	1.66	1.71
2007 Unlimited Tax Series B	0.30	0.32	0.31	0.32
2007 Limited Tax Series C	0.34	0.35	0.35	0.36
2014 Limited Tax Series D	0.85	1.01	0.99	0.97
2016 Unlimited Tax Series A	0.88	0.93	0.91	0.93
2016 Limited Tax Series B	0.13	0.14	0.13	0.14
Subtotal Bond Redemption & Interest Fund	14.92¢	15.86¢	15.53¢	15.34¢
<b>TOTAL</b>	<b>39.48¢</b>	<b>40.97¢</b>	<b>40.10¢</b>	<b>39.62¢</b>

NOTES: \* As Adjusted reflects the 2018 EAV (\$155,788,046,903) estimated to increase 3.0 percent, plus any subsequent supplemental levies or appropriations.

\*\* 2020 reflects an estimated 3.0 percent increase in EAV from the 2019 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

### 2020 - 2019 ALL FUNDS

ORGANIZATION OR FUND	Account Appropriation		Increase (Decrease) 2020-2019	
	2020	2019	Dollars	Percent
<b>Board of Commissioners</b>	\$ 5,242,200	\$ 5,256,000	\$ (13,800)	(0.3)
<b>General Administration</b>	21,505,200	18,713,800	2,791,400	14.9
<b>Monitoring &amp; Research</b>	31,546,700	31,548,300	(1,600)	—
<b>Procurement &amp; Materials Management</b>	9,884,700	9,821,100	63,600	0.6
<b>Human Resources</b>	61,329,200	60,229,600	1,099,600	1.8
<b>Information Technology</b>	18,353,500	18,592,700	(239,200)	(1.3)
<b>Law</b>	7,234,100	7,177,700	56,400	0.8
<b>Finance</b>	3,834,400	3,739,800	94,600	2.5
<b>Maintenance &amp; Operations:</b>				
<b>General Division</b>	31,561,600	31,771,800	(210,200)	(0.7)
<b>North Service Area</b>	45,502,900	43,582,000	1,920,900	4.4
<b>Calumet Service Area</b>	38,960,500	36,727,200	2,233,300	6.1
<b>Stickney Service Area</b>	86,564,800	84,511,300	2,053,500	2.4
<b>TOTAL Maintenance &amp; Operations</b>	\$ 202,589,800	\$ 196,592,300	\$ 5,997,500	3.1
<b>Engineering</b>	25,452,900	25,941,200	(488,300)	(1.9)
<b>TOTAL Corporate Fund</b>	\$ 386,972,700	\$ 377,612,500	\$ 9,360,200	2.5
<b>Construction Fund</b>	17,044,400	18,340,300	(1,295,900)	(7.1)
<b>Capital Improvements Bond Fund</b>	214,406,500	378,173,800	(163,767,300)	(43.3)
<b>TOTAL Capital Budget</b>	\$ 231,450,900	\$ 396,514,100	\$ (165,063,200)	(41.6)
<b>Stormwater Management Fund</b>	116,258,000	91,410,100	24,847,900	27.2
<b>Bond Redemption &amp; Interest Fund</b>	233,021,867	238,357,541	(5,335,674)	(2.2)
<b>Retirement Fund</b>	87,319,000	87,281,000	38,000	—
<b>Reserve Claim Fund</b>	34,395,000	31,767,800	2,627,200	8.3
<b>GRAND TOTAL</b>	<b>\$1,089,417,467</b>	<b>\$1,222,943,041</b>	<b>\$ (133,525,574)</b>	<b>(10.9)</b>

**PERSONNEL SUMMARY COMPARISON****2020 - 2018 ALL FUNDS**

<b>ORGANIZATION OR FUND</b>	<b>Proposed FTEs 2020</b>	<b>Budgeted FTEs 2019</b>	<b>Actual FTEs 2018</b>	<b>Increase (Decrease) 2020-2019</b>	
				<b>FTEs</b>	<b>Percent</b>
<b>Board of Commissioners</b>	36	38	37	(2)	(5.3)
<b>General Administration</b>	121	119	120	2	1.7
<b>Monitoring &amp; Research</b>	294	300	307	(6)	(2.0)
<b>Procurement &amp; Materials Management</b>	63	63	61	—	—
<b>Human Resources</b>	92	93	79	(1)	(1.1)
<b>Information Technology</b>	70	71	69	(1)	(1.4)
<b>Law</b>	38	39	35	(1)	(2.6)
<b>Finance</b>	27	27	27	—	—
<b>Maintenance &amp; Operations:</b>					
<b>General Division</b>	112	115	107	(3)	(2.6)
<b>North Service Area</b>	247	248	244	(1)	(0.4)
<b>Calumet Service Area</b>	188	188	185	—	—
<b>Stickney Service Area</b>	369	369	367	—	—
<b>TOTAL Maintenance &amp; Operations</b>	916	920	903	(4)	(0.4)
<b>Engineering</b>	205	212	237	(7)	(3.3)
<b>TOTAL Corporate Fund</b>	1,862	1,882	1,875	(20)	(1.1)
<b>Construction Fund</b>	—	—	—	—	—
<b>Capital Improvements Bond Fund</b>	—	—	—	—	—
<b>TOTAL Capital Budget</b>	—	—	—	—	—
<b>Stormwater Management Fund</b>	91	85	57	6	7.1
<b>Bond Redemption &amp; Interest Fund</b>	—	—	—	—	—
<b>Retirement Fund</b>	—	—	—	—	—
<b>Reserve Claim Fund</b>	—	—	—	—	—
<b>GRAND TOTAL</b>	1,953	1,967	1,932	(14)	(0.7)

**ALL FUNDS****SUMMARY OF REVENUE, EXPENDITURES, AND NET ASSETS APPROPRIABLE (b)****2020 BUDGETED, 2019 ESTIMATED, AND 2018 ACTUAL**

(In Thousands)

	FUND							
	CORPORATE	CAPITAL IMPROVEMENTS BOND	CONSTRUCTION	STORMWATER MANAGEMENT	RETIREMENT (d)	BOND REDEMPTION & INTEREST (d)	RESERVE CLAIM (d)	TOTAL
<b>2020 BUDGETED</b>								
Net Assets Appropriable	\$ 137,741.2	\$ (653,354.3)	\$ 9,924.4	\$ 68,559.6	\$ 87,319.0	\$ 225,460.3	\$ 33,695.0	\$ (90,654.8)
Net Assets Appropriated	\$ 32,827.7	\$ (653,354.3)	\$ 9,924.4	\$ 68,559.6	\$ 87,319.0	\$ 225,460.3	\$ 33,695.0	\$ (195,568.3)
Revenue	354,145.0	867,760.8	7,120.0	47,698.4	—	7,561.6	700.0	1,284,985.8
Appropriation	\$ 386,972.7	\$ 214,406.5	\$ 17,044.4	\$ 116,258.0	\$ 87,319.0	\$ 233,021.9	\$ 34,395.0	\$ 1,089,417.5
<b>2019 ESTIMATED</b>								
Beginning Net Assets Appropriable as adjusted (c)	\$ 131,481.8	\$ (636,126.1)	\$ 14,578.6	\$ 59,291.7	\$ 87,281.0	\$ 229,469.6	\$ 31,140.8	\$ (82,882.6)
Revenue (a)	354,945.3	68,684.0	7,647.0	52,009.5	—	8,887.9	680.4	492,854.1
Adjustment for 2018 receipts	6,988.3	—	(554.6)	434.7	—	—	—	6,868.4
Expenditures	(355,674.3)	(85,912.2)	(11,746.6)	(43,176.3)	(87,281.0)	(238,357.5)	(5,400.0)	(827,547.9)
Ending Net Assets Appropriable	\$ 137,741.2	\$ (653,354.3)	\$ 9,924.4	\$ 68,559.6	—	—	\$ 26,421.2	\$ (410,707.9)
<b>2018 ACTUAL</b>								
Beginning Net Assets Appropriable as adjusted (c)	\$ 140,974.1	\$ (615,827.5)	\$ 18,526.9	\$ 36,706.1	\$ 89,604.0	\$ 248,026.5	\$ 30,350.0	\$ (51,639.9)
Revenue	339,004.5	107,119.5	11,079.1	40,303.9	—	8,277.6	465.5	506,250.1
Expenditures	(348,496.7)	(127,418.2)	(15,027.4)	(17,718.3)	(89,604.0)	(256,304.2)	(5,497.1)	(860,065.9)
Ending Net Assets Appropriable	\$ 131,481.8	\$ (636,126.1)	\$ 14,578.6	\$ 59,291.7	—	—	\$ 25,318.4	\$ (405,455.6)
Adjusted NAA 1/1/2019	\$ 138,470.1		\$ 14,024.0	\$ 59,726.4				
Adjustment (a)	\$ 6,988.3		\$ (554.6)	\$ 434.7				

(a) Adjustment to NAA required due to current 2019 estimate on collection of property tax levies and PPRT. See the Balance Sheets and Appropriable Revenue statements 01/01/2019 for the Corporate (pages 87-88), Construction (pages 95-96), and Stormwater Management (pages 99-100) Funds. The adjustment is reflected in the 2019 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**  
**2020 BUDGETED**  
(In Thousands)

	FUND							
	CORPORATE	CAPITAL IMPROVEMENTS BOND*	CONSTRUCTION	STORMWATER MANAGEMENT	RETIREMENT	BOND REDEMPTION & INTEREST	RESERVE CLAIM	TOTAL
<b>REVENUE</b>								
Net Assets Appropriable	\$ 137,741.2	\$ (653,354.3)	\$ 9,924.4	\$ 68,559.6	\$ 87,319.0	\$ 225,460.3	\$ 33,695.0	\$ (90,654.8)
Budget Reserve	(104,913.5)	—	—	—	—	—	—	(104,913.5)
Net Property Taxes	257,129.4	—	6,755.0	51,073.6	—	—	—	314,958.0
Personal Property Replacement Tax	19,000.0	—	—	—	—	—	—	19,000.0
Working Cash Borrowings Adjustment	(4,929.4)	—	(55.0)	(773.6)	—	—	—	(5,758.0)
Bond Sales (Present & Future)	—	774,388.8	—	—	—	—	—	774,388.8
Grants (Federal & State)	—	14,472.0	—	1,360.0	—	—	—	15,832.0
Investment Income	2,100.0	6,900.0	400.0	1,000.0	—	1,600.0	700.0	12,700.0
State Revolving Fund Loans	—	70,000.0	—	—	—	—	—	70,000.0
Property & Services	23,000.0	—	—	1,000.0	—	—	—	24,000.0
User Charge	43,000.0	—	—	—	—	—	—	43,000.0
TIF Differential Fee & Impact Fee	8,225.0	—	—	—	—	—	—	8,225.0
Equity Transfer	—	—	—	(5,961.6)	—	5,961.6	—	—
Resource Recovery	600.0	—	—	—	—	—	—	600.0
Miscellaneous	6,020.0	2,000.0	20.0	—	—	—	—	8,040.0
<b>TOTAL REVENUE</b>	<b>\$ 386,972.7</b>	<b>\$ 214,406.5</b>	<b>\$ 17,044.4</b>	<b>\$ 116,258.0</b>	<b>\$ 87,319.0</b>	<b>\$ 233,021.9</b>	<b>\$ 34,395.0</b>	<b>\$ 1,089,417.5</b>
<b>EXPENDITURES</b>								
Board of Commissioners	\$ 5,242.2	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 5,242.2
General Administration	21,505.2	—	—	—	—	—	—	21,505.2
Monitoring & Research	31,546.7	—	—	—	—	—	—	31,546.7
Procurement & Materials Mgmt.	9,884.7	—	—	—	—	—	—	9,884.7
Human Resources	61,329.2	—	—	—	—	—	—	61,329.2
Information Technology	18,353.5	—	—	—	—	—	—	18,353.5
Law	7,234.1	—	—	—	—	—	—	7,234.1
Finance	3,834.4	—	—	—	—	—	—	3,834.4
Engineering	25,452.9	214,406.5	17,044.4	—	—	—	—	256,903.8
Maintenance & Operations	202,589.8	—	—	—	—	—	—	202,589.8
Stormwater Management Fund	—	—	—	116,258.0	—	—	—	116,258.0
Retirement Fund	—	—	—	—	87,319.0	—	—	87,319.0
Bond Redemption & Interest Fund	—	—	—	—	—	233,021.9	—	233,021.9
Reserve Claim Fund	—	—	—	—	—	—	34,395.0	34,395.0
<b>TOTAL EXPENDITURES</b>	<b>\$ 386,972.7</b>	<b>\$ 214,406.5</b>	<b>\$ 17,044.4</b>	<b>\$ 116,258.0</b>	<b>\$ 87,319.0</b>	<b>\$ 233,021.9</b>	<b>\$ 34,395.0</b>	<b>\$ 1,089,417.5</b>

\* 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**  
**2019 ESTIMATED**  
(In Thousands)

	FUND								TOTAL
	CORPORATE	CAPITAL IMPROVEMENTS BOND*	CONSTRUCTION	STORMWATER MANAGEMENT	RETIREMENT	BOND REDEMPTION & INTEREST	RESERVE CLAIM		
<b>REVENUE</b>									
Net Assets Appropriable	\$ 131,481.8	\$ (636,126.1)	\$ 14,578.6	\$ 59,291.7	\$ 87,281.0	\$ 229,469.6	\$ 31,140.8	\$ (82,882.6)	
Adjustment for Receipts	6,988.3	—	(554.6)	434.7	—	—	—	6,868.4	
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)	—	—	—	—	—	—	—	—	
Grants (Federal & State)	—	14,177.0	—	5,316.4	—	—	—	19,493.4	
Investment Income	3,337.0	6,707.0	427.0	1,265.0	—	3,116.0	680.4	15,532.4	
State Revolving Fund Loans	—	50,000.0	—	—	—	—	—	50,000.0	
Property & Services	26,073.3	—	—	900.0	—	—	—	26,973.3	
User Charge	47,000.0	—	—	—	—	—	—	47,000.0	
TIF Differential Fee & Impact Fee	10,650.0	—	—	—	—	—	—	10,650.0	
Equity Transfer	4,200.0	(4,200.0)	—	(5,771.9)	—	5,771.9	—	—	
Miscellaneous	7,585.0	2,000.0	20.0	—	—	—	—	9,605.0	
<b>TOTAL REVENUE</b>	<b>\$ 493,415.4</b>	<b>\$ (567,442.1)</b>	<b>\$ 21,671.0</b>	<b>\$ 111,735.9</b>	<b>\$ 87,281.0</b>	<b>\$ 238,357.5</b>	<b>\$ 31,821.2</b>	<b>\$ 416,839.9</b>	
<b>EXPENDITURES</b>									
Board of Commissioners	\$ 4,745.5	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 4,745.5	
General Administration	17,083.9	—	—	—	—	—	—	17,083.9	
Monitoring & Research	29,731.7	—	—	—	—	—	—	29,731.7	
Procurement & Materials Mgmt.	9,241.2	—	—	—	—	—	—	9,241.2	
Human Resources	56,310.8	—	—	—	—	—	—	56,310.8	
Information Technology	15,156.6	—	—	—	—	—	—	15,156.6	
Law	6,110.2	—	—	—	—	—	—	6,110.2	
Finance	3,627.6	—	—	—	—	—	—	3,627.6	
Engineering	24,073.9	85,912.2	11,746.6	—	—	—	—	121,732.7	
Maintenance & Operations	189,592.9	—	—	—	—	—	—	189,592.9	
Stormwater Management Fund	—	—	—	43,176.3	—	—	—	43,176.3	
Retirement Fund	—	—	—	—	87,281.0	—	—	87,281.0	
Bond Redemption & Interest Fund	—	—	—	—	—	238,357.5	—	238,357.5	
Reserve Claim Fund	—	—	—	—	—	—	5,400.0	5,400.0	
<b>TOTAL EXPENDITURES</b>	<b>\$ 355,674.3</b>	<b>\$ 85,912.2</b>	<b>\$ 11,746.6</b>	<b>\$ 43,176.3</b>	<b>\$ 87,281.0</b>	<b>\$ 238,357.5</b>	<b>\$ 5,400.0</b>	<b>\$ 827,547.9</b>	

\* 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.

**STATEMENT OF PERSONAL PROPERTY REPLACEMENT TAXES  
RECEIVABLE FOR 2020 AND PRIOR YEARS AT JANUARY 1, 2020  
INCLUDING THE ESTIMATED COLLECTIONS FOR THE YEAR 2020**

LEVY YEAR	FUND	BUDGETED RECEIVABLE	ACTUAL/ESTIMATED COLLECTED THROUGH 2019	CASH ESTIMATED IN 2020
<b>2020</b>	Corporate	\$ 19,000,000	\$ —	\$ —
	Retirement	18,427,400	—	—
	Construction	—	—	—
	Total	\$ 37,427,400	\$ —	\$ —
<b>2019</b>	Corporate	\$ 15,000,000	\$ —	\$ 15,000,000
	Retirement	18,258,400	—	18,258,400
	Construction	—	—	—
	Total	\$ 33,258,400	\$ —	\$ 33,258,400
<b>2018</b>	Corporate	\$ 19,849,500	\$ 26,759,100	\$ —
	Retirement	18,250,500	18,250,500	—
	Construction	—	—	—
	Total	\$ 38,100,000	\$ 45,009,600	\$ —
<b>2017</b>	Corporate	\$ 18,164,000	\$ 17,970,367	\$ —
	Retirement	18,736,200	18,736,200	—
	Construction	—	—	—
	Total	\$ 36,900,200	\$ 36,706,567	\$ —
<b>2016</b>	Corporate	\$ 24,676,000	\$ 23,751,730	\$ —
	Retirement	16,624,500	16,624,500	—
	Construction	1,100,000	—	—
	Total	\$ 42,400,500	\$ 40,376,230	\$ —
<b>2015</b>	Corporate	\$ 23,101,600	\$ 23,435,980	\$ —
	Retirement	14,798,400	14,798,400	—
	Construction	—	—	—
	Total	\$ 37,900,000	\$ 38,234,380	\$ —

NOTE: Personal Property Replacement Taxes are recorded as collected against the prior year's tax estimate. For example, collections in 2019 will be recorded against the 2018 budgeted receivable.

**CORPORATE FUND**  
**ESTIMATED BALANCE SHEET**  
**JANUARY 1, 2020 AND 2019**

	ASSETS					
	2020		2019			
	AMOUNT	AVAILABLE FOR APPROPRIATION	AMOUNT	AVAILABLE FOR APPROPRIATION		
<b>CURRENT ASSETS</b>						
Cash & Investments	\$ 102,746,025	\$ 102,746,025	\$ 110,213,700	\$ 110,213,700		
Taxes Receivable	245,664,007	246,790,827	232,049,497	232,815,081		
Replacement Tax	15,000,000	15,000,000	15,849,500	15,849,500		
<b>Total Current Assets</b>	<b>\$ 363,410,032</b>	<b>\$ 364,536,852</b>	<b>\$ 358,112,697</b>	<b>\$ 358,878,281</b>		
<b>LIABILITIES &amp; FUND EQUITY</b>						
<b>CURRENT LIABILITIES</b>						
Unpaid Bills:						
Accrued Salaries & Wages	\$ 3,820,000	\$ 3,820,000	\$ 3,685,000	\$ 3,685,000		
Personal Services - Other	3,160,000	3,160,000	2,700,000	2,700,000		
Payroll Withholding & Miscellaneous	2,100,000	2,100,000	2,000,000	2,000,000		
Contractual Services	27,715,678	27,715,678	28,983,016	28,983,016		
Due to Corporate Working Cash Fund	190,000,000	190,000,000	190,000,000	190,000,000		
<b>Total Current Liabilities</b>	<b>\$ 226,795,678</b>	<b>\$ 226,795,678</b>	<b>\$ 227,368,016</b>	<b>\$ 227,368,016</b>		
<b>Total Liabilities</b>		<b>\$ 226,795,678</b>			<b>\$ 227,368,016</b>	
<b>ASSETS APPROPRIABLE FOR 2020 &amp; 2019</b>						
Net Assets Appropriable		\$ 137,741,174		\$ 131,510,265		
Budget Reserve		(104,913,474)		(99,393,765)		
Net Assets Appropriated		\$ 32,827,700		\$ 32,116,500		
Estimated Revenue		354,145,000		345,496,000		
<b>Total Assets Appropriable</b>		<b>\$ 386,972,700</b>		<b>\$ 377,612,500</b>		
<b>FUND EQUITY</b>						
Undesignated	\$ 136,614,354		\$ 130,744,681			
<b>Total Fund Equity</b>	<b>\$ 136,614,354</b>		<b>\$ 130,744,681</b>			
<b>Total Liabilities &amp; Fund Equity</b>	<b>\$ 363,410,032</b>		<b>\$ 358,112,697</b>			

**CORPORATE FUND**  
**APPROPRIABLE REVENUE**  
**2020 - 2017**

REVENUE DESCRIPTION	ESTIMATED		ACTUAL		
	2020 BUDGET	2019 ADJUSTED	2019 BUDGET	2018	2017
Revenue from Property Taxes					
Gross Tax Levy	\$ 266,455,300	\$ 254,574,100	\$ 254,574,100	\$ 241,153,834	\$ 224,824,731
Less Allowance for Uncollectible Taxes	(9,325,936)	(8,910,093.5)	(8,910,093.5)	(8,440,384)	(7,868,866)
Net Property Taxes	\$ 257,129,364	\$ 245,664,007	\$ 245,664,007	\$ 232,713,450	\$ 216,955,865
Revenue from Personal Property					
Replacement Tax	\$ 19,000,000	\$ 15,000,000	\$ 15,000,000	\$ 19,849,500	\$ 18,164,000
Net Tax Sources	\$ 276,129,364	\$ 260,664,007	\$ 260,664,007	\$ 252,562,950	\$ 235,119,865
Adjustment to match working cash borrowings	(4,929,365)	(4,564,007)	(4,564,007)	(4,562,950)	(4,319,865)
Working Cash Financing at 95% of Gross Tax Sources	\$ 271,200,000	\$ 256,100,000	\$ 256,100,000	\$ 248,000,000	\$ 230,800,000
Investment Income	\$ 2,100,000	\$ 3,337,000	\$ 2,600,000	\$ 3,033,675	\$ 1,523,399
Land Rentals	23,000,000	23,000,000	21,500,000	23,036,179	20,628,245
Sewer Permit Fees	—	—	—	1,064,300	1,100,992
Sewer Service Agreement Revenue	1,750,000	2,900,000	1,500,000	1,448,371	2,286,078
User Charge	43,000,000	47,000,000	46,000,000	41,301,817	53,252,035
Resource Recovery	600,000	625,000	600,000	559,373	295,602
Lockport Electrical Energy Generation	1,200,000	1,200,000	1,200,000	1,386,344	1,323,132
Miscellaneous (details below)	11,295,000	16,583,329	11,796,000	15,639,376	15,620,329
Subtotal	\$ 82,945,000	\$ 94,645,329	\$ 85,196,000	\$ 87,469,435	\$ 96,029,812
Adjustment to Net Assets Available for Projected Receipts	—	6,988,325	—	(105,600)	7,254,500
Equity Transfer	—	4,200,000	4,200,000	4,200,000	6,000,000
<b>GRAND TOTAL</b>	<b>\$ 354,145,000</b>	<b>\$ 361,933,654</b>	<b>\$ 345,496,000</b>	<b>\$ 339,563,835</b>	<b>\$ 340,084,312</b>

<b>TIF Surplus Distribution</b>	\$ 8,000,000	\$ 10,425,000	\$ 9,500,000	\$ 10,711,878	\$ 11,811,280
TIF Differential Fee	225,000	225,000	225,000	225,000	225,000
Land Sales	—	3,073,329	—	—	50,200
Claims & Damage Settlements	—	10,000	—	178,781	213,158
Scrap Sales	50,000	75,000	50,000	118,865	116,041
Sales of Automobiles	20,000	27,000	18,000	29,262	42,440
Interest on Taxes - Cook County Treasurer	—	48,000	3,000	34,321	10,265
Other	3,000,000	2,700,000	2,000,000	4,341,269	3,151,945
<b>Total</b>	<b>\$ 11,295,000</b>	<b>\$ 16,583,329</b>	<b>\$ 11,796,000</b>	<b>\$ 15,639,376</b>	<b>\$ 15,620,329</b>

**CAPITAL IMPROVEMENTS BOND FUND**  
**ESTIMATED BALANCE SHEET**  
**JANUARY 1, 2020 AND 2019**

	ASSETS					
	2020		2019			
	AMOUNT	AVAILABLE FOR APPROPRIATION	AMOUNT	AVAILABLE FOR APPROPRIATION		
<b>CURRENT ASSETS</b>						
Cash & Investments	\$ 251,316,000	\$ 251,316,000	\$ 232,000,000	\$ 232,000,000		
Grants Receivable		14,472,000	14,472,000		1,000,000	1,000,000
State Revolving Fund Loans Receivable		70,000,000	70,000,000		120,000,000	120,000,000
<b>Total Current Assets</b>	<b>\$ 335,788,000</b>	<b>\$ 335,788,000</b>	<b>\$ 353,000,000</b>	<b>\$ 353,000,000</b>		
<b>LIABILITIES &amp; FUND EQUITY</b>						
<b>CURRENT LIABILITIES</b>						
Unpaid Bills:						
Contractual Services	\$ 53,000,000	\$ 53,000,000	\$ 74,000,000	\$ 74,000,000		
Contracts Payable		936,142,338	936,142,338		888,357,685	888,357,685
<b>Total Current Liabilities</b>	<b>\$ 989,142,338</b>	<b>\$ 989,142,338</b>	<b>\$ 962,357,685</b>	<b>\$ 962,357,685</b>		
Designated for Future Claims Liabilities						
<b>Total Liabilities</b>	<b>\$ 989,142,338</b>	<b>\$ 989,142,338</b>	<b>\$ 962,357,685</b>	<b>\$ 962,357,685</b>		
<b>ASSETS APPROPRIABLE</b>						
Net Assets Appropriable		\$ (653,354,338)			\$ (609,357,685)	
Net Assets Appropriated		\$ (653,354,338)			\$ (609,357,685)	
Estimated Revenue		867,760,838			987,531,485	
<b>Total Assets Appropriable</b>	<b>\$ 214,406,500</b>				<b>\$ 378,173,800</b>	
<b>FUND EQUITY</b>						
<b>Total Liabilities &amp; Fund Equity</b>	<b>\$ 335,788,000</b>		<b>\$ 353,000,000</b>			

**CAPITAL IMPROVEMENTS BOND FUND****APPROPRIABLE REVENUE****2020 - 2017**

REVENUE DESCRIPTION	ESTIMATED			ACTUAL	
	2020 BUDGET	2019 ADJUSTED	2019 BUDGET	2018	2017
Revenue from Money & Property					
Bond Sales (Present & Future)	\$ 774,388,838	\$ —	\$ 850,664,185	\$ —	\$ —
Investment Income	6,900,000	6,707,000	7,800,000	5,647,153	3,938,820
<b>Subtotal</b>	<b>\$ 781,288,838</b>	<b>\$ 6,707,000</b>	<b>\$ 858,464,185</b>	<b>\$ 5,647,153</b>	<b>\$ 3,938,820</b>
Revenue from Miscellaneous Sources					
Federal & State Grants	\$ 14,472,000	\$ 14,177,000	\$ 11,267,300	\$ 15,304,009	\$ 16,137,198
State Revolving Fund Loans	70,000,000	50,000,000	120,000,000	87,614,400	168,986,700
Miscellaneous	2,000,000	2,000,000	2,000,000	2,753,981	2,179,586
<b>Subtotal</b>	<b>\$ 86,472,000</b>	<b>\$ 66,177,000</b>	<b>\$ 133,267,300</b>	<b>\$ 105,672,391</b>	<b>\$ 187,303,484</b>
<b>Total Revenue</b>	<b>\$ 867,760,838</b>	<b>\$ 72,884,000</b>	<b>\$ 991,731,485</b>	<b>\$ 111,319,543</b>	<b>\$ 191,242,304</b>
Other Financing Sources (Uses)					
Equity Transfer	\$ —	\$ (4,200,000)	\$ (4,200,000)	\$ (4,200,000)	\$ (13,000,000)
<b>GRAND TOTAL</b>	<b>\$ 867,760,838</b>	<b>\$ 68,684,000</b>	<b>\$ 987,531,485</b>	<b>\$ 107,119,543</b>	<b>\$ 178,242,304</b>

**CONSTRUCTION FUND**  
**ESTIMATED BALANCE SHEET**  
**JANUARY 1, 2020 AND 2019**

	<b>ASSETS</b>			
	<b>2020</b>		<b>2019</b>	
	<b>AMOUNT</b>	<b>AVAILABLE FOR APPROPRIATION</b>	<b>AMOUNT</b>	<b>AVAILABLE FOR APPROPRIATION</b>
<b>CURRENT ASSETS</b>				
Cash & Investments	\$ 15,501,000	\$ 15,501,000	\$ 13,650,000	\$ 13,650,000
Taxes Receivable	7,334,000	7,262,400	11,290,500	11,322,000
Replacement Tax	—	—	—	—
<b>Total Current Assets</b>	<b>\$ 22,835,000</b>	<b>\$ 22,763,400</b>	<b>\$ 24,940,500</b>	<b>\$ 24,972,000</b>
<b>LIABILITIES &amp; FUND EQUITY</b>				
<b>CURRENT LIABILITIES</b>				
Unpaid Bills:				
Contracts Payable	\$ 1,250,000	\$ 1,250,000	\$ 2,075,700	\$ 2,075,700
Contractual Services	489,000	489,000	276,000	276,000
Due to:				
Construction Working Cash Fund	11,100,000	11,100,000	12,000,000	12,000,000
<b>Total Current Liabilities</b>	<b>\$ 12,839,000</b>	<b>\$ 12,839,000</b>	<b>\$ 14,351,700</b>	<b>\$ 14,351,700</b>
<b>Total Current Liabilities and Designations</b>		\$ 12,839,000		\$ 14,351,700
<b>ASSETS APPROPRIABLE FOR 2020 AND 2019</b>				
Net Assets Appropriable		\$ 9,924,400		\$ 10,620,300
Net Assets Appropriated		\$ 9,924,400		\$ 10,620,300
Estimated Revenue		7,120,000		7,720,000
<b>Total Assets Appropriable</b>		<b>\$ 17,044,400</b>		<b>\$ 18,340,300</b>
<b>FUND EQUITY</b>				
Designated for Future Claims Liabilities	\$ —		\$ —	
Undesignated	9,996,000		10,588,800	
<b>Total Fund Equity</b>	<b>\$ 9,996,000</b>		<b>\$ 10,588,800</b>	
<b>Total Liabilities &amp; Fund Equity</b>	<b>\$ 22,835,000</b>		<b>\$ 24,940,500</b>	

**RESERVE CLAIM FUND**  
**ESTIMATED BALANCE SHEET**  
**JANUARY 1, 2020 AND 2019**

	ASSETS					
	2020		2019			
	AMOUNT	AVAILABLE FOR APPROPRIATION	AMOUNT	AVAILABLE FOR APPROPRIATION		
<b>CURRENT ASSETS</b>						
Cash & Investments	\$ 26,700,000	\$ 26,700,000	\$ 25,724,293	\$ 25,724,293		
Taxes Receivable	7,237,500	7,273,800	5,790,000	5,822,400		
<b>Total Current Assets</b>	<b>\$ 33,937,500</b>	<b>\$ 33,973,800</b>	<b>\$ 31,514,293</b>	<b>\$ 31,546,693</b>		
<b>LIABILITIES &amp; FUND EQUITY</b>						
<b>ACCOUNTS PAYABLE &amp; OTHER LIABILITIES</b>	<b>\$ 278,800</b>	<b>\$ 278,800</b>	<b>\$ 378,893</b>	<b>\$ 378,893</b>		
<b>ASSETS APPROPRIABLE FOR 2020 AND 2019</b>						
Net Assets Appropriable		\$ 33,695,000		\$ 31,167,800		
Equity Transfer to Bond and Interest Fund		—		—		
Estimated Revenue		700,000		600,000		
<b>Total Assets Appropriable</b>	<b>\$ 34,395,000</b>			<b>\$ 31,767,800</b>		
<b>FUND EQUITY</b>	<b>\$ 33,658,700</b>			<b>\$ 31,135,400</b>		
<b>Total Liabilities &amp; Fund Equity</b>	<b>\$ 33,937,500</b>			<b>\$ 31,514,293</b>		

**RESERVE CLAIM FUND**  
**APPROPRIABLE REVENUE**  
**2020 - 2017**

REVENUE DESCRIPTION	ESTIMATED		ACTUAL		
	2020 BUDGET	2019 ADJUSTED	2019 BUDGET	2018	2017
Revenue from Taxes					
Real Estate - Current	\$ 7,312,500	\$ 5,850,000	\$ 5,850,000	\$ 5,752,500	\$ 5,655,000
Real Estate - Prior	(38,700)	(27,600)	(27,600)	(21,784)	(28,177)
Replacement Tax	—	—	—	—	—
<b>SUBTOTAL</b>	<b>\$ 7,273,800</b>	<b>\$ 5,822,400</b>	<b>\$ 5,822,400</b>	<b>\$ 5,730,716</b>	<b>\$ 5,626,823</b>
Investment Income & Miscellaneous	700,000	680,352	600,000	465,514	309,988
<b>GRAND TOTAL</b>	<b>\$ 7,973,800</b>	<b>\$ 6,502,752</b>	<b>\$ 6,422,400</b>	<b>\$ 6,196,230</b>	<b>\$ 5,936,811</b>

101 11000 - 69000	Fund: Corporate Department: All	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$178,939,010	\$ 189,425,600	\$ 188,074,500	\$ 126,650,517	\$179,467,600	\$189,124,700	\$ 189,130,500
601060	Compensation Plan Adjustments	7,480,251	7,730,900	8,825,800	6,115,895	7,466,700	9,006,500	8,976,500
601070	Social Security and Medicare Contributions	2,633,667	2,853,500	2,853,500	1,947,285	2,660,300	2,900,500	2,900,500
601080	Salaries of Nonbudgeted Employees	—	5,300	136,400	73,922	147,900	5,300	5,300
601090	Employee Claims	64,171	60,000	110,000	64,974	96,000	100,000	94,100
601100	Tuition and Training Payments	830,198	1,243,400	1,243,500	684,431	1,040,500	1,391,800	1,375,700
601250	Health and Life Insurance Premiums	42,874,277	46,804,400	46,804,400	30,571,333	44,202,600	47,509,500	47,509,500
601270	General Salary Adjustments	—	—	—	—	—	2,390,800	2,390,800
601300	Personal Services, N.O.C.	578,201	788,000	788,000	411,105	721,800	977,000	977,000
100	TOTAL PERSONAL SERVICES	233,399,776	248,911,100	248,836,100	166,519,461	235,803,400	253,406,100	253,359,900
612010	Travel	73,124	111,700	109,000	46,536	83,500	107,600	107,100
612030	Meals and Lodging	194,098	200,700	206,900	128,427	179,300	223,900	223,400
612040	Postage, Freight, and Delivery Charges	110,292	122,900	122,900	96,925	121,000	119,800	119,800
612050	Compensation for Personally- Owned Automobiles	146,366	158,500	158,300	121,421	149,900	155,000	155,000
612080	Motor Vehicle Operating Services	64,782	65,000	65,400	59,193	50,700	65,400	65,400
612090	Reprographic Services	99,192	126,400	141,300	138,887	97,900	78,300	78,300
612150	Electrical Energy	39,114,277	36,770,400	36,770,400	24,700,652	39,456,400	38,686,900	38,686,900
612160	Natural Gas	3,131,449	2,970,200	2,970,200	1,837,988	2,878,000	3,416,200	3,416,200
612170	Water and Water Services	2,045,898	2,120,200	2,120,200	1,467,814	1,986,900	2,195,300	2,195,300
612210	Communication Services	2,030,846	1,578,200	1,664,800	1,629,297	1,571,900	1,531,800	1,531,800
612240	Testing and Inspection Services	189,320	166,700	163,700	137,260	119,900	240,500	240,500
612250	Court Reporting Services	68,591	88,500	91,000	86,021	80,800	91,000	91,000
612260	Medical Services	90,437	121,100	121,100	106,600	109,900	127,600	127,600
612280	Subscriptions and Membership Dues	836,166	961,200	936,200	769,430	931,700	993,300	993,300
612290	Insurance Premiums	2,776,920	3,471,100	3,468,600	1,528,989	3,464,900	3,463,400	3,463,400
612330	Rental Charges	482,499	753,300	717,400	662,093	620,300	690,600	357,600
612340	Discount Lost	1,559	3,000	3,000	1,721	3,000	3,000	3,000
612360	Advertising	92,503	133,000	134,800	102,574	125,000	145,000	145,000
612370	Administration Building Operation	1,145,339	1,313,200	1,382,200	1,381,767	1,105,400	1,314,700	1,314,700
612390	Administration Building McMillan Pavilion Operation	691,856	782,900	828,900	828,775	631,700	782,900	782,900
612400	Intergovernmental Agreements	—	49,600	49,600	49,547	49,600	49,600	49,600
612410	Governmental Service Charges	3,780,003	3,667,100	3,667,100	2,967,681	3,664,200	3,921,200	3,921,200

101 11000 - 69000	Fund: Corporate Department: All	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
612420	Maintenance of Grounds and Pavements	809,111	1,430,900	630,100	543,675	611,100	1,432,900	1,375,800
612430	Payments for Professional Services	3,028,204	4,950,100	4,475,800	3,658,114	3,205,300	5,303,800	5,827,100
612490	Contractual Services, N.O.C.	1,035,071	1,588,000	1,409,300	1,322,538	1,234,500	1,457,100	1,448,100
612520	Waste Material Disposal Charges	9,664,769	10,823,400	11,454,100	11,433,872	9,831,300	10,745,600	10,745,600
612530	Farming Services	20,000	24,000	18,200	18,200	18,200	60,000	60,000
612590	Sludge Disposal	3,785,843	4,100,000	4,100,000	4,100,000	3,700,000	4,100,000	4,100,000
612600	Repairs to Collection Facilities	2,974,998	3,486,100	3,783,900	3,763,343	3,653,700	3,380,500	3,847,800
612620	Repairs to Waterway Facilities	82,678	119,000	113,000	112,715	112,800	120,300	120,300
612650	Repairs to Process Facilities	5,330,334	5,982,800	6,402,800	6,363,984	5,819,300	9,946,100	9,580,300
612670	Repairs to Railroads	312,917	266,900	417,600	302,749	216,000	396,700	396,700
612680	Repairs to Buildings	737,631	1,589,700	1,630,800	1,125,769	1,393,900	1,470,900	1,470,900
612760	Repairs to Material Handling and Farming Equipment	328,799	315,900	315,900	296,422	293,400	310,200	310,200
612780	Safety Repairs and Services	309,763	442,000	502,000	495,936	444,000	446,100	446,100
612790	Repairs to Marine Equipment	96,375	89,000	89,000	88,301	86,400	100,100	100,100
612800	Repairs to Office Furniture and Equipment	101,516	54,500	80,800	73,799	65,700	67,400	67,400
612810	Computer Equipment Maintenance	182,898	340,100	340,100	117,664	174,700	247,500	318,500
612820	Computer Software Maintenance	4,133,437	4,341,200	4,342,100	3,780,973	3,324,000	4,251,800	4,290,800
612840	Communications Equipment Maintenance (Includes Software)	758,251	802,000	752,000	664,550	502,600	699,800	699,800
612860	Repairs to Vehicle Equipment	545,037	588,200	600,800	589,892	493,600	569,500	569,500
612970	Repairs to Testing and Laboratory Equipment	320,241	396,800	396,800	388,062	385,400	339,100	339,100
612990	Repairs, N.O.C.	12,581	38,000	38,000	28,348	31,700	36,300	36,300
200	TOTAL CONTRACTUAL SERVICES	91,735,969	97,503,500	97,786,100	78,118,502	93,079,500	103,884,700	104,219,400
623030	Metals	114,214	134,800	174,800	141,157	165,100	126,100	126,100
623070	Electrical Parts and Supplies	2,726,383	3,006,400	3,156,400	2,926,975	2,946,400	2,849,900	2,701,400
623090	Plumbing Accessories and Supplies	1,002,911	1,178,800	1,147,000	1,003,371	1,073,700	1,123,400	1,123,400
623110	Hardware	97,919	104,100	104,100	96,059	94,000	108,300	108,300
623130	Buildings, Grounds, Paving Materials, and Supplies	441,706	502,400	421,400	276,862	317,900	425,900	425,900
623170	Fiber, Paper, and Insulation Materials	46,502	53,800	63,800	63,650	61,200	76,300	76,300
623190	Paints, Solvents, and Related Materials	54,933	64,300	64,300	47,128	51,300	56,900	56,900
623250	Vehicle Parts and Supplies	165,069	178,400	200,200	198,594	166,000	180,300	180,300
623270	Mechanical Repair Parts	3,611,738	3,849,100	4,107,900	3,618,606	3,475,900	4,099,800	4,099,800

101 11000 - 69000	Fund: Corporate Department: All	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
623300	Manhole Materials	6,045	25,000	25,000	23,743	23,000	5,000	5,000
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	310,312	360,300	373,400	316,692	333,000	370,900	366,700
623530	Farming Supplies	29,382	32,000	27,000	18,466	18,900	19,000	19,000
623560	Processing Chemicals	9,573,111	12,445,500	11,627,100	11,377,817	9,927,700	11,087,300	11,087,300
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	1,009,414	1,068,600	1,050,200	989,148	1,049,000	1,036,000	1,039,200
623660	Cleaning Supplies	259,639	269,400	269,400	252,573	247,800	269,500	269,500
623680	Tools and Supplies	299,873	355,600	374,300	359,803	345,600	333,900	333,900
623700	Wearing Apparel	191,558	245,100	245,100	187,616	214,900	223,000	223,000
623720	Books, Maps, and Charts	17,978	20,100	21,400	15,710	17,600	20,400	20,400
623780	Safety and Medical Supplies	268,514	279,500	279,500	230,695	269,800	357,600	357,600
623800	Computer Software	139,890	138,800	157,200	76,456	82,600	477,000	477,000
623810	Computer Supplies	495,260	766,700	786,700	744,150	645,000	750,200	896,700
623820	Fuel	556,357	631,000	631,000	501,814	516,000	685,100	685,100
623840	Gases	64,181	85,700	85,700	81,875	74,500	84,700	84,700
623850	Communications Supplies	128,238	203,700	256,700	234,848	166,100	324,200	324,200
623860	Lubricants	164,728	234,100	235,700	207,833	217,600	208,600	208,600
623990	Materials and Supplies, N.O.C.	265,558	285,700	281,200	202,152	209,100	241,600	240,600
300	TOTAL MATERIALS AND SUPPLIES	22,041,412	26,518,900	26,166,500	24,193,792	22,709,700	25,540,900	25,536,900
634600	Equipment for Collection Facilities	44,118	60,000	51,700	50,476	50,500	40,000	40,000
634650	Equipment for Process Facilities	175,621	176,700	285,400	279,533	168,500	274,000	274,000
634670	Railroad Equipment	—	—	20,800	20,779	20,800	—	—
634760	Material Handling and Farming Equipment	11,627	467,200	404,000	373,612	378,000	44,500	44,500
634790	Marine Equipment	—	80,000	80,000	78,500	78,500	—	—
634810	Computer Equipment	5,680	202,000	145,100	145,066	144,400	200,000	115,500
634820	Computer Software	14,200	207,000	307,000	97,000	129,200	727,000	727,000
634840	Communications Equipment (Includes Software)	14,680	—	—	—	—	24,000	24,000
634860	Vehicle Equipment	—	2,099,000	2,092,000	1,956,751	1,868,600	1,411,000	1,411,000
634970	Testing and Laboratory Equipment	359,420	384,300	494,300	490,402	419,600	53,000	53,000
634990	Machinery and Equipment, N.O.C.	11,225	130,800	139,500	44,219	38,600	337,500	337,500
400	TOTAL MACHINERY AND EQUIPMENT	636,571	3,807,000	4,019,800	3,536,338	3,296,700	3,111,000	3,026,500
645680	Buildings	—	117,000	109,000	98,500	102,000	—	75,000
500	TOTAL CAPITAL PROJECTS	—	117,000	109,000	98,500	102,000	—	75,000

101 11000 - 69000	Fund: Corporate Department: All	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
667130 700	Taxes on Real Estate	683,013	755,000	695,000	682,846	683,000	755,000	755,000
	TOTAL FIXED AND OTHER CHARGES	683,013	755,000	695,000	682,846	683,000	755,000	755,000
TOTAL CORPORATE FUND		\$348,496,742	\$ 377,612,500	\$ 377,612,500	\$ 273,149,440	\$355,674,300	\$386,697,700	\$ 386,972,700

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 11000	Fund: Corporate Department: Board of Commissioners	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 3,426,857	\$ 3,712,400	\$ 3,712,400	\$ 2,447,468	\$ 3,463,800	\$ 3,577,400	\$ 3,577,400
601060	Compensation Plan Adjustments	35,748	54,900	54,900	5,967	20,000	47,300	47,300
601070	Social Security and Medicare Contributions	78,550	86,700	86,700	53,891	74,600	88,000	88,000
601100	Tuition and Training Payments	11,337	20,100	20,100	13,305	19,000	19,900	19,900
601300	Personal Services, N.O.C.	327,365	428,000	428,000	232,875	361,800	517,000	517,000
100	TOTAL PERSONAL SERVICES	3,879,857	4,302,100	4,302,100	2,753,505	3,939,200	4,249,600	4,249,600
612010	Travel	11,274	19,700	19,700	3,714	16,000	26,000	26,000
612030	Meals and Lodging	16,321	21,700	21,700	12,150	19,000	32,500	32,500
612280	Subscriptions and Membership Dues	19,260	27,700	27,700	27,700	27,700	27,700	27,700
612430	Payments for Professional Services	218,364	858,800	858,700	846,008	725,000	890,100	890,100
612490	Contractual Services, N.O.C.	435	500	600	560	600	800	800
200	TOTAL CONTRACTUAL SERVICES	265,653	928,400	928,400	890,132	788,300	977,100	977,100
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	2,859	25,500	25,500	4,637	18,000	15,500	15,500
300	TOTAL MATERIALS AND SUPPLIES	2,859	25,500	25,500	4,637	18,000	15,500	15,500
TOTAL BOARD OF COMMISSIONERS		\$ 4,148,369	\$ 5,256,000	\$ 5,256,000	\$ 3,648,274	\$ 4,745,500	\$ 5,242,200	\$ 5,242,200

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						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 10,426,621	\$ 11,019,100	\$ 11,019,100	\$ 7,516,882	\$ 10,620,000	\$ 11,351,400	\$ 11,351,400
601060	Compensation Plan Adjustments	634,874	666,700	666,700	499,163	637,300	774,200	774,200
601070	Social Security and Medicare Contributions	154,919	162,100	162,100	115,767	158,600	165,000	165,000
601100	Tuition and Training Payments	14,549	33,000	33,000	18,043	18,200	44,500	44,500
601270	General Salary Adjustments	—	—	—	—	—	2,390,800	2,390,800
100	TOTAL PERSONAL SERVICES	11,230,963	11,880,900	11,880,900	8,149,853	11,434,100	14,725,900	14,725,900
612010	Travel	5,427	10,000	10,000	6,492	7,500	9,000	9,000
612030	Meals and Lodging	12,944	17,200	17,200	11,812	12,000	18,100	18,100
612040	Postage, Freight, and Delivery Charges	101,342	109,700	109,700	84,640	109,600	109,700	109,700
612050	Compensation for Personally- Owned Automobiles	3,515	3,700	3,700	3,521	5,500	4,100	4,100
612080	Motor Vehicle Operating Services	63,757	62,700	62,700	58,351	48,900	63,100	63,100
612090	Reproductive Services	93,298	103,400	118,300	117,559	91,000	55,300	55,300
612150	Electrical Energy	325,538	325,200	325,200	193,609	318,300	325,200	325,200
612160	Natural Gas	26,981	24,900	24,900	14,793	21,200	24,900	24,900
612170	Water and Water Services	6,142	6,500	6,500	4,551	6,400	6,500	6,500
612210	Communication Services	3,000	3,000	3,000	1,500	1,500	—	—
612280	Subscriptions and Membership Dues	816,906	933,500	908,500	741,730	904,000	965,600	965,600
612330	Rental Charges	8,353	93,500	93,500	57,413	57,600	71,000	71,000
612360	Advertising	9,938	13,000	13,000	1,750	12,500	15,000	15,000
612370	Administration Building Operation	1,145,339	1,313,200	1,382,200	1,381,767	1,105,400	1,314,700	1,314,700
612390	Administration Building McMillan Pavilion Operation	691,856	782,900	828,900	828,775	631,700	782,900	782,900
612430	Payments for Professional Services	378,805	324,000	256,800	256,776	250,100	324,000	524,000
612490	Contractual Services, N.O.C.	283,186	331,800	331,800	315,357	282,300	337,000	337,000
612680	Repairs to Buildings	2,800	566,300	502,300	6,000	425,000	77,400	77,400
612800	Repairs to Office Furniture and Equipment	95,017	47,900	74,200	72,599	59,200	60,800	60,800
612840	Communications Equipment Maintenance (Includes Software)	31,239	22,800	22,800	22,784	21,100	22,800	22,800
612860	Repairs to Vehicle Equipment	382,318	440,500	440,500	429,770	355,100	417,000	417,000
200	TOTAL CONTRACTUAL SERVICES	4,487,699	5,535,700	5,535,700	4,611,550	4,725,900	5,004,100	5,204,100
623070	Electrical Parts and Supplies	4,344	8,600	8,600	7,600	7,800	8,600	8,600
623090	Plumbing Accessories and Supplies	19,249	8,500	8,500	7,000	7,900	8,500	8,500
623110	Hardware	14,400	16,000	16,000	15,219	13,900	16,000	16,000

101 15000	Fund: Corporate Department: General Administration	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
623130	Buildings, Grounds, Paving Materials, and Supplies	933	—	—	—	—	—	—
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	102,407	136,600	136,600	126,840	121,100	155,100	155,100
623660	Cleaning Supplies	967	1,300	1,300	1,000	1,200	1,300	1,300
623700	Wearing Apparel	27,845	53,400	53,400	44,687	41,800	37,500	37,500
623720	Books, Maps, and Charts	44	1,000	1,000	263	900	1,000	1,000
623850	Communications Supplies	—	25,000	25,000	21,861	25,000	150,000	150,000
623990	Materials and Supplies, N.O.C.	32,165	52,000	52,000	23,166	27,000	47,200	47,200
300	TOTAL MATERIALS AND SUPPLIES	202,355	302,400	302,400	247,636	246,600	425,200	425,200
634860	Vehicle Equipment	—	900,000	900,000	764,992	677,300	900,000	900,000
634990	Machinery and Equipment, N.O.C.	—	94,800	94,800	—	—	250,000	250,000
400	TOTAL MACHINERY AND EQUIPMENT	—	994,800	994,800	764,992	677,300	1,150,000	1,150,000
TOTAL GENERAL ADMINISTRATION		\$ 15,921,017	\$ 18,713,800	\$ 18,713,800	\$ 13,774,031	\$ 17,083,900	\$ 21,305,200	\$ 21,505,200
<p>NOTES: 1. Amounts may not add up due to rounding.</p> <p>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.</p> <p>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.</p>								

101 16000	Fund: Corporate Department: Monitoring & Research	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 26,765,317	\$ 28,311,400	\$ 28,256,300	\$ 18,987,443	\$ 26,802,100	\$ 28,171,700	\$ 28,171,700
601060	Compensation Plan Adjustments	944,953	819,500	819,500	309,737	639,700	823,900	823,900
601070	Social Security and Medicare Contributions	375,280	411,500	411,500	279,181	382,000	425,900	425,900
601080	Salaries of Nonbudgeted Employees	—	—	55,100	55,082	55,100	—	—
601100	Tuition and Training Payments	47,193	77,700	77,700	58,776	75,000	27,800	27,800
100	TOTAL PERSONAL SERVICES	28,132,743	29,620,100	29,620,100	19,690,219	27,953,900	29,449,300	29,449,300
612010	Travel	16,338	18,000	18,300	13,860	16,000	10,500	10,000
612030	Meals and Lodging	41,139	39,700	41,900	25,663	35,000	22,000	21,500
612040	Postage, Freight, and Delivery Charges	5,595	8,700	8,700	8,599	8,000	5,700	5,700
612050	Compensation for Personally-Owned Automobiles	24,236	27,400	27,400	18,465	25,700	17,700	17,700
612080	Motor Vehicle Operating Services	529	300	500	230	300	300	300
612170	Water and Water Services	578	—	—	—	—	—	—
612330	Rental Charges	—	1,300	1,300	—	900	1,100	1,100
612400	Intergovernmental Agreements	—	49,600	49,600	49,547	49,600	49,600	49,600
612410	Governmental Service Charges	17,000	17,000	17,000	13,600	17,000	17,000	17,000
612430	Payments for Professional Services	62,528	92,400	92,400	88,610	82,400	334,400	334,400
612490	Contractual Services, N.O.C.	169,169	335,600	222,900	210,450	214,600	258,600	249,600
612790	Repairs to Marine Equipment	29,839	24,000	24,000	23,301	24,000	33,600	33,600
612820	Computer Software Maintenance	—	—	—	—	—	—	9,000
612970	Repairs to Testing and Laboratory Equipment	317,649	391,800	391,800	384,626	380,400	333,600	333,600
200	TOTAL CONTRACTUAL SERVICES	684,599	1,005,800	895,800	836,949	853,900	1,084,100	1,083,100
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	26,356	30,000	35,000	32,947	33,200	20,300	19,100
623530	Farming Supplies	25,982	28,000	23,000	15,500	15,400	15,000	15,000
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	321,179	415,000	396,600	350,590	396,000	337,100	340,300
623700	Wearing Apparel	13,033	12,600	12,600	12,000	12,000	16,300	16,300
623720	Books, Maps, and Charts	450	600	600	326	400	400	400
623800	Computer Software	—	—	18,400	18,340	—	—	—
623810	Computer Supplies	2,054	500	500	—	—	—	—
623820	Fuel	11,508	13,800	13,800	13,755	13,600	18,000	18,000

101 16000	Fund: Corporate Department: Monitoring & Research	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
623990	Materials and Supplies, N.O.C.	30,642	37,600	37,600	34,087	33,700	53,200	52,200
300	TOTAL MATERIALS AND SUPPLIES	431,204	538,100	538,100	477,545	504,300	460,300	461,300
634820	Computer Software	—	—	—	—	—	500,000	500,000
634970	Testing and Laboratory Equipment	328,928	384,300	494,300	490,402	419,600	53,000	53,000
400	TOTAL MACHINERY AND EQUIPMENT	328,928	384,300	494,300	490,402	419,600	553,000	553,000
TOTAL MONITORING & RESEARCH		\$ 29,577,473	\$ 31,548,300	\$ 31,548,300	\$ 21,495,116	\$ 29,731,700	\$ 31,546,700	\$ 31,546,700

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.

Fund: Corporate Dept: Monitoring & Research		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
<b>110</b>	<b>Executive Division</b>					
<b>111</b>	<b>Executive Section</b>					
EX11	Director of Monitoring & Research	1	1		1	
EX06	Secretary to Officer	1	1		1	
HP12	Secretary #2 (Administrative Specialist) (New Grade HP11)	—	1		1	
HP11	Administrative Specialist	1	—		—	
TOTAL 111	Executive Section	3	3	460,194	3	460,194
<b>112</b>	<b>Budget &amp; Administrative Section</b>					
HP22	Assistant Director of Monitoring & Research	1	1		1	
HP18	Supervising Budget & Management Analyst	1	1		1	
HP16	Senior Budget & Management Analyst	1	1		1	
HP14	Budget & Management Analyst	2	2		2	
HP11	Administrative Specialist	1	1		1	
TOTAL 112	Budget & Administrative Section	6	6	750,713	6	766,072
TOTAL 110	Executive Division	9	9	1,210,907	9	1,226,266
<b>120</b>	<b>Environmental Monitoring &amp; Research Division</b>					
<b>121</b>	<b>Environmental Monitoring &amp; Research Administrative Section</b>					
HP22	Assistant Director of Monitoring & Research	1	1		1	
HP20	Environmental Monitoring & Research Manager	1	1		1	
HP20	Managing Civil Engineer	1	1		—	
HP18	Biostatistician	1	1		1	
HP18	Principal Environmental Scientist	—	2		—	
HP15	Associate Civil Engineer	1	1		1	
HP13	Senior Administrative Specialist	2	2		2	
HP11	Administrative Specialist	4	4		3	
TOTAL 121	Environmental Monitoring & Research Administrative Section	11	13	1,586,356	9	1,105,107
<b>122</b>	<b>Wastewater Treatment Operations Support Section (formerly Wastewater Treatment Process Research Section)</b>					
HP18	Principal Environmental Scientist	1	1		—	

Fund: Corporate Dept: Monitoring & Research		POSITION ANALYSIS				
		2018	2019	2020		
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
HP17	Senior Environmental Research Scientist	3	3		2	
HP15	Environmental Research Scientist	3	3		1	
HP13	Senior Environmental Research Technician	1	1		—	
HP11	Environmental Research Technician	6	7		—	
HP10	Laboratory Technician I	1	—		—	
TOTAL 122	Wastewater Treatment Operations Support Section (formerly Wastewater Treatment Process Research Section)	15	15	1,341,396	3	382,206
<b>123</b>	<b>Biosolids Section (formerly Biosolids Utilization &amp; Soil Science Section)</b>					
HP18	Principal Environmental Scientist	1	1		1	
HP17	Senior Environmental Soil Scientist	1	2		2	
HP15	Environmental Soil Scientist	3	3		2	
HP15	Environmental Chemist	1	1		—	
HP15	Environmental Chemist #2 (Senior Environmental Research Technician)	—	—		1	
HP11	Environmental Research Technician	5	5		6	
HP09	Laboratory Assistant	1	1		1	
TOTAL 123	Biosolids Section (formerly Biosolids Utilization & Soil Science Section)	12	13	1,209,652	13	1,105,856
<b>124</b>	<b>Microbiology Section (formerly Analytical Microbiology &amp; Biomonitoring Section)</b>					
HP18	Principal Environmental Scientist	1	1		1	
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	
HP13	Senior Laboratory Technician	1	1		1	
HP11	Laboratory Technician II	7	8		7	
HP11	Laboratory Technician II #4	1	—		—	
HP09	Laboratory Assistant	2	2		2	
TOTAL 124	Microbiology Section (formerly Analytical Microbiology & Biomonitoring Section)	15	15	1,186,878	14	1,149,286

Fund: Corporate Dept: Monitoring & Research		POSITION ANALYSIS				
		2018	2019	2020		
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
126	<b>Aquatic Ecology Section (formerly Aquatic Ecology &amp; Water Quality Section)</b>					
HP18	Principal Environmental Scientist	1	1		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		1	
HP14	Assistant Aquatic Biologist #1	1	—		—	
HP13	Senior Environmental Research Technician	1	1		1	
HP11	Environmental Research Technician	5	5		4	
NR6441	Patrol Boat Operator	2	2		2	
NR3642	Pollution Control Technician II	2	2		2	
NR3641	Pollution Control Technician I	4	4		4	
TOTAL 126	Aquatic Ecology Section (formerly Aquatic Ecology & Water Quality Section)	20	19	1,585,238	18	1,545,503
129	<b>Wastewater Capital Planning, Research, and Technology Evaluation Section (formerly Process Facilities Capital Planning Section)</b>					
HP20	Managing Civil Engineer	—	—		1	
HP18	Principal Civil Engineer	1	1		1	
HP18	Principal Environmental Scientist	—	—		2	
HP17	Senior Civil Engineer	2	2		2	
HP17	Senior Electrical Engineer	1	—		—	
HP17	Senior Environmental Research Scientist	2	3		4	
HP17	Senior Mechanical Engineer	2	1		1	
HP15	Associate Civil Engineer	2	1		1	
HP15	Associate Electrical Engineer	2	—		—	
HP15	Associate Mechanical Engineer	2	1		1	
HP15	Environmental Research Scientist	2	2		3	
HP13	Senior Environmental Research Technician	—	—		2	

Fund: Corporate Dept: Monitoring & Research		POSITION ANALYSIS				
		2018	2019	2020		
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
HP11	Environmental Research Technician	—	—		6	
HP11	Environmental Research Technician #1	—	—		1	
TOTAL 129	Wastewater Capital Planning, Research, and Technology Evaluation Section (formerly Process Facilities Capital Planning Section)	16	11	1,316,192	25	2,622,853
TOTAL 120	Environmental Monitoring & Research Division	89	86	8,225,713	82	7,910,811
<b>160</b>	<b>Analytical Laboratories Division</b>					
<b>161</b>	<b>Analytical Laboratories Administrative Section</b>					
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	2	2		2	
HP13	Senior Administrative Specialist	1	2		2	
HP11	Administrative Specialist	1	—		—	
TOTAL 161	Analytical Laboratories Administrative Section	8	7	813,784	7	801,394
<b>162</b>	<b>Stickney Analytical Laboratory Section</b>					
HP18	Supervising Environmental Chemist	1	1		1	
HP17	Senior Environmental Chemist	2	2		2	
HP15	Environmental Chemist	5	4		4	
HP13	Senior Laboratory Technician	3	3		3	
HP11	Administrative Specialist	1	1		1	
HP11	Laboratory Technician II	9	11		11	
HP10	Laboratory Technician I	2	—		—	
HP10	Laboratory Technician I #1	—	2		1	
HP09	Laboratory Assistant	3	2		2	
TOTAL 162	Stickney Analytical Laboratory Section	26	26	2,059,646	25	2,090,742
<b>164</b>	<b>Industrial Waste Analytical Laboratory Section</b>					
HP18	Supervising Environmental Chemist	1	1		1	
HP17	Senior Environmental Chemist	2	2		2	

Fund: Corporate Dept: Monitoring & Research		POSITION ANALYSIS			
		2018	2019		2020
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Recommended By Committee on Budget / Employment
HP15	Environmental Chemist	5	4		4
HP14	Assistant Environmental Chemist #1	1	—		—
HP13	Senior Laboratory Technician	3	3		3
HP11	Laboratory Technician II	12	10		10
HP09	Laboratory Assistant	1	2		2
TOTAL 164	Industrial Waste Analytical Laboratory Section	25	22	1,894,794	22
<b>165</b>	<b>Organic Compounds Analytical Laboratory Section</b>				
HP18	Supervising Instrumentation Chemist	1	1		1
HP17	Senior Instrumentation Chemist	2	2		2
HP16	Instrumentation Chemist II #2 (Environmental Chemist) (New Grade HP15)	—	—		2
HP16	Instrumentation Chemist II #2 (Instrumentation Chemist) (New Grade HP15)	2	2		—
HP15	Environmental Chemist	—	—		2
HP15	Instrumentation Chemist	2	2		—
HP13	Senior Laboratory Technician	1	1		1
HP11	Laboratory Technician II	2	3		3
TOTAL 165	Organic Compounds Analytical Laboratory Section	10	11	1,184,211	11
<b>166</b>	<b>Egan Analytical Laboratory Section</b>				
HP18	Supervising Environmental Chemist	1	1		1
HP17	Senior Environmental Chemist	2	2		2
HP15	Environmental Chemist	4	3		3
HP14	Assistant Environmental Chemist #1	1	—		—
HP13	Senior Laboratory Technician	1	2		2
HP13	Senior Laboratory Technician #1	1	—		—
HP12	Administrative Assistant #2 (Administrative Specialist) (New Grade HP11)	1	1		1
HP11	Laboratory Technician II	6	7		7
HP11	Laboratory Technician II #4	1	1		1

Fund: Corporate Dept: Monitoring & Research		POSITION ANALYSIS			
		2018	2019		2020
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Recommended By Committee on Budget / Employment
HP10	Laboratory Technician I	1	—		—
HP09	Laboratory Assistant	2	2		2
TOTAL 166	Egan Analytical Laboratory Section	21	19	1,562,844	19
<b>167</b>	<b>Calumet Analytical Laboratory Section</b>				
HP18	Supervising Environmental Chemist	1	1		1
HP17	Senior Environmental Chemist	2	2		2
HP15	Environmental Chemist	4	3		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	8		8
HP09	Laboratory Assistant	2	2		2
TOTAL 167	Calumet Analytical Laboratory Section	19	19	1,592,335	19
TOTAL 160	Analytical Laboratories Division	109	104	9,107,614	103
<b>190</b>	<b>Industrial Waste Division</b>				
<b>191</b>	<b>Industrial Waste Administrative Section</b>				
HP22	Assistant Director of Monitoring & Research	1	1		1
HP11	Administrative Specialist	1	1		1
TOTAL 191	Industrial Waste Administrative Section	2	2	307,165	2
<b>192</b>	<b>Technical Services Section</b>				
HP18	Supervising Environmental Specialist	—	1		1
HP17	Senior Environmental Specialist	1	1		1
HP15	Environmental Specialist	2	2		5
HP11	Administrative Specialist	—	—		1
NR3642	Pollution Control Technician II	—	—		2
TOTAL 192	Technical Services Section	3	4	454,429	10
<b>193</b>	<b>Pretreatment &amp; Cost Recovery Section</b>				
HP18	Supervising Environmental Specialist	2	2		2
HP17	Senior Civil Engineer	1	1		1

Fund: Corporate Dept: Monitoring & Research		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
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	—		—	
HP11	Administrative Specialist	2	3		2	
HP09	Administrative Clerk	2	2		2	
TOTAL 193	Pretreatment & Cost Recovery Section	35	35	3,636,667	34	3,663,830
<b>194</b>	<b>Field Services Section</b>					
HP18	Supervising Environmental Specialist	1	1		2	
HP17	Senior Environmental Specialist	5	5		4	
HP15	Environmental Specialist	29	29		26	
HP13	Senior Administrative Specialist	1	1		1	
HP11	Administrative Specialist	1	1		1	
NR3642	Pollution Control Technician II	2	2		—	
NR3641	Pollution Control Technician I	21	21		20	
TOTAL 194	Field Services Section	60	60	5,528,040	54	5,053,390
TOTAL 190	Industrial Waste Division	100	101	9,926,302	100	9,993,123
TOTAL	Monitoring & Research	307	300	28,470,536	294	28,378,895

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. Dollar amounts may not add up due to rounding.

101 20000	Fund: Corporate Department: Procurement & Materials Management	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 5,276,249	\$ 5,714,700	\$ 5,714,700	\$ 3,862,611	\$ 5,466,700	\$ 5,797,000	\$ 5,797,000
601060	Compensation Plan Adjustments	76,190	80,600	80,500	18,569	78,800	87,300	87,300
601070	Social Security and Medicare Contributions	74,651	84,100	84,100	56,015	76,400	86,100	86,100
601100	Tuition and Training Payments	1,140	600	700	645	700	1,000	1,000
100	TOTAL PERSONAL SERVICES	5,428,230	5,880,000	5,880,000	3,937,840	5,622,600	5,971,400	5,971,400
612010	Travel	535	1,500	1,500	—	200	600	600
612030	Meals and Lodging	871	800	800	10	100	700	700
612050	Compensation for Personally- Owned Automobiles	844	1,100	1,100	657	900	1,200	1,200
612360	Advertising	82,565	120,000	120,000	100,370	110,700	123,000	123,000
612430	Payments for Professional Services	—	15,000	—	—	—	—	—
612490	Contractual Services, N.O.C.	415	—	—	—	—	—	—
612680	Repairs to Buildings	5,341	8,400	118,600	118,589	113,600	101,800	101,800
612800	Repairs to Office Furniture and Equipment	1,578	1,600	1,600	1,200	1,500	1,600	1,600
612820	Computer Software Maintenance	—	—	—	—	—	20,000	20,000
612840	Communications Equipment Maintenance (Includes Software)	—	—	—	—	—	2,500	2,500
612860	Repairs to Vehicle Equipment	8,856	7,100	7,100	7,043	6,700	8,900	8,900
200	TOTAL CONTRACTUAL SERVICES	101,005	155,500	250,700	227,868	233,700	260,300	260,300
623030	Metals	85,144	104,300	138,300	107,128	133,100	95,600	95,600
623070	Electrical Parts and Supplies	255,153	303,100	303,100	257,106	278,900	280,300	280,300
623090	Plumbing Accessories and Supplies	329,053	342,500	342,500	310,001	318,500	345,800	345,800
623110	Hardware	76,254	79,800	79,800	74,054	72,600	81,400	81,400
623130	Buildings, Grounds, Paving Materials, and Supplies	328,247	356,500	271,500	140,400	186,800	278,100	278,100
623170	Fiber, Paper, and Insulation Materials	41,861	42,700	52,700	52,634	51,700	62,800	62,800
623190	Paints, Solvents, and Related Materials	48,509	51,300	51,300	34,464	45,200	50,500	50,500
623250	Vehicle Parts and Supplies	11,871	10,400	13,400	13,046	13,400	12,300	12,300
623270	Mechanical Repair Parts	223,416	237,500	237,500	121,631	204,200	225,300	225,300
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	10,548	15,000	20,000	16,458	19,200	13,400	13,400
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	667,866	625,000	625,000	612,443	625,000	668,000	668,000
623660	Cleaning Supplies	255,488	265,900	265,900	249,791	244,600	266,000	266,000

101 20000	Fund: Corporate Department: Procurement & Materials Management	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
623680	Tools and Supplies	77,566	100,000	110,000	107,723	103,500	100,500	100,500
623700	Wearing Apparel	144,111	175,000	175,000	130,684	157,500	165,100	165,100
623780	Safety and Medical Supplies	70,612	71,300	71,300	68,864	68,500	72,800	72,800
623810	Computer Supplies	45,501	40,000	60,000	50,305	58,000	57,200	57,200
623820	Fuel	232,316	285,000	285,000	157,085	228,000	339,200	339,200
623840	Gases	64,123	85,100	85,100	81,275	74,000	84,100	84,100
623850	Communications Supplies	4,911	7,400	10,400	10,174	10,400	7,200	7,200
623860	Lubricants	157,405	226,400	226,400	199,625	210,500	200,400	200,400
623990	Materials and Supplies, N.O.C.	41,312	72,200	72,200	47,632	62,100	42,000	42,000
300	TOTAL MATERIALS AND SUPPLIES	3,171,267	3,496,400	3,496,400	2,842,523	3,165,700	3,448,000	3,448,000
634650	Equipment for Process Facilities	19,752	—	—	—	—	—	—
634760	Material Handling and Farming Equipment	11,627	117,200	85,000	80,622	85,000	—	—
634810	Computer Equipment	—	55,000	—	—	—	—	—
634820	Computer Software	—	—	140,000	—	32,200	130,000	130,000
400	TOTAL MACHINERY AND EQUIPMENT	31,379	172,200	225,000	80,622	117,200	130,000	130,000
645680	Buildings	—	117,000	109,000	98,500	102,000	—	75,000
500	TOTAL CAPITAL PROJECTS	—	117,000	109,000	98,500	102,000	—	75,000
TOTAL PROCUREMENT & MATERIALS MANAGEMENT		\$ 8,731,880	\$ 9,821,100	\$ 9,961,100	\$ 7,187,353	\$ 9,241,200	\$ 9,809,700	\$ 9,884,700

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 25000	Fund: Corporate Department: Human Resources	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 5,666,384	\$ 6,802,900	\$ 6,802,900	\$ 4,127,447	\$ 5,848,000	\$ 6,721,500	\$ 6,721,500
601060	Compensation Plan Adjustments	138,843	315,800	265,800	130,335	164,500	287,000	257,000
601070	Social Security and Medicare Contributions	100,170	140,300	140,300	75,782	102,200	143,300	143,300
601090	Employee Claims	64,171	60,000	110,000	64,974	96,000	100,000	94,100
601100	Tuition and Training Payments	449,883	709,800	709,800	394,674	613,200	895,500	879,400
601250	Health and Life Insurance Premiums	42,874,277	46,804,400	46,804,400	30,571,333	44,202,600	47,509,500	47,509,500
601300	Personal Services, N.O.C.	250,837	360,000	360,000	178,230	360,000	460,000	460,000
100	TOTAL PERSONAL SERVICES	49,544,566	55,193,200	55,193,200	35,542,774	51,386,500	56,116,800	56,064,800
612010	Travel	3,555	5,200	5,200	3,465	5,000	6,400	6,400
612030	Meals and Lodging	9,491	17,300	17,300	7,054	17,300	15,700	15,700
612040	Postage, Freight, and Delivery Charges	216	—	—	—	—	—	—
612050	Compensation for Personally- Owned Automobiles	329	1,100	1,100	331	600	1,100	1,100
612080	Motor Vehicle Operating Services	—	100	100	49	100	100	100
612250	Court Reporting Services	11,822	11,500	14,000	14,000	14,000	16,000	16,000
612260	Medical Services	90,437	121,100	121,100	106,600	109,900	127,600	127,600
612290	Insurance Premiums	2,776,920	3,471,100	3,468,600	1,528,989	3,464,900	3,463,400	3,463,400
612330	Rental Charges	10,062	21,500	21,500	17,445	21,500	13,500	13,500
612360	Advertising	—	—	1,800	454	1,800	7,000	7,000
612430	Payments for Professional Services	884,497	1,004,900	943,100	694,199	849,200	1,072,500	1,097,500
612490	Contractual Services, N.O.C.	37,787	72,100	72,100	59,842	70,100	83,500	83,500
612780	Safety Repairs and Services	98,719	107,500	167,500	162,391	167,400	109,500	109,500
612820	Computer Software Maintenance	—	—	—	—	—	—	30,000
200	TOTAL CONTRACTUAL SERVICES	3,923,834	4,833,400	4,833,400	2,594,819	4,721,800	4,916,300	4,971,300
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	43,894	30,500	30,500	29,371	30,500	47,500	44,500
623720	Books, Maps, and Charts	4,600	500	500	—	500	500	500
623780	Safety and Medical Supplies	142,846	166,500	166,500	129,186	166,500	241,100	241,100
623990	Materials and Supplies, N.O.C.	2,564	5,500	5,500	4,779	5,000	7,000	7,000
300	TOTAL MATERIALS AND SUPPLIES	193,904	203,000	203,000	163,336	202,500	296,100	293,100
634820	Computer Software	14,200	—	—	—	—	—	—
400	TOTAL MACHINERY AND EQUIPMENT	14,200	—	—	—	—	—	—
TOTAL HUMAN RESOURCES		\$ 53,676,504	\$ 60,229,600	\$ 60,229,600	\$ 38,300,930	\$ 56,310,800	\$ 61,329,200	\$ 61,329,200

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						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 7,790,836	\$ 8,352,500	\$ 8,352,500	\$ 5,446,747	\$ 7,700,000	\$ 8,430,200	\$ 8,331,900
601060	Compensation Plan Adjustments	107,874	234,400	234,400	148,651	158,000	270,800	270,800
601070	Social Security and Medicare Contributions	108,839	121,600	121,600	79,010	107,600	122,700	122,700
601100	Tuition and Training Payments	46,816	38,000	38,000	10,530	12,500	48,500	48,500
100	TOTAL PERSONAL SERVICES	8,054,364	8,746,500	8,746,500	5,684,939	7,978,100	8,872,200	8,773,900
612010	Travel	881	2,000	3,000	1,785	2,500	2,000	2,000
612030	Meals and Lodging	684	5,000	5,000	3,766	4,500	5,000	5,000
612040	Postage, Freight, and Delivery Charges	1,179	1,500	1,500	1,500	1,400	1,500	1,500
612050	Compensation for Personally- Owned Automobiles	1,262	1,500	1,500	851	1,200	1,500	1,500
612210	Communication Services	1,101,668	1,575,200	1,658,800	1,624,880	1,570,400	1,528,800	1,528,800
612330	Rental Charges	314,004	475,500	439,600	437,107	394,800	433,000	100,000
612430	Payments for Professional Services	229,862	1,280,800	1,132,100	640,813	472,000	819,800	1,118,100
612490	Contractual Services, N.O.C.	9,675	10,000	10,000	5,150	5,200	10,000	10,000
612810	Computer Equipment Maintenance	182,898	340,100	340,100	117,664	174,700	247,500	318,500
612820	Computer Software Maintenance	4,124,260	4,333,700	4,333,700	3,772,577	3,315,600	4,222,800	4,222,800
612840	Communications Equipment Maintenance (Includes Software)	723,892	779,200	729,200	641,766	481,500	674,500	674,500
200	TOTAL CONTRACTUAL SERVICES	6,690,265	8,804,500	8,654,500	7,247,860	6,423,800	7,946,400	7,982,700
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	13,348	15,500	15,500	13,928	12,200	15,500	15,500
623800	Computer Software	120,651	99,700	99,700	23,767	49,100	390,000	390,000
623810	Computer Supplies	412,737	556,200	609,200	583,137	474,200	656,400	802,900
623850	Communications Supplies	118,427	156,300	206,300	188,030	115,900	152,000	152,000
300	TOTAL MATERIALS AND SUPPLIES	665,164	827,700	930,700	808,863	651,400	1,213,900	1,360,400
634810	Computer Equipment	5,680	7,000	7,000	7,000	6,300	200,000	115,500
634820	Computer Software	—	207,000	167,000	97,000	97,000	97,000	97,000
634840	Communications Equipment (Includes Software)	14,680	—	—	—	—	24,000	24,000
400	TOTAL MACHINERY AND EQUIPMENT	20,360	214,000	174,000	104,000	103,300	321,000	236,500
TOTAL INFORMATION TECHNOLOGY		\$ 15,430,153	\$ 18,592,700	\$ 18,505,700	\$ 13,845,662	\$ 15,156,600	\$ 18,353,500	\$ 18,353,500

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.

Fund: Corporate Dept: Information Technology		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
270	<b>Executive Division</b>					
271	<b>Executive Section</b>					
EX17	Director of Information Technology	1	1		1	
EX06	Secretary to Officer	1	1		1	
HP16	Senior Budget & Management Analyst	—	—		1	
TOTAL 271	Executive Section	2	2	346,584	3	445,265
275	<b>Project Management Office Section</b>					
HP19	Project Management Office Manager	1	1		1	
HP18	Senior Project Manager	—	1		1	
HP16	Applications Administrator	1	—		—	
HP16	Applications Administrator #2 (Project Manager)	—	1		1	
HP16	Project Manager	—	2		1	
HP16	Senior Business Analyst	1	—		—	
HP14	Business Analyst	1	1		1	
TOTAL 275	Project Management Office Section	4	6	665,579	5	589,338
TOTAL 270	Executive Division	6	8	1,012,163	8	1,034,603
280	<b>Enterprise Infrastructure Division - MOB</b>					
281	<b>Enterprise Infrastructure Administration Section - MOB</b>					
HP20	Assistant Director of Information Technology	1	1		2	
HP19	Information Technology Manager	2	3		2	
HP11	Administrative Specialist	1	1		1	
TOTAL 281	Enterprise Infrastructure Administration Section - MOB	4	5	664,987	5	689,419
282	<b>Network Management Unit - MOB</b>					
HP18	Senior Systems Administrator	1	1		1	
HP18	Senior Systems Administrator #1	1	1		1	
HP17	Computer Systems Administrator #2 (Systems Administrator) (New Grade HP16)	3	3		3	
HP17	Senior Systems Programmer #2 (Systems Administrator) (New Grade HP16)	1	1		1	

Fund: Corporate Dept: Information Technology		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
HP16	Systems Administrator	1	1		1	
TOTAL 282	Network Management Unit - MOB	7	7	952,715	7	963,920
<b>283</b>	<b>Network Infrastructure Unit - MOB</b>					
HP18	Senior Network Engineer	1	1		1	
HP16	Network Engineer	4	4		4	
HP14	Network Analyst	—	1		1	
NR1541	Telecommunications Specialist	1	—		—	
NR1541	Telecommunications Specialist #1	—	1		1	
TOTAL 283	Network Infrastructure Unit - MOB	6	7	794,580	7	801,899
<b>285</b>	<b>IT Service Desk Unit - MOB</b>					
HP15	IT Support Coordinator	1	1		1	
HP12	Systems Support Specialist II #2 (IT Support Analyst I) (New Grade HP11)	1	1		1	
HP11	IT Support Analyst I	2	2		2	
TOTAL 285	IT Service Desk Unit - MOB	4	4	287,621	4	289,361
<b>286</b>	<b>Desktop Engineering Unit - MOB</b>					
HP18	Senior Desktop Engineer	1	1		1	
HP17	Computer Systems Administrator #2 (Desktop Engineer) (New Grade HP16)	3	2		2	
HP16	Desktop Engineer	—	1		1	
HP15	Computer Systems Coordinator #2 (Desktop Analyst) (New Grade HP14)	1	1		1	
TOTAL 286	Desktop Engineering Unit - MOB	5	5	638,765	5	638,765
<b>287</b>	<b>Audio Visual Services Unit - MOB</b>					
HP16	A/V Administrator	1	1		2	
HP14	A/V Analyst	1	1		1	
TOTAL 287	Audio Visual Services Unit - MOB	2	2	197,491	3	301,130
<b>288</b>	<b>IT Field Service Unit - MOB</b>					
HP18	Senior Computer Systems Administrator #2 (IT Support Coordinator) (New Grade HP15)	1	1		1	

Fund: Corporate Dept: Information Technology		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
HP17	Computer Systems Administrator #2 (IT Support Analyst II) (New Grade HP13)	2	1		1	
HP15	Computer Systems Coordinator #2 (IT Support Analyst II) (New Grade HP13)	1	2		2	
HP15	Computer Systems Coordinator #2 (IT Support Analyst I) (New Grade HP11)	1	—		—	
HP13	IT Support Analyst II	1	4		4	
HP11	IT Support Analyst I	2	—		—	
TOTAL 288	IT Field Service Unit - MOB	8	8	815,914	8	820,580
<b>289</b>	<b>IT Security &amp; Governance Unit - MOB</b>					
HP18	Senior IT Security Administrator	1	1		2	
HP17	Computer Systems Administrator #2 (IT Security Analyst) (New Grade HP14)	1	1		—	
HP16	IT Security Administrator	—	1		1	
TOTAL 289	IT Security & Governance Unit - MOB	2	3	401,808	3	379,983
TOTAL 280	Enterprise Infrastructure Division - MOB	38	41	4,753,882	42	4,885,057
<b>290</b>	<b>Enterprise Applications Division - MOB</b>					
<b>291</b>	<b>Enterprise Applications Administration Section - MOB</b>					
HP20	Assistant Director of Information Technology	1	—		—	
HP19	Information Technology Manager	2	1		1	
HP19	Information Technology Manager #1	—	1		—	
HP11	Administrative Specialist	1	1		1	
TOTAL 291	Enterprise Applications Administration Section - MOB	4	3	391,451	2	217,261
<b>292</b>	<b>Business Applications Unit - MOB</b>					
HP18	Senior Applications Administrator	1	1		1	
HP17	Webmaster #1	1	1		1	
HP16	Applications Administrator	1	1		1	
HP14	Applications Analyst	1	1		1	
TOTAL 292	Business Applications Unit - MOB	4	4	512,455	4	524,031
<b>293</b>	<b>ERP Support Unit - MOB</b>					
HP18	Senior Applications Administrator	1	—		—	

Fund: Corporate Dept: Information Technology		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
HP18	Senior Applications Administrator #1	—	1		—	
HP17	Senior Systems Programmer #1	2	2		2	
HP16	Applications Administrator	1	1		1	
HP14	Applications Analyst	1	1		1	
TOTAL 293	ERP Support Unit - MOB	5	5	663,725	4	482,901
<b>294</b>	<b>Enterprise GIS Support Unit - MOB</b>					
HP18	Senior Applications Administrator	1	1		1	
HP16	Applications Administrator #2 (GIS Analyst) (New Grade HP14)	2	1		1	
HP14	GIS Analyst	2	2		2	
TOTAL 294	Enterprise GIS Support Unit - MOB	5	4	478,190	4	483,147
<b>295</b>	<b>Applications Development Unit - MOB</b>					
HP18	Senior Applications Developer	1	1		1	
HP16	Applications Developer	1	1		1	
HP14	Applications Analyst	2	1		1	
TOTAL 295	Applications Development Unit - MOB	4	3	335,795	3	346,884
<b>296</b>	<b>Enterprise Database Support Unit - MOB</b>					
HP18	Senior Database Administrator	1	1		1	
HP16	Database Administrator	2	2		2	
TOTAL 296	Enterprise Database Support Unit - MOB	3	3	394,521	3	399,965
TOTAL 290	Enterprise Applications Division - MOB	25	22	2,776,136	20	2,454,189
<b>TOTAL</b>	<b>Information Technology</b>	<b>69</b>	<b>71</b>	<b>8,542,180</b>	<b>70</b>	<b>8,373,849</b>

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. Dollar amounts may not add up due to rounding.

101 30000	Fund: Corporate Department: Law	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 4,762,047	\$ 5,493,700	\$ 5,493,700	\$ 3,387,158	\$ 4,798,100	\$ 5,309,200	\$ 5,309,200
601060	Compensation Plan Adjustments	134,244	140,400	140,400	99,915	152,000	239,100	239,100
601070	Social Security and Medicare Contributions	68,500	80,100	80,100	50,411	69,800	81,900	81,900
601100	Tuition and Training Payments	10,307	14,000	14,000	9,135	14,000	16,800	16,800
100	TOTAL PERSONAL SERVICES	4,975,098	5,728,200	5,728,200	3,546,618	5,033,900	5,647,000	5,647,000
612010	Travel	4,202	5,000	5,000	1,561	3,600	6,400	6,400
612030	Meals and Lodging	8,844	13,000	13,000	6,592	12,000	15,800	15,800
612040	Postage, Freight, and Delivery Charges	472	1,000	1,000	600	500	700	700
612050	Compensation for Personally-Owned Automobiles	1,356	5,100	5,100	2,656	4,600	5,100	5,100
612090	Reprographic Services	134	17,000	17,000	15,487	1,000	17,000	17,000
612250	Court Reporting Services	12,537	27,000	27,000	22,021	16,800	25,000	25,000
612430	Payments for Professional Services	354,854	500,000	560,000	515,880	263,000	634,300	634,300
612490	Contractual Services, N.O.C.	84,698	107,800	107,800	92,047	77,000	108,600	108,600
200	TOTAL CONTRACTUAL SERVICES	467,097	675,900	735,900	656,844	378,500	812,900	812,900
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	3,374	5,200	5,200	3,894	4,800	6,000	6,000
623720	Books, Maps, and Charts	10,112	13,000	13,000	11,035	10,000	13,000	13,000
623990	Materials and Supplies, N.O.C.	—	400	400	—	—	200	200
300	TOTAL MATERIALS AND SUPPLIES	13,486	18,600	18,600	14,929	14,800	19,200	19,200
667130	Taxes on Real Estate	683,013	755,000	695,000	682,846	683,000	755,000	755,000
700	TOTAL FIXED AND OTHER CHARGES	683,013	755,000	695,000	682,846	683,000	755,000	755,000
TOTAL LAW		\$ 6,138,695	\$ 7,177,700	\$ 7,177,700	\$ 4,901,238	\$ 6,110,200	\$ 7,234,100	\$ 7,234,100

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 40000	Fund: Corporate Department: Finance	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 3,007,972	\$ 3,187,300	\$ 3,187,300	\$ 2,252,000	\$ 3,187,300	\$ 3,238,000	\$ 3,238,000
601060	Compensation Plan Adjustments	6,429	115,400	115,400	757	7,300	116,400	116,400
601070	Social Security and Medicare Contributions	41,895	46,500	46,500	32,382	44,400	48,200	48,200
601100	Tuition and Training Payments	39,653	30,000	30,000	19,201	30,000	30,000	30,000
100	TOTAL PERSONAL SERVICES	3,095,948	3,379,200	3,379,200	2,304,340	3,269,000	3,432,600	3,432,600
612010	Travel	1,933	11,000	7,000	2,579	6,000	8,000	8,000
612030	Meals and Lodging	7,118	6,100	10,100	5,793	10,000	12,000	12,000
612040	Postage, Freight, and Delivery Charges	29	500	500	86	200	500	500
612050	Compensation for Personally-Owned Automobiles	—	100	100	73	100	200	200
612090	Reprographic Services	2,260	2,500	2,500	2,340	2,400	2,500	2,500
612250	Court Reporting Services	44,232	50,000	50,000	50,000	50,000	50,000	50,000
612340	Discount Lost	1,559	3,000	3,000	1,721	3,000	3,000	3,000
612430	Payments for Professional Services	279,610	257,800	257,800	252,800	257,800	307,600	307,600
612490	Contractual Services, N.O.C.	1,095	2,000	2,000	860	2,000	2,000	2,000
612800	Repairs to Office Furniture and Equipment	4,922	5,000	5,000	—	5,000	5,000	5,000
200	TOTAL CONTRACTUAL SERVICES	342,757	338,000	338,000	316,252	336,500	390,800	390,800
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	8,842	20,600	20,600	8,352	20,600	10,000	10,000
623720	Books, Maps, and Charts	96	1,500	1,500	230	1,000	500	500
623990	Materials and Supplies, N.O.C.	60	500	500	—	500	500	500
300	TOTAL MATERIALS AND SUPPLIES	8,998	22,600	22,600	8,582	22,100	11,000	11,000
TOTAL FINANCE		\$ 3,447,703	\$ 3,739,800	\$ 3,739,800	\$ 2,629,174	\$ 3,627,600	\$ 3,834,400	\$ 3,834,400
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.								

101 60000	Fund: Corporate Department: Maintenance & Operations Division: All Divisions	LINE ITEM ANALYSIS						
		2018		2019			2020	
		Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19
601010	Salaries of Regular Employees	\$ 87,034,782	\$ 92,220,500	\$ 91,299,500	\$ 62,736,284	\$ 88,893,700	\$ 92,699,300	\$ 92,803,400
601060	Compensation Plan Adjustments	4,947,006	4,844,100	5,689,100	4,393,322	5,006,300	5,856,900	5,856,900
601070	Social Security and Medicare Contributions	1,281,564	1,364,900	1,364,900	970,330	1,326,100	1,373,200	1,373,200
601080	Salaries of Nonbudgeted Employees	—	5,300	81,300	18,840	92,800	5,300	5,300
601100	Tuition and Training Payments	153,736	201,900	201,900	86,609	182,300	209,800	209,800
100	TOTAL PERSONAL SERVICES	93,417,088	98,636,700	98,636,700	68,205,384	95,501,200	100,144,500	100,248,600
612010	Travel	18,395	29,300	29,300	8,302	19,700	25,900	25,900
612030	Meals and Lodging	69,350	62,300	62,300	42,126	52,400	67,400	67,400
612040	Postage, Freight, and Delivery Charges	—	—	—	—	—	200	200
612050	Compensation for Personally-Owned Automobiles	106,926	108,500	108,500	90,417	104,300	116,100	116,100
612080	Motor Vehicle Operating Services	467	1,700	1,700	350	1,000	1,400	1,400
612150	Electrical Energy	38,788,739	36,445,200	36,445,200	24,507,043	39,138,100	38,361,700	38,361,700
612160	Natural Gas	3,104,468	2,945,300	2,945,300	1,823,195	2,856,800	3,391,300	3,391,300
612170	Water and Water Services	2,035,379	2,109,700	2,109,700	1,459,263	1,976,500	2,184,300	2,184,300
612210	Communication Services	926,178	—	3,000	2,917	—	3,000	3,000
612240	Testing and Inspection Services	189,320	166,700	163,700	137,260	119,900	190,500	190,500
612330	Rental Charges	150,080	161,500	161,500	150,128	145,500	172,000	172,000
612410	Governmental Service Charges	3,763,003	3,650,100	3,650,100	2,954,081	3,647,200	3,904,200	3,904,200
612420	Maintenance of Grounds and Pavements	809,111	1,430,900	630,100	543,675	611,100	1,432,900	1,375,800
612430	Payments for Professional Services	492,689	489,500	173,000	172,307	171,900	602,500	602,500
612490	Contractual Services, N.O.C.	366,552	645,100	579,000	556,212	500,600	573,500	573,500
612520	Waste Material Disposal Charges	9,664,769	10,823,400	11,454,100	11,433,872	9,831,300	10,745,600	10,745,600
612530	Farming Services	20,000	24,000	18,200	18,200	18,200	60,000	60,000
612590	Sludge Disposal	3,785,843	4,100,000	4,100,000	4,100,000	3,700,000	4,100,000	4,100,000
612600	Repairs to Collection Facilities	2,974,998	3,486,100	3,783,900	3,763,343	3,653,700	3,380,500	3,847,800
612620	Repairs to Waterway Facilities	39,634	47,900	41,900	41,760	41,800	72,400	72,400
612650	Repairs to Process Facilities	5,330,334	5,982,800	6,402,800	6,363,984	5,819,300	9,946,100	9,580,300
612670	Repairs to Railroads	312,917	266,900	417,600	302,749	216,000	396,700	396,700
612680	Repairs to Buildings	729,490	1,015,000	1,009,900	1,001,180	855,300	1,291,700	1,291,700
612760	Repairs to Material Handling and Farming Equipment	328,799	315,900	315,900	296,422	293,400	310,200	310,200
612780	Safety Repairs and Services	211,044	334,500	334,500	333,545	276,600	336,600	336,600
612790	Repairs to Marine Equipment	66,537	65,000	65,000	65,000	62,400	66,500	66,500

101 60000	Fund: Corporate Department: Maintenance & Operations Division: All Divisions	LINE ITEM ANALYSIS						
		2018		2019			2020	
		Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19
612820	Computer Software Maintenance	9,177	7,500	8,400	8,396	8,400	9,000	9,000
612840	Communications Equipment Maintenance (Includes Software)	3,120	—	—	—	—	—	—
612860	Repairs to Vehicle Equipment	153,862	140,600	153,200	153,079	131,800	143,600	143,600
612990	Repairs, N.O.C.	4,493	28,000	28,000	20,036	23,400	27,500	27,500
200	TOTAL CONTRACTUAL SERVICES	74,455,674	74,883,400	75,195,800	60,348,841	74,276,600	81,913,300	81,957,700
623030	Metals	29,070	30,500	36,500	34,029	32,000	30,500	30,500
623070	Electrical Parts and Supplies	2,466,886	2,694,700	2,844,700	2,662,269	2,659,700	2,561,000	2,412,500
623090	Plumbing Accessories and Supplies	654,608	827,800	796,000	686,370	747,300	769,100	769,100
623110	Hardware	7,266	8,300	8,300	6,786	7,500	10,900	10,900
623130	Buildings, Grounds, Paving Materials, and Supplies	112,526	145,900	149,900	136,462	131,100	147,800	147,800
623170	Fiber, Paper, and Insulation Materials	4,641	11,100	11,100	11,016	9,500	13,500	13,500
623190	Paints, Solvents, and Related Materials	6,424	13,000	13,000	12,664	6,100	6,400	6,400
623250	Vehicle Parts and Supplies	153,199	168,000	186,800	185,548	152,600	168,000	168,000
623270	Mechanical Repair Parts	3,388,322	3,611,600	3,870,400	3,496,975	3,271,700	3,874,500	3,874,500
623300	Manhole Materials	6,045	25,000	25,000	23,743	23,000	5,000	5,000
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	44,364	38,800	41,900	38,822	36,400	45,300	45,300
623530	Farming Supplies	3,400	4,000	4,000	2,966	3,500	4,000	4,000
623560	Processing Chemicals	9,573,111	12,445,500	11,627,100	11,377,817	9,927,700	11,087,300	11,087,300
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	20,370	28,600	28,600	26,114	28,000	30,900	30,900
623660	Cleaning Supplies	3,184	2,200	2,200	1,782	2,000	2,200	2,200
623680	Tools and Supplies	219,831	247,600	257,600	246,457	235,400	225,200	225,200
623700	Wearing Apparel	536	4,100	4,100	245	3,600	4,100	4,100
623780	Safety and Medical Supplies	55,056	41,700	41,700	32,645	34,800	43,700	43,700
623800	Computer Software	19,239	39,100	39,100	34,348	33,500	66,000	66,000
623810	Computer Supplies	34,967	170,000	117,000	110,708	112,800	36,600	36,600
623820	Fuel	312,534	332,200	332,200	330,973	274,400	327,900	327,900
623840	Gases	58	600	600	600	500	600	600
623850	Communications Supplies	4,900	15,000	15,000	14,782	14,800	15,000	15,000
623860	Lubricants	7,322	7,700	9,300	8,208	7,100	8,200	8,200
623990	Materials and Supplies, N.O.C.	158,815	117,500	113,000	92,488	80,800	91,300	91,300
300	TOTAL MATERIALS AND SUPPLIES	17,286,672	21,030,500	20,575,100	19,574,818	17,835,800	19,575,000	19,426,500

101 60000	Fund: Corporate Department: Maintenance & Operations Division: All Divisions	LINE ITEM ANALYSIS						
		2018	2019			2020		
		Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
634600	Equipment for Collection Facilities	44,118	60,000	51,700	50,476	50,500	40,000	40,000
634650	Equipment for Process Facilities	155,870	176,700	285,400	279,533	168,500	274,000	274,000
634670	Railroad Equipment	—	—	20,800	20,779	20,800	—	—
634760	Material Handling and Farming Equipment	—	350,000	319,000	292,990	293,000	44,500	44,500
634790	Marine Equipment	—	80,000	80,000	78,500	78,500	—	—
634810	Computer Equipment	—	140,000	138,100	138,066	138,100	—	—
634860	Vehicle Equipment	—	1,199,000	1,192,000	1,191,759	1,191,300	511,000	511,000
634970	Testing and Laboratory Equipment	30,493	—	—	—	—	—	—
634990	Machinery and Equipment, N.O.C.	11,225	36,000	44,700	44,219	38,600	87,500	87,500
400	TOTAL MACHINERY AND EQUIPMENT	241,706	2,041,700	2,131,700	2,096,322	1,979,300	957,000	957,000
TOTAL MAINTENANCE & OPERATIONS		\$185,401,140	\$ 196,592,300	\$ 196,539,300	\$ 150,225,365	\$189,592,900	\$202,589,800	\$ 202,589,800

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						
		2018	2019			2020		
		Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 11,680,158	\$ 12,802,200	\$ 12,686,200	\$ 8,646,902	\$ 12,245,900	\$ 12,750,300	\$ 12,631,100
601060	Compensation Plan Adjustments	364,535	679,300	729,300	562,118	693,200	876,700	876,700
601070	Social Security and Medicare Contributions	167,601	188,700	188,700	132,821	181,600	190,900	190,900
601080	Salaries of Nonbudgeted Employees	—	3,800	41,200	—	65,800	3,800	3,800
601100	Tuition and Training Payments	12,738	43,000	43,000	23,153	36,600	35,300	35,300
100	TOTAL PERSONAL SERVICES	12,225,032	13,717,000	13,688,400	9,364,994	13,223,100	13,857,000	13,737,800
612010	Travel	2,003	2,900	2,900	2,542	2,600	4,600	4,600
612030	Meals and Lodging	7,728	7,500	7,500	5,250	6,900	13,500	13,500
612040	Postage, Freight, and Delivery Charges	—	—	—	—	—	200	200
612050	Compensation for Personally-Owned Automobiles	6,094	9,500	9,500	7,805	8,900	9,100	9,100
612080	Motor Vehicle Operating Services	170	300	300	33	200	300	300
612150	Electrical Energy	86,133	71,400	71,400	49,461	64,300	83,000	83,000
612160	Natural Gas	8,164	8,000	8,000	5,489	7,500	9,300	9,300
612170	Water and Water Services	40,610	206,100	206,100	46,023	181,400	174,800	174,800
612210	Communication Services	198,024	—	—	—	—	—	—
612240	Testing and Inspection Services	13,590	6,100	6,100	5,738	5,300	9,100	9,100
612330	Rental Charges	8,019	8,600	8,700	8,610	7,900	8,600	8,600
612410	Governmental Service Charges	16,887	18,400	18,400	14,600	18,400	17,700	17,700
612420	Maintenance of Grounds and Pavements	659,547	668,300	299,700	299,365	289,500	622,300	622,300
612430	Payments for Professional Services	474,149	470,500	154,000	153,767	153,300	583,500	583,500
612490	Contractual Services, N.O.C.	170,554	227,500	178,700	178,539	171,800	189,100	189,100
612520	Waste Material Disposal Charges	8,269,528	9,310,000	9,945,700	9,933,572	8,420,300	9,182,200	9,182,200
612590	Sludge Disposal	—	4,100,000	4,100,000	4,100,000	3,700,000	4,100,000	4,100,000
612600	Repairs to Collection Facilities	813,566	1,187,200	928,200	928,125	928,200	1,156,700	1,156,700
612620	Repairs to Waterway Facilities	39,634	47,900	41,900	41,760	41,800	72,400	72,400
612650	Repairs to Process Facilities	11,175	14,800	14,800	14,800	13,400	34,000	34,000
612680	Repairs to Buildings	16,064	23,000	17,600	17,500	17,600	18,000	18,000
612760	Repairs to Material Handling and Farming Equipment	224,697	239,500	239,500	230,275	227,500	230,500	230,500
612780	Safety Repairs and Services	5,605	14,400	14,400	14,383	13,400	16,500	16,500
612790	Repairs to Marine Equipment	66,537	65,000	65,000	65,000	62,400	66,500	66,500
612820	Computer Software Maintenance	9,177	7,500	8,400	8,396	8,400	9,000	9,000
612860	Repairs to Vehicle Equipment	57,431	54,500	53,100	53,100	48,000	49,500	49,500

101 66000	Fund: Corporate Department: Maintenance & Operations Division: General	LINE ITEM ANALYSIS						
		2018	2019			2020		
		Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
612990	Repairs, N.O.C.	1,150	3,500	3,500	2,836	3,100	3,000	3,000
200	TOTAL CONTRACTUAL SERVICES	11,206,238	16,772,400	16,403,400	16,186,968	14,402,100	16,663,400	16,663,400
623070	Electrical Parts and Supplies	7,039	17,000	12,000	9,370	12,000	17,000	17,000
623090	Plumbing Accessories and Supplies	8,475	15,000	17,000	16,515	15,800	30,500	30,500
623110	Hardware	1,485	2,000	2,000	700	1,800	2,000	2,000
623130	Buildings, Grounds, Paving Materials, and Supplies	30,570	34,000	24,500	21,373	23,400	33,500	33,500
623250	Vehicle Parts and Supplies	60,623	82,000	98,800	98,098	70,800	82,000	82,000
623270	Mechanical Repair Parts	69,824	157,800	142,800	102,641	135,200	144,300	144,300
623300	Manhole Materials	6,045	25,000	25,000	23,743	23,000	5,000	5,000
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	6,157	4,000	5,600	5,275	3,500	10,000	10,000
623530	Farming Supplies	3,400	4,000	4,000	2,966	3,500	4,000	4,000
623560	Processing Chemicals	182,001	247,000	267,000	253,697	214,500	232,000	232,000
623660	Cleaning Supplies	500	500	500	500	500	500	500
623680	Tools and Supplies	15,322	18,300	18,300	16,382	17,500	18,300	18,300
623700	Wearing Apparel	536	3,500	3,500	—	3,000	3,500	3,500
623780	Safety and Medical Supplies	8,598	8,000	8,000	5,258	6,400	8,000	8,000
623810	Computer Supplies	48	1,400	1,400	941	1,300	13,400	13,400
623820	Fuel	191,706	179,100	179,100	178,596	132,600	174,500	174,500
623860	Lubricants	1,900	1,500	1,700	1,615	1,700	2,000	2,000
623990	Materials and Supplies, N.O.C.	95,066	32,300	32,300	26,307	28,800	22,400	22,400
300	TOTAL MATERIALS AND SUPPLIES	689,293	832,400	843,500	763,976	695,300	802,900	802,900
634760	Material Handling and Farming Equipment	—	50,000	26,000	—	—	6,500	6,500
634790	Marine Equipment	—	80,000	80,000	78,500	78,500	—	—
634860	Vehicle Equipment	—	320,000	319,200	319,168	319,200	351,000	351,000
634970	Testing and Laboratory Equipment	22,589	—	—	—	—	—	—
634990	Machinery & Eqpt NOC	—	—	6,200	6,150	6,200	—	—
400	TOTAL MACHINERY AND EQUIPMENT	22,589	450,000	431,400	403,818	403,900	357,500	357,500
TOTAL GENERAL DIVISION		\$ 24,143,152	\$ 31,771,800	\$ 31,366,700	\$ 26,719,756	\$ 28,724,400	\$ 31,680,800	\$ 31,561,600

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.

Fund: Corporate Dept: Maintenance & Operations Division: General		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
<b>601</b>	<b>Executive Office</b>					
EX14	Director of Maintenance & Operations	1	1		1	
EX06	Secretary to Officer	1	1		1	
TOTAL 601	Executive Office	2	2	376,864	2	376,865
<b>611</b>	<b>General Division Executive Office</b>					
HP22	Assistant Director of Maintenance & Operations	1	1		1	
HP11	Administrative Specialist	1	1		1	
TOTAL 611	General Division Executive Office	2	2	242,050	2	294,022
<b>620</b>	<b>Administrative Section</b>					
<b>621</b>	<b>Administrative Unit</b>					
HP18	Supervising Budget & Management Analyst	1	1		1	
HP16	Senior Budget & Management Analyst	1	1		1	
HP14	Budget & Management Analyst	2	2		2	
TOTAL 621	Administrative Unit	4	4	479,163	4	484,121
TOTAL 620	Administrative Section	4	4	479,163	4	484,121
<b>630</b>	<b>Waterways Control Section</b>					
<b>631</b>	<b>Administrative Unit</b>					
HP20	Managing Engineer	1	1		1	
TOTAL 631	Administrative Unit	1	1	200,508	1	166,379
<b>633</b>	<b>Channel Control Unit</b>					
NR6271	Systems Dispatcher	4	5		5	
TOTAL 633	Channel Control Unit	4	5	597,688	5	611,104
<b>634</b>	<b>Channel Maintenance Unit</b>					
(* Number of positions budgeted and funded by the Stormwater Management Fund appears below position count)						
HP18	Principal Engineer	—	—		—	(*1)
HP15	Associate Civil Engineer	—	—		—	(*1)
TOTAL 634	Channel Maintenance Unit	—	—	—	—	—
TOTAL	Stormwater Management Fund Positions	(*2)	(*2)		(*2)	—

Fund: Corporate Dept: Maintenance & Operations Division: General		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
<b>635</b>	<b>Lockport Powerhouse Unit</b>					
NR7394	Powerhouse Mechanic Leadman	1	1		1	
NR7393	Powerhouse Mechanic	1	1		1	
TOTAL 635	Lockport Powerhouse Unit	2	2	247,728	2	253,302
<b>636</b>	<b>Boat Operations Unit</b>	(* Number of positions budgeted and funded by the Stormwater Management Fund appears below position count)				
HP14	Engineering Technician V	—	—		—	
		(*1)	(*2)		(*2)	
HP14	Engineering Technician V #4	—	—		—	
		(*1)				
HP12	Engineering Technician IV	—	—		—	
		(*1)	(*2)		(*2)	
HP12	Engineering Technician IV #4	—	—		—	
		(*1)				
NR8650	Maintenance Laborer Class A Shift	—	—		—	
		(*2)	(*2)		(*2)	
TOTAL 636	Boat Operations Unit	—	—		—	
TOTAL	Stormwater Management Fund Positions	(*6)	(*6)		(*6)	
<b>639</b>	<b>Channel Maintenance Unit (formerly Stickney Service Area Channel Maintenance Unit)</b>	(* Number of positions budgeted and funded by the Stormwater Management Fund appears below position count)				
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 639	Channel Maintenance Unit (formerly Stickney Service Area Channel Maintenance Unit)	—	—		—	
TOTAL	Stormwater Management Fund Positions	(*4)	(*4)		(*4)	
<b>670</b>	<b>Collection System Section</b>					
<b>679</b>	<b>Collection System Unit</b>	(* Number of positions budgeted and funded by the Stormwater Management Fund appears below position count)				
HP17	Senior Engineer	1	1		1	

Fund: Corporate Dept: Maintenance & Operations Division: General		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
HP15	Associate Civil Engineer	1	—	—	—	—
HP15	Associate Civil Engineer #1	—	1	—	—	—
HP14	Engineering Technician V	5	6	6	6	6
HP11	Engineering Technician III	1	1	—	1	—
NR8331	Laborer Foreman	6	6	—	6	6
		(*1)	(*1)		(*1)	
NR8650	Maintenance Laborer Class A Shift	14	14	14	14	14
		(*4)	(*4)		(*4)	
PR6473	Truck Driver	6	6	6	6	6
		(*1)	(*1)		(*1)	
TOTAL 679	Collection System Unit	34	35	3,140,078	34	3,078,002
TOTAL	Stormwater Management Fund Positions	(*6)	(*6)		(*6)	
TOTAL 670	Collection System Section	34	35	3,140,078	34	3,078,002
TOTAL	Stormwater Management Fund Positions	(*6)	(*6)		(*6)	
TOTAL 630	Waterways Control Section	41	43	4,186,003	42	4,108,787
TOTAL	Stormwater Management Fund Positions	(*18)	(*18)		(*18)	
<b>640</b>	<b>Technical Administration Section</b>					
<b>641</b>	<b>Technical Administration Unit</b>					
HP20	Managing Engineer	1	1	—	1	—
TOTAL 641	Technical Administration Unit	1	1	200,508	1	166,379
<b>642</b>	<b>Contract Administration Unit - MOB</b>					
HP18	Principal Engineer	1	1	—	1	—
HP17	Senior Mechanical Engineer	1	1	—	1	—
HP15	Associate Civil Engineer	1	1	—	1	—
HP12	Administrative Assistant #2 (Administrative Specialist) (New Grade HP11)	1	1	—	1	—
TOTAL 642	Contract Administration Unit - MOB	4	4	498,301	4	498,301
<b>643</b>	<b>Technical Services Unit</b>					
HP17	Senior Engineer	1	1	—	1	—
HP15	Associate Civil Engineer	1	1	—	1	—
TOTAL 643	Technical Services Unit	2	2	242,717	2	248,479

Fund: Corporate Dept: Maintenance & Operations Division: General		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
<b>644</b>	<b>Construction Design Unit</b>					
HP18	Principal Engineer	1	1		1	
TOTAL 644	Construction Design Unit	1	1	159,047	1	159,047
TOTAL 640	Technical Administration Section	8	8	1,100,573	8	1,072,206
<b>650</b>	<b>Solids Management Section</b>					
<b>651</b>	<b>Solids Administration Unit</b>					
HP20	Managing Engineer	1	1		1	
HP12	Administrative Assistant #2 (Administrative Specialist) (New Grade HP11)	1	1		1	
TOTAL 651	Solids Administration Unit	2	2	270,789	2	279,322
<b>652</b>	<b>Solids Field Operations Unit</b>					
HP18	Principal Engineer	1	1		1	
HP17	Senior Engineer	1	1		1	
HP15	Associate Civil Engineer	—	1		1	
HP14	Engineering Technician V	3	3		4	
HP14	Engineering Technician V #4	2	2		1	
HP12	Engineering Technician IV	3	3		3	
HP11	Engineering Technician III	1	1		1	
TOTAL 652	Solids Field Operations Unit	11	12	1,246,412	12	1,233,419
<b>653</b>	<b>Solids Operations Administration Unit</b>					
HP17	Senior Engineer	1	1		1	
HP15	Associate Civil Engineer	1	1		—	
HP12	Engineering Technician IV #4	1	1		1	
NR8651	Maintenance Laborer Class A	—	1		1	
NR8652	Maintenance Laborer Class B	1	—		—	
NR8652	Maintenance Laborer Class B #1	—	1		—	
TOTAL 653	Solids Operations Administration Unit	4	5	493,447	3	318,733
<b>654</b>	<b>Fulton County Field Operations Unit</b>					
HP12	Agricultural Technician II	1	1		1	

Fund: Corporate Dept: Maintenance & Operations Division: General		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
HP11	Agricultural Technician I	1	1		1	
HP11	Administrative Specialist	1	1		—	
TOTAL 654	Fulton County Field Operations Unit	3	3	215,342	2	156,208
TOTAL 650	Solids Management Section	20	22	2,225,990	19	1,987,681
<b>660</b>	<b>Site Remediation Section</b>					
<b>661</b>	<b>Site Remediation Unit</b>					
HP20	Engineer of Site Remediation	1	1		1	
HP17	Site Remediation Specialist	1	1		1	
TOTAL 661	Site Remediation Unit	2	2	330,295	2	338,827
TOTAL 660	Site Remediation Section	2	2	330,295	2	338,827
<b>681</b>	<b>Asset Management Section</b>					
HP20	Managing Engineer	1	1		1	
HP18	Principal Electrical Engineer	1	1		1	
HP18	Principal Engineer	1	1		1	
HP18	Principal Mechanical Engineer	3	3		3	
HP17	Senior Electrical Engineer	4	5		5	
HP17	Senior Engineer	—	1		1	
HP17	Senior Mechanical Engineer	4	4		4	
HP15	Associate Electrical Engineer	6	7		7	
HP15	Associate Mechanical Engineer	4	5		5	
HP14	Assistant Mechanical Engineer	2	2		3	
HP14	Assistant Mechanical Engineer #2 (Engineering Technician IV) (New Grade HP12)	1	1		—	
HP14	Engineering Technician V	1	1		2	
TOTAL 681	Asset Management Section	28	32	4,092,628	33	4,096,778
TOTAL	Maintenance & Operations General Division	107	115	13,033,567	112	12,759,286
TOTAL	Stormwater Management Fund Positions	(*18)	(*18)		(*18)	

Note: Eighteen positions budgeted in Sections 634, 636, 639, and 679 are funded by the Stormwater Management Fund while the operations remain in the Maintenance & Operations Department.

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. Dollar amounts may not add up due to rounding.

101 67000	Fund: Corporate Department: Maintenance & Operations Division: North Service Area	LINE ITEM ANALYSIS						
		2018		2019			2020	
		Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19
601010	Salaries of Regular Employees	\$ 23,437,602	\$ 24,470,800	\$ 24,470,800	\$ 16,554,856	\$ 23,524,700	\$ 24,327,500	\$ 24,446,700
601060	Compensation Plan Adjustments	1,308,925	1,361,200	1,361,200	1,159,884	1,361,200	1,349,900	1,349,900
601070	Social Security and Medicare Contributions	342,766	360,000	360,000	254,970	347,600	361,800	361,800
601100	Tuition and Training Payments	42,425	42,900	42,900	23,617	42,900	52,400	52,400
100	TOTAL PERSONAL SERVICES	25,131,718	26,234,900	26,234,900	17,993,327	25,276,400	26,091,600	26,210,800
612010	Travel	9,548	14,000	14,000	5,188	9,400	10,900	10,900
612030	Meals and Lodging	28,106	23,200	23,200	15,294	16,200	17,400	17,400
612050	Compensation for Personally-Owned Automobiles	21,915	19,000	19,000	12,628	17,400	22,000	22,000
612080	Motor Vehicle Operating Services	96	1,000	900	120	400	500	500
612150	Electrical Energy	8,253,330	7,088,800	7,088,800	5,214,503	7,588,800	8,260,700	8,260,700
612160	Natural Gas	669,175	475,500	505,500	454,543	484,100	678,100	678,100
612170	Water and Water Services	71,549	75,800	75,800	49,281	67,000	75,800	75,800
612210	Communication Services	210,401	—	—	—	—	—	—
612240	Testing and Inspection Services	26,526	42,200	42,200	40,806	29,600	43,700	43,700
612330	Rental Charges	2,231	3,000	3,000	2,000	2,600	2,400	2,400
612410	Governmental Service Charges	3,558,121	3,438,500	3,438,500	2,752,110	3,438,500	3,693,300	3,693,300
612420	Maintenance of Grounds and Pavements	13,511	112,600	49,700	45,373	37,600	115,100	115,100
612490	Contractual Services, N.O.C.	3,446	3,400	3,400	1,672	500	1,500	1,500
612520	Waste Material Disposal Charges	509,450	514,800	509,800	509,278	509,800	569,600	569,600
612530	Farming Services	20,000	24,000	18,200	18,200	18,200	60,000	60,000
612600	Repairs to Collection Facilities	20,460	74,100	386,300	372,650	360,000	90,300	342,100
612650	Repairs to Process Facilities	1,146,372	1,138,700	1,263,900	1,263,822	1,178,700	1,663,200	1,559,900
612680	Repairs to Buildings	160,839	208,700	294,300	281,566	210,000	320,900	320,900
612760	Repairs to Material Handling and Farming Equipment	14,787	24,400	24,400	20,277	20,000	27,700	27,700
612780	Safety Repairs and Services	72,108	85,000	85,000	85,000	75,000	85,000	85,000
612860	Repairs to Vehicle Equipment	27,050	8,000	27,800	27,799	15,300	16,000	16,000
200	TOTAL CONTRACTUAL SERVICES	14,839,020	13,374,700	13,873,700	11,172,107	14,079,100	15,754,100	15,902,600
623030	Metals	11,412	10,000	9,000	8,717	9,000	10,000	10,000
623070	Electrical Parts and Supplies	1,005,448	1,211,200	1,181,200	1,153,659	1,181,200	1,048,500	900,000
623090	Plumbing Accessories and Supplies	132,608	155,400	225,400	199,209	170,400	173,900	173,900
623130	Buildings, Grounds, Paving Materials, and Supplies	17,160	20,100	28,100	24,319	24,100	21,600	21,600
623190	Paints, Solvents, and Related Materials	441	1,400	1,400	1,064	1,400	2,300	2,300

101 67000	Fund: Corporate Department: Maintenance & Operations Division: North Service Area	LINE ITEM ANALYSIS							
		2018	2019			2020			
		Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director
623250	Vehicle Parts and Supplies	16,492	12,000	14,000	13,791	14,000	12,000	12,000	12,000
623270	Mechanical Repair Parts	613,233	681,400	816,500	765,920	600,000	745,000	745,000	745,000
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	16,362	13,800	12,000	11,562	12,000	14,300	14,300	14,300
623560	Processing Chemicals	1,069,398	1,315,700	1,227,900	1,186,239	1,227,900	998,900	998,900	998,900
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	18,699	25,600	24,000	22,724	23,700	27,100	27,100	27,100
623680	Tools and Supplies	80,797	66,900	76,900	75,174	76,900	59,500	59,500	59,500
623780	Safety and Medical Supplies	12,415	12,000	12,000	9,738	12,000	14,000	14,000	14,000
623800	Computer Software	—	21,000	21,000	18,806	17,900	4,500	4,500	4,500
623810	Computer Supplies	8,662	25,000	29,500	28,189	25,500	13,200	13,200	13,200
623820	Fuel	15,942	13,700	13,700	13,109	13,700	16,000	16,000	16,000
623850	Communications Supplies	—	15,000	15,000	14,782	14,800	15,000	15,000	15,000
623860	Lubricants	3,763	3,000	3,700	3,240	2,000	3,000	3,000	3,000
623990	Materials and Supplies, N.O.C.	6,092	6,500	6,500	6,284	6,500	6,200	6,200	6,200
300	TOTAL MATERIALS AND SUPPLIES	3,028,924	3,609,700	3,717,800	3,556,528	3,433,000	3,185,000	3,036,500	3,036,500
634600	Equipment for Collection Facilities	44,118	60,000	51,700	50,476	50,500	40,000	40,000	40,000
634650	Equipment for Process Facilities	92,905	97,700	152,900	149,505	106,500	115,000	115,000	115,000
634760	Material Handling and Farming Equipment	—	—	—	—	—	38,000	38,000	38,000
634810	Computer Equipment	—	140,000	138,100	138,066	138,100	—	—	—
634860	Vehicle Equipment	—	65,000	65,600	65,571	65,000	160,000	160,000	160,000
400	TOTAL MACHINERY AND EQUIPMENT	137,023	362,700	408,300	403,618	360,100	353,000	353,000	353,000
TOTAL NORTH SERVICE AREA		\$ 43,136,685	\$ 43,582,000	\$ 44,234,700	\$ 33,125,580	\$ 43,148,600	\$ 45,383,700	\$ 45,502,900	

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.

Fund: Corporate Dept: Maintenance & Operations Division: North Service Area		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
<b>710</b>	<b>North Service Area Executive Office</b>					
HP22	Assistant Director of Maintenance & Operations	1	1		1	
HP20	Managing Engineer	1	1		1	
HP14	Engineering Technician V	1	1		1	
HP12	Secretary #2 (Administrative Specialist) (New Grade HP11)	1	1		1	
TOTAL 710	North Service Area Executive Office	4	4	641,326	4	641,326
<b>711</b>	<b>North Service Area Budget Control Unit</b>					
HP16	Senior Budget & Management Analyst	1	1		1	
HP14	Budget & Management Analyst	1	1		1	
TOTAL 711	North Service Area Budget Control Unit	2	2	205,946	2	211,390
<b>715</b>	<b>Terrence J. O'Brien Water Reclamation Plant Branch</b>					
<b>715</b>	<b>Terrence J. O'Brien Water Reclamation Plant Branch Office</b>					
HP21	Engineer of Treatment Plant Operations I #2 (Managing Engineer) (New Grade HP20)	1	1		1	
TOTAL 715	Terrence J. O'Brien Water Reclamation Plant Branch Office	1	1	217,579	1	217,579
<b>720</b>	<b>Plant Engineering &amp; Maintenance Section</b>					
<b>743</b>	<b>Buildings &amp; Grounds Unit</b>					
HP14	Engineering Technician V	1	1		1	
HP09	Administrative Clerk	1	1		1	
NR8331	Laborer Foreman	1	1		1	
NR8651	Maintenance Laborer Class A	3	3		3	
NR8652	Maintenance Laborer Class B	5	5		5	
TOTAL 743	Buildings & Grounds Unit	11	11	756,986	11	773,327
<b>723</b>	<b>Electrical Engineering Unit</b>					
HP15	Associate Process Control Engineer	1	1		1	
NR6251	Chief Electrical Operator	1	1		1	
NR6233	Electrical Operator II	5	5		5	
NR6232	Electrical Operator I	2	2		2	
TOTAL 723	Electrical Engineering Unit	9	9	914,822	9	933,397

Fund: Corporate Dept: Maintenance & Operations Division: North Service Area		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
<b>724</b>	<b>Maintenance Unit</b>					
HP19	Master Mechanic II	1	—		—	
HP19	Master Mechanic	—	1		1	
HP18	Principal Electrical Engineer	—	—		1	
HP17	Assistant Master Mechanic	4	4		4	
HP17	Senior Electrical Engineer	2	2		1	
HP15	Associate Civil Engineer #2 (Engineering Technician IV) (New Grade HP12)	—	—		1	
HP15	Associate Process Control Engineer	—	1		1	
HP14	Assistant Electrical Engineer	1	1		1	
HP12	Engineering Technician IV	—	1		—	
HP11	Administrative Specialist	1	1		1	
<b>TOTAL 724</b>	<b>Maintenance Unit</b>	<b>9</b>	<b>11</b>	<b>1,347,462</b>	<b>11</b>	<b>1,393,656</b>
<b>760</b>	<b>Area Maintenance Section</b>					
<b>764</b>	<b>Area Maintenance Unit</b>					
PR5933	Architectural Ironworker	2	2		2	
PR5353	Bricklayer	1	1		1	
PR5153	Carpenter	2	2		2	
PR7425	Electrical Instrument & Testing Mechanic Foreman	1	1		1	
PR7424	Electrical Instrument & Testing Mechanic Leadman	1	1		1	
PR7423	Electrical Instrument & Testing Mechanic	12	12		12	
PR7347	Electrical Mechanic Foreman	1	1		1	
PR7349	Electrical Mechanic Sub-Foreman	1	1		1	
PR7343	Electrical Mechanic	13	14		14	
PR6453	Hoisting Engineer	1	1		1	
PR7579	Machinist Foreman	1	1		1	
PR7575	Machinist Leadman	1	1		1	
PR7573	Machinist	16	16		16	
PR5553	Painter	2	2		2	

Fund: Corporate Dept: Maintenance & Operations Division: North Service Area		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
PR7779	Pipefitter Foreman	1	1		1	
PR7775	Pipefitter Leadman	1	1		1	
PR7773	Pipefitter	12	12		12	
PR5753	Plumber	2	2		2	
PR5975	Structural Ironworker Leadman	1	1		1	
PR5973	Structural Ironworker	2	2		2	
PR6473	Truck Driver	5	5		5	
TOTAL 764	Area Maintenance Unit	79	80	8,117,658	80	8,279,461
TOTAL 760	Area Maintenance Section	79	80	8,117,658	80	8,279,461
TOTAL 720	Plant Engineering & Maintenance Section	108	111	11,136,929	111	11,379,841
<b>730</b>	<b>Plant Operations Section</b>					
<b>731</b>	<b>Administrative Unit</b>					
HP19	Assistant Engineer of Treatment Plant Operations II #2 (Principal Engineer) (New Grade HP18)	1	1		—	
HP18	Principal Engineer	—	—		1	
HP12	Engineering Technician IV	1	1		1	
TOTAL 731	Administrative Unit	2	2	260,957	2	223,981
<b>732</b>	<b>Treatment Operations Unit</b>					
HP16	Treatment Plant Operator III	1	1		1	
HP14	Treatment Plant Operator II	8	8		8	
HP12	Treatment Plant Operator I	4	4		4	
NR8650	Maintenance Laborer Class A Shift	4	4		4	
NR8651	Maintenance Laborer Class A	2	2		2	
TOTAL 732	Treatment Operations Unit	19	19	1,706,588	19	1,726,506
<b>734</b>	<b>Mechanical Operations Unit</b>					
HP17	Chief Operating Engineer I	1	1		1	
HP16	Assistant Chief Operating Engineer	1	1		1	
NR6810	Fireman-Oiler	6	6		6	
NR6810	Fireman-Oiler #1	—	—		3	

Fund: Corporate Dept: Maintenance & Operations Division: North Service Area		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
NR6832	Operating Engineer II	8	8		8	
NR6831	Operating Engineer I	5	5		5	
TOTAL 734	Mechanical Operations Unit	21	21	2,164,208	24	2,477,581
TOTAL 730	Plant Operations Section	42	42	4,131,753	45	4,428,068
TOTAL 715	Terrence J. O'Brien Water Reclamation Plant Branch	151	154	15,486,261	157	16,025,488
<b>750</b>	<b>Hanover Park Water Reclamation Plant Section</b>					
<b>751</b>	<b>Administrative Unit</b>					
HP20	Managing Engineer	1	1		1	
HP19	Assistant Engineer of Treatment Plant Operations II #2 (Principal Engineer) (New Grade HP18)	1	—		—	
HP11	Administrative Specialist	1	1		1	
TOTAL 751	Administrative Unit	3	2	273,386	2	273,386
<b>753</b>	<b>Operations Unit</b>					
HP17	Senior Engineer	1	—		1	
HP17	Senior Mechanical Engineer	—	1		—	
HP16	Treatment Plant Operator III	1	1		1	
HP14	Treatment Plant Operator II	6	6		7	
HP14	Treatment Plant Operator II #4	1	1		—	
HP12	Treatment Plant Operator I	5	5		5	
NR6810	Fireman-Oiler	1	1		1	
TOTAL 753	Operations Unit	15	15	1,433,815	15	1,431,006
<b>755</b>	<b>General Plant Services Unit</b>					
HP14	Engineering Technician V	1	1		1	
NR8651	Maintenance Laborer Class A	1	2		2	
NR8652	Maintenance Laborer Class B	2	1		1	
NR8652	Maintenance Laborer Class B #1	—	1		—	
TOTAL 755	General Plant Services Unit	4	5	379,467	4	323,382
TOTAL 750	Hanover Park Water Reclamation Plant Section	22	22	2,086,668	21	2,027,774

Fund: Corporate Dept: Maintenance & Operations Division: North Service Area		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
<b>780</b>	<b>James C. Kirie Water Reclamation Plant Section</b>					
<b>781</b>	<b>Administrative Unit</b>					
HP20	Managing Engineer	1	1		1	
HP11	Administrative Specialist	1	1		1	
TOTAL 781	Administrative Unit	2	2	242,577	2	254,545
<b>783</b>	<b>Operations Unit</b>					
HP17	Senior Engineer	1	1		1	
HP16	Assistant Chief Operating Engineer	1	1		1	
HP16	Treatment Plant Operator III	1	1		1	
HP14	Treatment Plant Operator II	6	6		7	
HP14	Treatment Plant Operator II #4	1	1		—	
HP12	Treatment Plant Operator I	4	4		2	
NR6810	Fireman-Oiler	2	2		1	
NR8650	Maintenance Laborer Class A Shift	4	3		3	
NR8650	Maintenance Laborer Class A Shift #1	—	1		—	
NR6831	Operating Engineer I	6	6		6	
TOTAL 783	Operations Unit	26	26	2,536,325	22	2,228,886
<b>785</b>	<b>General Plant Services Unit</b>					
HP14	Engineering Technician V	1	1		1	
NR8651	Maintenance Laborer Class A	3	3		3	
NR8652	Maintenance Laborer Class B	1	1		1	
TOTAL 785	General Plant Services Unit	5	5	398,823	5	405,521
TOTAL 780	James C. Kirie Water Reclamation Plant Section	33	33	3,177,725	29	2,888,952
<b>790</b>	<b>John E. Egan Water Reclamation Plant Section</b>					
<b>791</b>	<b>Administrative Unit</b>					
HP20	Managing Engineer	1	1		1	
HP18	Principal Engineer	1	1		1	

Fund: Corporate Dept: Maintenance & Operations Division: North Service Area		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
HP11	Administrative Specialist	1	1		1	
TOTAL 791	Administrative Unit	3	3	422,866	3	432,433
<b>793</b>	<b>Operations Unit</b>					
HP16	Assistant Chief Operating Engineer	1	1		1	
HP16	Treatment Plant Operator III	1	1		1	
HP14	Treatment Plant Operator II	7	7		7	
HP14	Treatment Plant Operator II #1	—	—		1	
HP12	Treatment Plant Operator I	4	4		4	
NR6810	Fireman-Oiler	2	2		2	
NR8650	Maintenance Laborer Class A Shift	—	1		1	
NR8651	Maintenance Laborer Class A	1	1		1	
NR6832	Operating Engineer II	1	1		1	
NR6831	Operating Engineer I	6	6		6	
TOTAL 793	Operations Unit	23	24	2,245,646	25	2,346,719
<b>795</b>	<b>General Plant Services Unit</b>					
NR8331	Laborer Foreman	1	1		1	
NR8651	Maintenance Laborer Class A	4	4		4	
NR8652	Maintenance Laborer Class B	1	1		1	
TOTAL 795	General Plant Services Unit	6	6	467,293	6	477,818
TOTAL 790	John E. Egan Water Reclamation Plant Section	32	33	3,135,805	34	3,256,970
<b>TOTAL</b>	<b>Maintenance &amp; Operations North Service Area</b>	<b>244</b>	<b>248</b>	<b>24,733,730</b>	<b>247</b>	<b>25,051,899</b>

Note: There are no positions budgeted for the Stormwater Management Fund for 2020.

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. Dollar amounts may not add up due to rounding.

101 68000	Fund: Corporate Department: Maintenance & Operations Division: Calumet Service Area	LINE ITEM ANALYSIS						
		2018		2019			2020	
		Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19
601010	Salaries of Regular Employees	\$ 17,243,041	\$ 18,245,700	\$ 18,040,700	\$ 12,490,914	\$ 17,576,100	\$ 18,497,300	\$ 18,601,400
601060	Compensation Plan Adjustments	1,182,297	795,800	990,800	749,775	845,800	1,087,800	1,087,800
601070	Social Security and Medicare Contributions	258,525	272,800	272,800	191,617	262,800	273,800	273,800
601080	Salaries of Nonbudgeted Employees	—	—	38,600	18,840	27,000	—	—
601100	Tuition and Training Payments	23,524	24,500	24,500	7,785	22,800	30,600	30,600
100	TOTAL PERSONAL SERVICES	18,707,387	19,338,800	19,367,400	13,458,930	18,734,500	19,889,500	19,993,600
612010	Travel	743	5,000	5,000	—	2,700	5,000	5,000
612030	Meals and Lodging	9,701	10,000	10,000	4,744	8,300	10,000	10,000
612050	Compensation for Personally-Owned Automobiles	36,779	40,000	40,000	36,500	40,000	40,000	40,000
612080	Motor Vehicle Operating Services	135	100	200	168	200	300	300
612150	Electrical Energy	9,781,031	8,558,300	8,558,300	6,006,758	8,558,300	9,791,400	9,791,400
612160	Natural Gas	694,439	565,200	565,200	454,378	565,200	681,300	681,300
612170	Water and Water Services	385,127	390,200	390,200	247,069	390,200	390,500	390,500
612210	Communication Services	336,301	—	3,000	2,917	—	3,000	3,000
612240	Testing and Inspection Services	42,681	66,900	57,700	40,835	33,800	73,300	73,300
612330	Rental Charges	9,200	10,000	10,000	300	2,000	15,000	15,000
612410	Governmental Service Charges	98,116	103,000	103,000	97,491	100,100	103,000	103,000
612420	Maintenance of Grounds and Pavements	—	145,000	137,000	59,328	80,500	145,000	87,900
612490	Contractual Services, N.O.C.	3,634	10,500	10,500	4,465	4,000	10,500	10,500
612520	Waste Material Disposal Charges	343,777	392,100	392,100	384,521	362,200	410,800	410,800
612600	Repairs to Collection Facilities	41,313	153,300	149,100	142,350	104,500	101,500	101,500
612650	Repairs to Process Facilities	1,643,373	1,748,600	1,694,900	1,667,489	1,465,200	3,550,400	3,503,400
612680	Repairs to Buildings	315,526	494,300	429,700	437,667	374,700	481,300	481,300
612760	Repairs to Material Handling and Farming Equipment	89,314	52,000	52,000	45,870	45,900	52,000	52,000
612780	Safety Repairs and Services	13,994	20,000	20,000	20,000	18,000	20,000	20,000
612860	Repairs to Vehicle Equipment	52,928	53,500	53,500	53,450	52,500	53,500	53,500
612990	Repairs, N.O.C.	2,141	8,000	8,000	1,000	4,400	8,000	8,000
200	TOTAL CONTRACTUAL SERVICES	13,900,254	12,826,000	12,689,400	9,707,299	12,212,700	15,945,800	15,841,700
623030	Metals	7,708	10,100	14,700	12,512	11,500	10,100	10,100
623070	Electrical Parts and Supplies	520,088	424,800	544,800	459,354	424,800	387,300	387,300
623090	Plumbing Accessories and Supplies	281,878	204,600	204,600	147,613	174,100	226,100	226,100
623110	Hardware	2,383	2,800	2,800	2,800	2,500	2,800	2,800

101 68000	Fund: Corporate Department: Maintenance & Operations Division: Calumet Service Area	LINE ITEM ANALYSIS						
		2018	2019			2020		
		Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19
623130	Buildings, Grounds, Paving Materials, and Supplies	31,957	51,600	46,600	40,193	36,100	52,500	52,500
623190	Paints, Solvents, and Related Materials	2,595	2,800	2,800	2,800	2,400	2,800	2,800
623250	Vehicle Parts and Supplies	33,668	36,000	36,000	36,000	31,400	36,000	36,000
623270	Mechanical Repair Parts	678,203	844,600	811,100	673,738	608,700	527,100	527,100
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	11,210	10,000	9,300	7,727	9,300	10,000	10,000
623560	Processing Chemicals	1,297,294	1,916,800	1,747,400	1,724,809	1,229,300	1,555,900	1,555,900
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	1,307	3,000	3,000	2,110	2,900	3,000	3,000
623660	Cleaning Supplies	2,219	1,000	700	500	700	1,000	1,000
623680	Tools and Supplies	26,572	38,300	38,300	37,449	36,000	48,300	48,300
623780	Safety and Medical Supplies	13,268	20,300	20,300	17,504	16,100	20,300	20,300
623810	Computer Supplies	—	300	6,300	6,088	200	—	—
623820	Fuel	40,980	47,400	47,400	47,359	44,200	50,000	50,000
623860	Lubricants	—	2,000	1,000	500	500	2,000	2,000
623990	Materials and Supplies, N.O.C.	19,372	32,000	32,000	25,049	23,000	31,000	31,000
300	TOTAL MATERIALS AND SUPPLIES	2,970,700	3,648,400	3,569,100	3,244,105	2,653,700	2,966,200	2,966,200
634650	Equipment for Process Facilities	62,964	79,000	62,500	61,128	62,000	159,000	159,000
634760	Material Handling and Farming Equipment	—	300,000	293,000	292,990	293,000	—	—
634860	Vehicle Equipment	—	535,000	524,300	524,297	524,300	—	—
634990	Machinery and Equipment, N.O.C.	—	—	6,100	5,761	—	—	—
400	TOTAL MACHINERY AND EQUIPMENT	62,964	914,000	885,900	884,176	879,300	159,000	159,000
TOTAL CALUMET SERVICE AREA		\$ 35,641,306	\$ 36,727,200	\$ 36,511,800	\$ 27,294,509	\$ 34,480,200	\$ 38,960,500	\$ 38,960,500

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.

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.

Fund: Corporate Dept: Maintenance & Operations Division: Calumet Service Area		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
<b>810</b>	<b>Calumet Executive Office</b>					
HP22	Assistant Director of Maintenance & Operations	1	1		1	
HP11	Administrative Specialist	1	1		1	
TOTAL 810	Calumet Executive Office	2	2	314,037	2	304,330
<b>811</b>	<b>Administrative &amp; Budget Control Unit</b>					
HP14	Budget & Management Analyst	2	2		2	
HP12	Secretary #2 (Administrative Specialist) (New Grade HP11)	1	1		1	
HP11	Administrative Specialist	1	1		1	
HP09	Administrative Clerk	1	1		1	
TOTAL 811	Administrative & Budget Control Unit	5	5	411,531	5	419,039
<b>820</b>	<b>Plant Engineering &amp; Maintenance Section</b>					
<b>821</b>	<b>Administrative Unit</b>					
HP20	Managing Engineer	1	1		1	
HP14	Engineering Technician V	—	—		1	
TOTAL 821	Administrative Unit	1	1	200,508	2	293,796
<b>823</b>	<b>Electrical Engineering Unit</b>					
HP15	Associate Process Control Engineer	1	2		2	
HP14	Engineering Technician V	1	1		—	
NR6251	Chief Electrical Operator	1	1		1	
NR6233	Electrical Operator II	5	5		5	
NR6232	Electrical Operator I	6	6		6	
TOTAL 823	Electrical Engineering Unit	14	15	1,521,636	14	1,462,870
<b>824</b>	<b>Maintenance Unit</b>					
HP19	Master Mechanic	—	1		1	
HP18	Master Mechanic I	1	—		—	
HP18	Master Mechanic I #1	—	1		—	
HP17	Assistant Master Mechanic	3	3		3	
PR5353	Bricklayer	1	1		1	
PR5155	Carpenter Leadman	1	1		1	

Fund: Corporate Dept: Maintenance & Operations Division: Calumet Service Area		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
PR5153	Carpenter	2	2		2	
PR7425	Electrical Instrument & Testing Mechanic Foreman	1	1		1	
PR7423	Electrical Instrument & Testing Mechanic	7	7		7	
PR7347	Electrical Mechanic Foreman	1	1		1	
PR7349	Electrical Mechanic Sub-Foreman	1	1		1	
PR7343	Electrical Mechanic	9	10		10	
PR6453	Hoisting Engineer	3	3		3	
PR7579	Machinist Foreman	1	1		1	
PR7573	Machinist	10	10		10	
PR5553	Painter	2	2		2	
PR7779	Pipefitter Foreman	1	1		1	
PR7773	Pipefitter	9	9		9	
PR5753	Plumber	2	2		2	
PR5975	Structural Ironworker Leadman	1	1		1	
PR5973	Structural Ironworker	5	5		5	
PR5973	Structural Ironworker #1	—	—		1	
PR6479	Truck Driver Foreman	1	1		1	
PR6473	Truck Driver	4	4		4	
TOTAL 824	Maintenance Unit	66	68	7,076,768	68	7,167,487
<b>843</b>	<b>Buildings &amp; Grounds Unit</b>					
HP14	Engineering Technician V	—	1		1	
HP12	Engineering Technician IV	2	1		1	
NR8331	Laborer Foreman	2	2		2	
NR8651	Maintenance Laborer Class A	8	8		8	
NR8652	Maintenance Laborer Class B	10	10		10	
TOTAL 843	Buildings & Grounds Unit	22	22	1,552,037	22	1,593,152
TOTAL 820	Plant Engineering & Maintenance Section	103	106	10,350,949	106	10,517,304

Fund: Corporate Dept: Maintenance & Operations Division: Calumet Service Area		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
<b>830</b>	<b>Plant Operations Section</b>					
<b>831</b>	<b>Administrative Unit</b>					
HP21	Engineer of Treatment Plant Operations I #2 (Managing Engineer) (New Grade HP20)	1	1		1	
HP18	Principal Engineer	1	1		1	
TOTAL 831	Administrative Unit	2	2	376,626	2	376,626
<b>832</b>	<b>Treatment Operations Unit</b>					
HP16	Treatment Plant Operator III	1	1		1	
HP14	Treatment Plant Operator II	7	7		7	
HP14	Treatment Plant Operator II #4	1	1		1	
HP12	Treatment Plant Operator I	5	5		5	
NR8650	Maintenance Laborer Class A Shift	8	8		8	
NR8651	Maintenance Laborer Class A	1	1		1	
TOTAL 832	Treatment Operations Unit	23	23	2,059,247	23	2,083,527
<b>834</b>	<b>Mechanical Operations Unit</b>					
HP17	Chief Operating Engineer I	1	1		1	
HP16	Assistant Chief Operating Engineer	2	2		2	
NR6810	Fireman-Oiler	5	5		5	
NR8650	Maintenance Laborer Class A Shift	7	7		7	
NR6832	Operating Engineer II	12	12		12	
NR6831	Operating Engineer I	18	18		18	
PR6473	Truck Driver	2	2		2	
TOTAL 834	Mechanical Operations Unit	47	47	4,704,766	47	4,809,986
<b>839</b>	<b>Lemont Operations Unit</b>					
HP14	Treatment Plant Operator II	1	1		1	
HP12	Treatment Plant Operator I	2	2		2	
TOTAL 839	Lemont Operations Unit	3	3	278,394	3	278,394
TOTAL 830	Plant Operations Section	75	75	7,419,034	75	7,548,533
TOTAL	Maintenance & Operations Calumet Service Area	185	188	18,495,550	188	18,789,206

Note: There are no positions budgeted for the Stormwater Management Fund for 2020.

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. Dollar amounts may not add up due to rounding.

101 69000	Fund: Corporate Department: Maintenance & Operations Division: Stickney Service Area	LINE ITEM ANALYSIS						
		2018	2019			2020		
		Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19
601010	Salaries of Regular Employees	\$ 34,673,981	\$ 36,701,800	\$ 36,101,800	\$ 25,043,611	\$ 35,547,000	\$ 37,124,200	\$ 37,124,200
601060	Compensation Plan Adjustments	2,091,249	2,007,800	2,607,800	1,921,546	2,106,100	2,542,500	2,542,500
601070	Social Security and Medicare Contributions	512,672	543,400	543,400	390,922	534,100	546,700	546,700
601080	Salaries of Nonbudgeted Employees	—	1,500	1,500	—	—	1,500	1,500
601100	Tuition and Training Payments	75,049	91,500	91,500	32,054	80,000	91,500	91,500
100	TOTAL PERSONAL SERVICES	37,352,951	39,346,000	39,346,000	27,388,133	38,267,200	40,306,400	40,306,400
612010	Travel	6,101	7,400	7,400	573	5,000	5,400	5,400
612030	Meals and Lodging	23,815	21,600	21,600	16,839	21,000	26,500	26,500
612050	Compensation for Personally-Owned Automobiles	42,138	40,000	40,000	33,484	38,000	45,000	45,000
612080	Motor Vehicle Operating Services	66	300	300	29	200	300	300
612150	Electrical Energy	20,668,245	20,726,700	20,726,700	13,236,322	22,926,700	20,226,600	20,226,600
612160	Natural Gas	1,732,690	1,896,600	1,866,600	908,785	1,800,000	2,022,600	2,022,600
612170	Water and Water Services	1,538,092	1,437,600	1,437,600	1,116,891	1,337,900	1,543,200	1,543,200
612210	Communication Services	181,452	—	—	—	—	—	—
612240	Testing and Inspection Services	106,524	51,500	57,700	49,881	51,200	64,400	64,400
612330	Rental Charges	130,631	139,900	139,800	139,218	133,000	146,000	146,000
612410	Governmental Service Charges	89,880	90,200	90,200	89,880	90,200	90,200	90,200
612420	Maintenance of Grounds and Pavements	136,054	505,000	143,700	139,610	203,500	550,500	550,500
612430	Payments for Professional Services	18,540	19,000	19,000	18,540	18,600	19,000	19,000
612490	Contractual Services, N.O.C.	188,918	403,700	386,400	371,537	324,300	372,400	372,400
612520	Waste Material Disposal Charges	542,014	606,500	606,500	606,500	539,000	583,000	583,000
612590	Sludge Disposal	3,785,843	—	—	—	—	—	—
612600	Repairs to Collection Facilities	2,099,659	2,071,500	2,320,300	2,320,218	2,261,000	2,032,000	2,247,500
612650	Repairs to Process Facilities	2,529,413	3,080,700	3,429,200	3,417,874	3,162,000	4,698,500	4,483,000
612670	Repairs to Railroads	312,917	266,900	417,600	302,749	216,000	396,700	396,700
612680	Repairs to Buildings	237,061	289,000	268,300	264,447	253,000	471,500	471,500
612780	Safety Repairs and Services	119,336	215,100	215,100	214,162	170,200	215,100	215,100
612840	Communications Equipment Maintenance (Includes Software)	3,120	—	—	—	—	—	—
612860	Repairs to Vehicle Equipment	16,453	24,600	18,800	18,730	16,000	24,600	24,600
612990	Repairs, N.O.C.	1,202	16,500	16,500	16,200	15,900	16,500	16,500
200	TOTAL CONTRACTUAL SERVICES	34,510,162	31,910,300	32,229,300	23,282,467	33,582,700	33,550,000	33,550,000
623030	Metals	9,949	10,400	12,800	12,800	11,500	10,400	10,400
623070	Electrical Parts and Supplies	934,311	1,041,700	1,106,700	1,039,885	1,041,700	1,108,200	1,108,200
623090	Plumbing Accessories and Supplies	231,648	452,800	349,000	323,033	387,000	338,600	338,600

101 69000	Fund: Corporate Department: Maintenance & Operations Division: Stickney Service Area	LINE ITEM ANALYSIS						
		2018		2019			2020	
		Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19
623110	Hardware	3,398	3,500	3,500	3,286	3,200	6,100	6,100
623130	Buildings, Grounds, Paving Materials, and Supplies	32,840	40,200	50,700	50,578	47,500	40,200	40,200
623170	Fiber, Paper, and Insulation Materials	4,641	11,100	11,100	11,016	9,500	13,500	13,500
623190	Paints, Solvents, and Related Materials	3,388	8,800	8,800	8,800	2,300	1,300	1,300
623250	Vehicle Parts and Supplies	42,416	38,000	38,000	37,658	36,400	38,000	38,000
623270	Mechanical Repair Parts	2,027,063	1,927,800	2,100,000	1,954,676	1,927,800	2,458,100	2,458,100
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	10,635	11,000	15,000	14,258	11,600	11,000	11,000
623560	Processing Chemicals	7,024,418	8,966,000	8,384,800	8,213,073	7,256,000	8,300,500	8,300,500
623570	Laboratory Testing Supplies, Small Equipment, and Chemicals	364	—	1,600	1,280	1,400	800	800
623660	Cleaning Supplies	465	700	1,000	782	800	700	700
623680	Tools and Supplies	97,140	124,100	124,100	117,451	105,000	99,100	99,100
623700	Wearing Apparel	—	600	600	245	600	600	600
623780	Safety and Medical Supplies	20,775	1,400	1,400	145	300	1,400	1,400
623800	Computer Software	19,239	18,100	18,100	15,542	15,600	61,500	61,500
623810	Computer Supplies	26,257	143,300	79,800	75,489	85,800	10,000	10,000
623820	Fuel	63,906	92,000	92,000	91,910	83,900	87,400	87,400
623840	Gases	58	600	600	600	500	600	600
623850	Communications Supplies	4,900	—	—	—	—	—	—
623860	Lubricants	1,659	1,200	2,900	2,854	2,900	1,200	1,200
623990	Materials and Supplies, N.O.C.	38,285	46,700	42,200	34,848	22,500	31,700	31,700
300	TOTAL MATERIALS AND SUPPLIES	10,597,755	12,940,000	12,444,700	12,010,210	11,053,800	12,620,900	12,620,900
634650	Eqpt for Proc Facil	—	—	70,000	68,900	—	—	—
634670	Railroad Equipment	—	—	20,800	20,779	20,800	—	—
634860	Vehicle Equipment	—	279,000	282,900	282,723	282,800	—	—
634970	Testing and Laboratory Equipment	7,904	—	—	—	—	—	—
634990	Machinery and Equipment, N.O.C.	11,225	36,000	32,400	32,308	32,400	87,500	87,500
400	TOTAL MACHINERY AND EQUIPMENT	19,129	315,000	406,100	404,711	336,000	87,500	87,500
TOTAL STICKNEY SERVICE AREA		\$ 82,479,997	\$ 84,511,300	\$ 84,426,100	\$ 63,085,520	\$ 83,239,700	\$ 86,564,800	\$ 86,564,800

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						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 24,781,944	\$ 24,611,100	\$ 24,236,100	\$ 15,886,477	\$ 22,687,900	\$ 23,829,000	\$ 23,829,000
601060	Compensation Plan Adjustments	454,091	459,100	759,100	509,479	602,800	503,600	503,600
601070	Social Security and Medicare Contributions	349,299	355,700	355,700	234,517	318,600	366,200	366,200
601100	Tuition and Training Payments	55,584	118,300	118,300	73,515	75,600	98,000	98,000
100	TOTAL PERSONAL SERVICES	25,640,918	25,544,200	25,469,200	16,703,988	23,684,900	24,796,800	24,796,800
612010	Travel	10,585	10,000	10,000	4,777	7,000	12,800	12,800
612030	Meals and Lodging	27,336	17,600	17,600	13,462	17,000	34,700	34,700
612040	Postage, Freight, and Delivery Charges	1,460	1,500	1,500	1,500	1,300	1,500	1,500
612050	Compensation for Personally-Owned Automobiles	7,898	10,000	9,800	4,451	7,000	8,000	8,000
612080	Motor Vehicle Operating Services	29	200	400	214	400	500	500
612090	Reprographic Services	3,500	3,500	3,500	3,500	3,500	3,500	3,500
612170	Water and Water Services	3,799	4,000	4,000	4,000	4,000	4,500	4,500
612240	Testing and Inspection Services	—	—	—	—	—	50,000	50,000
612430	Payments for Professional Services	126,995	126,900	201,900	190,721	133,900	318,600	318,600
612490	Contractual Services, N.O.C.	82,059	83,100	83,100	82,059	82,100	83,100	83,100
612620	Repairs to Waterway Facilities	43,044	71,100	71,100	70,955	71,000	47,900	47,900
612970	Repairs to Testing and Laboratory Equipment	2,592	5,000	5,000	3,436	5,000	5,500	5,500
612990	Repairs, N.O.C.	8,088	10,000	10,000	8,312	8,300	8,800	8,800
200	TOTAL CONTRACTUAL SERVICES	317,386	342,900	417,900	387,387	340,500	579,400	579,400
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	54,319	42,600	42,600	41,441	37,000	42,300	42,300
623680	Tools and Supplies	2,476	8,000	6,700	5,624	6,700	8,200	8,200
623700	Wearing Apparel	6,033	—	—	—	—	—	—
623720	Books, Maps, and Charts	2,676	3,500	4,800	3,858	4,800	5,000	5,000
623800	Computer Software	—	—	—	—	—	21,000	21,000
623990	Materials and Supplies, N.O.C.	—	—	—	—	—	200	200
300	TOTAL MATERIALS AND SUPPLIES	65,504	54,100	54,100	50,923	48,500	76,700	76,700
TOTAL ENGINEERING		\$ 26,023,808	\$ 25,941,200	\$ 25,941,200	\$ 17,142,298	\$ 24,073,900	\$ 25,452,900	\$ 25,452,900

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.

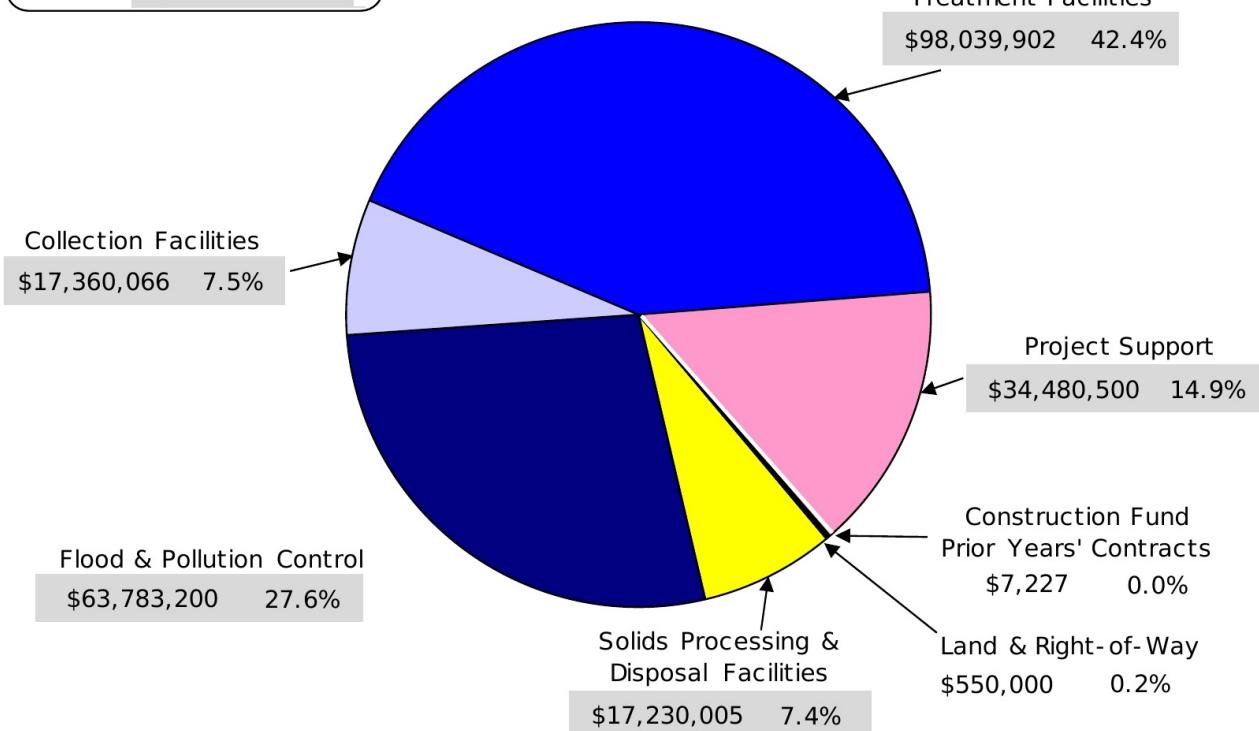
Additionally, Estimated Expenditure may either exceed Adjusted Appropriation when transfers of funds are anticipated or be less than Expenditure (Committed Budget plus Disbursement) when not all commitments are anticipated to be completed by year-end.

# CAPITAL IMPROVEMENT PROGRAM

## CONSTRUCTION AND CAPITAL IMPROVEMENTS BOND FUNDS

2020	\$231,450,900
2019	\$396,514,100
Decrease	(\$165,063,200)

### FUNCTIONS



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

### Budget Highlights

The 2020 appropriation for the Capital Improvement Program (Construction and Capital Improvements Bond Funds) is \$231,450,900, a decrease of \$165,063,200, or 41.6 percent, from 2019. The decrease is due to the timing of projects scheduled for award in 2020. A total of 110 projects funded by the Construction or Capital Improvements Bond Funds will be under planning, design, or construction in 2020. There is one channel improvement project planned for award in 2020 under the Stormwater Management Capital Improvements Bond Fund Program. There are no staff positions budgeted in the Construction and Capital Improvements Bond Funds.

## Construction Fund Program

<b>Projects Under Construction</b>						
Project Name	Project Number	Est. Construction Cost	2020 Appropriation	Duration (days)	Est. Award Date	
HVAC Improvements, Various Locations	18-611-23	\$ 1,851	\$ 270	540	Oct 2018	
Rehabilitate Raw Sewage Pump Rotating Assemblies, Various Locations	18-610-21	867	24	731	Nov 2018	
Roof Restoration, Lockport Powerhouse	19-612-22	452	452	301	Jul 2019	
Furnish, Deliver, and Install Four Sacrificial Deep Anode Ground Beds for the Cathodic Protection System, CSA	19-804-21	705	510	395	Aug 2019	
Furnish, Deliver, and Install a Shaftless Screw Conveyor in an Aerated Grit Tank, CWRP	18-802-22	415	374	300	Sep 2019	
Discharge Valve Rehabilitation, Main Sewage Pump No. 5, SWRP	19-905-21	1,088	500	806	Oct 2019	
Rehabilitate Gloria Alitto Majewski Reservoir, KWRP	16-708-21	1,200	1,100	420	Nov 2019	
Railroad Track Improvements, SSA	18-913-21	1,615	1,295	420	Nov 2019	
Furnish and Deliver Excitation Control Equipment, NBPS and RAPS	19-603-21	680	650	406	Nov 2019	
HVAC System Replacements, Various Locations	19-613-21	2,900	1,100	1,136	Nov 2019	
Rehabilitate Main Sewage Pump No. 2 Motor, SWRP	19-925-21	450	400	420	Nov 2019	
Furnish and Deliver One 44" x 80" Engine Lathe, OWRP	19-716-23	170	170	305	Dec 2019	
Furnish, Deliver, and Install an Upgraded Operator for TARP Gate I, OWRP	19-717-22	850	850	378	Dec 2019	
Total Projects Under Construction		\$ 13,243	\$ 7,695			

**Awards in 2020**

Project Name	Project Number	Est. Construction Cost	2020 Appropriation	Duration (days)	Est. Award Date
Furnish and Deliver HVAC Coils, Various Locations	19-608-22	\$ 78	\$ 78	180	Jan 2020
Rebuild Gatehouses 1 & 2 and the Sludge Concentration Building, OWRP	19-707-22		155	155	305 Mar 2020
Furnish, Deliver, and Install Effluent Pipe Liner, HPWRP	20-701-21		300	300	287 Mar 2020
Furnish, Deliver, and Install Dewatering Screw Conveyor, EWRP	20-702-21		500	250	652 Mar 2020
Advanced Combined Phosphorus and Nitrogen Recovery Pilot, SWRP	20-1XX-21		100	100	213 Jun 2020
Furnish, Deliver, and Install Shaftless Screw Conveyor Systems at the Aerated Grit Facility, CWRP	20-802-21		3,000	1,786	578 Jun 2020
Remove and Replace Two Boilers, MOB	J15090-076		1,200	1,200	122 Jun 2020
Furnish, Deliver, and Install 480V Power Feeds to Aeration Batteries A, B, and C, CWRP	J68823-001.A		250	250	213 Jun 2020
Furnish, Deliver, and Install Automatic Transfer Switches, LWRP	J68823-002.A		250	250	213 Jun 2020
Total 2020 Awards		\$ 5,833	\$ 4,369		
Cumulative Projects Under Construction and 2020 Awards		\$ 19,076	\$ 12,064		

**Note: All cost figures are in thousands of dollars.**

201 50000	Fund: Construction Department: Engineering	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
612240	Testing and Inspection Services	\$ 661,739	\$ 1,303,000	\$ 1,321,500	\$ 1,321,345	\$ 1,125,000	\$ 892,700	\$ 892,700
612400	Intergovernmental Agreements	64,280	1,068,500	1,068,500	1,068,500	68,400	1,065,000	2,065,000
612430	Payments for Professional Services	2,394,499	1,131,200	1,112,700	845,185	794,900	1,900,000	1,900,000
612440	Preliminary Engineering Reports and Studies	25,810	213,000	213,000	204,089	204,200	123,000	123,000
612450	Professional Engineering Services for Construction Projects	11,875	—	—	—	—	—	—
612490	Contractual Services, N.O.C.	—	50,000	50,000	—	—	—	—
200	TOTAL CONTRACTUAL SERVICES	3,158,203	3,765,700	3,765,700	3,439,119	2,192,500	3,980,700	4,980,700
634600	Equipment for Collection Facilities	292,783	641,000	641,000	209,717	209,800	—	—
634620	Equipment for Waterway Facilities	55,882	17,000	104,000	100,837	100,900	—	—
634650	Equipment for Process Facilities	1,278,950	1,297,000	1,187,000	953,759	834,500	50,000	248,000
634760	Material Handling and Farming Equipment	2,083,630	740,000	653,000	646,651	646,700	—	—
634810	Computer Equipment	403,906	—	—	—	—	—	—
634820	Computer Software	44,140	45,000	45,000	—	—	—	—
634840	Communications Equipment (Includes Software)	40,888	150,000	150,000	—	—	—	—
634860	Vehicle Equipment	845,413	180,000	290,000	286,195	286,200	—	—
400	TOTAL MACHINERY AND EQUIPMENT	5,045,591	3,070,000	3,070,000	2,197,159	2,078,100	50,000	248,000
645600	Collection Facilities Structures	851,884	300,000	300,000	208,828	213,900	—	—
645650	Process Facilities Structures	1,017,290	1,209,000	959,600	764,150	607,700	473,500	473,500
645680	Buildings	1,956,127	3,061,000	3,948,500	2,552,272	2,838,300	1,470,000	1,922,000
645690	Capital Projects, N.O.C.	138,500	1,388,000	563,000	562,450	562,500	—	—
645700	Preservation of Collection Facility Structures	—	2,540,000	2,892,400	2,052,051	1,506,800	4,034,000	4,034,000
645720	Preservation of Waterway Facility Structures	446,215	300,000	300,000	75,000	75,000	—	—
645750	Preservation of Process Facility Structures	293,966	1,414,800	564,800	329,478	457,000	2,836,400	2,836,400
645780	Preservation of Buildings	2,089,656	1,238,200	1,293,200	1,059,432	1,044,800	1,204,000	1,255,000
645790	Preservation of Capital Projects, N.O.C.	29,976	53,600	683,100	384,576	170,000	1,294,800	1,294,800
500	TOTAL CAPITAL PROJECTS	6,823,613	11,504,600	11,504,600	7,988,237	7,476,000	11,312,700	11,815,700
TOTAL CONSTRUCTION FUND		\$ 15,027,407	\$ 18,340,300	\$ 18,340,300	\$ 13,624,515	\$ 11,746,600	\$ 15,343,400	\$ 17,044,400

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 2020

Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date
Odor Control Systems at Two TARP Shafts and Decommissioning the Thornton Transitional Reservoir, CSA	15-266-4H3	\$ 15,366	502	Jan 2020
Sidestream Enhanced Biological Phosphorus Removal Pilot Study, CWRP	18-248-3P	1,600	252	Jan 2020
Drop Shaft 5 Inspection and Rehabilitation, NSA	14-372-3SR	4,000	352	Mar 2020
Furnish, Deliver, and Install Disc Filters, EWRP	18-702-31	4,000	659	Mar 2020
Furnish, Deliver, and Install Three Bar Screens, KWRP	18-703-31	1,800	659	Mar 2020
Rehabilitation of Gravity Concentration Tank, CWRP	18-803-32	2,300	666	Mar 2020
Furnish, Deliver, and Install Disc Filters for Filters 3 and 4, HPWRP	19-701-31	1,700	482	Mar 2020
Furnish, Deliver, and Install Coarse Screens, SWRP	20-903-31	6,000	1,390	Mar 2020
Furnish, Deliver, and Install Telemetry Replacement for SCADA Control, Various Locations	17-606-31	545	266	Apr 2020
Phosphorus Removal Liquid Facilities at the Fox River Water Reclamation District	18-IGA-36	9,762	646	Apr 2020
North Side Sludge Pipeline Replacement - Section 1, NSA	07-027-3S	15,590	922	May 2020
A/B and C/D Service Tunnel Rehabilitation - Phase III, SWRP	16-127-3D	17,000	1,047	May 2020
Central Boiler Facility and Electrical Updates, HPWRP	19-542-3M	14,000	652	May 2020
Rehabilitation of Steel Spandrel Beams of Pump and Blower House, OWRP	15-069-3D	10,000	921	Jun 2020
Upper Des Plaines Intercepting Sewer 14B Rehabilitation, NSA	06-360-3S	7,000	313	Jul 2020
Battery A Final Settling Tanks, Rehabilitation of Concrete and Road Replacement, SWRP	08-174-3D	7,700	322	Jul 2020
Utility Tunnel Cracks and Expansion Joints Rehabilitation, OWRP, KWRP, EWRP, HPWRP	17-843-3D	3,000	682	Jul 2020
Rehabilitation of Elevator Shafts, MSPS	18-142-3H	1,500	322	Jul 2020
Installation of Mechanical Mixers, SWRP	19-157-3P	11,500	424	Jul 2020
McCook Reservoir Stage 2 Rock Wall Stabilization and Instrumentation, SWRP	17-131-4F	17,268	1,230	Aug 2020
Roof Replacement of the Lue-Hing M&R Complex, SWRP	17-135-3V	6,500	493	Sep 2020
Furnish, Deliver, and Install Replacement Gearboxes for SEPA(s) 2 & 5, CWRP	20-801-31	1,200	851	Sep 2020
6th Street Construction and Utility Tunnel Rehabilitation, CWRP	19-257-3D	2,000	322	Dec 2020
Total 2020 Awards		\$ 161,331		

## Projects Under Development

Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date
North Shore 1 Rehabilitation, NSA	10-047-3S	\$ 22,750	1,000	Jan 2021
Waste Activated and Primary Sludge Pump Upgrades, SWRP	20-901-31	1,100	720	Jan 2021
Rehabilitation of Locomotive Terminal Building, SWRP	18-143-3D	2,750	592	Feb 2021
Digester Rehabilitation and Gas Piping Replacement Phase II, SWRP	18-148-3P	11,500	742	Mar 2021
Chemical Phosphorus Removal Facility, CWRP	18-254-3P	14,000	312	Mar 2021
Furnish, Deliver, and Install Elevator Upgrades, NSA	21-701-31	900	660	Mar 2021
Rehabilitation of the Overhead Bridge Crane in the Discharge Valve Chamber, MSPS	21-901-31	1,100	300	May 2021
Lockport Turbine Generator Rehabilitation, SSA	21-601-31	1,100	300	Jul 2021
Final Settling Tank Effluent Conduit Rehabilitation and Ultraviolet Facility Upgrades, OWRP	19-084-3P	2,000	512	Aug 2021
39th Street Conduit Rehabilitation - Phase II, SSA	01-103-AS	24,700	749	Jan 2022
Gate Control Equipment Upgrade at TARP Control Structures, NSA	06-358-3M	2,200	552	Jan 2022
Upper Des Plaines Intercepting Sewer 11D, Ext. C Rehabilitation, NSA	11-404-3S	5,500	462	Jan 2022
Boilers 3-5 and Motor Control Center Replacement, SWRP	19-155-3M	13,000	732	Jan 2022
Digester Rehabilitation, HPWRP	19-541-3P	6,000	572	Jan 2022
TARP Control System Replacement, SSA, CSA, NSA	19-856-3E	25,000	412	Feb 2022
Switchgear and Motor Control Center Replacement, CWRP	19-258-3E	23,000	512	Apr 2022
Upper Des Plaines Intercepting Sewer 11D Rehabilitation, NSA	12-369-3S	5,500	462	Nov 2022
Battery D Final Settling Tanks, Rehabilitation of Concrete, SWRP	16-130-3D	3,000	512	Jan 2023
Low Voltage Switchgear Replacement, MSPS	19-154-3E	9,000	512	Jan 2023
Low Voltage Pump and Blower Switchgear and Aerated Grit Motor Control Center Replacement, SWRP	19-156-3E	6,750	552	Jan 2023
Rehabilitation of Pump and Blower House, CWRP	19-255-3D	4,000	562	Jan 2023
Battery C Final Settling Tanks, Rehabilitation of Concrete, SWRP	16-129-3D	3,000	512	Feb 2023
Post-Digestion Dewatering System, CWRP	17-275-3P	15,000	552	Feb 2023
Digester Rehabilitation and Gas Piping Replacement, CWRP	18-253-3P	15,000	842	Feb 2023
Battery B Final Settling Tanks, Rehabilitation of Concrete, SWRP	16-128-3D	5,000	512	Mar 2023
Upgrade Wilmette Lift Station, NSA	19-083-3P	1,500	382	Jun 2023
Southwest Coarse Screen Replacement, SWRP	19-153-3P	15,000	712	Jun 2023
Phosphorus Removal, KWRP	19-375-3P	6,500	512	Jun 2023
Lockport Powerhouse and Waterways Control System Replacement, SSA	19-855-3E	3,000	452	Sep 2023
Decommissioning of Battery B & C Imhoff Tanks and Skimming Tanks 9-16, SWRP	19-152-3P	10,000	572	Jun 2024
Digester Gas Utilization Facilities, SWRP	11-189-3P	60,000	743	Jan 2025
Phosphorus Recovery System, CWRP	12-245-3P	31,000	912	Jan 2025
Phosphorus Removal, EWRP	19-415-3P	30,000	512	Jan 2025
Palos Hills Pumping Station Force Main, CSA	11-242-3S	6,700	632	Mar 2025
Digester Rehabilitation and Gas Piping Replacement Phase II, CWRP	19-256-3P	10,000	732	Apr 2025
Deammonification System, SWRP	13-101-3P	30,000	563	May 2025

**Projects Under Development (continued)**

Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date
Additional Grit Removal Tank, Chemical Phosphorus Removal Facility, and Construction of New Plant Entrance, LWRP	19-717-3P	\$ 6,000	612	May 2025
Plant Improvements, HPWRP	18-540-3P	20,000	742	Nov 2025
McCook Reservoir Stage 2 Final Reservoir Prep, SSA	17-132-4F	24,796	542	Jul 2028
Total Future Awards		\$ 477,346		
Cumulative 2020 and Future Awards		\$ 638,677		

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	Army Corps of Engineers	Total
Tunnel and Reservoir Plan	\$ —	\$ 2,200	\$ 42,064	\$ 44,264
Water Reclamation Plant	\$ 197,992	\$ 149,710	—	\$ 347,702
Expansion and Improvements	—	—	—	—
Solids Management	62,500	39,100	—	101,600
Collection Facilities	66,657	75,705	—	142,361
Replacement of Facilities	—	2,750	—	2,750
Other	—	—	—	—
	\$ 327,149	\$ 269,465	\$ 42,064	\$ 638,677

## 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
<b>Thornton Composite Reservoir Mining, Land, and Corp Costs, CSA</b>	77-235-2F	\$ 52,806	Jun 1998	Dec 2020
<b>McCook Reservoir Stages 1 &amp; 2, SSA</b>	73-161-2H	137,500	May 1999	Dec 2029
150 DT/Day Biosolids Processing Facility, SWRP	01-101-1M	83,123	Jun 2010	Nov 2029
McCook Reservoir Des Plaines Inflow Tunnel, SSA	13-106-4F	107,831	Jun 2016	Feb 2021
Furnish, Deliver, and Install Boiler Controls, SWRP	16-901-31	1,327	Sep 2017	Dec 2021
North Branch Dam Removal and River Riparian Connectivity, NSA	16-IGA-22	2,500	Sep 2017	Aug 2022
Installation of Shaftless Screw Conveyors for Aerated Grit Tanks, SWRP	17-902-31	2,595	Dec 2017	Jan 2021
Switchgear & Motor Control Center Replacement, OWRP	17-080-3E	3,577	Sep 2018	Jul 2020
Structural Rehabilitation and Roofing Replacement at 95th Street Pumping Station, CSA	17-276-3D	4,559	Nov 2018	Nov 2020
Furnish and Install Odor Control System, CWRP, HPWRP, and KWRP	17-844-3P	4,099	Feb 2019	Jun 2020
Energy Efficiency Improvements, SWRP	19-901-31	5,413	Apr 2019	Dec 2020
Replacement of Tailrace Stop Logs, Headrace Gates, and Equipment at Lockport Powerhouse, SSA	15-830-3D	12,075	Jun 2019	Oct 2021
Installation and Removal of Cofferdam at Sluice Gate No. 2, Lockport Powerhouse Controlling Works, SSA	18-607-31	335	Jun 2019	Jun 2020
Phosphorus Removal Struvite Facilities at the Fox River Water Reclamation District	18-IGA-35	2,639	Aug 2019	Dec 2020
Odor Control Facilities at Sludge Concentration, Southwest Coarse Screen, Overhead Weir, and Post-Centrifuge Building, SWRP	17-134-3MR	17,250	Sep 2019	Apr 2021
Modifications to TARP Control Structures & Drop Shafts, CSA and SSA	17-842-3H	2,100	Sep 2019	Oct 2020
Digester Rehabilitation and Gas Piping Replacement, SWRP	17-140-3P	15,000	Oct 2019	Oct 2021
Pump Rehabilitation and Diverter Gate Installation, EWRP	16-412-3M	550	Nov 2019	Dec 2020
Digester Sludge Heating System Upgrades and Boiler Removal, CWRP	18-277-3M	28,500	Nov 2019	Sep 2022
Rehabilitation of TARP Pumps, MSPS	18-144-3M	20,509	Dec 2019	Mar 2024
Total Projects Under Construction		\$ 504,288		

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 2020

Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date
* Addison Creek Channel Improvements, SWRP	11-187-3F	\$ 21,350	731	Aug 2020
Total 2020 Awards		\$ 21,350		

### Method of Financing

Alternate Bonds	Grants	Total
\$ 21,350	\$ —	\$ 21,350

### 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
* Construction of a Levee along Thorn Creek at Arquilla Park in Glenwood, CSA	15-IGA-14	\$ 3,483	Nov 2016	Jun 2022
Melvina Ditch Reservoir Improvements, SSA	14-263-3F	14,717	Nov 2017	Sep 2020
* Buffalo Creek Reservoir Expansion, NSA	13-370-3F	8,650	Feb 2018	Mar 2020
Acquisition of Flood Prone Properties Franklin Park (32 homes)	16-IGA-13	4,681	Oct 2018	Aug 2020
Addison Creek Reservoir, SSA	11-186-3F	63,280	Jan 2019	Feb 2022
Total Projects Under Construction		\$ 94,811		

\*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.**

401	Fund: Capital Improvements Bond 50000 Department: Engineering	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation*	Adjusted Appropriation 09/30/19**	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
612090	Reprographic Services	\$ —	\$ 10,000	\$ 20,000	\$ 10,000	\$ —	\$ 10,000	\$ 10,000
612240	Testing and Inspection Services	81,823	—	2,762	2,762	—	—	—
612250	Court Reporting Services	5,499	25,000	42,001	42,001	7,700	31,000	31,000
612400	Intergovernmental Agreements	7,460,521	16,354,100	36,652,628	28,785,479	7,546,100	13,344,700	9,861,700
612430	Payments for Professional Services	704,874	400,000	1,932,526	1,232,524	199,300	1,402,400	85,000
612440	Preliminary Engineering Reports and Studies	—	2,820,000	2,820,000	165,000	—	250,000	250,000
612450	Professional Engineering Services for Construction Projects	3,831,313	7,500,000	9,611,405	3,885,755	2,907,200	9,274,400	9,274,400
612470	Personal Services for Post-Award Engineering for Construction Projects	1,096,594	—	6,286,615	6,286,615	1,029,200	—	—
612490	Contractual Services, N.O.C.	—	—	70,600	70,596	70,600	—	—
612780	Safety Repairs and Services	—	100,000	100,000	—	—	100,000	100,000
200	TOTAL CONTRACTUAL SERVICES	13,180,625	27,209,100	57,538,536	40,480,731	11,760,100	24,412,500	19,612,100
634620	Equipment for Waterway Facilities	8,151	—	—	—	—	1,200,000	1,200,000
400	TOTAL MACHINERY AND EQUIPMENT	8,151	—	—	—	—	1,200,000	1,200,000
645600	Collection Facilities Structures	3,768,218	5,015,000	12,924,451	11,048,922	1,054,600	1,340,000	500,000
645620	Waterway Facilities Structures	17,710,683	163,752,700	194,960,473	107,192,550	45,183,600	43,184,500	39,188,200
645630	Army Corps of Engineers Services	30,578,978	800,000	29,629,589	28,800,420	2,333,500	18,131,400	18,131,400
645650	Process Facilities Structures	24,908,968	32,562,500	54,184,005	48,025,794	6,485,600	33,245,000	37,455,000
645680	Buildings	1,795,640	6,320,000	13,508,975	12,604,724	5,058,100	500,000	500,000
645690	Capital Projects, N.O.C.	922,663	—	1,018,962	922,662	219,600	—	—
645700	Preservation of Collection Facility Structures	10,772,534	58,793,800	50,397,397	37,859,587	3,402,700	16,470,000	20,670,000
645720	Preservation of Waterway Facility Structures	4,075,647	13,903,800	15,922,971	15,921,874	1,835,600	4,227,000	4,227,000
645750	Preservation of Process Facility Structures	6,814,100	45,895,800	63,088,663	61,485,514	859,700	52,528,300	53,855,300
645780	Preservation of Buildings	7,143,916	20,212,500	32,637,627	12,613,728	2,522,400	17,625,000	17,625,000
500	TOTAL CAPITAL PROJECTS	108,491,347	347,256,100	468,273,113	336,475,774	68,955,400	187,251,200	192,151,900
656010	Land	1,078,309	1,664,700	1,664,700	786,051	791,800	300,000	300,000
600	TOTAL LAND	1,078,309	1,664,700	1,664,700	786,051	791,800	300,000	300,000
667340	Payments for Easements	270,000	2,043,900	2,043,900	14,052	14,100	250,000	250,000
727102	Principal Expense - Capital Lease	2,594,850	—	37,599,608	37,599,608	2,723,100	—	—
727112	Interest Expense - Capital Lease	1,794,914	—	10,594,602	10,594,602	1,667,700	—	—

401 50000	Fund: Capital Improvements Bond Department: Engineering	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation*	Adjusted Appropriation 09/30/19**	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
767300	Bond Issuance Costs	—	—	—	—	—	892,500	892,500
700	TOTAL FIXED AND OTHER CHARGES	4,659,765	2,043,900	50,238,109	48,208,261	4,404,900	1,142,500	1,142,500
TOTAL CAPITAL IMPROVEMENTS BOND FUND		\$127,418,196	\$ 378,173,800	\$ 577,714,459	\$ 425,950,817	\$ 85,912,200	\$ 214,306,200	\$ 214,406,500

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

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

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

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.

3. The Capital Improvements Bond Fund appropriation is controlled on the Summary Object level.

## Stormwater Management Fund Program

Projects Under Construction						
Project Name	Project Number	Est. Construction Cost	2020 Appropriation	Award Date	Est. Substantial Completion Date	
Installation of Green Infrastructure at Chicago Public Schools, Various Locations	15-IGA-20	\$ 16,000	\$ 4,553	Sep 2016	Dec 2022	
* Construction of a Levee along Thorn Creek at Arquilla Park in Glenwood, CSA	15-IGA-14	387	200	Nov 2016	Jun 2022	
Land Acquisition for the Flood Control Project on Midlothian Creek in Robbins, CSA	17-IGA-02	200	200	Dec 2017	Jun 2020	
* Buffalo Creek Reservoir Expansion, NSA	13-370-3F	1,029	126	Feb 2018	Mar 2020	
Flood Control Project on Natalie Creek in Oak Forest and Midlothian, CSA	14-252-5F	7,629	6,118	Sep 2018	Dec 2020	
Streambank Stabilization Projects for Addison Creek, SSA	14-108-5F	1,546	160	Nov 2018	Apr 2020	
Stormwater Infiltration Through the Establishment of Native Habitat at Three Chicago Parks, Various Locations	18-IGA-04	239	143	Nov 2018	May 2020	
Groveland Avenue Levee Improvements in Riverside, SSA	18-IGA-20	2,506	1,767	Dec 2018	Aug 2022	
Culvert Improvements in Elk Grove Village, NSA	18-IGA-30	1,250	1,250	Mar 2019	Feb 2020	
Pilot Study for Investigating Technology to Address Basement Backups, CSA and SSA	16-IGA-20	400	400	Jun 2019	Dec 2020	
New Storm Sewers and New Storm Sewer Outfall along North Shore Avenue in Lincolnwood, NSA	18-IGA-22	1,392	1,392	Jun 2019	Nov 2020	
University of Illinois at Chicago Green Infrastructure at the Arthington Mall, SSA	18-IGA-18	242	242	Aug 2019	May 2020	
Green Alleys Project in Chicago, CSA	18-IGA-03	197	197	Sep 2019	Jun 2020	
Stormwater Storage Areas in Niles, NSA	18-IGA-31	2,000	1,521	Sep 2019	Feb 2021	
Green Infrastructure Alley Paving Improvements in Cicero, SSA	19-IGA-02	269	269	Sep 2019	May 2020	
Expansion of Existing Detention Basin in Orland Park, CSA	18-IGA-33	558	424	Oct 2019	Aug 2020	
Summit Green Infrastructure Alley Improvements, SSA	19-IGA-06	300	300	Oct 2019	Apr 2020	
Stormwater Storage in Mount Prospect, NSA	18-IGA-25	1,348	1,348	Nov 2019	Jan 2020	
Storm Sewers and Outfall in Forest View, SSA	18-IGA-28	1,000	399	Nov 2019	Jan 2020	
Streambank Stabilization Project along Midlothian Creek in Tinley Park, CSA	19-IGA-21	645	645	Nov 2019	Jan 2023	
Garfield Park Community Eco Orchard in Chicago, SSA	18-IGA-05	500	500	Dec 2019	Jan 2020	
Washington Street Green Infrastructure Parking Lot Improvements in Lansing, CSA	19-IGA-13	250	250	Dec 2019	May 2020	
Green Alley Improvements Project in Oak Park, SSA	19-IGA-14	475	475	Dec 2019	May 2020	
Green Alley Improvements Project in River Grove, SSA	19-IGA-16	385	385	Dec 2019	May 2020	
Total Projects Under Construction		\$ 40,747	\$ 23,264			

**Awards in 2020**

Project Name	Project Number	Est. Construction Cost	2020 Appropriation	Duration (days)	Est. Award Date
Streambank Stabilization Project along Calumet Union Drainage Ditch, CSA	10-882-BF	\$ 1,568	\$ 811	1,307	Jan 2020
Streambank Stabilization Project on Melvina Ditch in Oak Lawn and Chicago Ridge, CSA	13-248-5F	11,450	519	621	Jan 2020
Flood Control Project on 1st Avenue from Roosevelt Road to Cermak Road, SSA	14-111-5F	5,200	1,120	500	Jan 2020
Winchester Avenue Green Infrastructure Project in Calumet Park, CSA	18-IGA-02	360	360	120	Jan 2020
Storm Sewers Connection to Existing Des Plaines River Outfall in Forest Park, SSA	18-IGA-21	1,106	1,106	330	Jan 2020
Wetland and Park Storage Projects in Winnetka, NSA	18-IGA-24	500	500	365	Jan 2020
Cornell Avenue Green Infrastructure Project in Dolton, CSA	19-IGA-01	250	250	90	Jan 2020
Green Infrastructure in Calumet City, CSA	19-IGA-05	395	395	90	Jan 2020
Public Library Green Parking Lot in Park Ridge, NSA	19-IGA-17	650	650	270	Jan 2020
Flood Control in the vicinity of 131st Street and Cypress Drive in Palos Heights, CSA	14-259-5F	134	134	300	Mar 2020
Lake Catherine Commuter Parking Lot in Palos Heights, CSA	18-IGA-14	184	184	120	Mar 2020
Storm Sewers and Outfall to Flagg Creek in Western Springs, SSA	18-IGA-32	192	192	240	Mar 2020
Barbara Vick Outdoor Classrooms in Chicago, CSA	19-IGA-03	100	100	90	Mar 2020
School District 154 Wolcott School Playground Enhancement in Thornton, CSA	19-IGA-09	144	144	90	Mar 2020
Addison Green Alley in Chicago, SSA	19-IGA-18	150	150	90	Mar 2020
South Laflin Green Alley in Chicago, SSA	19-IGA-19	102	102	90	Mar 2020
South Homan Green Alley in Chicago, SSA	19-IGA-20	155	155	90	Mar 2020
Permeable Pavement and Rain Gardens in Posen, CSA	18-IGA-15	250	250	90	Apr 2020
Evanston/Skokie School District 65 Green Infrastructure At Orrington Elementary School, NSA	19-IGA-07	12	12	90	Apr 2020
Public Works Facility Demonstration Rain Garden in Oak Park, SSA	19-IGA-11	20	20	90	Apr 2020
Flood Control Project on Midlothian Creek in Robbins, CSA	14-253-5F	11,000	265	550	May 2020
Flood Control Project for Deer Creek, CSA	10-884-BF	6,500	2	731	Jun 2020
Culvert Upsizing and Channel Improvements on Boca Rio Ditch in Oak Forest, CSA	18-IGA-26	519	519	214	Jun 2020
Green Streets Project in Ford Heights, CSA	19-IGA-12	357	357	90	Jun 2020
Flood Control Project in the vicinity of 135th Street and Central Avenue in Crestwood, CSA	14-258-5F	9,300	149	365	Jul 2020
Streambank Stabilization Project on Tinley Creek, CSA	19-IGA-22	3,806	366	1,460	Jul 2020
* Addison Creek Channel Improvements, SWRP	11-187-3F	21,350	3,109	731	Aug 2020
Flood Control Project on the West Fork of the North Branch of the Chicago River, NSA	16-IGA-18	6,600	1,860	509	Aug 2020
Flood Control Project on Farmers Creek, NSA	12-056-AF	1,000	200	370	Oct 2020
Total 2020 Awards		\$ 83,354	\$ 13,981		

## Projects Under Development

Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date
Flood Control Project in the Worth Woods Subdivision in Worth, CSA	14-256-5F	\$ 2,500	366	Jan 2021
Flood Control Project for the Washington Street Area in Blue Island, CSA	14-260-5F	5,700	730	Jun 2021
Flood Control Project along Plainfield Road in Countryside, La Grange, McCook, and Lyons Township, SSA	14-112-5F	17,000	730	Jul 2021
Flood Control Project on Willow Road at McDonald Creek Tributary A in Prospect Heights, NSA	14-371-5F	1,800	730	Jul 2021
Flood Control Project on Prairie Creek, NSA	12-056-BF	13,100	1,460	Aug 2021
Flood Control Project on Central Road from Des Plaines River to Greenwood Road, NSA	14-065-5F	12,000	731	Sep 2021
Flood Control Project on Calumet-Sag Tributary C in Bremen Township and Midlothian, CSA	14-257-5F	3,600	365	Sep 2021
Total Future Awards		\$ 55,700		
Cumulative Projects Under Construction, 2020 Awards, and Future Awards		\$ 179,801		

\* 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.**

The Stormwater Management local cost-sharing programs for Green Infrastructure projects and stormwater projects, along with flood-prone property acquisitions and projects that are in the preliminary stages of design, will continue to be a priority for the District in addressing flooding due to increased intense rain events that overwhelm current infrastructure throughout Cook County. The table below provides planned expenditures for the fiscal years 2021-2024 not included in the detailed list of Projects Under Development presented above.

## 2021-2024 Projects Under Development

Projects	2021	2022	2023	2024	Total 2021-2024
Green Infrastructure Projects Intergovernmental Agreements	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 20,000
Local Stormwater Projects Intergovernmental Agreements	5,000	5,000	5,000	5,000	20,000
Flood-Prone Property Acquisitions	5,000	5,000	5,000	5,000	20,000
Future Stormwater Projects (projects currently under preliminary design)	—	5,000	5,000	20,000	30,000
Anticipated District Stormwater Projects from Master Planning	—	—	5,000	15,000	20,000
Total	\$ 15,000	\$ 20,000	\$ 25,000	\$ 50,000	\$ 110,000

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

501 50000	Fund: Stormwater Management	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601010	Salaries of Regular Employees	\$ 5,618,805	\$ 8,626,500	\$ 8,626,500	\$ 5,963,977	\$ 8,442,000	\$ 9,325,700	\$ 9,325,700
601060	Compensation Plan Adjustments	187,763	293,100	293,100	190,809	270,000	360,100	360,100
601070	Social Security and Medicare Contributions	81,001	127,000	127,000	89,023	122,900	131,200	131,200
601080	Salaries of Nonbudgeted Employees	—	20,000	20,000	—	—	20,000	20,000
601100	Tuition and Training Payments	9,703	11,000	11,000	5,395	10,000	42,600	42,600
601250	Health and Life Insurance Premiums	517,745	878,900	878,900	503,116	802,000	878,900	878,900
601270	General Salary Adjustments	—	—	—	—	—	143,300	143,300
100	TOTAL PERSONAL SERVICES	6,415,018	9,956,500	9,956,500	6,752,321	9,646,900	10,901,800	10,901,800
612010	Travel	1,526	2,000	3,800	2,789	3,300	4,400	4,400
612030	Meals and Lodging	2,606	4,000	11,000	9,759	10,500	11,900	11,900
612040	Postage, Freight, and Delivery Charges	1,307	2,500	2,500	2,000	1,400	2,500	2,500
612050	Compensation for Personally- Owned Automobiles	15,846	24,800	24,800	10,518	16,800	24,800	24,800
612080	Motor Vehicle Operating Services	6	800	800	55	200	3,100	3,100
612250	Court Reporting Services	12,934	12,000	12,000	12,000	12,000	49,000	49,000
612330	Rental Charges	2,036	2,500	2,500	2,500	1,500	2,500	2,500
612400	Intergovernmental Agreements	5,421,625	34,531,600	34,522,800	25,426,047	13,188,100	43,243,900	43,610,000
612430	Payments for Professional Services	283,650	775,000	775,000	373,774	311,000	635,000	635,000
612440	Preliminary Engineering Reports and Studies	1,098,908	7,605,500	7,403,500	3,895,156	2,118,000	14,828,200	14,828,200
612450	Professional Engineering Services for Construction Projects	348,581	6,534,400	6,534,400	3,989,354	2,071,000	14,209,600	14,209,600
612490	Contractual Services, N.O.C.	533,470	205,000	407,000	403,079	328,000	531,000	531,000
612520	Waste Material Disposal Charges	29,172	60,000	60,000	60,000	28,000	60,000	60,000
612620	Repairs to Waterway Facilities	2,382,830	2,500,000	2,500,000	2,500,000	2,250,000	2,519,500	2,519,500
612820	Computer Software Maintenance	145,000	145,000	145,000	140,000	140,000	—	—
612860	Repairs to Vehicle Equipment	—	—	—	—	—	2,000	2,000
612990	Repairs, N.O.C.	992	2,000	2,000	1,000	900	2,000	3,500
200	TOTAL CONTRACTUAL SERVICES	10,280,489	52,407,100	52,407,100	36,828,032	20,480,700	76,129,400	76,497,000
623130	Buildings, Grounds, Paving Materials, and Supplies	4,964	5,000	5,000	5,000	4,900	5,000	5,000
623520	Office, Printing, and Photo Supplies, Equipment, and Furniture	7,900	11,500	11,500	8,827	11,300	11,500	13,500

501 50000	Fund: Stormwater Management	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
623560	Processing Chemicals	—	5,000	5,000	5,000	4,900	5,000	5,000
623680	Tools and Supplies	5,118	11,000	11,000	8,301	7,800	11,500	11,500
623700	Wearing Apparel	1,803	8,500	8,500	8,230	7,800	8,500	8,500
623990	Materials and Supplies, N.O.C.	9,475	90,400	90,400	89,514	29,000	60,400	60,400
300	TOTAL MATERIALS AND SUPPLIES	29,259	131,400	131,400	124,872	65,700	101,900	103,900
634860	Vehicle Equipment	—	—	—	—	—	95,000	95,000
634990	Machinery and Equipment, N.O.C.	—	—	30,000	—	—	30,000	30,000
400	TOTAL MACHINERY AND EQUIPMENT	—	—	30,000	—	—	125,000	125,000
645620	Waterway Facilities Structures	305,408	22,725,400	16,954,600	11,318,422	4,500,000	17,056,900	16,687,300
645630	Army Corps of Engineers Services	—	2,145,500	2,145,500	1,609,773	1,800,000	—	—
645690	Capital Projects, N.O.C.	—	400,000	400,000	—	100,000	100,000	100,000
645720	Preservation of Waterway Facility Structures	—	2,244,200	2,244,200	1,503,300	1,383,000	6,043,000	6,043,000
500	TOTAL CAPITAL PROJECTS	305,408	27,515,100	21,744,300	14,431,495	7,783,000	23,199,900	22,830,300
656010	Land	342,433	1,000,000	4,831,600	591,902	3,800,000	2,650,000	2,650,000
600	TOTAL LAND	342,433	1,000,000	4,831,600	591,902	3,800,000	2,650,000	2,650,000
667340	Payments for Easements	345,700	400,000	2,309,200	34,033	1,400,000	3,150,000	3,150,000
700	TOTAL FIXED AND OTHER CHARGES	345,700	400,000	2,309,200	34,033	1,400,000	3,150,000	3,150,000
TOTAL STORMWATER MANAGEMENT FUND		\$ 17,718,307	\$ 91,410,100	\$ 91,410,100	\$ 58,762,655	\$ 43,176,300	\$ 116,258,000	\$ 116,258,000

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.

Fund: Stormwater Management		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars
<b>50000</b>	<b>Engineering Department</b>					
<b>516</b>	<b>Local Sewer Systems Section</b>					
HP18	Principal Civil Engineer	1	2		2	
HP17	Senior Civil Engineer	2	8		9	
HP15	Associate Civil Engineer	3	8		9	
HP14	Assistant Civil Engineer	2	6		8	
HP14	Engineering Technician V	—	3		3	
HP12	Engineering Technician IV	1	4		6	
HP12	Engineering Technician IV #4	—	1		1	
HP11	Administrative Specialist	—	1		1	
HP11	Engineering Technician III	—	1		1	
HP09	Administrative Clerk	—	2		2	
TOTAL 516	Local Sewer Systems Section	9	36	3,626,755	42	4,193,484
<b>522</b>	<b>Stormwater Management Section</b>					
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	
HP14	Public Affairs Specialist	—	1		1	
HP11	Administrative Specialist	1	1		1	
TOTAL 522	Stormwater Management Section	21	22	2,570,652	22	2,580,837
TOTAL	Engineering Department	30	58	6,197,407	64	6,774,321
<b>60000</b>	<b>Maintenance &amp; Operations Department</b>					
<b>630</b>	<b>General Division</b>					
<b>634</b>	<b>Channel Maintenance Unit</b>					
HP18	Principal Engineer	1	1		1	
HP15	Associate Civil Engineer	1	1		1	
TOTAL 634	Channel Maintenance Unit	2	2	236,240	2	268,250

Fund: Stormwater Management		POSITION ANALYSIS				
		2018	2019		2020	
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Recommended By Committee on Budget / Employment	
					Budgeted FTEs	Appropriation in Dollars
<b>636</b>	<b>Boat Operations Unit</b>					
HP14	Engineering Technician V	1	2		2	
HP14	Engineering Technician V #4	1	—		—	
HP12	Engineering Technician IV	1	2		2	
HP12	Engineering Technician IV #4	1	—		—	
NR8650	Maintenance Laborer Class A Shift	2	2		2	
<b>TOTAL 636</b>	<b>Boat Operations Unit</b>	<b>6</b>	<b>6</b>	<b>529,852</b>	<b>6</b>	<b>542,609</b>
<b>639</b>	<b>Channel Maintenance Unit</b>					
HP15	Associate Civil Engineer	—	—		1	
HP14	Engineering Technician V	1	1		1	
HP14	Engineering Technician V #4	1	1		—	
NR8650	Maintenance Laborer Class A Shift	2	2		2	
<b>TOTAL 639</b>	<b>Channel Maintenance Unit</b>	<b>4</b>	<b>4</b>	<b>394,930</b>	<b>4</b>	<b>373,749</b>
<b>679</b>	<b>Collection System Unit</b>					
NR8331	Laborer Foreman	1	1		1	
NR8650	Maintenance Laborer Class A Shift	4	4		4	
PR6473	Truck Driver	1	1		1	
<b>TOTAL 679</b>	<b>Collection System Unit</b>	<b>6</b>	<b>6</b>	<b>506,750</b>	<b>6</b>	<b>516,339</b>
<b>TOTAL 630</b>	<b>General Division</b>	<b>18</b>	<b>18</b>	<b>1,667,772</b>	<b>18</b>	<b>1,700,947</b>
<b>940</b>	<b>Stickney Service Area General Plant Services Section</b>					
<b>924</b>	<b>Stickney Maintenance Unit</b>					
PR7773	Pipefitter	1	1		1	
<b>TOTAL 924</b>	<b>Stickney Maintenance Unit</b>	<b>1</b>	<b>1</b>	<b>100,880</b>	<b>1</b>	<b>103,168</b>
<b>934</b>	<b>Stickney Mechanical Operations Unit</b>					
NR8650	Maintenance Laborer Class A Shift	4	4		4	

Fund: Stormwater Management		POSITION ANALYSIS					
		2018	2019		2020		
Pay Plan & Grade	Class Title	Actual FTEs	Budgeted FTEs	Appropriation in Dollars	Budgeted FTEs	Appropriation in Dollars	Recommended By Committee on Budget / Employment
NR6831	Operating Engineer I	4	4		4		
TOTAL 934	Stickney Mechanical Operations Unit	8	8	751,712	8	768,602	
TOTAL 940	Stickney Service Area General Plant Services Section	9	9	852,592	9	871,770	
TOTAL	Maintenance & Operations Department	27	27	2,520,364	27	2,572,716	
TOTAL	Stormwater Management	57	85	8,717,771	91	9,347,037	
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. Dollar amounts may not add up due to rounding.							

901	Fund: Reserve Claim	LINE ITEM ANALYSIS						
		2018	2019			2020		
Account Number	Account Name	Expenditure	Original Appropriation	Adjusted Appropriation 09/30/19	Expenditure (Committed Budget plus Disbursement) 09/30/19	Estimated Expenditure 12/31/19	Proposed by Executive Director	Recommended by Committee on Budget and Employment
601090	Employee Claims	\$ 4,213,964	\$ 10,000,000	\$ 10,000,000	\$ 2,643,795	\$ 4,400,000	\$ 10,000,000	\$ 10,000,000
100	TOTAL PERSONAL SERVICES	4,213,964	10,000,000	10,000,000	2,643,795	4,400,000	10,000,000	10,000,000
667220	General Claims and Emergency Repair and Replacement Costs	1,283,102	21,767,800	21,767,800	1,455,885	1,000,000	24,395,000	24,395,000
700	TOTAL FIXED AND OTHER CHARGES	1,283,102	21,767,800	21,767,800	1,455,885	1,000,000	24,395,000	24,395,000
TOTAL RESERVE CLAIM FUND		\$ 5,497,066	\$ 31,767,800	\$ 31,767,800	\$ 4,099,680	\$ 5,400,000	\$ 34,395,000	\$ 34,395,000

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."

	Tentative Budget Book Page	Executive Director's Recommendations Budget Book Page
<a href="#">Transmittal Letter, Chairman, Committee on Budget and Employment</a> .....	<a href="#">1</a>	1
<a href="#">Major Budget Amendments Impacting the 2020 Tentative Budget</a> .....	<a href="#">5</a>	N/A
<a href="#">Report of Committee on Budget and Employment</a> .....	<a href="#">6</a>	N/A
<a href="#">Comparative Statement of Appropriations, Tax Levies, and Tax Rates</a> .....	<a href="#">8</a>	44
<a href="#">Account and Personnel Summary Comparison (Table)</a> .....	<a href="#">10</a>	55
<a href="#">All Funds Summary of Revenue, Expenditures, and Net Assets Appropriable, 2020-2018</a> .....	<a href="#">12</a>	75
<a href="#">Summary of Revenues and Expenditures, 2020-2019</a> .....	<a href="#">13</a>	76
<a href="#">Personal Property Replacement Taxes Receivable, 2020 and Prior Years, Including Estimate for 2020</a> .....	<a href="#">15</a>	84
<a href="#">Corporate Fund Estimated Balance Sheet, 2020-2019</a> .....	<a href="#">16</a>	87
<a href="#">Corporate Fund Appropriable Revenue, 2020-2017</a> .....	<a href="#">17</a>	88
<a href="#">Capital Improvements Bond Fund Estimated Balance Sheet, 2020-2019</a> .....	<a href="#">18</a>	93
<a href="#">Capital Improvements Bond Fund Appropriable Revenue, 2020-2017</a> .....	<a href="#">19</a>	94
<a href="#">Construction Fund Estimated Balance Sheet, 2020-2019</a> .....	<a href="#">20</a>	95
<a href="#">Reserve Claim Fund Appropriable Revenue, 2020-2017</a> .....	<a href="#">21</a>	104
<a href="#">Corporate Fund Line Item Analysis and Position Analysis</a> .....	<a href="#">22</a>	109
<a href="#">Board of Commissioners</a> .....	<a href="#">26</a>	120
<a href="#">General Administration</a> .....	<a href="#">27</a>	135
<a href="#">Monitoring &amp; Research</a> .....	<a href="#">29</a>	156
<a href="#">Procurement &amp; Materials Management</a> .....	<a href="#">38</a>	174
<a href="#">Human Resources</a> .....	<a href="#">40</a>	192
<a href="#">Information Technology</a> .....	<a href="#">41</a>	205
<a href="#">Law</a> .....	<a href="#">46</a>	222
<a href="#">Finance</a> .....	<a href="#">47</a>	234
<a href="#">Maintenance &amp; Operations - All Divisions:</a> .....	<a href="#">48</a>	249
<a href="#">General Division</a> .....	<a href="#">51</a>	259
<a href="#">North Service Area</a> .....	<a href="#">58</a>	275
<a href="#">Calumet Service Area</a> .....	<a href="#">66</a>	290
<a href="#">Stickney Service Area</a> .....	<a href="#">71</a>	302
<a href="#">Engineering</a> .....	<a href="#">73</a>	320
<a href="#">Capital Budget</a> .....	<a href="#">74</a>	328
<a href="#">Stormwater Management Fund</a> .....	<a href="#">85</a>	444
<a href="#">Reserve Claim Fund</a> .....	<a href="#">93</a>	523
<a href="#">Page Reference Guide</a> .....	<a href="#">94</a>	N/A



## 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** Egan Treatment Plant placed into operation.
- 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.
- 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.
- 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.
- 2000** District celebrated the 100th anniversary of the reversal of the Chicago River and completed a century of protecting Chicago's water environment; ASCE names Chicago Wastewater System one of only 10 worldwide civil engineering Monuments of the Millennium.
- 2003** Thornton Transitional Reservoir placed into operation.
- 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.
- 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.
- 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.

# MWRD Water Reclamation Plants



**Calumet Water Reclamation Plant** is the longest performing of the MWRD's seven WRPs. In operation since 1922, it serves residents and businesses in the southern portion of Cook County to clean more than 350 million gallons of wastewater per day on average. The plant's service population is more than one million people in an area of about 300 square miles.



**Hanover Park Water Reclamation Plant** has been serving residents in northwestern Cook and DuPage County communities since 1963. The Hanover Park WRP serves more than 56,000 people within an 11.2 square mile area and cleans an average of 12 million gallons per day.



**Lemont Water Reclamation Plant** is a small but industrious MWRD facility that provides wastewater treatment for a service area of more than 20 square miles that includes nearly 23,000 people in the village of Lemont. It opened in 1961 and cleans an average of 2.5 million gallons of wastewater per day.



**John E. Egan Water Reclamation Plant** serves more than 160,000 residents in a 44 square mile area. In operation since 1975, the Egan WRP cleans an average of 30 million gallons of wastewater per day.



**James C. Kirie Water Reclamation Plant** opened in 1980, making it the newest of the MWRD's seven wastewater treatment plants. The 108-acre Kirie plant serves a population of about 264,000 residents in a 65.2 square mile area to clean more than 50 million gallons of wastewater per day.



**Terrence J. O'Brien Water Reclamation Plant** was built to serve residents in communities north of downtown Chicago. In operation since 1928, the O'Brien WRP serves over 1.3 million people in an area of 143 square miles and cleans an average of 230 million gallons of wastewater per day.

**Stickney Water Reclamation Plant** (front cover) is one of the largest wastewater treatment facilities in the world. It serves residents in the central part of Chicago as well as 46 other communities within a 260 square mile area. Opened in two phases in 1930 and 1939, the Stickney plant currently serves more than 2.3 million people and cleans an average of 700 million gallons of wastewater per day.

**Metropolitan Water Reclamation District of Greater Chicago**  
100 East Erie Street • Chicago, Illinois 60611-3154

# COMPARATIVE STATEMENT OF APPROPRIATIONS AND TAX LEVIES

## 2020-2018 ALL FUNDS

APPROPRIATIONS	2020 **	2019 AS PASSED	2019 AS ADJUSTED *	2018 ACTUAL
<b>FUND</b>				
Corporate Fund	\$ 399,047,500	\$ 377,612,500	\$ 377,612,500	\$ 370,209,200
Construction Fund	18,044,400	18,340,300	18,340,300	26,080,600
Capital Improvements Bond Fund ***	244,547,400	378,173,800	378,173,800	312,982,900
Stormwater Management Fund	116,258,000	91,410,100	91,410,100	65,581,000
Retirement Fund	107,319,000	87,281,000	87,281,000	89,604,000
Reserve Claim Fund	34,395,000	31,767,800	31,767,800	30,289,500
Bond Redemption & Interest Fund	233,021,867	238,357,541	238,357,541	256,304,187
<b>TOTAL</b>	<b>\$ 1,152,633,167</b>	<b>\$ 1,222,943,041</b>	<b>\$ 1,222,943,041</b>	<b>\$ 1,151,051,387</b>
<b>LEVIES</b>				
Corporate Fund	\$ 266,455,300	\$ 254,574,100	\$ 254,574,100	\$ 241,153,834
Construction Fund	7,000,000	7,600,000	7,600,000	11,700,000
Stormwater Management Fund	52,926,000	52,926,000	52,926,000	47,826,000
Retirement Fund	72,227,600	71,565,400	71,565,400	71,534,197
Reserve Claim Fund	7,500,000	7,500,000	7,500,000	6,000,000
Subtotal	\$ 406,108,900	\$ 394,165,500	\$ 394,165,500	\$ 378,214,031
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	20,865,901	18,950,616	18,950,616	28,911,238
2011 Unlimited Tax Series C	2,142,417	2,515,991	2,515,991	4,184,800
2014 Limited Tax Series C	7,434,975	8,286,788	8,286,788	6,763,472
2014 Unlimited Tax Series A	5,181,348	5,181,348	5,181,348	5,181,348
2014 Alternate Revenue Unlimited Tax Series B ****	3,390,570	3,391,037	3,391,037	3,390,570
2016 Alternate Revenue Unlimited Tax Series E ****	2,590,674	2,590,674	2,590,674	2,590,674
Alternate Revenue Abatement ****	—	—	—	(5,981,244)
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	98,657,072	99,555,205	100,145,406	86,551,302
State Revolving Fund Stormwater Abatement****				(170,984)
Refunding Bonds - Series:				
2007 Unlimited Tax Series A	26,727,980	26,694,301	26,694,301	26,623,057
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	13,989,638	15,895,337	15,895,337	15,130,830
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	\$ 246,537,587	\$ 248,618,309	\$ 249,208,510	\$ 238,732,075
<b>TOTAL</b>	<b>\$ 652,646,487</b>	<b>\$ 642,783,809</b>	<b>\$ 643,374,010</b>	<b>\$ 616,946,106</b>
Abatement after the budget year ****	(8,121,101)	(6,185,100)	(6,185,100)	
<b>Total (after planned abatement)</b>	<b>\$ 644,525,386</b>	<b>\$ 636,598,709</b>	<b>\$ 637,188,910</b>	

NOTES: \* As Adjusted reflects the 2018 EAV (\$155,788,046,903) estimated to increase 3.0 percent, plus any subsequent supplemental levies or appropriations.

\*\* 2020 reflects an estimated 3.0 percent increase in EAV from the 2019 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

## 2020-2018 ALL FUNDS

Per \$100 in Equalized Assessed Valuation (EAV)

FUND	2020 **	2019 AS PASSED	2019 AS ADJUSTED *	2018 ACTUAL
	tax rate limit			
Corporate Fund	41¢	16.12¢	16.22¢	15.87¢
Construction Fund	10¢	0.42	0.48	0.47
Stormwater Management Fund	5¢	3.20	3.37	3.30
Retirement Fund		4.37	4.56	4.46
Reserve Claim Fund	½ ¢	0.45	0.48	0.47
Subtotal		24.56¢	25.11¢	24.57¢
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	2.15	2.27	2.22	2.28
2011 Limited Tax Series B	1.26	1.21	1.18	1.86
2011 Unlimited Tax Series C	0.13	0.16	0.16	0.27
2014 Limited Tax Series C	0.45	0.53	0.52	0.43
2014 Unlimited Tax Series A	0.31	0.33	0.32	0.33
2014 Alternate Revenue Unlimited Tax Series B ***	0.21	0.22	0.21	0.22
2016 Alternate Revenue Unlimited Tax Series E ***	0.16	0.17	0.16	0.17
Alternate Revenue Abatement ***	—	—	—	(0.39)
2016 Unlimited Tax Series C	0.09	0.10	0.10	0.10
2016 Limited Tax Series D	0.06	0.07	0.06	0.07
State Revolving Fund Bonds - Series:				
Various	5.97	6.34	6.24	5.56
Refunding Bonds - Series:				
2007 Unlimited Tax Series A	1.62	1.70	1.66	1.71
2007 Unlimited Tax Series B	0.30	0.32	0.31	0.32
2007 Limited Tax Series C	0.34	0.35	0.35	0.36
2014 Limited Tax Series D	0.85	1.01	0.99	0.97
2016 Unlimited Tax Series A	0.88	0.93	0.91	0.93
2016 Limited Tax Series B	0.13	0.14	0.13	0.14
Subtotal Bond Redemption & Interest Fund		14.92¢	15.86¢	15.53¢
<b>TOTAL</b>		<b>39.48¢</b>	<b>40.97¢</b>	<b>39.62¢</b>

NOTES: \* As Adjusted reflects the 2018 EAV (\$155,788,046,903) estimated to increase 3.0 percent, plus any subsequent supplemental levies or appropriations.

\*\* 2020 reflects an estimated 3.0 percent increase in EAV from the 2019 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  
2020 - 2019 ALL FUNDS**

ORGANIZATION OR FUND	Account Appropriation		Increase (Decrease) 2020-2019	
	2020	2019	Dollars	Percent
	\$ 5,242,200	\$ 5,256,000	\$ (13,800)	(0.3)
<b>Board of Commissioners</b>				
<b>General Administration</b>	32,034,900	18,713,800	13,321,100	71.2
<b>Monitoring &amp; Research</b>	31,551,700	31,548,300	3,400	—
<b>Procurement &amp; Materials Management</b>	9,884,700	9,821,100	63,600	0.6
<b>Human Resources</b>	61,329,200	60,229,600	1,099,600	1.8
<b>Information Technology</b>	18,369,500	18,592,700	(223,200)	(1.2)
<b>Law</b>	7,258,200	7,177,700	80,500	1.1
<b>Finance</b>	3,834,400	3,739,800	94,600	2.5
<b>Maintenance &amp; Operations:</b>				
<b>General Division</b>	32,861,600	31,771,800	1,089,800	3.4
<b>North Service Area</b>	45,502,900	43,582,000	1,920,900	4.4
<b>Calumet Service Area</b>	38,960,500	36,727,200	2,233,300	6.1
<b>Stickney Service Area</b>	86,564,800	84,511,300	2,053,500	2.4
<b>TOTAL Maintenance &amp; Operations</b>	\$ 203,889,800	\$ 196,592,300	\$ 7,297,500	3.7
<b>Engineering</b>	25,652,900	25,941,200	(288,300)	(1.1)
<b>TOTAL Corporate Fund</b>	\$ 399,047,500	\$ 377,612,500	\$ 21,435,000	5.7
<b>Construction Fund</b>	18,044,400	18,340,300	(295,900)	(1.6)
<b>Capital Improvements Bond Fund</b>	244,547,400	378,173,800	(133,626,400)	(35.3)
<b>TOTAL Capital Budget</b>	\$ 262,591,800	\$ 396,514,100	\$ (133,922,300)	(33.8)
<b>Stormwater Management Fund</b>	116,258,000	91,410,100	24,847,900	27.2
<b>Bond Redemption &amp; Interest Fund</b>	233,021,867	238,357,541	(5,335,674)	(2.2)
<b>Retirement Fund</b>	107,319,000	87,281,000	20,038,000	23.0
<b>Reserve Claim Fund</b>	34,395,000	31,767,800	2,627,200	8.3
<b>GRAND TOTAL</b>	<b>\$1,152,633,167</b>	<b>\$1,222,943,041</b>	<b>\$ (70,309,874)</b>	<b>(5.7)</b>

## ALL FUNDS

### SUMMARY OF REVENUE, EXPENDITURES, AND NET ASSETS APPROPRIABLE (b)

### 2020 BUDGETED, 2019 ESTIMATED, AND 2018 ACTUAL

(In Thousands)

	FUND							
	CORPORATE	CAPITAL IMPROVEMENTS BOND	CONSTRUCTION	STORMWATER MANAGEMENT	RETIREMENT (d)	BOND REDEMPTION & INTEREST (d)	RESERVE CLAIM (d)	TOTAL
<b>2020 BUDGETED</b>								
Net Assets Appropriable	\$ 137,567.9	\$ (653,354.3)	\$ 10,924.4	\$ 68,559.6	\$ 87,319.0	\$ 228,460.3	\$ 33,695.0	\$ (86,828.1)
Net Assets Appropriated	\$ 33,902.5	\$ (653,354.3)	\$ 10,924.4	\$ 68,559.6	\$ 87,319.0	\$ 228,460.3	\$ 33,695.0	\$ (190,493.5)
Revenue	365,145.0	897,901.7	7,120.0	47,698.4	20,000.0	4,561.6	700.0	1,343,126.7
Appropriation	\$ 399,047.5	\$ 244,547.4	\$ 18,044.4	\$ 116,258.0	\$ 107,319.0	\$ 233,021.9	\$ 34,395.0	\$ 1,152,633.2
<b>2019 ESTIMATED</b>								
Beginning Net Assets Appropriable as adjusted (c)	\$ 131,481.8	\$ (636,126.1)	\$ 14,578.6	\$ 59,291.7	\$ 87,281.0	\$ 229,469.6	\$ 31,140.8	\$ (82,882.6)
Revenue (a)	354,945.3	68,684.0	7,647.0	52,009.5	—	8,887.9	680.4	492,854.1
Adjustment for 2018 receipts	6,988.3	—	(554.6)	434.7	—	—	—	6,868.4
Expenditures	(355,847.6)	(85,912.2)	(10,746.6)	(43,176.3)	(87,281.0)	(238,357.5)	(5,400.0)	(826,721.2)
Ending Net Assets Appropriable	\$ 137,567.9	\$ (653,354.3)	\$ 10,924.4	\$ 68,559.6	—	—	\$ 26,421.2	\$ (409,881.2)
<b>2018 ACTUAL</b>								
Beginning Net Assets Appropriable as adjusted (c)	\$ 140,974.1	\$ (615,827.5)	\$ 18,526.9	\$ 36,706.1	\$ 89,604.0	\$ 248,026.5	\$ 30,350.0	\$ (51,639.9)
Revenue	339,004.5	107,119.5	11,079.1	40,303.9	—	8,277.6	465.5	506,250.1
Expenditures	(348,496.7)	(127,418.2)	(15,027.4)	(17,718.3)	(89,604.0)	(256,304.2)	(5,497.1)	(860,065.9)
Ending Net Assets Appropriable	\$ 131,481.8	\$ (636,126.1)	\$ 14,578.6	\$ 59,291.7	—	—	\$ 25,318.4	\$ (405,455.6)
Adjusted NAA 1/1/2019	\$ 138,470.1		\$ 14,024.0	\$ 59,726.4				
Adjustment (a)	\$ 6,988.3		\$ (554.6)	\$ 434.7				

(a) Adjustment to NAA required due to current 2019 estimate on collection of property tax levies and PPRT. See the Balance Sheets and Appropriable Revenue statements 01/01/2019 for the Corporate (pages 87 - 88), Construction (pages 95 - 96), and Stormwater Management (pages 99 - 100) Funds. The adjustment is reflected in the 2019 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**  
**2020 BUDGETED**  
(In Thousands)

	FUND							
	CORPORATE	CAPITAL IMPROVEMENTS BOND*	CONSTRUCTION	STORMWATER MANAGEMENT	RETIREMENT	BOND REDEMPTION & INTEREST	RESERVE CLAIM	TOTAL
<b>REVENUE</b>								
Net Assets Appropriable	\$ 137,567.9	\$ (653,354.3)	\$ 10,924.4	\$ 68,559.6	\$ 87,319.0	\$ 228,460.3	\$ 33,695.0	\$ (86,828.1)
Budget Reserve	(103,665.4)	—	—	—	—	—	—	(103,665.4)
Net Property Taxes	257,129.4	—	6,755.0	51,073.6	—	—	—	314,958.0
Personal Property Replacement Tax	19,000.0	—	—	—	—	—	—	19,000.0
Working Cash Borrowings Adjustment	(4,929.4)	—	(55.0)	(773.6)	—	—	—	(5,758.0)
Bond Sales (Present & Future)	—	813,529.7	—	—	—	—	—	813,529.7
Grants (Federal & State)	—	14,472.0	—	1,360.0	—	—	—	15,832.0
Investment Income	2,100.0	6,900.0	400.0	1,000.0	—	1,600.0	700.0	12,700.0
State Revolving Fund Loans	—	70,000.0	—	—	—	—	—	70,000.0
Property & Services	23,000.0	—	—	1,000.0	—	—	—	24,000.0
User Charge	43,000.0	—	—	—	—	—	—	43,000.0
TIF Differential Fee & Impact Fee	19,225.0	—	—	—	—	—	—	19,225.0
Equity Transfer for Stormwater Bond Payment	—	—	—	(5,961.6)	—	5,961.6	—	—
Equity Transfer to Retirement Fund**	—	(9,000.0)	—	—	20,000.0	(3,000.0)	—	8,000.0
Resource Recovery	600.0	—	—	—	—	—	—	600.0
Miscellaneous	6,020.0	2,000.0	20.0	—	—	—	—	8,040.0
<b>TOTAL REVENUE</b>	<b>\$ 399,047.5</b>	<b>\$ 244,547.4</b>	<b>\$ 18,044.4</b>	<b>\$ 116,258.0</b>	<b>\$ 107,319.0</b>	<b>\$ 233,021.9</b>	<b>\$ 34,395.0</b>	<b>\$ 1,152,633.2</b>
<b>EXPENDITURES</b>								
Board of Commissioners	\$ 5,242.2	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 5,242.2
General Administration	32,034.9	—	—	—	—	—	—	32,034.9
Monitoring & Research	31,551.7	—	—	—	—	—	—	31,551.7
Procurement & Materials Mgmt.	9,884.7	—	—	—	—	—	—	9,884.7
Human Resources	61,329.2	—	—	—	—	—	—	61,329.2
Information Technology	18,369.5	—	—	—	—	—	—	18,369.5
Law	7,258.2	—	—	—	—	—	—	7,258.2
Finance	3,834.4	—	—	—	—	—	—	3,834.4
Engineering	25,652.9	244,547.4	18,044.4	—	—	—	—	288,244.7
Maintenance & Operations	203,889.8	—	—	—	—	—	—	203,889.8
Stormwater Management Fund	—	—	—	116,258.0	—	—	—	116,258.0
Retirement Fund	—	—	—	—	107,319.0	—	—	107,319.0
Bond Redemption & Interest Fund	—	—	—	—	—	233,021.9	—	233,021.9
Reserve Claim Fund	—	—	—	—	—	—	34,395.0	34,395.0
<b>TOTAL EXPENDITURES</b>	<b>\$ 399,047.5</b>	<b>\$ 244,547.4</b>	<b>\$ 18,044.4</b>	<b>\$ 116,258.0</b>	<b>\$ 107,319.0</b>	<b>\$ 233,021.9</b>	<b>\$ 34,395.0</b>	<b>\$ 1,152,633.2</b>

\* 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.

\*\* The Equity Transfer to the Retirement Fund includes \$6.0 million from the Corporate Working Cash Fund, \$1.0 million from the Construction Fund Working Cash Fund, and \$1.0 million from the Stormwater Working Cash Fund. Working Cash Funds are not included in the summary presentation.

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

	FUND								TOTAL
	CORPORATE	CAPITAL IMPROVEMENTS BOND*	CONSTRUCTION	STORMWATER MANAGEMENT	RETIREMENT	BOND REDEMPTION & INTEREST	RESERVE CLAIM		
<b>REVENUE</b>									
Net Assets Appropriable	\$ 131,481.8	\$ (636,126.1)	\$ 14,578.6	\$ 59,291.7	\$ 87,281.0	\$ 229,469.6	\$ 31,140.8	\$ (82,882.6)	
Adjustment for Receipts	6,988.3	—	(554.6)	434.7	—	—	—	—	6,868.4
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)	—	—	—	—	—	—	—	—	—
Grants (Federal & State)	—	14,177.0	—	5,316.4	—	—	—	—	19,493.4
Investment Income	3,337.0	6,707.0	427.0	1,265.0	—	3,116.0	680.4	15,532.4	
State Revolving Fund Loans	—	50,000.0	—	—	—	—	—	—	50,000.0
Property & Services	26,073.3	—	—	900.0	—	—	—	—	26,973.3
User Charge	47,000.0	—	—	—	—	—	—	—	47,000.0
TIF Differential Fee & Impact Fee	10,650.0	—	—	—	—	—	—	—	10,650.0
Equity Transfer	4,200.0	(4,200.0)	—	(5,771.9)	—	5,771.9	—	—	—
Miscellaneous	7,585.0	2,000.0	20.0	—	—	—	—	—	9,605.0
<b>TOTAL REVENUE</b>	<b>\$ 493,415.4</b>	<b>\$ (567,442.1)</b>	<b>\$ 21,671.0</b>	<b>\$ 111,735.9</b>	<b>\$ 87,281.0</b>	<b>\$ 238,357.5</b>	<b>\$ 31,821.2</b>	<b>\$ 416,839.9</b>	
<b>EXPENDITURES</b>									
Board of Commissioners	\$ 4,745.5	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 4,745.5	
General Administration	16,926.8	—	—	—	—	—	—	—	16,926.8
Monitoring & Research	30,427.5	—	—	—	—	—	—	—	30,427.5
Procurement & Materials Mgmt.	9,172.4	—	—	—	—	—	—	—	9,172.4
Human Resources	55,514.4	—	—	—	—	—	—	—	55,514.4
Information Technology	15,907.8	—	—	—	—	—	—	—	15,907.8
Law	6,110.2	—	—	—	—	—	—	—	6,110.2
Finance	3,630.6	—	—	—	—	—	—	—	3,630.6
Engineering	23,819.5	85,912.2	10,746.6	—	—	—	—	—	120,478.3
Maintenance & Operations	189,592.9	—	—	—	—	—	—	—	189,592.9
Stormwater Management Fund	—	—	—	43,176.3	—	—	—	—	43,176.3
Retirement Fund	—	—	—	—	87,281.0	—	—	—	87,281.0
Bond Redemption & Interest Fund	—	—	—	—	—	238,357.5	—	—	238,357.5
Reserve Claim Fund	—	—	—	—	—	—	5,400.0	—	5,400.0
<b>TOTAL EXPENDITURES</b>	<b>\$ 355,847.6</b>	<b>\$ 85,912.2</b>	<b>\$ 10,746.6</b>	<b>\$ 43,176.3</b>	<b>\$ 87,281.0</b>	<b>\$ 238,357.5</b>	<b>\$ 5,400.0</b>	<b>\$ 826,721.2</b>	

\* 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, 2020 AND 2019**

CURRENT ASSETS	ASSETS			
	2020		2019	
	AMOUNT	AVAILABLE FOR APPROPRIATION	AMOUNT	AVAILABLE FOR APPROPRIATION
Cash & Investments	\$ 102,572,725	\$ 102,572,725	\$ 110,213,700	\$ 110,213,700
Taxes Receivable	245,664,007	246,790,827	232,049,497	232,815,081
Replacement Tax	15,000,000	15,000,000	15,849,500	15,849,500
<b>Total Current Assets</b>	<b>\$ 363,236,732</b>	<b>\$ 364,363,552</b>	<b>\$ 358,112,697</b>	<b>\$ 358,878,281</b>
LIABILITIES & FUND EQUITY				
CURRENT LIABILITIES				
Unpaid Bills:				
Accrued Salaries & Wages	\$ 3,820,000	\$ 3,820,000	\$ 3,685,000	\$ 3,685,000
Personal Services - Other	3,160,000	3,160,000	2,700,000	2,700,000
Payroll Withholding & Miscellaneous	2,100,000	2,100,000	2,000,000	2,000,000
Contractual Services	27,715,678	27,715,678	28,983,016	28,983,016
Due to Corporate Working Cash Fund	190,000,000	190,000,000	190,000,000	190,000,000
<b>Total Current Liabilities</b>	<b>\$ 226,795,678</b>	<b>\$ 226,795,678</b>	<b>\$ 227,368,016</b>	<b>\$ 227,368,016</b>
<b>Total Liabilities</b>		<b>\$ 226,795,678</b>		<b>\$ 227,368,016</b>
ASSETS APPROPRIABLE FOR 2020 & 2019				
Net Assets Appropriable		\$ 137,567,874		\$ 131,510,265
Budget Reserve		(103,665,374)		(99,393,765)
Net Assets Appropriated		\$ 33,902,500		\$ 32,116,500
Estimated Revenue		365,145,000		345,496,000
<b>Total Assets Appropriable</b>		<b>\$ 399,047,500</b>		<b>\$ 377,612,500</b>
FUND EQUITY				
Undesignated	\$ 136,441,054		\$ 130,744,681	
<b>Total Fund Equity</b>	<b>\$ 136,441,054</b>		<b>\$ 130,744,681</b>	
<b>Total Liabilities &amp; Fund Equity</b>	<b>\$ 363,236,732</b>		<b>\$ 358,112,697</b>	

**CORPORATE FUND**  
**APPROPRIABLE REVENUE**  
**2020 - 2017**

REVENUE DESCRIPTION	ESTIMATED		ACTUAL		
	2020 BUDGET	2019 ADJUSTED	2019 BUDGET	2018	2017
Revenue from Property Taxes					
Gross Tax Levy	\$ 266,455,300	\$ 254,574,100	\$ 254,574,100	\$ 241,153,834	\$ 224,824,731
Less Allowance for Uncollectible Taxes	(9,325,936)	(8,910,093.5)	(8,910,093.5)	(8,440,384)	(7,868,866)
Net Property Taxes	\$ 257,129,364	\$ 245,664,007	\$ 245,664,007	\$ 232,713,450	\$ 216,955,865
Revenue from Personal Property					
Replacement Tax	\$ 19,000,000	\$ 15,000,000	\$ 15,000,000	\$ 19,849,500	\$ 18,164,000
Net Tax Sources	\$ 276,129,364	\$ 260,664,007	\$ 260,664,007	\$ 252,562,950	\$ 235,119,865
Adjustment to match working cash borrowings	(4,929,365)	(4,564,007)	(4,564,007)	(4,562,950)	(4,319,865)
Working Cash Financing at 95% of Gross Tax Sources	\$ 271,200,000	\$ 256,100,000	\$ 256,100,000	\$ 248,000,000	\$ 230,800,000
Investment Income	\$ 2,100,000	\$ 3,337,000	\$ 2,600,000	\$ 3,033,675	\$ 1,523,399
Land Rentals	23,000,000	23,000,000	21,500,000	23,036,179	20,628,245
Sewer Permit Fees	—	—	—	1,064,300	1,100,992
Sewer Service Agreement Revenue	1,750,000	2,900,000	1,500,000	1,448,371	2,286,078
User Charge	43,000,000	47,000,000	46,000,000	41,301,817	53,252,035
Resource Recovery	600,000	625,000	600,000	559,373	295,602
Lockport Electrical Energy Generation	1,200,000	1,200,000	1,200,000	1,386,344	1,323,132
Miscellaneous (details below)	22,295,000	16,583,329	11,796,000	15,639,376	15,620,329
Subtotal	\$ 93,945,000	\$ 94,645,329	\$ 85,196,000	\$ 87,469,435	\$ 96,029,812
Adjustment to Net Assets Available for Projected Receipts	—	6,988,325	—	(105,600)	7,254,500
Equity Transfer	—	4,200,000	4,200,000	4,200,000	6,000,000
<b>GRAND TOTAL</b>	<b>\$ 365,145,000</b>	<b>\$ 361,933,654</b>	<b>\$ 345,496,000</b>	<b>\$ 339,563,835</b>	<b>\$ 340,084,312</b>

<b>TIF Surplus Distribution</b>	\$ 19,000,000	\$ 10,425,000	\$ 9,500,000	\$ 10,711,878	\$ 11,811,280
TIF Differential Fee	225,000	225,000	225,000	225,000	225,000
Land Sales	—	3,073,329	—	—	50,200
Claims & Damage Settlements	—	10,000	—	178,781	213,158
Scrap Sales	50,000	75,000	50,000	118,865	116,041
Sales of Automobiles	20,000	27,000	18,000	29,262	42,440
Interest on Taxes - Cook County Treasurer	—	48,000	3,000	34,321	10,265
Other	3,000,000	2,700,000	2,000,000	4,341,269	3,151,945
<b>Total</b>	<b>\$ 22,295,000</b>	<b>\$ 16,583,329</b>	<b>\$ 11,796,000</b>	<b>\$ 15,639,376</b>	<b>\$ 15,620,329</b>

**CAPITAL IMPROVEMENTS BOND FUND**  
**ESTIMATED BALANCE SHEET**  
**JANUARY 1, 2020 AND 2019**

	ASSETS				LIABILITIES & FUND EQUITY			
	2020		2019		2020		2019	
	AMOUNT	AVAILABLE FOR APPROPRIATION	AMOUNT	AVAILABLE FOR APPROPRIATION	AMOUNT	AVAILABLE FOR APPROPRIATION	AMOUNT	AVAILABLE FOR APPROPRIATION
<b>CURRENT ASSETS</b>								
Cash & Investments	\$ 251,316,000	\$ 251,316,000	\$ 232,000,000	\$ 232,000,000				
Grants Receivable	14,472,000	14,472,000	1,000,000	1,000,000				
State Revolving Fund Loans Receivable	70,000,000	70,000,000	120,000,000	120,000,000				
<b>Total Current Assets</b>	<b>\$ 335,788,000</b>	<b>\$ 335,788,000</b>	<b>\$ 353,000,000</b>	<b>\$ 353,000,000</b>				
<b>CURRENT LIABILITIES</b>								
Unpaid Bills:								
Contractual Services	\$ 53,000,000	\$ 53,000,000	\$ 74,000,000	\$ 74,000,000				
Contracts Payable	936,142,338	936,142,338	888,357,685	888,357,685				
<b>Total Current Liabilities</b>	<b>\$ 989,142,338</b>	<b>\$ 989,142,338</b>	<b>\$ 962,357,685</b>	<b>\$ 962,357,685</b>				
Designated for Future Claims Liabilities	—	—	—	—				
<b>Total Liabilities &amp; Designations</b>	<b>\$ 989,142,338</b>	<b>\$ 989,142,338</b>	<b>\$ 962,357,685</b>	<b>\$ 962,357,685</b>				
<b>ASSETS APPROPRIABLE</b>								
Net Assets Appropriable		\$ (653,354,338)					\$ (609,357,685)	
Net Assets Appropriated		\$ (653,354,338)					\$ (609,357,685)	
Estimated Revenue		906,901,738					987,531,485	
Equity Transfer to Retirement Fund		(9,000,000)						
<b>Total Assets Appropriable</b>		<b>\$ 244,547,400</b>					<b>\$ 378,173,800</b>	
<b>FUND EQUITY</b>								
	\$ (653,354,338)		\$ (609,357,685)					
<b>Total Liabilities &amp; Fund Equity</b>	<b>\$ 335,788,000</b>		<b>\$ 353,000,000</b>					

**CAPITAL IMPROVEMENTS BOND FUND**  
**APPROPRIABLE REVENUE**  
**2020 - 2017**

REVENUE DESCRIPTION	ESTIMATED			ACTUAL	
	2020 BUDGET	2019 ADJUSTED	2019 BUDGET	2018	2017
Revenue from Money & Property					
Bond Sales (Present & Future)	\$ 813,529,738	\$ —	\$ 850,664,185	\$ —	\$ —
Investment Income	6,900,000	6,707,000	7,800,000	5,647,153	3,938,820
Subtotal	\$ 820,429,738	\$ 6,707,000	\$ 858,464,185	\$ 5,647,153	\$ 3,938,820
Revenue from Miscellaneous Sources					
Federal & State Grants	\$ 14,472,000	\$ 14,177,000	\$ 11,267,300	\$ 15,304,009	\$ 16,137,198
State Revolving Fund Loans	70,000,000	50,000,000	120,000,000	87,614,400	168,986,700
Miscellaneous	2,000,000	2,000,000	2,000,000	2,753,981	2,179,586
Subtotal	\$ 86,472,000	\$ 66,177,000	\$ 133,267,300	\$ 105,672,391	\$ 187,303,484
Total Revenue	\$ 906,901,738	\$ 72,884,000	\$ 991,731,485	\$ 111,319,543	\$ 191,242,304
Other Financing Sources (Uses)					
Equity Transfer to Construction Fund					\$ (7,000,000)
Equity Transfer to Corporate Fund					\$ (6,000,000)
Equity Transfer to Retirement Fund	\$ (9,000,000)				
GRAND TOTAL	\$ 897,901,738	\$ 68,684,000	\$ 987,531,485	\$ 107,119,543	\$ 178,242,304

**CONSTRUCTION FUND  
ESTIMATED BALANCE SHEET  
JANUARY 1, 2020 AND 2019**

	<b>ASSETS</b>			
	<b>2020</b>		<b>2019</b>	
	<b>AMOUNT</b>	<b>AVAILABLE FOR APPROPRIATION</b>	<b>AMOUNT</b>	<b>AVAILABLE FOR APPROPRIATION</b>
<b>CURRENT ASSETS</b>				
Cash & Investments	\$ 16,501,000	\$ 16,501,000	\$ 13,650,000	\$ 13,650,000
Taxes Receivable	7,334,000	7,262,400	11,290,500	11,322,000
Replacement Tax	—	—	—	—
<b>Total Current Assets</b>	<b>\$ 23,835,000</b>	<b>\$ 23,763,400</b>	<b>\$ 24,940,500</b>	<b>\$ 24,972,000</b>
<b>LIABILITIES &amp; FUND EQUITY</b>				
<b>CURRENT LIABILITIES</b>				
Unpaid Bills:				
Contracts Payable	\$ 1,250,000	\$ 1,250,000	\$ 2,075,700	\$ 2,075,700
Contractual Services	489,000	489,000	276,000	276,000
Due to:				
Construction Working Cash Fund	11,100,000	11,100,000	12,000,000	12,000,000
<b>Total Current Liabilities</b>	<b>\$ 12,839,000</b>	<b>\$ 12,839,000</b>	<b>\$ 14,351,700</b>	<b>\$ 14,351,700</b>
<b>Total Liabilities</b>		<b>\$ 12,839,000</b>		<b>\$ 14,351,700</b>
<b>ASSETS APPROPRIABLE FOR 2020 AND 2019</b>				
Net Assets Appropriable		\$ 10,924,400		\$ 10,620,300
Net Assets Appropriated		\$ 10,924,400		\$ 10,620,300
Estimated Revenue		7,120,000		7,720,000
<b>Total Assets Appropriable</b>		<b>\$ 18,044,400</b>		<b>\$ 18,340,300</b>
<b>FUND EQUITY</b>				
Designated for Future Claims Liabilities	\$ —		\$ —	
Undesignated	10,996,000		10,588,800	
<b>Total Fund Equity</b>	<b>\$ 10,996,000</b>		<b>\$ 10,588,800</b>	
<b>Total Liabilities &amp; Fund Equity</b>	<b>\$ 23,835,000</b>		<b>\$ 24,940,500</b>	

**CORPORATE WORKING CASH FUND  
ESTIMATED BALANCE SHEET  
JANUARY 1, 2020 AND 2019  
AND ESTIMATED AMOUNTS AVAILABLE FOR 2020 AND 2019**

	ASSETS			
	2020		2019	
	AMOUNT	AVAILABLE FOR APPROPRIATION	AMOUNT	AVAILABLE FOR APPROPRIATION
<b>CURRENT ASSETS</b>				
Cash & Investments	\$ 94,000,000	\$ 94,000,000	\$ 91,228,000	\$ 91,228,000
Due from Corporate Fund	190,000,000	190,000,000	190,000,000	190,000,000
<b>Total Current Assets</b>	<b>\$ 284,000,000</b>	<b>\$ 284,000,000</b>	<b>\$ 281,228,000</b>	<b>\$ 281,228,000</b>
<b>FUND EQUITY</b>				
Estimated Revenue & Other Financing Sources		\$ 2,400,000		\$ 2,100,000
Equity Transfer to Retirement Fund		\$ (6,000,000)		
<b>ASSETS AVAILABLE FOR 2020 AND 2019</b>		<b>\$ 280,400,000</b>		<b>\$ 283,328,000</b>
<b>FUND EQUITY</b>		<b>\$ 284,000,000</b>		<b>\$ 281,228,000</b>

**CORPORATE WORKING CASH FUND  
REVENUES  
2020 - 2017**

REVENUE DESCRIPTION	ESTIMATED			ACTUAL	
	2020 BUDGET	2019 ADJUSTED	2019 BUDGET	2018	2017
Revenue from Money & Property					
Investment Income	\$ 2,400,000	\$ 2,082,000	\$ 2,100,000	\$ 1,705,082	\$ 817,809
Revenue from Miscellaneous Sources	—	—	—	—	—
Equity Transfer to Retirement Fund	(6,000,000)				
<b>TOTAL</b>	<b>\$ (3,600,000)</b>	<b>\$ 2,082,000</b>	<b>\$ 2,100,000</b>	<b>\$ 1,705,082</b>	<b>\$ 817,809</b>

**CONSTRUCTION WORKING CASH FUND  
ESTIMATED BALANCE SHEET  
JANUARY 1, 2020 AND 2019  
AND ESTIMATED AMOUNTS AVAILABLE FOR 2020 AND 2019**

	<b>ASSETS</b>			
	<b>2020</b>		<b>2019</b>	
	<b>AMOUNT</b>	<b>AVAILABLE FOR APPROPRIATION</b>	<b>AMOUNT</b>	<b>AVAILABLE FOR APPROPRIATION</b>
<b>CURRENT ASSETS</b>				
Cash & Investments	\$ 11,500,000	\$ 11,500,000	\$ 11,260,000	\$ 11,260,000
Due from Construction Fund	7,200,000	7,200,000	11,100,000	11,100,000
<b>Total Current Assets</b>	<b>\$ 18,700,000</b>	<b>\$ 18,700,000</b>	<b>\$ 22,360,000</b>	<b>\$ 22,360,000</b>
<b>FUND EQUITY</b>				
Estimated Revenue & Other Financing Sources		\$ 300,000		\$ 300,000
Equity Transfer to Retirement Fund		(1,000,000)		—
<b>ASSETS APPROPRIABLE FOR 2020 &amp; 2019</b>		<b>\$ 18,000,000</b>		<b>\$ 22,660,000</b>
<b>FUND EQUITY</b>	<b>\$ 18,700,000</b>		<b>\$ 22,360,000</b>	

**CONSTRUCTION WORKING CASH FUND  
REVENUES  
2020 - 2017**

<b>REVENUE DESCRIPTION</b>	<b>ESTIMATED</b>			<b>ACTUAL</b>	
	<b>2020 BUDGET</b>	<b>2019 ADJUSTED</b>	<b>2019 BUDGET</b>	<b>2018</b>	<b>2017</b>
Revenue from Money & Property					
Investment Income	\$ 300,000	\$ 294,000	\$ 300,000	\$ 227,837	\$ 116,028
Revenue from Miscellaneous Sources	—	—	—	—	—
Equity Transfer to Retirement Fund	(1,000,000)	—	—	—	—
<b>TOTAL</b>	<b>\$ (700,000)</b>	<b>\$ 294,000</b>	<b>\$ 300,000</b>	<b>\$ 227,837</b>	<b>\$ 116,028</b>

**STORMWATER WORKING CASH FUND  
ESTIMATED BALANCE SHEET  
JANUARY 1, 2020 AND 2019**

	<b>ASSETS</b>			
	<b>2020</b>		<b>2019</b>	
	<b>AMOUNT</b>	<b>AVAILABLE FOR APPROPRIATION</b>	<b>AMOUNT</b>	<b>AVAILABLE FOR APPROPRIATION</b>
<b>CURRENT ASSETS</b>				
Cash & Investments	\$ 11,128,000	\$ 11,128,000	\$ 11,128,000	\$ 11,128,000
Due from Stormwater Management Fund	26,500,000	26,500,000	26,500,000	26,500,000
<b>Total Current Assets</b>	<b>\$ 37,628,000</b>	<b>\$ 37,628,000</b>	<b>\$ 37,628,000</b>	<b>\$ 37,628,000</b>
<b>FUND EQUITY</b>				
Investment Income		\$ 200,000		\$ 300,000
Equity Transfer to Retirement Fund		\$ (1,000,000)		
<b>ASSETS APPROPRIABLE FOR 2020 AND 2019</b>		<b>\$ 36,828,000</b>		<b>\$ 37,928,000</b>
<b>FUND EQUITY</b>	<b>\$ 37,628,000</b>		<b>\$ 37,628,000</b>	

**STORMWATER WORKING CASH FUND  
APPROPRIABLE REVENUE  
2020 - 2017**

<b>REVENUE DESCRIPTION</b>	<b>ESTIMATED</b>			<b>ACTUAL</b>	
	<b>2020 BUDGET</b>	<b>2019 ADJUSTED</b>	<b>2019 BUDGET</b>	<b>2018</b>	<b>2017</b>
Investment Income	\$ 200,000	\$ 335,000	\$ 300,000	\$ 186,430	\$ 94,365
Other Financing Sources (Uses)					
Equity Transfer to Retirement Fund	(1,000,000)	—	—	—	—
<b>GRAND TOTAL</b>	<b>\$ (800,000)</b>	<b>\$ 335,000</b>	<b>\$ 300,000</b>	<b>\$ 186,430</b>	<b>\$ 94,365</b>

**BOND REDEMPTION & INTEREST FUND**  
**ESTIMATED BALANCE SHEET**  
**JANUARY 1, 2020 AND 2019**

		ASSETS					
		2020		2019			
CURRENT ASSETS		AMOUNT	AVAILABLE FOR APPROPRIATION	AMOUNT	AVAILABLE FOR APPROPRIATION		
Cash & Investments		\$ 90,067,000	\$ 90,067,000	\$ 112,000,000	\$ 112,000,000		
Restricted Cash		—	—	—	—		
Deposits with Escrow Agent		—	—	—	—		
Taxes Receivable		240,486,212	241,497,138	235,258,891	236,244,870		
<b>Total Current Assets</b>		<b>\$ 330,553,212</b>	<b>\$ 331,564,138</b>	<b>\$ 347,258,891</b>	<b>\$ 348,244,870</b>		
LIABILITIES & FUND EQUITY							
CURRENT LIABILITIES							
Bonds Payable		\$ 120,079,531		\$ 123,343,361			
Interest Payable		112,942,336		115,014,180			
Program Expense Payable		—		—			
Equity Transfer		—		—			
<b>Total Current Liabilities</b>		<b>\$ 233,021,867</b>		<b>\$ 238,357,541</b>			
ASSETS APPROPRIABLE FOR 2020 AND 2019							
Net Assets Appropriable		\$ 331,564,138		\$ 348,244,870			
Equity Transfer from Stormwater Management Fund		5,961,600		6,396,900			
Equity Transfer to Retirement Fund		(3,000,000)		—			
Estimated Revenue		1,600,000		1,900,000			
Total Assets Available		\$ 336,125,738		\$ 356,541,770			
Liabilities Payable from Restricted Assets		—		—			
Less: Assets Available for Future Years (Principal & Interest Payments)		(103,103,871)		(118,184,229)			
<b>Total Assets Appropriable</b>		<b>\$ 233,021,867</b>		<b>\$ 238,357,541</b>			
FUND EQUITY							
Undesignated		\$ 97,531,345		\$ 108,901,350			
<b>TOTAL FUND EQUITY</b>		<b>\$ 97,531,345</b>		<b>\$ 108,901,350</b>			
<b>Total Liabilities &amp; Fund Equity</b>		<b>\$ 330,553,212</b>		<b>\$ 347,258,891</b>			

**BOND REDEMPTION & INTEREST FUND**  
**APPROPRIABLE REVENUE**  
**2020-2017**

REVENUE DESCRIPTION	ESTIMATED			ACTUAL	
	2020 BUDGET	2019 ADJUSTED	2019 BUDGET	2018	2017
Revenue from Taxes					
Real Estate					
Current	\$ 242,978,297	\$ 237,696,807	\$ 237,696,807	\$ 228,039,945	\$ 224,164,748
Prior	(1,481,160)	(1,451,937)	(1,451,937)	(1,422,340)	(1,191,583)
<b>Total</b>	<b>\$ 241,497,138</b>	<b>\$ 236,244,870</b>	<b>\$ 236,244,870</b>	<b>\$ 226,617,605</b>	<b>\$ 222,973,165</b>
Revenue from Money & Property					
Investment Income	\$ 1,600,000	\$ 3,116,000	\$ 1,900,000	\$ 2,471,557	\$ 1,346,189
Revenue from Miscellaneous Sources					
Cash Available	90,067,000	112,000,000	112,000,000	112,917,005	110,265,700
Other	—	—	—	35,531	10,220
Other Financing Sources (Uses)					
Bond Premium	—	—	—	—	—
Sale of Capital Improvement Bonds (CIB)	—	—	—	—	—
Bond Redemption	—	—	—	—	—
Refunding Transaction Costs	—	—	—	—	—
Equity Transfer to Stormwater Management Fund	5,961,600	5,771,900	6,396,900	5,770,550	3,269,250
Equity Transfer to Retirement Fund	(3,000,000)	—	—	—	—
Less: Amount to Be					
Expended After Budget Year	(103,103,871)	(118,775,229)	(118,184,229)	(91,508,062)	(122,217,224)
<b>GRAND TOTAL</b>	<b>\$ 233,021,867</b>	<b>\$ 238,357,541</b>	<b>\$ 238,357,541</b>	<b>\$ 256,304,186</b>	<b>\$ 215,647,300</b>

**RETIREMENT FUND  
ESTIMATED BALANCE SHEET  
JANUARY 1, 2020 AND 2019**

CURRENT ASSETS	ASSETS			
	2020		2019	
	AMOUNT	AVAILABLE FOR APPROPRIATION	AMOUNT	AVAILABLE FOR APPROPRIATION
Taxes Receivable	\$ 69,060,600	\$ 69,060,600	\$ 69,030,500	\$ 69,030,500
Replacement Tax	18,258,400	18,258,400	18,250,500	18,250,500
<b>Total Current Assets</b>	<b>\$ 87,319,000</b>	<b>\$ 87,319,000</b>	<b>\$ 87,281,000</b>	<b>\$ 87,281,000</b>

LIABILITIES & FUND EQUITY				
ASSETS APPROPRIABLE FOR 2020 AND 2019				
Net Assets Appropriable	\$ 87,319,000		\$ 87,281,000	
Equity Transfer from Corporate Working Cash Fund	6,000,000		—	
Equity Transfer from Stormwater Working Cash Fund	1,000,000		—	
Equity Transfer from Construction Working Cash Fund	1,000,000		—	
Equity Transfer from Capital Improvements Bond Fund	9,000,000		—	
Equity Transfer from Bond Redemption & Interest Fund	3,000,000		—	
<b>Total Assets Appropriable Due to Retirement Fund</b>	<b>\$ 107,319,000</b>		<b>\$ 87,281,000</b>	

FUND EQUITY				
<b>Total Fund Equity</b>	<b>\$ 87,319,000</b>		<b>\$ 87,281,000</b>	

**RETIREMENT FUND  
APPROPRIABLE REVENUE  
2020 - 2017**

REVENUE DESCRIPTION	ESTIMATED			ACTUAL	
	2020 BUDGET	2019 ADJUSTED	2019 BUDGET	2018	2017
Revenue from Taxes					
Real Estate - Current	\$ 69,060,600	\$ 69,030,500	\$ 69,030,500	\$ 70,867,800	\$ 62,880,558
Replacement Tax	18,258,400	18,250,500	18,250,500	18,736,200	16,624,500
<b>TOTAL TAX REVENUE</b>	<b>\$ 87,319,000</b>	<b>\$ 87,281,000</b>	<b>\$ 87,281,000</b>	<b>\$ 89,604,000</b>	<b>\$ 79,505,058</b>
Other Financing Sources (Uses)					
Equity Transfer from Corporate Working Cash Fund	\$ 6,000,000	\$ —	\$ —	\$ —	\$ —
Equity Transfer from Stormwater Working Cash Fund	1,000,000	—	—	—	—
Equity Transfer from Construction Working Cash Fund	1,000,000	—	—	—	—
Equity Transfer from Capital Improvements Bond Fund	9,000,000	—	—	—	—
Equity Transfer from Bond Redemption & Interest Fund	3,000,000	—	—	—	—
<b>Total Other Financing Sources</b>	<b>\$ 20,000,000</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ —</b>
<b>GRAND TOTAL</b>	<b>\$ 107,319,000</b>	<b>\$ 87,281,000</b>	<b>\$ 87,281,000</b>	<b>\$ 89,604,000</b>	<b>\$ 79,505,058</b>

## Construction Fund Program

### Projects Under Construction

Project Name	Project Number	Est. Construction Cost	2020 Appropriation	Duration (days)	Est. Award Date
HVAC Improvements, Various Locations	18-611-23	\$ 1,851	\$ 270	540	Oct 2018
Rehabilitate Raw Sewage Pump Rotating Assemblies, Various Locations	18-610-21	867	24	731	Nov 2018
Roof Restoration, Lockport Powerhouse	19-612-22	452	452	301	Jul 2019
Furnish, Deliver, and Install Four Sacrificial Deep Anode Ground Beds for the Cathodic Protection System, CSA	19-804-21	705	315	395	Aug 2019
Furnish, Deliver, and Install a Shaftless Screw Conveyor in an Aerated Grit Tank, CWRP	18-802-22	415	415	300	Sep 2019
Discharge Valve Rehabilitation, Main Sewage Pump No. 5, SWRP	19-905-21	1,088	500	806	Oct 2019
Remove and Replace Two Carrier Chillers, MOBA	MWD2010002GA	737	600	142	Oct 2019
Furnish, Deliver, and Install Motor Excitation Control Equipment, Various Locations	19-603-21	815	769	406	Nov 2019
Rehabilitate One Electric Motor, SWRP	19-925-21	496	476	420	Nov 2019
Furnish and Deliver One 44" x 80" Engine Lathe, OWRP	19-716-23	170	170	305	Dec 2019
Furnish, Deliver, and Install an Upgraded Operator for TARP Gate I, OWRP	19-717-22	850	850	378	Dec 2019
Total Projects Under Construction		\$ 8,446	\$ 4,841		

## Awards in 2020

Project Name	Project Number	Est. Construction Cost	2020 Appropriation	Duration (days)	Est. Award Date
Pump Rehabilitation and Actuator Installation, EWRP	16-412-3J.A	458	458	365	Jan 2020
Railroad Track Improvements, SSA	18-913-21	\$ 1,615	\$ 1,295	420	Jan 2020
Furnish and Deliver HVAC Coils, Various Locations	19-608-22	78	78	180	Jan 2020
Rehabilitate Aeration Blowers, SWRP	20-908-21	2,500	600	1,460	Jan 2020
HVAC Improvements, Various Locations	19-613-21	2,900	1,100	1,035	Mar 2020
Rebuild Gatehouses 1 & 2 and the Sludge Concentration Building, OWRP	19-707-22	155	155	305	Mar 2020
Furnish, Deliver, and Install Effluent Pipe Liner, HPWRP	20-701-21	259	259	287	Mar 2020
Furnish, Deliver, and Install Dewatering Screw Conveyor, EWRP	20-702-21	500	250	652	Mar 2020
Furnish, Deliver, and Install Air Compressors, KWRP and SWRP	J67722-001.A	485	485	274	Mar 2020
Roof Rehabilitation at Webster Avenue Aeration Station, NSA	J67743-XXX	400	400	121	Mar 2020
Rehabilitate Gloria Alitto Majewski Reservoir, KWRP	16-708-22	1,100	1,100	274	Apr 2020
Advanced Combined Phosphorus and Nitrogen Recovery Pilot, SWRP	20-1XX-21	100	100	213	Jun 2020
Remove and Replace Two Boilers, MOB	J15090-076	1,200	1,200	122	Jun 2020
Furnish, Deliver, and Install 480V Power Feeds to Aeration Batteries A, B, and C, CWRP	J68823-001.A	250	250	213	Jun 2020
Furnish, Deliver, and Install Automatic Transfer Switches, LWRP	J68823-002.A	250	250	213	Jun 2020
Furnish, Deliver, and Install Shaftless Screw Conveyor Systems at the Aerated Grit Facility, CWRP	20-802-21	3,000	163	578	Nov 2020
Total 2020 Awards		\$ 15,250	\$ 8,143		
Cumulative Projects Under Construction and 2020 Awards		\$ 23,696	\$ 12,984		

**Note: All cost figures are in thousands of dollars.**

# Capital Improvements Bond Fund Program

## Awards in 2020

Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date
Odor Control Systems at Two TARP Shafts and Decommissioning the Thornton Transitional Reservoir, CSA	15-266-4H3	\$ 15,366	502	Jan 2020
Mainstream TARP Pumps Rehabilitation, Stickney WRP	18-144-3M	20,509	1,655	Jan 2020
Sidestream Enhanced Biological Phosphorus Removal Pilot Study, CWRP	18-248-3P	1,600	252	Jan 2020
Drop Shaft 5 Inspection and Rehabilitation, NSA	14-372-3SR	4,000	352	Mar 2020
Furnish, Deliver, and Install Disc Filters, EWRP	18-702-31	6,200	659	Mar 2020
Furnish, Deliver, and Install Three Bar Screens, KWRP	18-703-31	1,800	659	Mar 2020
Rehabilitation of Gravity Concentration Tank, CWRP	18-803-32	2,300	666	Mar 2020
Furnish, Deliver, and Install Disc Filters for Filters 3 and 4, HPWRP	19-701-31	1,700	482	Mar 2020
Furnish, Deliver, and Install Coarse Screens, SWRP	20-903-31	6,000	1,390	Mar 2020
Furnish, Deliver, and Install Telemetry Replacement for SCADA Control, Various Locations	17-606-31	545	266	Apr 2020
Phosphorus Removal Liquid Facilities at the Fox River Water Reclamation District	18-IGA-36	9,762	646	Apr 2020
North Side Sludge Pipeline Replacement - Section 1, NSA	07-027-3S	15,590	922	May 2020
A/B and C/D Service Tunnel Rehabilitation - Phase III, SWRP	16-127-3D	17,000	1,047	May 2020
Central Boiler Facility and Electrical Updates, HPWRP	19-542-3M	14,000	652	May 2020
Rehabilitation of Steel Spandrel Beams of Pump and Blower House, OWRP	15-069-3D	10,000	921	Jun 2020
Upper Des Plaines Intercepting Sewer 14B Rehabilitation, NSA	06-360-3S	13,000	313	Jul 2020
Battery A Final Settling Tanks, Rehabilitation of Concrete and Road Replacement, SWRP	08-174-3D	7,700	322	Jul 2020
Utility Tunnel Cracks and Expansion Joints Rehabilitation, OWRP, KWRP, EWRP, HPWRP	17-843-3D	3,000	682	Jul 2020
Rehabilitation of Elevator Shafts, MSPS	18-142-3H	1,500	322	Jul 2020
Installation of Mechanical Mixers, SWRP	19-157-3P	11,500	424	Jul 2020
McCook Reservoir Stage 2 Rock Wall Stabilization and Instrumentation, SWRP	17-131-4F	17,268	1,230	Aug 2020
Roof Replacement of the Lue-Hing M&R Complex, SWRP	17-135-3V	6,500	493	Sep 2020
Furnish, Deliver, and Install Replacement Gearboxes for SEPA(s) 2 & 5, CWRP	20-801-31	1,200	851	Sep 2020
6th Street Construction and Utility Tunnel Rehabilitation, CWRP	19-257-3D	2,000	322	Dec 2020
Total 2020 Awards		\$ 190,040		

## Projects Under Development

Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date
North Shore 1 Rehabilitation, NSA	10-047-3S	\$ 22,750	1,000	Jan 2021
Waste Activated and Primary Sludge Pump Upgrades, SWRP	20-901-31	1,100	720	Jan 2021
Rehabilitation of Locomotive Terminal Building, SWRP	18-143-3D	2,750	592	Feb 2021
Digester Rehabilitation and Gas Piping Replacement Phase II, SWRP	18-148-3P	11,500	742	Mar 2021
Chemical Phosphorus Removal Facility, CWRP	18-254-3P	14,000	312	Mar 2021
Furnish, Deliver, and Install Elevator Upgrades, NSA	21-701-31	900	660	Mar 2021
Rehabilitation of the Overhead Bridge Crane in the Discharge Valve Chamber, MSPS	21-901-31	1,100	300	May 2021
Lockport Turbine Generator Rehabilitation, SSA	21-601-31	1,100	300	Jul 2021
Final Settling Tank Effluent Conduit Rehabilitation and Ultraviolet Facility Upgrades, OWRP	19-084-3P	2,000	512	Aug 2021
39th Street Conduit Rehabilitation - Phase II, SSA	01-103-AS	24,700	749	Jan 2022
Gate Control Equipment Upgrade at TARP Control Structures, NSA	06-358-3M	2,200	552	Jan 2022
Upper Des Plaines Intercepting Sewer 11D, Ext. C Rehabilitation, NSA	11-404-3S	5,500	462	Jan 2022
Boilers 3-5 and Motor Control Center Replacement, SWRP	19-155-3M	13,000	732	Jan 2022
Digester Rehabilitation, HPWRP	19-541-3P	6,000	572	Jan 2022
TARP Control System Replacement, SSA, CSA, NSA	19-856-3E	25,000	412	Feb 2022
Switchgear and Motor Control Center Replacement, CWRP	19-258-3E	23,000	512	Apr 2022
Upper Des Plaines Intercepting Sewer 11D Rehabilitation, NSA	12-369-3S	5,500	462	Nov 2022
Battery D Final Settling Tanks, Rehabilitation of Concrete, SWRP	16-130-3D	3,000	512	Jan 2023
Low Voltage Switchgear Replacement, MSPS	19-154-3E	9,000	512	Jan 2023
Low Voltage Pump and Blower Switchgear and Aerated Grit Motor Control Center Replacement, SWRP	19-156-3E	6,750	552	Jan 2023
Rehabilitation of Pump and Blower House, CWRP	19-255-3D	4,000	562	Jan 2023
Battery C Final Settling Tanks, Rehabilitation of Concrete, SWRP	16-129-3D	3,000	512	Feb 2023
Post-Digestion Dewatering System, CWRP	17-275-3P	15,000	552	Feb 2023
Digester Rehabilitation and Gas Piping Replacement, CWRP	18-253-3P	15,000	842	Feb 2023
Battery B Final Settling Tanks, Rehabilitation of Concrete, SWRP	16-128-3D	5,000	512	Mar 2023
Upgrade Wilmette Lift Station, NSA	19-083-3P	1,500	382	Jun 2023
Southwest Coarse Screen Replacement, SWRP	19-153-3P	15,000	712	Jun 2023
Phosphorus Removal, KWRP	19-375-3P	6,500	512	Jun 2023
Lockport Powerhouse and Waterways Control System Replacement, SSA	19-855-3E	3,000	452	Sep 2023
Decommissioning of Battery B & C Imhoff Tanks and Skimming Tanks 9-16, SWRP	19-152-3P	10,000	572	Jun 2024
Digester Gas Utilization Facilities, SWRP	11-189-3P	60,000	743	Jan 2025
Phosphorus Recovery System, CWRP	12-245-3P	31,000	912	Jan 2025
Phosphorus Removal, EWRP	19-415-3P	30,000	512	Jan 2025
Palos Hills Pumping Station Force Main, CSA	11-242-3S	6,700	632	Mar 2025
Digester Rehabilitation and Gas Piping Replacement Phase II, CWRP	19-256-3P	10,000	732	Apr 2025
Deammonification System, SWRP	13-101-3P	30,000	563	May 2025

## Projects Under Development (continued)

Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date
Additional Grit Removal Tank, Chemical Phosphorus Removal Facility, and Construction of New Plant Entrance, LWRP	19-717-3P	\$ 6,000	612	May 2025
Plant Improvements, HPWRP	18-540-3P	20,000	742	Nov 2025
McCook Reservoir Stage 2 Final Reservoir Prep, SSA	17-132-4F	24,796	542	Jul 2028
Total Future Awards		\$ 477,346		
Cumulative 2020 and Future Awards		\$ 667,386		

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	Army Corps of Engineers	Total	
Tunnel and Reservoir Plan	\$ —	\$ 2,200	\$ 42,064	\$ 44,264	
Water Reclamation Plant	197,992	151,910	—	349,902	
Expansion and Improvements	—	—	—	—	
Solids Management	62,500	39,100	—	101,600	
Collection Facilities	87,253	81,617	—	168,870	
Replacement of Facilities	—	2,750	—	2,750	
Other	—	—	—	—	
	\$ 347,745	\$ 277,577	\$ 42,064	\$ 667,386	

## 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
<b>Thornton Composite Reservoir Mining, Land, and Corp Costs, CSA</b>	77-235-2F	\$ 52,806	Jun 1998	Dec 2020
<b>McCook Reservoir Stages 1 &amp; 2, SSA</b>	73-161-2H	137,500	May 1999	Dec 2029
150 DT/Day Biosolids Processing Facility, SWRP	01-101-1M	83,123	Jun 2010	Nov 2029
McCook Reservoir Des Plaines Inflow Tunnel, SSA	13-106-4F	107,831	Jun 2016	Feb 2021
Furnish, Deliver, and Install Boiler Controls, SWRP	16-901-31	1,327	Sep 2017	Dec 2021
North Branch Dam Removal and River Riparian Connectivity, NSA	16-IGA-22	2,500	Sep 2017	Aug 2022
Installation of Shaftless Screw Conveyors for Aerated Grit Tanks, SWRP	17-902-31	2,595	Dec 2017	Jan 2021
Switchgear & Motor Control Center Replacement, OWRP	17-080-3E	3,577	Sep 2018	Jul 2020
Structural Rehabilitation and Roofing Replacement at 95th Street Pumping Station, CSA	17-276-3D	4,559	Nov 2018	Nov 2020
Furnish and Install Odor Control System, CWRP, HPWRP, and KWRP	17-844-3P	4,099	Feb 2019	Jun 2020
Energy Efficiency Improvements, SWRP	19-901-31	5,413	Apr 2019	Dec 2020
Replacement of Tailrace Stop Logs, Headrace Gates, and Equipment at Lockport Powerhouse, SSA	15-830-3D	12,075	Jun 2019	Oct 2021
Installation and Removal of Cofferdam at Sluice Gate No. 2, Lockport Powerhouse Controlling Works, SSA	18-607-31	335	Jun 2019	Jun 2020
Phosphorus Removal Struvite Facilities at the Fox River Water Reclamation District	18-IGA-35	2,639	Aug 2019	Dec 2020
Odor Control Facilities at Sludge Concentration, Southwest Coarse Screen, Overhead Weir, and Post-Centrifuge Building, SWRP	17-134-3MR	17,250	Sep 2019	Apr 2021
Modifications to TARP Control Structures & Drop Shafts, CSA and SSA	17-842-3H	2,100	Sep 2019	Oct 2020
Digester Rehabilitation and Gas Piping Replacement, SWRP	17-140-3P	15,000	Oct 2019	Oct 2021
Pump Rehabilitation and Diverter Gate Installation, EWRP	16-412-3M	550	Nov 2019	Dec 2020
Digester Sludge Heating System Upgrades and Boiler Removal, CWRP	18-277-3M	28,500	Nov 2019	Sep 2022
Total Projects Under Construction		\$ 483,779		

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 Fund Program

Projects Under Construction						
Project Name	Project Number	Est. Construction Cost	2020 Appropriation	Award Date	Est. Substantial Completion Date	
Installation of Green Infrastructure at Chicago Public Schools, Various Locations	15-IGA-20	\$ 16,000	\$ 4,553	Sep 2016	Dec 2022	
* Construction of a Levee along Thorn Creek at Arquila Park in Glenwood, CSA	15-IGA-14	387	200	Nov 2016	Jun 2022	
Land Acquisition for the Flood Control Project on Midlothian Creek in Robbins, CSA	17-IGA-02	200	200	Dec 2017	Jun 2020	
* Buffalo Creek Reservoir Expansion, NSA	13-370-3F	1,029	126	Feb 2018	Mar 2020	
Flood Control Project on Natalie Creek in Oak Forest and Midlothian, CSA	14-252-5F	7,629	6,118	Sep 2018	Dec 2020	
Streambank Stabilization Projects for Addison Creek, SSA	14-108-5F	1,546	560	Nov 2018	Apr 2020	
Stormwater Infiltration Through the Establishment of Native Habitat at Three Chicago Parks, Various Locations	18-IGA-04	239	143	Nov 2018	May 2020	
Groveland Avenue Levee Improvements in Riverside, SSA	18-IGA-20	2,506	1,767	Dec 2018	Sep 2022	
Culvert Improvements in Elk Grove Village, NSA	18-IGA-30	1,250	1,250	Mar 2019	Feb 2020	
Pilot Study for Investigating Technology to Address Basement Backups, CSA and SSA	16-IGA-20	400	400	Jun 2019	Dec 2020	
New Storm Sewers and New Storm Sewer Outfall along North Shore Avenue in Lincolnwood, NSA	18-IGA-22	1,392	1,392	Jun 2019	Nov 2020	
University of Illinois at Chicago Green Infrastructure at the Arthington Mall, SSA	18-IGA-18	242	242	Aug 2019	May 2020	
Green Alleys Project in Chicago, CSA	18-IGA-03	197	197	Sep 2019	Jun 2020	
Green Infrastructure Alley Paving Improvements in Cicero, SSA	19-IGA-02	269	269	Sep 2019	May 2020	
Summit Green Infrastructure Alley Improvements, SSA	19-IGA-06	300	300	Oct 2019	Apr 2020	
Railroad Drainage Area Outlet, Riverside, SSA	16-IGA-03	90	90	Nov 2019	Jan 2020	
Stormwater Storage in Mount Prospect, NSA	18-IGA-25	1,348	1,348	Nov 2019	Jan 2020	
Streambank Stabilization Project along Midlothian Creek in Tinley Park, CSA	19-IGA-21	645	645	Nov 2019	Jan 2023	
Garfield Park Community Eco Orchard in Chicago, SSA	18-IGA-05	500	500	Dec 2019	Jan 2020	
School District 154 Wolcott School Playground Enhancement in Thornton, CSA	19-IGA-09	144	144	Dec 2019	Jun 2020	
Washington Street Green Infrastructure Parking Lot Improvements in Lansing, CSA	19-IGA-13	250	250	Dec 2019	May 2020	
Green Alley Improvements Project in Oak Park, SSA	19-IGA-14	475	475	Dec 2019	May 2020	
Green Alley Improvements Project in River Grove, SSA	19-IGA-16	385	385	Dec 2019	May 2020	
Total Projects Under Construction		\$ 37,423	\$ 21,554			

## Awards in 2020

Project Name	Project Number	Est. Construction Cost	2020 Appropriation	Duration (days)	Est. Award Date
Streambank Stabilization Project along Calumet Union Drainage Ditch, CSA	10-882-BF	\$ 1,568	\$ 811	1,307	Jan 2020
Streambank Stabilization Project on Melvina Ditch in Oak Lawn and Chicago Ridge, CSA	13-248-5F	11,450	4,907	621	Jan 2020
Flood Control Project on 1st Avenue from Roosevelt Road to Cermak Road, SSA	14-111-5F	5,200	1,120	500	Jan 2020
Winchester Avenue Green Infrastructure Project in Calumet Park, CSA	18-IGA-02	360	360	120	Jan 2020
Storm Sewers Connection to Existing Des Plaines River Outfall in Forest Park, SSA	18-IGA-21	1,106	1,106	330	Jan 2020
Wetland and Park Storage Projects in Winnetka, NSA	18-IGA-24	500	500	365	Jan 2020
Expansion of Existing Detention Basin in Orland Park, CSA	18-IGA-33	558	558	284	Jan 2020
Cornell Avenue Green Infrastructure Project in Dolton, CSA	19-IGA-01	250	250	90	Jan 2020
Green Infrastructure in Calumet City, CSA	19-IGA-05	395	395	90	Jan 2020
Public Library Green Parking Lot in Park Ridge, NSA	19-IGA-17	650	650	270	Jan 2020
Midlothian Permeable Parking Lot and Green Infrastructure, CSA	18-IGA-12	84	84	90	Feb 2020
Flood Control in the vicinity of 131st Street and Cypress Drive in Palos Heights, CSA	14-259-5F	134	134	300	Mar 2020
Lake Catherine Commuter Parking Lot in Palos Heights, CSA	18-IGA-14	184	184	120	Mar 2020
Storm Sewers and Outfall to Flagg Creek in Western Springs, SSA	18-IGA-32	192	192	240	Mar 2020
Barbara Vick Outdoor Classrooms in Chicago, CSA	19-IGA-03	100	100	90	Mar 2020
Addison Green Alley in Chicago, SSA	19-IGA-18	150	150	90	Mar 2020
South Laflin Green Alley in Chicago, SSA	19-IGA-19	102	102	90	Mar 2020
South Homan Green Alley in Chicago, SSA	19-IGA-20	155	155	90	Mar 2020
Permeable Pavement and Rain Gardens in Posen, CSA	18-IGA-15	250	250	90	Apr 2020
Storm Sewers and Outfall in Forest View, SSA	18-IGA-28	1,000	1,000	180	Apr 2020
Storm Sewers and Outfall to Flagg Creek in Western Springs, SSA	18-IGA-32	192	192	240	Apr 2020
Evanston/Skokie School District 65 Green Infrastructure At Orrington Elementary School, NSA	19-IGA-07	12	12	90	Apr 2020
Public Works Facility Demonstration Rain Garden in Oak Park, SSA	19-IGA-11	20	20	90	Apr 2020
Flood Control Project on Midlothian Creek in Robbins, CSA	14-253-5F	11,000	265	550	May 2020
Culvert Upsizing and Channel Improvements on Boca Rio Ditch in Oak Forest, CSA	18-IGA-26	519	519	214	Jun 2020
Stormwater Storage Areas in Niles, NSA	18-IGA-31	2,000	2,000	168	Jun 2020
Green Streets Project in Ford Heights, CSA	19-IGA-12	357	357	90	Jun 2020
Flood Control Project in the vicinity of 135th Street and Central Avenue in Crestwood, CSA	14-258-5F	9,300	149	365	Jul 2020
Streambank Stabilization Project on Tinley Creek, CSA	19-IGA-22	3,806	366	1,460	Jul 2020
* Addison Creek Channel Improvements, SWRP	11-187-3F	21,350	3,109	731	Aug 2020
Flood Control Project on Farmers Creek, NSA	12-056-AF	1,000	200	370	Oct 2020
Total 2020 Awards		\$ 73,944	\$ 20,197		

## Projects Under Development

Project Name	Project Number	Est. Construction Cost	Duration (days)	Est. Award Date
Flood Control Project in the Worth Woods Subdivision in Worth, CSA	14-256-5F	\$ 2,500	366	Jan 2021
Flood Control Project on the West Fork of the North Branch of the Chicago River, NSA	16-IGA-18	6,600	509	Jan 2021
Flood Control for Deer Creek, CSA	10-884-BF	6,500	731	Apr 2021
Flood Control Project for the Washington Street Area in Blue Island, CSA	14-260-5F	5,700	730	Jun 2021
Flood Control Project along Plainfield Road in Countryside, La Grange, McCook, and Lyons Township, SSA	14-112-5F	17,000	730	Jul 2021
Flood Control Project on Willow Road at McDonald Creek Tributary A in Prospect Heights, NSA	14-371-5F	1,800	730	Jul 2021
Flood Control Project on Prairie Creek, NSA	12-056-BF	13,100	761	Aug 2021
Flood Control Project on Central Road from Des Plaines River to Greenwood Road, NSA	14-065-5F	12,000	731	Sep 2021
Flood Control Project on Calumet-Sag Tributary C in Bremen Township and Midlothian, CSA	14-257-5F	3,600	365	Sep 2021
Total Future Awards		\$ 68,800		
Cumulative Projects Under Construction, 2020 Awards, and Future Awards		\$ 180,167		

\* 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.**

The Stormwater Management local cost-sharing programs for Green Infrastructure projects and stormwater projects, along with flood-prone property acquisitions and projects that are in the preliminary stages of design, will continue to be a priority for the District in addressing flooding due to increased intense rain events that overwhelm current infrastructure throughout Cook County. The table below provides planned expenditures for the fiscal years 2021-2024 not included in the detailed list of Projects Under Development presented above.

## 2021-2024 Projects Under Development

Projects	2021	2022	2023	2024	Total 2021-2024
Green Infrastructure Projects	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 20,000
Intergovernmental Agreements					
Local Stormwater Projects	5,000	5,000	5,000	5,000	20,000
Intergovernmental Agreements					
Flood-Prone Property Acquisitions	5,000	5,000	5,000	5,000	20,000
Future Stormwater Projects (projects currently under preliminary design)	—	5,000	5,000	20,000	30,000
Anticipated District Stormwater Projects from Master Planning	—	—	5,000	15,000	20,000
Total	\$ 15,000	\$ 20,000	\$ 25,000	\$ 50,000	\$ 110,000

**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 2020 BUDGET RECOMMENDATIONS

Department Page Number:  
1 of 1

Fund: 101      Department Number: 11000

Department Name: Board of Commissioners

THE FOLLOWING CHANGES ARE RECOMMENDED:

Budget Tentative Page	ED Rec. Page	Code	Position Title or Line Item Name	FROM No. \$ Amount	TO No. \$ Amount	Plus/(Minus) No. \$ Amount	Explanation
26	120	601100	Tuition and Training Payments	\$19,900	\$32,900	\$13,000	Increase to fund additional training for Commissioners and their staff.
26	120	612430	Payments for Professional Services	\$890,100	\$867,100	(\$23,000)	Decrease is due to lower than anticipated professional services costs related to the District's Financing Program.
26	120	623520	Office, Printing, and Photographic Supplies, Equipment, and Furniture	\$15,500	\$25,500	\$10,000	Increase to fund additional furniture replacements.

BOARD OF COMMISSIONERS BUDGET TOTAL: \$5,242,200 \$5,242,200 \$0

November 2019 (BF-20)

Mary Ann Boyle  
Department Head (Recommended)

Shelli Pfeiffer  
Budget Officer (Reviewed)

Brian Bernovich  
Executive Director (Approved)

12/4/19  
Date

1  
Page

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO  
CHANGES TO THE TENTATIVE 2020 BUDGET RECOMMENDATIONS

Department Page Number:  
1 of 1

Fund: 101

Department Number: 15000

Department Name: General Administration

THE FOLLOWING CHANGES ARE RECOMMENDED:

Budget Tentative Page	ED Rec. Page	Code	Position Title or Line Item Name	FROM No. \$ Amount	TO No. \$ Amount	Plus/(Minus) No. \$ Amount	Explanation
27	135	612430	Payments for Professional Services	\$524,000	\$3,024,000	\$2,500,000	Increase is to fund consulting services for an ERP system.
27	135	612680	Repairs to Buildings	\$77,400	\$455,500	\$378,100	Increase is due to the carryforward of the carpet replacement and painting project in the Treasury Section and Finance Department in the Main Office Building.
--	--	634820	Computer Software	\$0	\$7,500,000	\$7,500,000	Increase is to fund software for an ERP system.
28	136	634860	Vehicle Equipment	\$900,000	\$1,051,600	\$151,600	Increase is due to the inability of the manufacturer to deliver Police vehicles ordered in 2019 before year-end.

GENERAL ADMINISTRATION BUDGET TOTAL: \$21,505,200 \$32,034,900 \$10,529,700

November 2019 (BF-20)

Eric M. McElroy  
Department Head (Recommended)

Shelly Rother  
Budget Officer (Reviewed)

Brian Beckrich  
Executive Director (Approved)

12/4/19  
Date

2  
Page

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO  
CHANGES TO THE TENTATIVE 2020 BUDGET RECOMMENDATIONS

Department Page Number:  
1 of 1

Fund: 101 Department Number: 16000

Department Name: Monitoring & Research

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget</i>		<i>Position Title or Line Item Name</i>	<i>FROM \$ Amount</i>		<i>TO \$ Amount</i>		<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>	
<i>Tentative Page</i>	<i>ED Rec. Page</i>		<i>Code</i>	<i>No.</i>	<i>\$ Amount</i>	<i>No.</i>			
29	156	Payments for Professional Services			\$334,400		\$354,100	\$19,700	Increase is due to the carryforward of the microbial source tracking peer review issued to the Water Environment & Reuse Foundation (\$14,700) and the addition of funding for the Water Research Foundation PFAS project (\$5,000).
29	156	Contractual Services, N.O.C.			\$249,600		\$234,900	(\$14,700)	Decrease is due to the gradual transition to performing some pathogen analyses in-house instead of being contracted out entirely.
29	156	Repairs to Testing and Laboratory Equipment			\$333,600		\$312,800	(\$20,800)	Decrease is due to the reallocation of funding for the purchase of a Total Organic Carbon analyzer system to a more appropriate commitment item.
29	156	Laboratory Testing Supplies, Small Equipment, and Chemicals			\$340,300		\$323,100	(\$17,200)	Decrease is due to the reallocation of funding for the purchase of a Total Organic Carbon analyzer system to a more appropriate commitment item.
30	157	Testing and Laboratory Equipment			\$53,000		\$91,000	\$38,000	Increase is due to the reallocation of funding for the purchase of a Total Organic Carbon analyzer system to a more appropriate commitment item.

MONITORING & RESEARCH BUDGET TOTAL:

\$31,546,700

\$31,551,700

\$5,000

November 2019 (BF-20)

*Edie Paulson*

Department Head (Recommended)

*Shelli Brooks*

Budget Officer (Reviewed)

*Brian Berkovich*

Executive Director (Approved)

*12/4/19*

Date

*3*

Page

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO  
CHANGES TO THE TENTATIVE 2020 BUDGET RECOMMENDATIONS

Department Page Number:  
1 of 1

Fund: 101      Department Number: 25000

Department Name: Human Resources

THE FOLLOWING CHANGES ARE RECOMMENDED:

Budget Tentative Page	ED Rec. Page	Code	Position Title or Line Item Name	FROM No.	TO No.	Plus/(Minus) \$ Amount	Explanation
--	194	259	Senior Safety Specialist #2 (New Grade HP16) (HP17)	1	0	(1)	A crosshatch #2 was implemented on one position in Section 259.
--	--	259	Senior Safety Specialist (HP16)	0	1	1	A crosshatch #2 was implemented on one position in Section 259.

HUMAN RESOURCES BUDGET TOTAL: \$61,329,200    \$61,329,200    \$0

November 2019 (BF-20)

Bethany Sanders  
Department Head (Recommended)

Shelly Radtke  
Budget Officer (Reviewed)

Brian Beckwith  
Executive Director (Approved)

12/4/19  
Date

4  
Page

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO  
CHANGES TO THE TENTATIVE 2020 BUDGET RECOMMENDATIONS

Department Page Number:  
1 of 1

Fund: 101

Department Number: 27000

**Department Name: Information Technology**

**THE FOLLOWING CHANGES ARE RECOMMENDED:**

<i>Budget</i>		<i>Code</i>	<i>Position Title or Line Item Name</i>	<i>No.</i>	<i>FROM</i>		<i>TO</i>		<i>No.</i>	<i>Plus/(Minus)</i>	<i>Explanation</i>
<i>Tentative Page</i>	<i>ED Rec. Page</i>				<i>\$ Amount</i>		<i>No.</i>	<i>\$ Amount</i>			
41	205	612430	Payments for Professional Services		\$1,118,100			\$1,134,100		\$16,000	Increase is due to the carryforward of 18-RFP-22R, Travel and Expense Reimbursement Solution.

**INFORMATION TECHNOLOGY BUDGET TOTAL:**

\$18,353,500

**\$18,369,500**

**\$16,000**

November 2019 (BF-20)

John H. Lunn

Shelly K. Krotz  
Budget Officer (Reviewed)

Bruce Pechoush  
Executive Director (Approved)

12/4/19  
Date

---

5

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO  
CHANGES TO THE TENTATIVE 2020 BUDGET RECOMMENDATIONS

Department Page Number:  
1 of 1

Fund: 101      Department Number: 30000

Department Name: Law

THE FOLLOWING CHANGES ARE RECOMMENDED:

Budget Tentative Page	ED Rec. Page	Code	Position Title or Line Item Name	FROM No. \$ Amount	TO No. \$ Amount	Plus/(Minus) No. \$ Amount	Explanation
46	222	601010	Salaries of Regular Employees	\$5,309,200	\$5,258,300	(\$50,900)	Decrease is due to the position change detailed below.
46	222	601060	Compensation Plan Adjustments	\$239,100	\$189,100	(\$50,000)	Decrease is due to the 2019 retirement of an employee that was originally anticipated for 2020.
46	222	612250	Court Reporting Services	\$25,000	\$40,000	\$15,000	Increase is due to major litigation moving into the discovery phase with several depositions expected in 2020.
46	222	612430	Payments for Professional Services	\$634,300	\$744,300	\$110,000	Increase is due to the unanticipated need for a Hydrologist to testify in a court case, as per an Illinois Supreme Court Ruling. The District does not have a Hydrologist on staff and therefore will require the services of an outside expert witness.
--	223	324	Principal Attorney (HP20)	1	0	(1)	One position was transferred to Section 372 after the position became vacant due to a retirement.
--	225	372	Principal Attorney (HP20)	1	2	1	One position was transferred from Section 324 after the position became vacant due to a retirement.

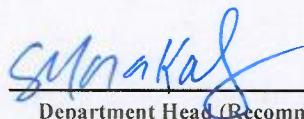
LAW BUDGET TOTAL:

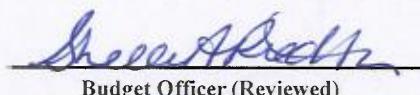
\$7,234,100

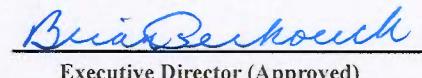
\$7,258,200

\$24,100

November 2019 (BF-20)

  
Department Head (Recommended)

  
Budget Officer (Reviewed)

  
Executive Director (Approved)

12/4/19  
Date

6  
Page

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO  
CHANGES TO THE TENTATIVE 2020 BUDGET RECOMMENDATIONS

Department Page Number:  
1 of 2

Fund: 101      Department Number: 66000

Department Name: Maintenance & Operations - General Division

THE FOLLOWING CHANGES ARE RECOMMENDED:

Budget Tentative Page	ED Rec. Page	Code	Position Title or Line Item	FROM No. \$ Amount	TO No. \$ Amount	Plus/(Minus) \$ Amount	Explanation
51	259	601060	Compensation Plan Adjustments	\$876,700	\$867,200	(\$9,500)	Decrease is due to a revised estimate of paid overtime.
51	259	612520	Waste Material Disposal Charges	\$9,182,200	\$10,482,200	\$1,300,000	Increase is required for additional funding of 19-690-11, Beneficial Reuse of Biosolids from LASMA, CALSMA, and EWRP (\$1,000,000) and 18-696-11, Services of Tractor Mounted Paddle Aerators and Rotavators with Operators, Various Locations (\$300,000).
52	260	623700	Wearing Apparel	\$3,500	\$6,000	\$2,500	Increase is required to provide funds for new Operations Challenge uniforms.
52	260	623780	Safety and Medical Supplies	\$8,000	\$15,000	\$7,000	Increase is required to provide funds for equipment to be utilized in the Operations Challenge safety event.
--	--	643	Principal Engineer (HP18)	0	1	1	One position was transferred from Section 644.
56	264	644	Principal Engineer (HP18)	1	0	(1)	One position was transferred to Section 643.

M&O - GENERAL DIVISION BUDGET TOTAL:

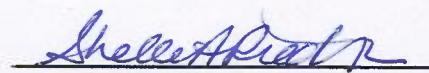
\$31,561,600

\$32,861,600

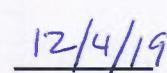
\$1,300,000

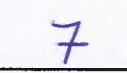
November 2019 (BF-20)

  
Department Head (Recommended)

  
Budget Officer (Reviewed)

  
Executive Director (Approved)

  
Date

  
Page

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO  
CHANGES TO THE TENTATIVE 2020 BUDGET RECOMMENDATIONS

Department Page Number:  
2 of 2

Fund: 101

Department Number: 67000

Department Name: Maintenance & Operations - North Service Area

THE FOLLOWING CHANGES ARE RECOMMENDED:

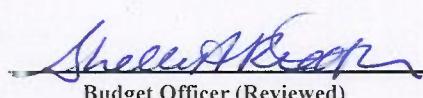
Budget Tentative Page	ED Rec. Page	Code	Position Title or Line Item	FROM No.   \$ Amount	TO \$ Amount	No.   Plus/(Minus) \$ Amount	Explanation
58	275	612650	Repairs to Process Facilities	\$1,559,900	\$1,679,900	\$120,000	Increase is due to the implementation of an Intelligent Water Solutions project utilizing a third-party platform for modeling and machine learning to optimize chemical usage at the Kirie WRP.
59	276	623560	Processing Chemicals	\$998,900	\$878,900	(\$120,000)	Decrease is due to the revised estimate of chemical usage at the Egan WRP.

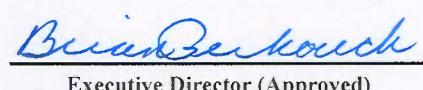
NORTH SERVICE AREA BUDGET TOTAL: \$45,502,900 \$45,502,900 \$0

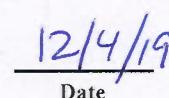
November 2019 (BF-20)

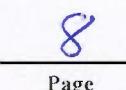
MAINTENANCE & OPERATIONS  
BUDGET TOTAL: \$202,589,800 \$203,889,800 \$1,300,000

  
Department Head (Recommended)

  
Budget Officer (Reviewed)

  
Executive Director (Approved)

  
Date

  
Page

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO  
CHANGES TO THE TENTATIVE 2020 BUDGET RECOMMENDATIONS

Department Page Number:  
1 of 1

Fund: 101

Department Number: 50000

Department Name: Engineering

THE FOLLOWING CHANGES ARE RECOMMENDED:

Budget Tentative Page	ED Rec. Page	Code	Position Title or Line Item Name	FROM No.	\$ Amount	TO No.	\$ Amount	Plus/(Minus) \$ Amount	Explanation
73	320	612240	Testing and Inspection Services		\$50,000		\$250,000		\$200,000 Increase is due to the revised estimate for 15-829-1S, Television Inspection and Recording of Sewers and Manholes, Various Locations.

ENGINEERING BUDGET TOTAL: \$25,452,900 \$25,652,900 \$200,000

November 2019 (BF-20)

*Catherine A O'Connor*  
Department Head (Recommended)

*Shelley R. Rutherford*  
Budget Officer (Reviewed)

*Brian Beskowich*  
Executive Director (Approved)

*12/4/19*  
Date

*9*  
Page

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO  
CHANGES TO THE TENTATIVE 2020 BUDGET RECOMMENDATIONS

Department Page Number:  
1 of 1

Fund: 201 Department Number: 50000

Fund Name: Construction

THE FOLLOWING CHANGES ARE RECOMMENDED:

Budget Tentative Page	ED Rec. Page	Code	Position Title or Line Item	FROM No. \$ Amount	TO No. \$ Amount	Plus/(Minus) \$ Amount	Explanation
77	362	612440	Preliminary Engineering Reports and Studies	\$123,000	\$203,000	\$80,000	Increase is due to the carryforward of 18-147-2C, Engineering Analysis of Air Blower Nos. 4-7, SWRP.
77	362	645650	Process Facilities Structures	\$473,500	\$973,000	\$499,500	Increase is due to the addition of a JOC project to replace bearings on raw sewage pumps at the Egan WRP (\$458,000) and the carryforward of 18-802-22, Furnish, Deliver, and Install a Shaftless Screw Conveyor in an Aerated Grit Tank, CWRP (\$41,500).
77	362	645680	Buildings	\$1,922,000	\$2,522,000	\$600,000	Increase is due to the carryforward of the chiller replacement project at the Main Office Building Annex.
77	362	645750	Preservation of Process Facility Structures	\$2,836,400	\$2,256,900	(\$579,500)	Decrease is due to the revised estimate for 20-802-21, Furnish, Deliver, and Install Shaftless Screw Conveyor Systems at the Aerated Grit Facility, CWRP (\$1,623,000) and 20-701-21, Furnish, Deliver, and Install Effluent Pipe Liner, HPWRP (\$41,500), offset by the addition of 20-908-21, Rehabilitate Aeration Blowers, SWRP (\$600,000) and J67722-001.A, Furnish, Deliver, and Install Air Compressors, KWRP and SWRP (\$485,000).
77	362	645780	Preservation of Buildings	\$1,255,000	\$1,655,000	\$400,000	Increase is due to the carryforward of the roof rehabilitation project at the Webster Avenue Aeration Station in the North Service Area.

CONSTRUCTION FUND BUDGET TOTAL:

\$17,044,400

\$18,044,400

\$1,000,000

November 2019 (BF-20)

John D.  
Department Head (Recommended)

Shelley Root  
Budget Officer (Reviewed)

Brian Denkoush  
Executive Director (Approved)

12/4/19  
Date  
10  
Page

Gretchen A. O'Connor  
Department Head (Recommended)

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO  
CHANGES TO THE TENTATIVE 2020 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</i> <i>Tentative</i> <i>Page</i>	<i>ED Rec.</i> <i>Page</i>	<i>Code</i>	<i>Position Title</i> <i>or Line Item</i>	<i>FROM</i> <i>No.</i>	<i>\$ Amount</i>	<i>TO</i> <i>No.</i>	<i>\$ Amount</i>	<i>Plus/(Minus)</i> <i>\$ Amount</i>	<i>Explanation</i>
83	434	634620	Equipment for Waterway Facilities		\$1,200,000		\$0	(\$1,200,000)	Decrease is due to the reallocation of funding for 20-801-31, Furnish, Deliver, and Install Replacement Gearboxes for SEPA(s) 2 & 5, CWRP to a more appropriate commitment item.
83	434	645700	Preservation of Collection Facility Structures		\$20,670,000		\$48,504,600	\$27,834,600	Increase is due to the deferral of 18-144-3M, Mainstream TARP Pumps Rehabilitation, SWRP (\$21,534,600) and a revised cost estimate for 06-360-3S, Upper Des Plaines Intercepting Sewer 14B Rehabilitation, NSA (\$6,300,000).
83	434	645720	Preservation of Waterway Facility Structures		\$4,227,000		\$5,427,000	\$1,200,000	Increase is due to the reallocation of funding for 20-801-31, Furnish, Deliver, and Install Replacement Gearboxes for SEPA(s) 2 & 5, CWRP to a more appropriate commitment item.
83	434	645750	Preservation of Process Facility Structures		\$53,855,300		\$56,161,600	\$2,306,300	Increase is due to the revised estimate for 18-702-31, Furnish, Deliver, and Install Disc Filters, EWRP.

CAPITAL IMPROVEMENTS BOND FUND BUDGET TOTAL:

\$214,406,500

\$244,547,400

\$30,140,900

November 2019 (BF-20)

Cathleen A. O'Connor  
Department Head (Recommended)

Shelly A. Roth  
Budget Officer (Reviewed)

Brian Berkouch  
Executive Director (Approved)

12/4/19  
Date

11  
Page

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO  
CHANGES TO THE TENTATIVE 2020 BUDGET RECOMMENDATIONS

Department Page Number:  
1 of 1

Fund: 501

Department Number: 50000

Fund Name: Stormwater Management

THE FOLLOWING CHANGES ARE RECOMMENDED:

Budget Tentative Page	ED Rec. Page	Code	Position Title or Line Item	No.	FROM \$ Amount	TO \$ Amount	No.	Plus/(Minus) \$ Amount	Explanation
88	515	612400	Intergovernmental Agreements		\$43,610,000	\$43,054,100		(\$555,900)	Decrease is due to the deferral of 16-IGA-18, Flood Control Project on the West Fork of the North Branch of the Chicago River, NSA.
88	515	612440	Preliminary Engineering Reports and Studies		\$14,828,200	\$14,348,200		(\$480,000)	Decrease is due to the revised estimate for preliminary engineering projects.
88	515	612490	Contractual Services, N.O.C.		\$531,000	\$631,000		\$100,000	Increase is to provide funds for non-governmental organization Green Infrastructure projects.
89	516	634990	Machinery and Equipment, N.O.C.		\$30,000	\$60,000		\$30,000	Increase is due to the planned purchase of scanner/printer equipment for permit work in the Local Sewer Systems Section.
89	516	645620	Waterway Facilities Structures		\$16,687,300	\$16,410,700		(\$276,600)	Decrease is due to the deferral of 10-884-BF, Flood Control Project for Deer Creek, CSA.
89	516	645720	Preservation of Waterway Facility Structures		\$6,043,000	\$7,225,500		\$1,182,500	Increase is due to the revised timing for 13-248-5F, Streambank Stabilization Project on Melvina Ditch in Oak Lawn and Chicago Ridge, CSA.

STORMWATER MANAGEMENT FUND BUDGET TOTAL:

\$116,258,000

\$116,258,000

\$0

November 2019 (BF-20)

*Catherine A. O'Connor*  
Department Head (Recommended)

*Shellee A. Beck*  
Budget Officer (Reviewed)

*Brian Berkovich*  
Executive Director (Approved)

*12/4/19*  
Date

*12*  
Page

## Construction Fund Program

### Projects Under Construction

Project Name	Project Number	Est. Construction Cost	2020 Appropriation	Duration (days)	Est. Award Date
HVAC Improvements, Various Locations	18-611-23	\$ 1,851	\$ 270	540	Oct 2018
Reconditioning of Pump Motors No. 1 and No. 2, KWRP	18-704-21	285	75	603	Oct 2018
Rehabilitate Raw Sewage Pump Rotating Assemblies, Various Locations	18-610-21	867	24	731	Nov 2018
Roof Restoration, Lockport Powerhouse	19-612-22	452	452	301	Jul 2019
Furnish, Deliver, and Install Four Sacrificial Deep Anode Ground Beds for the Cathodic Protection System, CSA	19-804-21	705	660	395	Aug 2019
Furnish, Deliver, and Install a Shaftless Screw Conveyor in an Aerated Grit Tank, CWRP	18-802-22	415	415	300	Sep 2019
Discharge Valve Rehabilitation, Main Sewage Pump No. 5, SWRP	19-905-21	1,088	500	806	Oct 2019
Remove and Replace Two Carrier Chillers, MOBA	MWD2010002GA	737	600	142	Oct 2019
Furnish, Deliver, and Install Motor Excitation Control Equipment, Various Locations	19-603-21	815	769	406	Nov 2019
Rehabilitate One Electric Motor, SWRP	19-925-21	496	476	420	Nov 2019
Total Projects Under Construction		\$ 7,711	\$ 4,241		

## Awards in 2020

Project Name	Project Number	Est. Construction Cost	2020 Appropriation	Duration (days)	Est. Award Date
Pump Rehabilitation and Actuator Installation, EWRP	16-412-3J.A	\$ 458	\$ 458	365	Jan 2020
Furnish and Deliver HVAC Coils, Various Locations	19-608-22	78	78	180	Jan 2020
Rehabilitate Aeration Blowers, SWRP	20-908-21	2,500	600	1,460	Jan 2020
Railroad Track Rehabilitation, SSA	J69922-22.A	800	800	364	Jan 2020
Furnish and Deliver One 44" x 80" Engine Lathe, OWRP	19-716-23	170	170	305	Feb 2020
Furnish, Deliver, and Install an Upgraded Operator for TARP Gate I, OWRP	19-717-22	850	850	413	Feb 2020
HVAC Improvements, Various Locations	19-613-21	2,900	1,100	1,035	Mar 2020
Rebuild Gatehouses 1 & 2 and the Sludge Concentration Building, OWRP	19-707-22	155	155	305	Mar 2020
Furnish, Deliver, and Install Effluent Pipe Liner, HPWRP	20-701-21	259	259	287	Mar 2020
Furnish, Deliver, and Install Dewatering Screw Conveyor, EWRP	20-702-21	500	250	652	Mar 2020
Furnish, Deliver, and Install Air Compressors, KWRP and SWRP	J67722-001.A	485	485	274	Mar 2020
Roof Rehabilitation at Webster Avenue Aeration Station, NSA	J67743-XXX	400	400	121	Mar 2020
Rehabilitate Gloria Alitto Majewski Reservoir, KWRP	16-708-22	1,100	1,100	274	Apr 2020
Advanced Combined Phosphorus and Nitrogen Recovery Pilot, SWRP	20-1XX-21	100	100	213	Jun 2020
Railroad Track Improvements, SSA	20-907-21	2,800	149	568	Jun 2020
Remove and Replace Two Boilers, MOB	J15090-076	1,200	1,200	122	Jun 2020
Furnish, Deliver, and Install 480V Power Feeds to Aeration Batteries A, B, and C, CWRP	J68823-001.A	250	250	213	Jun 2020
Furnish, Deliver, and Install Automatic Transfer Switches, LWRP	J68823-002.A	250	250	213	Jun 2020
Furnish, Deliver, and Install Shaftless Screw Conveyor Systems at the Aerated Grit Facility, CWRP	20-802-21	3,000	88	578	Nov 2020
Total 2020 Awards		\$ 18,255	\$ 8,742		
Cumulative Projects Under Construction and 2020 Awards		\$ 25,966	\$ 12,983		

**Note: All cost figures are in thousands of dollars.**

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO  
CHANGES TO THE ADOPTED 2020 BUDGET RECOMMENDATIONS

Department Page Number:  
1 of 1

Fund: 101

Department Number: 15000

Department Name: General Administration

THE FOLLOWING CHANGES ARE RECOMMENDED:

Budget Tentative Page	ED Rec. Page	Code	Position Title or Line Item Name	FROM \$ Amount	TO \$ Amount	Plus/(Minus) \$ Amount	Explanation
27	135	612370	Administration Building Operation	\$1,314,700	\$1,316,200	\$1,500	Increase is due to the carryforward of 17-614-11, Elevator Maintenance, MOB and MOBA, in order to provide service through the award of the new contract.
27	135	612390	Administration Building McMillan Pavilion Operation	\$782,900	\$784,900	\$2,000	Increase is due to the carryforward of 17-614-11, Elevator Maintenance, MOB and MOBA, in order to provide service through the award of the new contract.
27	135	612680	Repairs to Buildings	\$455,500	\$452,000	(\$3,500)	Decrease is due to GIC 101 Erie, LLC providing no plans for common area projects in 2020.

GENERAL ADMINISTRATION BUDGET TOTAL:

\$32,034,900

\$32,034,900

\$0

December 2019 (BF-21)

*Elin M M'Ellegott*

Department Head (Recommended)

*Shettie Borth*

Budget Officer (Reviewed)

*Brian Beckhouse*

Executive Director (Approved)

*12/11/19*

Date

*1*

Page

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO  
CHANGES TO THE ADOPTED 2020 BUDGET RECOMMENDATIONS

Department Page Number:  
1 of 1

Fund: 101      Department Number: 16000

Department Name: Monitoring & Research

THE FOLLOWING CHANGES ARE RECOMMENDED:

<i>Budget</i>		<i>Position Title or Line Item Name</i>	<i>FROM \$ Amount</i>	<i>TO \$ Amount</i>	<i>Plus/(Minus) \$ Amount</i>	<i>Explanation</i>	
<i>Tentative Page</i>	<i>ED Rec. Page</i>						
<i>Code</i>	<i>No.</i>						
29	156	601060	Compensation Plan Adjustments	\$823,900	\$778,200	(\$45,700)	Decrease is due to the revised request for paid overtime for the Analytical Laboratories Division.
29	156	612490	Contractual Services, N.O.C.	\$234,900	\$242,900	\$8,000	Increase is due to the need to replace fixtures at the Calumet, Egan, and Stickney Laboratories.
30	156	623990	Materials and Supplies, N.O.C.	\$52,200	\$89,900	\$37,700	Increase is due to the need to replace fixtures at the Calumet, Egan, and Stickney Laboratories.

MONITORING & RESEARCH BUDGET TOTAL: \$31,551,700    \$31,551,700    \$0

December 2019 (BF-21)

*Edward Belcamino*  
\_\_\_\_\_  
Department Head (Recommended)

*Shelly Roth*  
\_\_\_\_\_  
Budget Officer (Reviewed)

*Brian Berthouch*  
\_\_\_\_\_  
Executive Director (Approved)

*12/11/19*  
\_\_\_\_\_  
Date

*2*  
\_\_\_\_\_  
Page

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO  
CHANGES TO THE ADOPTED 2020 BUDGET RECOMMENDATIONS

Department Page Number:  
1 of 1

Fund: 101

Department Number: 25000

Department Name: Human Resources

THE FOLLOWING CHANGES ARE RECOMMENDED:

Budget Tentative Page	ED Rec. Page	Code	Position Title or Line Item Name	FROM No.	TO No.	Plus/(Minus) \$ Amount	Explanation
--	193	254	Associate Human Resources Analyst #2 (Human Resources Analyst) (New Grade HP14) (HP15)	1	0	(1)	A crosshatch #2 was implemented on one position in Section 254.
--	193	254	Human Resources Analyst (HP14)	5	6	1	A crosshatch #2 was implemented on one position in Section 254.

HUMAN RESOURCES BUDGET TOTAL: \$61,329,200 \$61,329,200 \$0

December 2019 (BF-21)

Selena Sardis  
Department Head (Recommended)

Shelly Root  
Budget Officer (Reviewed)

Bevan Denonchuk  
Executive Director (Approved)

12/11/19  
Date

3  
Page

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO  
CHANGES TO THE ADOPTED 2020 BUDGET RECOMMENDATIONS

Department Page Number:  
1 of 1

Fund: 201 Department Number: 50000

Fund Name: Construction

THE FOLLOWING CHANGES ARE RECOMMENDED:

Budget Tentative Page	ED Rec. Page	Code	Position Title or Line Item	FROM No. \$ Amount	TO No. \$ Amount	Plus/(Minus) \$ Amount	Explanation
77	362	645600	Collection Facilities Structures	\$0	\$75,000	\$75,000	Increase is due to the carryforward of 18-704-21, Reconditioning of Pump Motors No. 1 and No. 2, KWRP.
77	362	645700	Preservation of Collection Facility Structures	\$4,034,000	\$4,379,400	\$345,400	Increase is due to the carryforward of 19-804-21, Furnish, Deliver, and Install Four Sacrificial Deep Anode Ground Beds for the Cathodic Protection System, CSA.
77	362	645750	Preservation of Process Facility Structures	\$2,256,900	\$2,181,900	(\$75,000)	Decrease is due to the revised estimate for 20-802-21, Furnish, Deliver, and Install Shaftless Screw Conveyor Systems at the Aerated Grit Facility, CWRP.
77	362	645790	Preservation of Capital Projects, N.O.C.	\$1,294,800	\$949,400	(\$345,400)	Decrease is due to the cancellation of 18-913-21, Railroad Track Improvements, SSA (\$1,294,800), offset by the addition of J69922-22.A, Railroad Track Rehabilitation, SSA (\$800,000) and 20-907-21, Railroad Track Improvements, SSA (\$149,400).

CONSTRUCTION FUND BUDGET TOTAL:

\$18,044,400

\$18,044,400

\$0

December 2019 (BF-21)

Department Head (Recommended)

Budget Officer (Reviewed)

Executive Director (Approved)

12/11/19

4

Department Head (Recommended)

**APPROPRIATION ORDINANCE NUMBER O19-008A**  
**(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 \$107,319,000.

*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, 2020.

Approved as to Form and Legality:

*Deputy General Counsel*

Approved:

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

*General Counsel*