

Metropolitan Water Reclamation District of Greater Chicago

Maintenance & Operations

Executive Director's Budget Recommendations

John P. Murray, Director of Maintenance & Operations



Maintenance & Operations - All Divisions

	Appropriations	Positions
2018	\$189,607,600	903
2017	187,034,700	922
Change	\$2,572,900	4 19
	1.4%	

(Including BF-19 Changes)

Note: An additional 27 operational positions are funded by the Stormwater Management Fund for 2018.



Establish excellence in maintenance and operations

- 5 of 7 WRPs received NACWA Platinum Awards
 - 25 consecutive years of 100 percent compliance for the Calumet WRP
 - 99.97 percent compliance for all 7 plants



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2017 Accomplishments

Optimize chemical intensive processes

- Acquired additional experience with disinfection at the Calumet WRP and reevaluated assumptions, resulting in a decrease of \$1.2M for sodium hypochlorite
- Correspondingly, the decrease in sodium hypochlorite usage resulted in a decrease in sodium bisulfite usage for a savings of approximately \$180,000
- The carbon dioxide sparger, installed in 2016 at the Stickney WRP, is expected to show chemical savings of more than 15 percent, or \$70,000, in 2017



Optimize energy intensive processes

- As part of the phosphorus reduction efforts at the Calumet WRP, air at the beginning of each aeration tank has been shut off to create anoxic zones with an estimated 10 percent reduction in air usage
- TARP Pump #8 at the Stickney WRP was overhauled with an estimated reduction in future annual operating costs between \$75,000 and \$100,000



2017 Accomplishments

Establish excellence in maintenance and operations





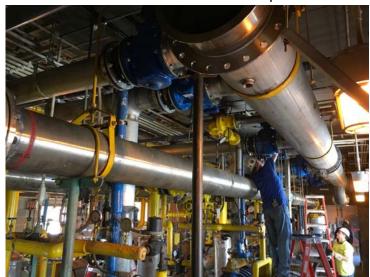




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2017 Accomplishments

Establish excellence in maintenance and operations





Optimize chemical intensive processes

 Continued optimization of chemicals used in the disinfection process at the Calumet WRP and in the Ostara process at the Stickney WRP

Optimize energy intensive processes

 Install a small dedicated turbo blower at the Egan WRP to operate two aeration tank air lifts, which will lower the operating air pressure of the large blowers and reduce annual operating costs by \$44,000

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Major Initiatives & Changes

Build infrastructure that includes technologies and equipment to extract and recover resources

- Phosphorus: Implement WASSTRIP® in the Ostara process
- Energy: Begin operating the SWRP gas turbine using digester gas for potential savings of \$1.0M in 2018



Pursue the sale of biosolids to the marketplace

- Increase the utilization rate of Class A biosolids in local communities to 30 percent of total utilization
- Produce a minimum of 30,000 tons of composted biosolids
- Seek to award professional services contracts for procuring wood chips and developing a comprehensive marketing plan for composted biosolids



Construction Fund



Construction Fund

Α	ppropriations
2018	\$24,842,100
2017	34,450,400
Change	\$9,608,300
	27.9%

(Including BF-19 Changes)

15



2017 Accomplishments

Optimize aeration processes and reduce energy consumption

 Purchased a turbo blower for the Lemont WRP with an expected 25 percent, or \$17,000, reduction in annual electrical costs



 Completed the energy conservation project to install a new boiler system at the 125th Pumping Station in the Calumet Service Area



Green infrastructure implementation: Completed the installation of a permeable parking lot at the Egan WRP



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2017 Accomplishments

Develop and implement targeted odor control strategies

 Evaluated odor control strategies for various process areas at the Egan and O'Brien WRPs

Utilize Fulton County for nutrient control

 Install drain tiles and bioreactors, a best management practice for reducing nitrogen runoff



Prioritize projects to ensure the best use of current spending

 Add 49 projects to the 2018 contract schedule based on their alignment with the Strategic Business Plan

Establish excellence in maintenance and operations

- Replace HVAC equipment, District-wide
- Replace railroad grade crossings, Stickney Service Area

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Major Initiatives & Changes

Pursue the recovery of natural resources and implement sustainable and resilient practices

- Continue phosphorus removal feasibility studies for the Egan, Hanover Park, Lemont, and Kirie WRPs
- Continue research project utilizing algae technology for the recovery of phosphorus and nitrogen
- Complete the digester gas turbine rehabilitation project



Seek optimal solutions to provide the best services and products available

 Develop plans to construct and operate a pilot unit of the MicroNiche™ technology at the O'Brien WRP

Provide active leadership in water issues

 IGA with the USGS to operate a water quality superstation in the Des Plaines River

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Metropolitan Water Reclamation District of Greater Chicago

Engineering

Executive Director's Budget Recommendations

Marcella V. Landis, Acting Director of Engineering



Engineering - Corporate Fund

	Appropriations	Positions
2018	\$27,849,900	242
2017	28,835,400	246
Change	985,500	4
	3.4%	

Note: An additional 30 operational positions are funded by the Stormwater Management Fund for 2018.

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🙀 2017 Accomplishments

Deliver and implement flood relief plan for Cook County

- As a result of WMO enforcement, in 2017 we expect to have permitted approximately:
 - 17 million gallons of volume control storage through GI
 - 95 million gallons of locally-provided stormwater detention





25



훩 Major Initiatives & Changes

Issue permits in less than 30 days

 Inform WMO applicants of compliance options and improve procedures to streamline process

40

Enhance use of current technology platforms

- Provide GPS units to local municipalities to map their sewer systems in GIS
 - District receives sanitary, storm, and combined sewer information





35 2017 YTD



Capital Improvements Bond Fund

Appropriations
2018 \$304,468,400
2017 354,625,600
Change \$50,157,200
14.1%

(Including BF-19 Changes)

27



2017 Accomplishments

Implement flood relief for Cook County

McCook Reservoir completion in 2017





👸 2017 Accomplishments

Recycle demolition material on all District projects

 In 2017, so far over 700 tons of construction and demolition material recycled





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📓 Major Initiatives & Changes

Develop planning schedules and adhere to project timeframes

- Construction delivery
- Design delivery

Implement food-to-energy at the Calumet WRP

- Design is complete and project is bid
- Waiting board consideration once risk analysis is complete

Maximize use of digester gas at the Stickney WRP

Gas increase with primary tanks – FY2018

Optimize aeration processes and reduce energy consumption

Evaluating piping configuration and turn-down capacity of blowers



	Request Data for Active Projects as of 10-27-17						
Project Number	Project Name	Latest Contractor Pay App Approved	Original Contract Sum	Contract Sum to Date	Total Completed & Stored to Date	% Complete	% of Origin Bid
06-842-2E	Electrical Equipment Replacement	1/11/2017	\$1,949,646.00	\$1,988,487.68	\$1,972,367.62	99.2%	1029
06-494-3P	Centrifuge Building and Sludge Loading System Upgrades, EWRP and HPWRP	9/11/2017	\$9,044,000.00	\$9,291,169.50	\$9,111,840.90	98.1%	1039
04-202-4F	Connecting Tunnels and Gates Thornton Composite Reservoir	2/8/2017	\$135,475,200.00	\$137,067,451.17	\$133,630,105.82	97.5%	101
04-131-2D	Rehabilitation of the A/B and C/D Service Tunnels	1/11/2016	\$13,615,000.00	\$14,047,024.65	\$13,641,852.23	97.1%	103
10-883-AF	Flood Control/Streambank Stabilization on Tinley Creek	10/11/2017	\$7,222,220.00	\$7,358,539.96	\$7,139,600.53	97.0%	102
15-123-3D	Safety Railing Around Tanks, Stickney Water Reclamation Plant	10/13/2017	\$5,239,000.00	\$5,271,460.61	\$5,090,969.33	96.6%	101
11-052-3F	Streambank Stabilization for the West Fork of the NB of the Chicago River	10/11/2017	\$413,000.00	\$429,795.19	\$411,795.19	95.8%	104
04-203-4F	Final Reservoir Preparation Thornton Composite Reservoir, CSA	3/13/2017	\$50,763,937.00	\$53,932,475.17	\$51,356,777.47	95.2%	106
11-195-AP	Phosphorous Recovery Facility, SWRP	9/11/2017	\$31,879,000.00	\$34,905,483.55	\$32,538,660.25	93.2%	109
11-403-2P	Membrane Gas Holder Replacement and Digester Cleaning at Egan WRP	10/10/2017	\$4,364,000.00	\$5,832,802.63	\$5,342,687.21	91.6%	134
13-246-3M	Calumet TARP Screens, Calumet Water Reclamation Plant	10/10/2017	\$12,754,000.00	\$12,754,000.00	\$11,496,217.50	90.1%	100
06-212-3M	Calumet TARP Pump Station Improvements	10/10/2017	\$35,067,000.00	\$36,233,366.93	\$32,307,322.00	89.2%	103
15-072-3D	Safety Railing Around Tanks, Terrence J. O'Brien Water Reclamation Plant	10/9/2017	\$1,400,000.00	\$1,555,493.45	\$1,330,708.63	85.5%	111
04-128-3P	Westside Primary Settling Tanks & Aerated Grit Tanks	10/10/2017	\$224,760,000.00	\$232,212,836.07	\$197,889,406.62	85.2%	103
15-122-3P	Aeration Tanks Air Valves Automation in Batteries A, B, C and D	10/10/2017	\$6,566,307.00	\$6,654,230.00	\$5,646,687.53	84.9%	101
10-882-DF	Streambank Stabilization Flood Control Project for Tinley Creek in Orland Hills	12/1/2016	\$664,000.00	\$664,000.00	\$545,672.00	82.2%	100
10-883-CF	Cherry Creek East Branch Flood Control Project	10/6/2017	\$3,304,500.00	\$3,304,500.00	\$2,715,112.44	82.2%	100
06-155-35	Salt Creek Intercepting Sewer 2 Rehabilitation, SSA	10/10/2017	\$43,878,100.00	\$44,223,508.01	\$32,599,053.45	73.7%	101
14-824-3D	Rehabilitation of Bridges, NSA on the North Shore Channel	10/6/2017	\$2,093,000.00	\$2,260,251.30	\$1,652,437.82	73.1%	108
02-111-3M	TARP Pump #8 Rehabilitation Mainstream Pumping Station	7/12/2017	\$4,533,000.00	\$4,631,675.87	\$3,367,595.88	72.7%	102
15-120-3P	Conversion of OLC GCTs to WASSTRIP Process	10/10/2017	\$5,223,243.00	\$5,402,617.04	\$3,575,542.64	66.2%	103
15-265-3D	Safety Railing Around Tanks, Calumet WRP	10/10/2017	\$1,455,030.00	\$1,455,030.00	\$911,136.60	62.6%	100
04-132-3D	A/B and C/D Service Tunnel Rehabilitation – Phase Two	10/10/2017	\$20,519,000.00	\$20,614,593.58	\$11,004,858.07	53.4%	100
13-106-4F	McCook Reservior, Des Plaines Inflow Tunnel, SSA	10/11/2017	\$107,770,362.00	\$107,764,062.00	\$53,598,081.41	49.7%	100
11-239-35	Calumet Intercepting Sewer 19F Rehabilitation, CSA	10/11/2017	\$12,395,588.70	\$12,395,588.70	\$5,785,746.27	46.7%	100
16-268-2V	Industrial Waste Division (IWD) and Const. Office Renovation at the CWRP	10/11/2017	\$2,546,000.00	\$2,564,483.07	\$1,001,862.15	39.1%	101
14-714-21	Parking Lot Replacement at Egan Water Reclamation Plant	7/11/2017	\$1,461,900.00	\$1,519,004.25	\$535,606.78	35.3%	104
09-182-3E	D799 Switchgear Replacement Stickney Water Reclamation Plant	10/12/2017	\$12,645,300.00	\$12,785,040.03	\$3,221,774.01	25.2%	101
10-237-3F	Streambank Stabilization on Oak Lawn Creek, Cal-Sag Channel Watershed	9/12/2017	\$3,035,000.00	\$3,035,000.00	\$609,109.89	20.1%	100
15-118-3M	Main Sewage Pump Seal Water system Modification	10/10/2017	\$1,121,000.00	\$1,113,300.00	\$220,987.00	19.8%	999
16-125-4F	McCook Reservoir Stage 2 Slope Stabilization & Retaining Walls in the (SSA)	9/22/2017	\$7,338,677.00	\$7,338,677.00	\$586,658.68	8.0%	100



Stormwater Management Fund

	Appropriations	Positions
2018	\$65,880,200	57
2017	45,800,100	59
Change	\$20,080,100	2
	43.8%	



2017 Accomplishments

Develop and implement effective flood mitigation programs

- Five pilot studies completed
- Buyout programs implemented
- Phase I projects
- Phase II Annual Submittals

Structure a multi-dimensional, culture changing strategy for green infrastructure

- Space to Grow
- 47 community submittals in 2017
- Annual green infrastructure project submittals
- WMO permitted green infrastructure estimated in excess of 17 million gallons of retention capacity in 2017



Stormwater Management projects completed to date:

Over 3,500 structures protected

PHASE I		
Project Number	Project Title/IGA Description	Structures Protected
09-365-5F	Heritage Park Flood Control Facility / Levee 37	600
14-IGA-01	Elmwood Park Floodwall and Pump Station	50
10-885-AF	Streambank Stabilization Project for I&M Canal Tributary D	19
11-889-5F	Streambank Stabilization Project for Higgins Creek	6
11-889-5F	Streambank Stabilization Project for McDonald Creek	3
10-884-AF	Flood Control Project for Upper Salt Creek	18
10-883-AF	Flood Control/Streambank Stabilization on Tinley Creek in Crestwood	173
10-882-DF	Streambank Stabilization Project on Tinley Creek	12
11-052-3F	Streambank Stabilization Project on West Fork of NBCR	2
10-883-CF	Flood Control Project on the East Branch Cherry Creek in Flossmoor	16
15-IGA-13	Centerpoint Preserve Riparian Area Restoration	1

2017 Accomplishments

Stormwater Management projects completed to date:

• Over 3,500 structures protected

PHASE II		_
Project Number	Project Title/IGA Description	Structures Protected
14-IGA-02	Glenview 1 - East of Harms	1,150
14-IGA-03	Westchester 1 - Mayfair Reservoir Expansion	60
14-IGA-04	Des Plaines 12	56
15-IGA-12	Winnetka 4	27
15-IGA-08	Hoffman Estates 1	57
15-IGA-09	Lansing 1	67
15-IGA-10	Northbrook 2 and 5	40
15-IGA-03	CCDTH 2 - Roberts Road	30
15-IGA-07	Franklin Park 5	76
15-IGA-11	Willow Springs 1	20
15-IGA-02	Niles 1	140
15-IGA-15	Glenwood Relief Sewer	12
15-IGA-16	Brookfield 1	14
15-IGA-06	Elk Grove Village 1	44
15-IGA-19	IDOT 11 - IL53 and IL62 Interchange in Rolling Meadows	4
15-IGA-17	Lemont 1	2
16-IGA-05	Glencoe 4 & 6	16
17-IGA-01	Hillside Master Plan	TBD



Stormwater Management projects completed to date:

Over 3,500 structures protected

Project Number	Project Title/IGA Description	Structures Protected
14-IGA-06	CPS Green Infrastructure 2014 (4 pilot schoolyards completed)	4
15-IGA-20	CPS Green Infrastructure 2015-2019 (5 schoolyards completed)	5
14-254-3FR	Blue Island GI	12
14-IGA-05	Evanston Civic Center Parking Lot (GI)	102
15-IGA-21	Northbrook - Wescott Park Stormwater Reuse (GI)	70
15-IGA-17	Wilmette Green Alleys	160
16-IGA-01	Kenilworth GI	105
16-IGA-07	Berwyn GI	336
16-IGA-09	Niles GI	60
16-IGA-19	Chicago Park District - Parjana	1
Flood-Pro	ne Property Acquisitions	
15-IGA-01	Glenview Flood Prone Acquisition	17



Major Initiatives & Changes

Deliver and implement flood relief plan for Cook County

- Program Managers for combined & separate sewer areas
 - Interviews complete, will bring to Board for consideration
 - Work with local communities to find solutions to stormwater issues using an outcome-based approach at an affordable cost
- Construct regional stormwater projects: Addison Creek Reservoir, Farmers-Prairie Creek Flood Control Project, Lyons Levee, Melvina Ditch Reservoir Expansion, Buffalo Creek Reservoir Expansion, and Deer Creek Flood Control
- Leverage grant funding from IEPA and Cook County
- Green Book



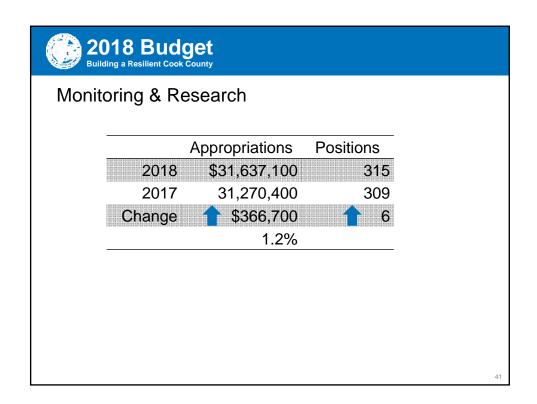


Metropolitan Water Reclamation District of Greater Chicago

Monitoring & Research

Executive Director's Budget Recommendations

Donna Coolidge, Assistant Director of Monitoring & Research



Transition from an enforcement perspective to informed compliance Implementation of single account representative, data sharing initiatives, and educational outreach to the user community 30 users have been moved into the simplified reporting program, with another 160 users under review



📓 2017 Accomplishments

Develop and implement targeted odor control strategies

	Conceptual Designs			
	Completed in 2017	To be completed in 2018		
SWRP	5	2		
CWRP	2	-		
HPWRP	3	-		
KWRP	1	2		
OWRP	-	4		
EWRP	-	4		

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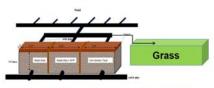


2017 Accomplishments

Utilize Fulton County property for nutrient control

- Cover crops research and demonstration plots as a nutrient reduction best management practice (BMP) have been established
- Field days have been conducted in collaboration with Illinois Central College to demonstrate the practice to local farmers
- Research and demonstrations of other BMPs are established in collaboration with University of Illinois Urbana-Champaign

Bioreactor/Saturated Buffer (2017)



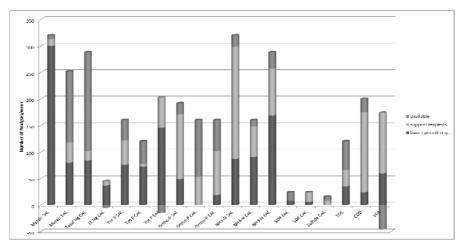
Removes nitrogen and phosphorus in tile drain







Develop planning schedules and adhere to project timeframes



Analytical Laboratory Division (ALD) Support Request Dashboard

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2017 Accomplishments

Implement recovery process at the Calumet and Egan WRPs by 2022

- Completed Phosphorus Removal Evaluation at the Calumet WRP
- Recommendation: EBPR with Phosphorus Recovery
- An interdepartmental review of all Phosphorous Recovery Technologies (Task Force)



Explore algae nutrient reduction processes as an additional recovery resource

- Phase 1 of pilot testing of the Revolving Algae Biofilm (RAB) reactor has been completed
- A new 10-ft. tall RAB is has been installed and is now in operation for a one-year study
- A second algae treatment research study is in progress at UIUC using submerged LED lights and floating plastic media for algae attachment

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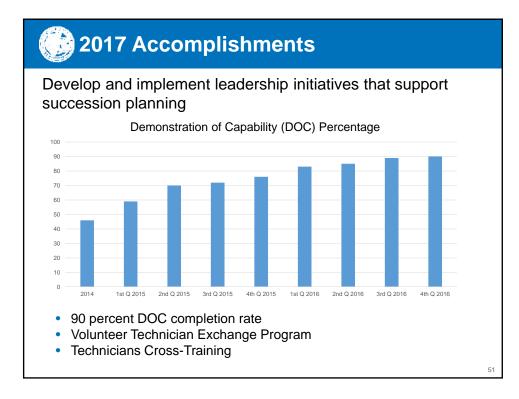


2017 Accomplishments



*As of October 16, 2017

- First permit was approved on April 24, 2017
- First truckload to Stickney WRP was on April 26, 2017
- First truckload to Calumet WRP was on August 23, 2017

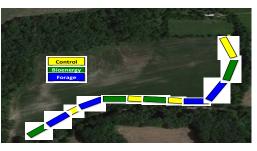




Continue to use the Fulton County site for conducting nonpoint source nutrient loss reduction studies

- Completing drainage tile installation and initiating the study for water management in drainage tiles
- Completing the installation of bioreactors for nitrogen removal and initiating the bioreactor evaluation study







Continue odor control/mitigation strategies for District WRPs

Continue the prioritization of projects to ensure the best use of current spending

- Phosphorus removal feasibility studies for seven WRPs
- Continue to update the District's long-term capital plan and integrate this process with the District's budget process in the first half of 2018





Hydrogen Peroxide Dosing System for TARP Pumpba

Major Initiatives & Changes

Pursue the sale of biosolids to the marketplace

 District-wide biosolids master plan with the goal of completing long-term plan for LASMA

Explore algae nutrient reduction processes

 Conduct Phase 2 study on using algae for nutrient removal with 10-foot height revolving belts

Implement phosphorus recovery process at Calumet by 2022

- Complete technology evaluation for phosphorus recovery at the Calumet WRP
- Recruit more high strength organic materials for biological phosphorus removal at the Calumet WRP

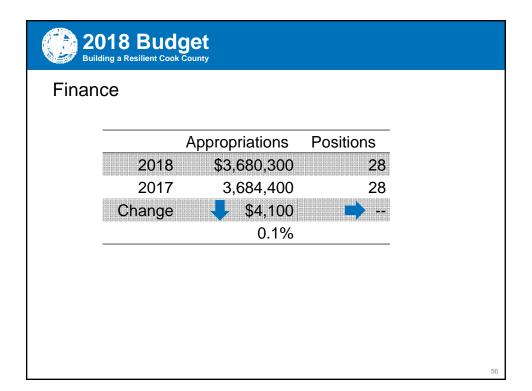


Metropolitan Water Reclamation District of Greater Chicago

Finance

Executive Director's Budget Recommendations

Jacqueline Torres, Clerk/Director of Finance





📆 2017 Accomplishments

Manage resources to ensure financial stability targets are met

- Received an unmodified (clean) opinion for the 2016 Comprehensive Annual Financial Report (CAFR)
- Received the Government Finance Officers Association Award for Excellence in Financial Reporting on the 2016 CAFR for the 42nd consecutive year
- Completed ten planned audits resulting in assurance of continued compliance, improved operating efficiencies, and cost savings
- Established the District's Sales Tax Filing with the State of Illinois

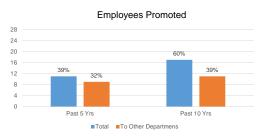
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2017 Accomplishments

Develop a culture that recognizes the value of every employee

Training initiatives have resulted in promotional opportunities for Finance staff



 Hold a one-day, off-site Team Building Training for all levels of the department



Technology

- Implemented CAFR solution to re-engineer compilation and delivery of financial information resulting in improved accuracy and increased efficiency
- Developed a strategy to optimize payment processing and increase Automated Clearing House (ACH) usage

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Major Initiatives & Changes

Maximize automated solutions

- Enable functionality of vendor payment system to utilize straight-through processing
- Investigate ways to receive revenues using Automated Clearing House (ACH) processing

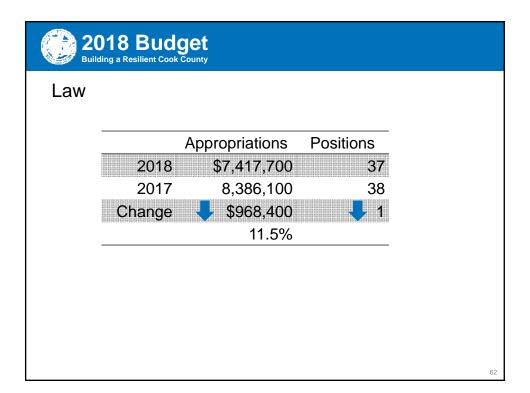


Metropolitan Water Reclamation District of Greater Chicago

Law

Executive Director's Budget Recommendations

Susan T. Morakalis, General Counsel





📓 2017 Accomplishments

Excellence

 Complex settlement of the Citizens Suit - Federal lawsuit filed by the Natural Resources Defense Council, Inc., et al v MWRD

Maximize our real estate portfolio

 The Real Estate Division increased rental revenue by approximately \$1 million

Focus on customer service and transparency

 The Freedom of Information Act (FOIA) link on the District's website now includes links to categories of records whereby the public can easily access many documents online, previously only obtainable by filing a FOIA request with the District

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🙀 2017 Accomplishments

Provide legal support for resource recovery initiatives

- Oversaw the legal aspects of implementation of various resource recovery programs including the issuance of Organic Materials Discharge Authorization to allow delivery of high strength liquid waste for use in the phosphorus removal initiative
- Obtained anticipatory authority to participate in a nutrient trading program in Illinois to help meet water quality standards



Provide legal support for resource recovery initiatives

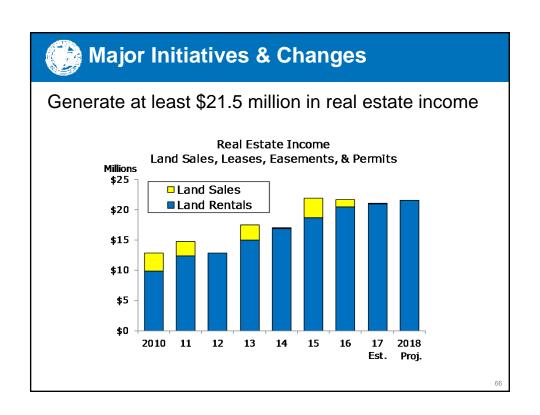
 Continue to oversee the legal aspects of the District's resource recovery programs

Provide support to our internal customers

 The Law Department will continue to work with the Public Affairs Section to facilitate drone operations

Maximize our real estate portfolio

Real estate lease & easement revenue continues to grow.
 This revenue stream has increased from \$9.8 million in 2010 to a projected \$21.5 million in 2018.





Participate in active leadership roles in a variety of organizations

- The Law Department has a member on the NACWA Legal Affairs Committee
- Continue to work with the M&O Department to facilitate and administer the chlorides work group created to bring together dischargers and other interested participants to address ways to reduce chlorides in the Chicago Area Waterway System
- Formed the Local Government Law Consortium, which comprises legal counsel representing 17 state, county, and local public bodies. It's goal is to build relationships with other local governmental in-house counsel in Cook County and to share ideas and common experiences.

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Metropolitan Water Reclamation District of Greater Chicago

Procurement & Materials Management

Executive Director's Budget Recommendations

Darlene A. LoCascio, Director of Procurement & Materials Management



Procurement & Materials Management

	Appropriations	Positions
2018	\$9,383,500	63
2017	9,567,100	63
Change	\$183,600	
	1.9%	

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🙀 2017 Accomplishments

Manage resources to ensure financial stability targets are met

 Secured an electricity supply price for 2019 of \$0.02924 per kilowatt-hour kWh) for a total unit price of \$0.03150 per kWh, including a bandwidth of 100 percent

Optimize work distribution processes and workflow

 Collaborated with M&O to ensure that 100 percent of materials and supplies required for preventive maintenance work orders are available in the storerooms

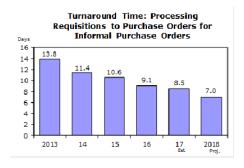
Achieve energy neutrality by 2023

 Completed the replacement lighting project using highefficiency light-emitting diode fixtures in the Stickney Water Reclamation Plant storeroom



Improve service levels to meet the needs and expectations of the internal customer to improve planning schedules and adherence to project timeframes

 For informal contract purchases, modifications are being implemented to reach the goal of a five-day turnaround time from requisition to purchase order



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🏿 Major Initiatives & Changes

Develop processes that are results oriented

 Have an active role in the selection of engineering consultants and attorneys by developing a request for qualifications and search criteria for the vendor database

Promote environmental stewardship through recycling

 P&MM will complete the replacement of wooden pallets used for the racking systems at the District's storerooms with recyclable plastic pallets made with recycled content



Major Initiatives & Changes

Market electrical capacity at Lockport to maximize return on investment

In collaboration with M&O, P&MM has awarded a contract to assist the District in becoming a PJM service provider to market electricity generation capacity at the Lockport Powerhouse, which will allow the District to begin buying and selling electrical energy and Renewable Energy Credits on the wholesale market

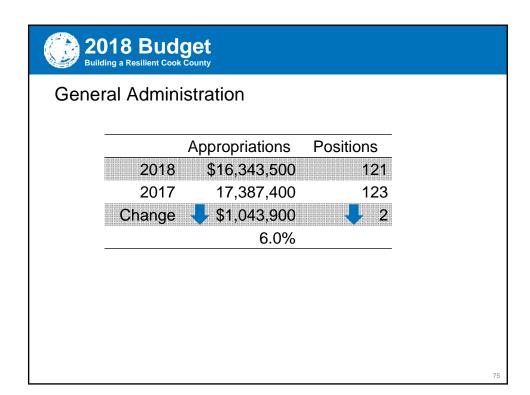


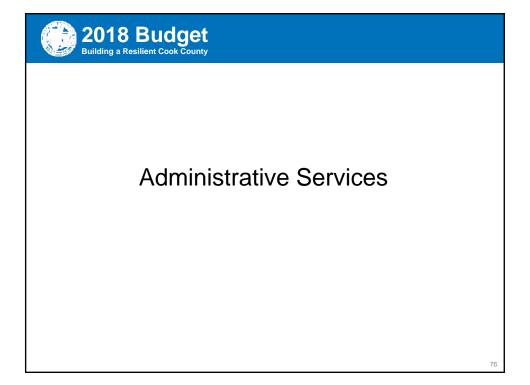
Metropolitan Water Reclamation District of Greater Chicago

General Administration

Executive Director's Budget Recommendations

Eileen M. McElligott, Administrative Services Officer Regina D. Berry, Diversity Administrator Allison Fore, Public and Intergovernmental Affairs Officer







🙀 2017 Accomplishments

Provide base budget targets and assure approvals above base are strategic initiatives

Manage resources to ensure financial stability targets are met

- Monitor revenues and expenditures throughout year
- 2017 Budget received 33rd consecutive GFOA Distinguished Budget Presentation Award

Develop a culture that recognizes the value of every employee

- Developed a targeted training session for 49 analysts with Lake Forest College
- Trained Officers on Staff & Command and Use of Force

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🍓 2017 Accomplishments

Ensure availability of medical disposal options

- Continued in-house drug collection and disposal program
 - 277.9 lbs. collected in 2016
 - 313.3 lbs. collected in 2017 YTD
- Continued partnership with Cook County Sheriff's Office to collect and dispose of used medications County-wide
 - 2,117.5 lbs. collected since IGA inception June 2016



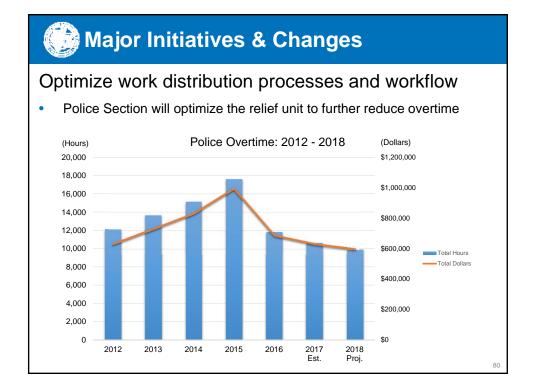
📆 2017 Accomplishments

Explore opportunities for recycle partnerships

 New single stream recycling program implemented at MOBC in September 2017



Before After 79





🥽 Major Initiatives & Changes

Streamline and simplify the budget process

- Implement a new financial reporting tool to increase efficiencies in the data consolidation and publication of the budget book
- Revise chart of accounts to accurately reflect the organizational structure



Major Initiatives & Changes

Establish excellence in maintenance and operations

- Elevator upgrades at MOB
- Roof life extension at MOB
- Paint and carpet replacement at MOB
- Bathroom stall renovation at MOBC





Diversity



2017 Accomplishments

Increase the number of MBE and WBE vendors on the District's vendor list

- Hosted two Minority/Women/Small Business Entity outreach events targeted towards professional service contractors and construction contractors
 - Events were attended by over 400 subcontractors, 70 prime contractors, other local government agencies, and assist agencies



🙀 2017 Accomplishments

Participate in active leadership roles

 Regina Berry named to Board of Directors for the American Contract Compliance Association

Hosted the Annual African American History Celebration

- Highlighted the Chicago City Council Wars of the 1980's
- Honored members of late Mayor Harold Washington's 21 – living and posthumously
- Honored Trailblazers in the area of Minority-owned and Women-owned Business inclusion

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🧌 Major Initiatives & Changes

Strengthen compliance requirements for consulting contracts

- Implement recommendations from the Baker Tilly review of engineering consulting contracts
- Professional services contracts District-wide training FY2018

Enhance contracting opportunities

- Implement and establish a Small Business Enterprise Program for particular District contracts
- Host contract specific outreach events



Public Affairs



2017 Accomplishments

Work to revitalize the urban forest

The District has distributed 45,000 saplings throughout Cook County through partnerships with community organizations, schools, Boy and Girl Scouts, municipalities, Park District, Forest Preserves, etc.

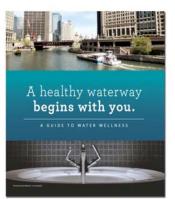






👸 2017 Accomplishments, cont.

Develop prevention education materials. Copies are now available.





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Major Initiatives & Changes

Develop a culture that recognizes the value of every employee

 Continue to prepare and send the daily 'MWRD in the News' report to all employees

- Continue to write and disseminate the 'District Digest' newsletter
- Work with the Human Resources
 Department to promote the
 Values Recognition program by
 recognizing staff excellence with
 a certificate and writing stories
 for the 'District Digest'





Major Initiatives & Changes, cont.

Enhance use of current technology platforms

 Public Affairs will improve and expand drone operation skills; sample footage can be seen here:



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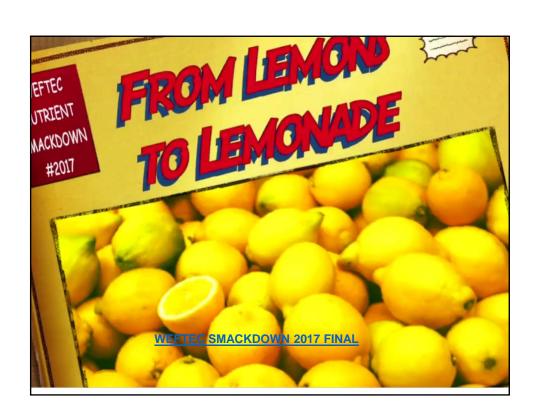


Major Initiatives & Changes, cont.

Promote the District as one of the top leaders in the water industry

 Public Affairs will maintain the District's positive public image through proactive communications and by implementing an updated Community Outreach Plan that addresses all Strategic Business Plan goals









Metropolitan Water Reclamation District of Greater Chicago

Information Technology

Executive Director's Budget Recommendations

John H. Sudduth, Director of Information Technology



Information Technology

Ap	propriations	Positions
2018	\$16,903,400	73
2017	17,358,600	75
Change	\$455,200	2
	2.6%	



📓 2017 Accomplishments

Provide reliable system services to every user

- Completed the installation of wireless networks at MOB, MOBA, and conference rooms at various plant locations
- Re-architected the District's printing environment, cutting printing issues by 87 percent
- Increased the District's internet connection speed in efforts to better support hosted applications
- Completed the upgrade of network infrastructure at MOB and MOBA
- Replaced antiquated thin client devices with personal computers

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2017 Accomplishments

Utilize current capability and develop a shared information technology vision

- Revamped the Help Desk to the IT Service Desk based on the IT Infrastructure Library (ITIL) best practice framework
- Completed the implementation of a new Information Technology Service Management solution to enhance help desk services, resulting in improved customer response
- Implemented a cyber security awareness program to better inform District staff of cyber threats
- Implemented an online channel atlas, giving the general public access to view vacant property online



Major Initiatives & Changes

Provide reliable system services to every user

- Telemetry system upgrade
 - Antiquated water-way phone lines
 - Consolidate the voicemail system
 - Upgrade PBX phone system converted to digital system
- Network infrastructure upgrade at various plant locations
 - Replace hardware at Stickney, Calumet, and Egan WRPs
 - Redesign the District's IT backup solution
- Reevaluate the District's ERP systems
 - Replace the employee Applicant Tracking system
 - · Replace the intranet (District portal)

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Metropolitan Water Reclamation District of Greater Chicago

Human Resources

Executive Director's Budget Recommendations

Beverly K. Sanders, Director of Human Resources



Human Resources

A	ppropriations	Positions
2018	\$59,106,300	91
2017	60,905,400	141
Change	\$1,799,100	- 50
	3.0%	



2017 Accomplishments

Develop a culture that recognizes the value of every employee

- Delivered training courses
- Tuition reimbursement
- Leadership development

Wellness initiatives

- On-site health fairs
- Free on-site flu shots
- Mainstream 5k walk/run

Employee selection

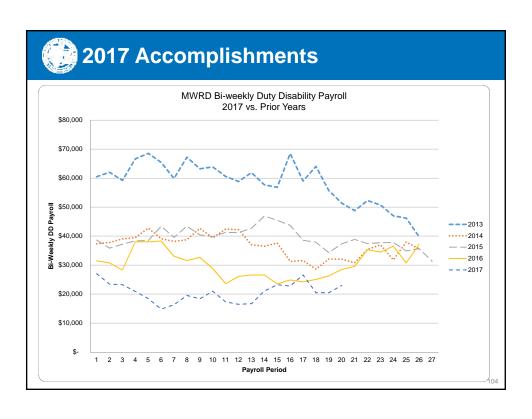
- Served 8,000 individuals
- Administered civil service examinations for 60 classifications



2017 Accomplishments

Strive to provide a safe environment for our employees

- Safety courses
 - 1,048 sessions
 - 8,623 attendees
 - 55 different topics







🥽 Major Initiatives & Changes

Develop and implement initiatives that support succession planning

- Coaching training
- **Emerging leaders**

Continue development of competency-based individual development plans

Measureable goals



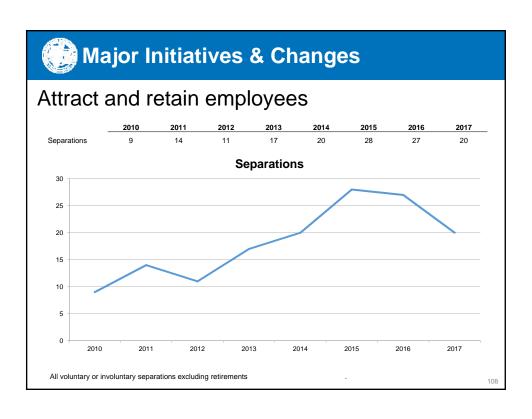
🚺 Major Initiatives & Changes

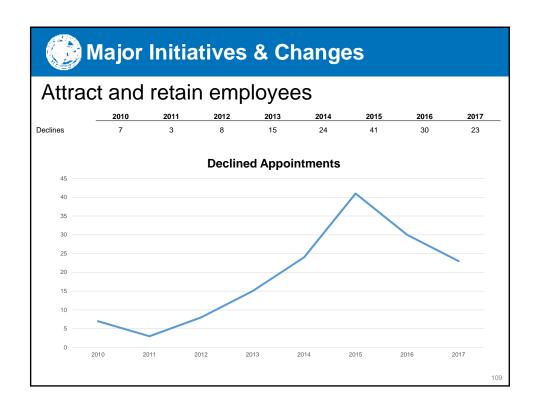
Develop a culture that recognizes the value of every employee

- Acknowledge accomplishments
- Training opportunities for all levels of the organization

Provide reliable system service to every employee

Employee benefits software platform







Metropolitan Water Reclamation District of Greater Chicago

Board of Commissioners

Executive Director's Budget Recommendations

Nicholas O'Connor, Administrative Aide to President Mary Ann Boyle, Treasurer



Board of Commissioners

	Appropriations	Positions
2018	\$4,665,700	38
2017	4,495,600	38
Change	1 \$169,400	
	3.8%	

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Board of Commissioners

- Establish policies and programs for the District
- Promote the District's Legislative Program with the state and federal governments
- Provide a forum to encourage community participation



🙀 2017 Accomplishments

Treasury

Manage resources to ensure financial stability targets are met

- Investment interest income earned for the year will be approximately \$7.0 million, an increase of \$1.9 million, or 37 percent, from 2016
- Fifth consecutive year of access to \$200 million in lowinterest loans from the IEPA as a result of the Illinois Clean Water Initiative
- The District progressed in meeting its funding policy goals for its Retirement plans. As of December 31, 2016, the Retirement Fund's funded ratio was 56.2 percent, and the OPEB Trust's funded ratio was 52.1 percent (based upon 2015 actuarial valuation).

11:



🎒 Major Initiatives & Changes

Ensure the responsible use of resources

- Commit to excellence through responsible management of assets, maintenance of compliance with federal laws and state statutes, and fulfillment of pension and OPEB funding policy goals
- Maintain the District's high credit ratings
- 2018 budget includes a prepayment of \$28.4 million in State Revolving Fund loans which will result in \$9.6 million in interest cost savings. This prepayment illustrates the District's commitment to sustainable capital program funding.

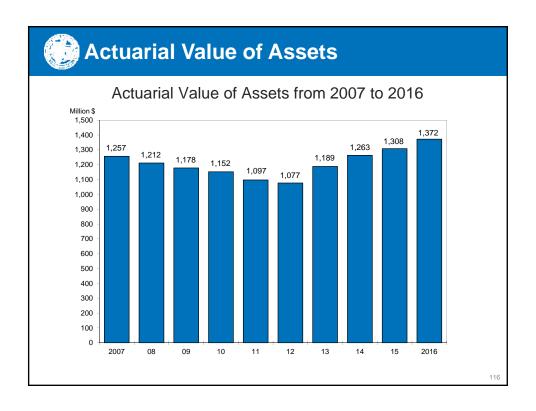


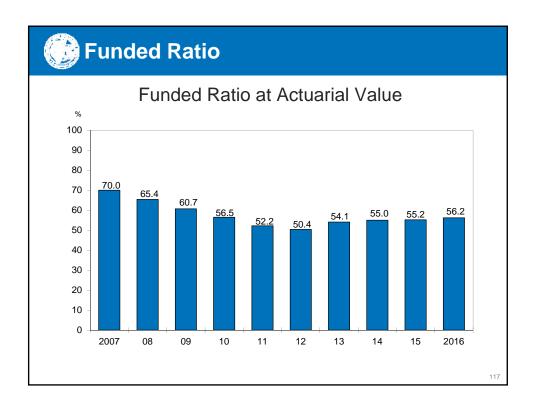
Metropolitan Water Reclamation District of Greater Chicago

Retirement Fund

Executive Director's Budget Recommendations

Susan Boutin
Executive Director, Metropolitan Water Reclamation District Retirement Fund





As of December 31, 2016	
Actuarial Value of Assets	\$1.4 billion
Total Actuarial Liability	\$2.4 billion
Funded Ratio	56.2%
2017 Actuarially Determined Contribution	\$65.7 million
2018 Expected Employer Contribution	\$89.6 million

