

	Appropriations & Positions								
Μ	Maintenance & Operations – All Divisions								
		Appropriations	Positions	I					
	2017	\$186,505,800	908						
	2016	187,725,800	927						
	Change	\$1,220,000	4 19						
		0.6%							
Not	e: An additional 27 operational c	ositions are funded by the Storm	water Management Fund for 20	)17.					
			g	2					

Innovative Operations for Nutrient Management Solutions

- Implemented the ultraviolet (UV) disinfection process at the O'Brien Water Reclamation Plant (WRP). UV disinfection is a physical process that neutralizes microorganisms as they pass by UV lamps in the effluent. It is safe, cost-effective, and environmentally friendly.
- Launched the Ostara Nutrient Recovery Facility at the Stickney WRP. The facility, which was developed in partnership with Ostara Nutrient Recovery Technologies and Black & Veatch, is an example of how progressive technology can be adopted to transform a wastewater treatment facility into a resource recovery center. The system is designed to capture phosphorus for environmentally friendly reuse, improve the quality of watercourses, and provide an additional revenue stream for the District.

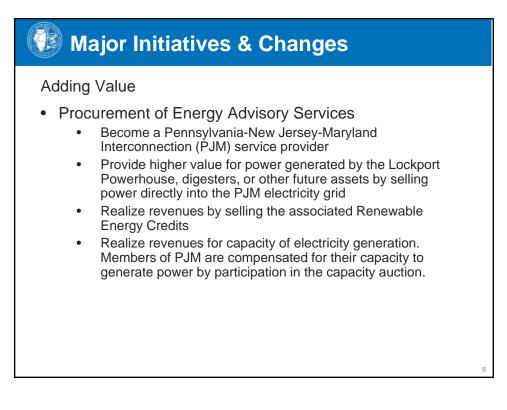
### 🕑 2016 Accomplishments

#### **Enhancing Operations**

- Implemented an online system allowing the public to file incident reports, which are then assigned to operations staff for immediate investigation and action. With the system's mapping function, odor complaints can be tracked to identify and analyze hot spots and clusters. With such high-quality data, the odors can be mitigated and customer satisfaction improved. It is estimated that operations staff responded to approximately 90 odor complaints in 2016.
- In 2015, the District generated 41.6 million kWh and received \$1.24 million in revenue from ComEd. Projected generation for 2016 is 40.9 million kWh, with a projected value of approximately \$1.17 million, and for 2017 is 41.5 million kWh, with a projected value of approximately \$1.0 million.

Adding Value, Promoting Excellence

- Campaign to "Restore the Canopy, Plant a Tree"
  - Begin construction on an 8.2 acre tree nursery at the Hanover Park WRP. When complete, the facility will serve as a worldwide example of the value and viability of biosolids.
- Create markets for biosolids & biosolids-based products
  - · Develop relationships with landscapers and communities
  - Maximize use of biosolids as a commercially viable fertilizer
- Voluntary Energy Curtailment Program
  - The Board of Commissioners selected EnergyConnect, Inc. in 2015 to guide the program
  - Program participants reduce energy use during peak periods
  - A \$1.5 million rebate is expected for the 2016-2017 period



#### **Developing Employees**

- Asset Management Section
  - · Consolidate electrical and mechanical engineering staff
  - Centralize the maintenance function
  - Prioritize work on a department-wide basis
  - Deploy resources as needed
- Continue Emphasis on In-House Maintenance
  - Leverage the expertise and experience of in-house personnel
  - Provide ongoing and targeted training to ensure the plants are well maintained
  - Reduce the 2017 budget for contractual services (excluding utilities) by ~ \$3.0 million or nine percent compared to the 2016 adjusted budget

## Major Initiatives & Changes

#### Resource Recovery and Technology

Tremendous resources reside in wastewater and biosolids. M&O has several new projects designed to extract that potential.

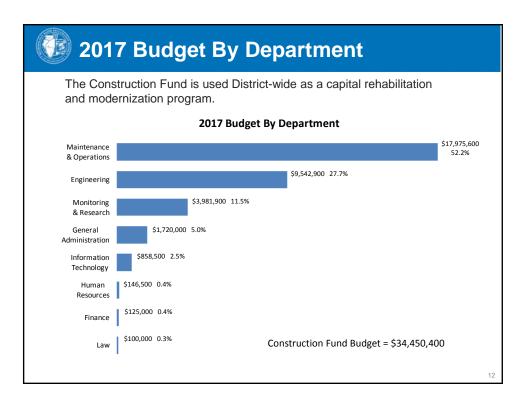
- Ostara, also known as the "Pearl System"
  - Extracts phosphorus and ammonia from the waste stream
  - Provides significant environmental benefits
  - Produces a slow-release fertilizer product
- Gas Turbine
  - Otherwise wasted digester gas will be turned into useful energy at the Stickney Water Reclamation Plant
  - Generated electricity will be delivered back to the grid and distributed throughout the plant, thereby reducing total electrical demand

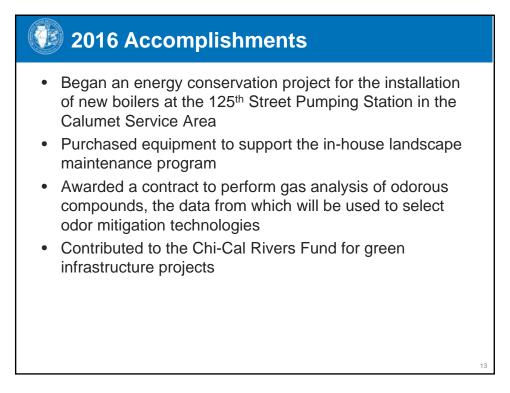
Resource Recovery (continued)

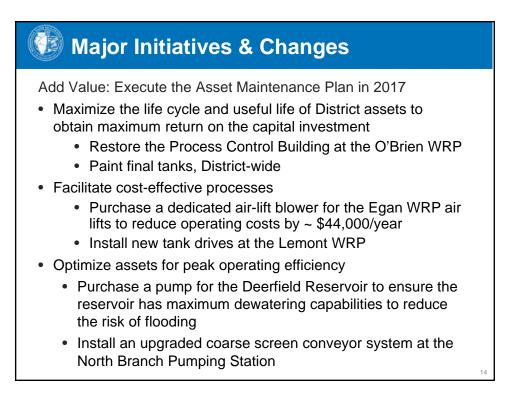
- Biosolids Composting Program
  - Adopted an Intergovernmental Agreement with the City of Chicago that runs through 2017
  - Use tree debris supplied by the city as a bulking agent for composting biosolids
  - Produce ~ 50,000 tons of composted biosolids in 2017
  - Create a value-added product with a variety of beneficial applications



	Appropriatio	ns				
Cor	nstruction Fund					
	(Including BF	-19 Changes)				
		Appropriations				
	2017	\$34,450,400				
	2016	36,614,400				
	Change	\$2,164,000				
		5.9%				







Add Value: Execute the Asset Maintenance Plan in 2017 (cont.)

- · Improve asset utilization throughout the plants
  - Install boiler controls at the Stickney WRP to enable full utilization of digester gas
- Reduce the likelihood of service delays or interruptions to our customers
  - Rehabilitate Hydraulic Operator at TARP Gate Structure
    1, Calumet Service Area
- · Provide a safe and healthy working environment
  - Install a headrace handrail at the Lockport Powerhouse
  - Rehabilitate pavement, District-wide

### Major Initiatives & Changes

Excellence

- Use District personnel to develop, design, and implement Construction Fund projects
- Pursue research programs focused on addressing regulatory actions, achieving energy neutrality and resource recovery, and generating cost savings

#### **Resource Recovery**

- Research project using algae technology for the recovery of phosphorus and nitrogen from wastewater
- Phosphorus removal feasibility studies for the Egan, Hanover Park, Lemont, and Kirie WRPs



Appropriations & Positions						
ngineering - (	Corporate Fund					
	Appropriations	Positions				
2017	\$28,589,000	246				
2016 28,072,900 244						
Change <b>†</b> \$516,100 <b>†</b> 2						
	1.8%					
e: An additional 30 operati	onal positions are funded by the Storm	water Management Fund for 20				

#### Plan, Design, and Construct CIP Projects

In-House Designs Completed

- Conversion of GCTs to WASSTRIP Process, SWRP
- Aeration Tanks Air Valve Automation in Btty's A, B, C, and D, SWRP
- Calumet Intercepting Sewer 19F Rehabilitation, CSA
- IWD and Construction Office Renovation, CWRP
- Safety Railing Around Tanks, OWRP, CWRP, SWRP
- Main Sewage Pump Seal Water System Modification, MSPS
- A/B & C/D Service Tunnel and Connecting Tunnel Rehab Phase
  II, SWRP
- Rehabilitation of Bridges, NSA

**Consultant Designs Completed** 

Des Plaines Connecting Tunnel

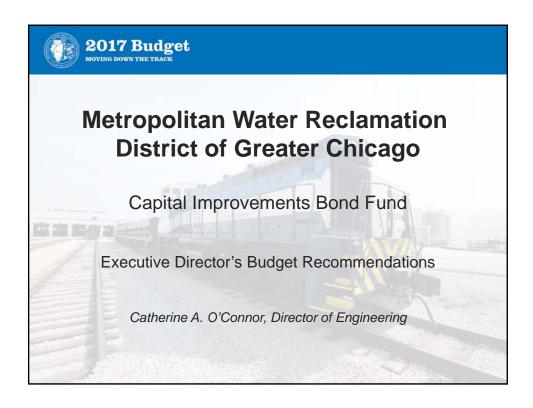
2016 Accomplishments Plan, Design, and Construct CIP Projects Projects Awarded - 2016 D799 Switchgear Replacement Stickney WRP • Glenbrook Sanitary Sewer Rehabilitation, NSA Streambank Stabilization Project for Tinley Creek in Orland Hills Streambank Stabilization Project for the N. Branch of the Chicago River • A/B and C/D Service Tunnel Rehabilitation – Phase Two Conversion of OLD GCTs to WASSTRIP Process • Calumet Intercepting Sewer 19F Rehabilitation, CSA McCook Reservoir, Des Plaines Inflow Tunnel, SSA • Safety Railing Around Tanks, Stickney WRP Streambank Stabilization, Cal-Sag Channel Watershed, Oak Lawn Rehabilitation of Bridges, NSA on the North Shore Channel Safety Railing Around Tanks, Terrence J. O'Brien WRP Aeration Tanks Air Valves Automation in Batteries A, B, C and D, SWRP IWD and Construction Office Renovation, CWRP

### Plan, Design, and Construct CIP Projects

Projects Completed - 2016

- Electrical Upgrade; Pumps, Motors & Drives Replacements, EWRP
- Tollway Dam, Grout Curtain and Quarry Plugs
- Distributed Control System for Solids Processes, SWRP
- Stickney Sludge Thickening Project
- Rehabilitation of the A/B and C/D Service Tunnels, Phase I
- Centrifuge Building and Sludge Loading, EWRP and HPWRP
- Disinfection Facilities, OWRP
- TARP Control Structure Rehabilitation, NSA, SSA, and CSA
- Des Plaines Intercepting Sewer Rehabilitation, SSA
- Coarse Screens and RSP Slide Gates Replacements
- Flood Control Project at Upper Salt Creek, Palatine, IL

### 2016 Accomplishments Administer Watershed Management Ordinance 8 MG volume control storage (13 MG since WMO) 10 MG compensatory storage (25 MG since WMO) 134 MG locally-stored detention (242 MG since WMO) \$2.85 million sewer permit fees Revisions/Enhancements Technical Advisory Committee input Public review proposed November 7<sup>st</sup> – December 15<sup>th</sup> Public meeting proposed November 16<sup>th</sup> Adopt amendment 1<sup>st</sup> quarter 2017 • I/I Control Program • 1<sup>st</sup> year for submitting annual reports 113 of 114 satellite entities responded 50 annual reports approved



Appropriation	Appropriations & Positions							
Capital Improvements Bond Fund								
	Appropriations							
2017	2017 \$348,037,200							
2016	483,764,800							
Change	\$135,727,600							
	28.1%							
		24						





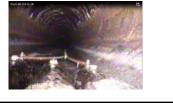
Preservation of Infrastructure – Under Construction

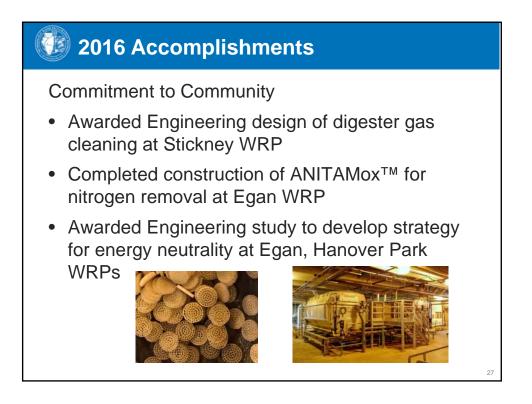
 A/B and C/D Service Tunnel Rehabilitation – Phase Two, SWRP

Preservation of Infrastructure – Awarded

- Calumet Intercepting Sewer 19F Rehabilitation – Complete
- North Shore Intercepting Sewer 2
- Des Plaines River Intercepting Sewer
- Glenbrook Sanitary Sewer









## 2017 Initiatives

- Preservation of Infrastructure
- Award
  - Rehab of Service Tunnels Phase 2, SWRP
  - Rehab of Upper Des Plaines Dropshaft 5
- Continue construction
  - · Construct automated screens, TARP, CWRP
  - Replace course screens, slide gates, EWRP
  - Replace medium voltage switchgear, SWRP
  - Replace TARP pumps, motors, CWRP
  - TARP Pump #8 Rehab





## Commitment to Excellence

**Capital Improvement Program Project Performance** 

### In-Progress Construction Projects in 2016

Beginning Year	Number of Contracts	Percent of Original \$	Percent of Original Time
2013	1	101%	100%
2014	4	106%	105%
2015	7	102%	110%
2016	13	100%	100%

### **Commitment to Excellence**

**Capital Improvement Program Project Performance** 

### **Completed Construction Projects in 2016**

Beginning Year	Number of Contracts	Percent of Original \$	Percent of Original Time
2009	3	105%	273%
2010	3	104%	130%
2012	3	102%	162%
2013	6	102%	113%
2014	3	104%	141%
2015	1	100%	100%



Appropriati	Appropriations & Positions							
Stormwater Mana	Stormwater Management Fund							
	Appropriations Positions							
2017	\$44,997,100	57						
2016	40,500,800	59						
Change	1,496,300	4 2						
	11.1%							

### Major flood control projects completed

- Upper Salt Creek Flood Control Project
- Flood Control/Streambank Stabilization on Tinley Creek
- Glenview-East of Harms Storm Sewer/Pump Station
- Elk Grove Village-Busse Woods Dam Modification
- Westchester-Mayfair Reservoir Expansion





Small Streams Maintenance

- Protect 532 miles of small streams
- ~ 25,000 cubic yards of debris removed from area waterways

## Major Initiatives

- Stormwater Phase I Projects
  - Addison Creek Reservoir
  - Buffalo Creek Reservoir Expansion
  - Farmers-Prairie Creek
  - Arrowhead Lake Flood Control
  - Lyons Levee
- Stormwater Phase II Projects
  - Natalie Creek in Midlothian
  - Melvina Ditch Reservoir
  - Village of Robbins
  - Town of Cicero
  - Village of Worth





# Major Initiatives

- Green Infrastructure
  - Partnerships with local communities
  - 2017 call for GI projects

### • Flood-Prone Property Acquisitions

- 183 additional properties identified
- Partnerships with 7 communities
- Regional Partnerships
  - Cook County
  - Illinois Department of Transportation
  - Illinois Tollway





Stormwater Program Summary

Program Component	Current Number of Projects	Structures Protected / Removed	Construction / Acquisition Cost (\$Million)	MWRD Cost (\$Million)
Phase I	27	4,423	\$369	\$315
Phase II Shovel Ready	21	3,146	\$81	\$41
Phase II Preliminary Engineering	13	TBD	TBD	TBD
Green Infrastructure	25	717	\$48	\$13
Flood Prone Property Acquisition	9	201	\$61	\$34
Totals	85	8,487	\$559	\$403
				38



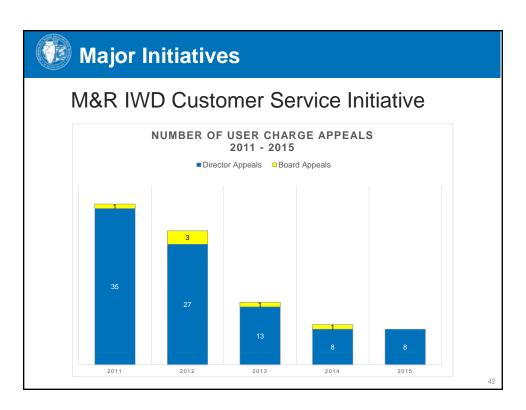
Appropriations & Positions							
Monitoring & Research							
	Appropriations Positions						
2017	\$31,030,400	308					
2016	30,523,200	308					
Change	Change <b>†</b> \$507,200						
	1.7%						

41



### Add Value

- Implemented practices to enhance customer service in the Industrial Waste Division (IWD)
- Continued redesign of Analytical Laboratories and Environmental Monitoring & Research Divisions
- · Developed and implemented targeted odor control strategies
  - Continued formulation of District-wide odor management plan
  - Completed conceptual plans for CWRP and HPWRP
- · Utilized Fulton County property for nutrient control technology
  - Continued to develop research program to inform and support Illinois Nutrient Loss Reduction Strategy



Adding Value Through Research & Demonstration at Fulton County



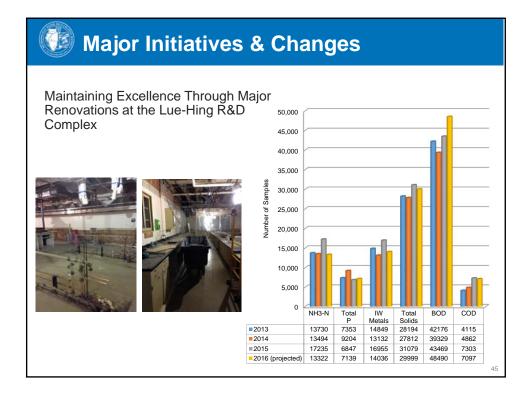
Innovating more effective nutrient loss reductions through use efficiency improvements via interseeding



### 2016 Accomplishments

Excellence

- Maintained optimal output of analytical support during Lue-Hing R&D Complex HVAC renovation
- Further Lue-Hing R&D Complex facility improvements were needed to maintain excellence
- Discontinued use of contract employee services to support laboratory operations
- Completed development of process and hydraulic models for CWRP to enhance planning of capital improvements
- Completed study to inform automation of discretionary Lake Michigan diversion control



### **Resource Recovery**

- Leveraged relations with industrial sector to identify resource recovery opportunities
- Led development of a resource recovery program for enhanced biological phosphorus removal from feedstock
- Led development of strategies to optimize enhanced biological phosphorus removal at WRPs
- Completed Biosolids Strategy at Calumet WRP and continued to expand the plan to other WRPs

				Think a		est Results			
Identifying Recoverable Resources for Enhanced	Namp	• U	RT) P Release (nhancement	Denitri Renn		SBR: B BoF	itch		icationa bition
	OSM#2	33		Yes		$N/\Lambda$		11315	
Biological Phosphorus Removal	055443	33 (4)	/1//16) 38 /26/16.& 5/16)	Vex		Yex (Bogan 5/2	016)	No	
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	$P \subseteq \overline{rr} I$	11	310	11310		$N/\Lambda$		11312	
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	PC//0	11	310	TED		N/A		TBD	
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### 🕑 2016 Accomplishments

### Leading Partnerships

- Partner with academics, WERF, WEP, and leading POTWs to develop sustainable solutions to future water quality goals
- Lead point source sector in implementation of Illinois Nutrient Loss Reduction Strategy
- Develop partnerships with Illinois' agricultural sector, colleges, and universities to study and promote nutrient loss reduction
- Completed first phase of seven-year study with Argonne National Laboratory to provide high quality science to inform development of policy and planning vision for waterways





Appropriations & Positions							
inance							
	Appropriations	Positions					
2017	\$3,655,900	28					
2016	3,696,300	28					
Change	\$40,400	<b>→</b>					
	1.1%						

### 🕑 2016 Accomplishments

#### Add Value

- Completed nine planned and four unplanned internal audits which provided the District cost savings and ensured continued compliance
- Assisted operating departments with payment and collection strategies for the new Resource Recovery Program

#### Excellence

- Received unmodified (clean opinion) for the 2015 Comprehensive Annual Financial Report (CAFR) from external auditor
- Received the Government Finance Officers Association (GFOA) Award for Excellence in Financial Reporting on the 2015 CAFR for the 41<sup>st</sup> consecutive year
- Implemented Governmental Accounting Standards Board 68 for improved reporting of the District's pension liability

53

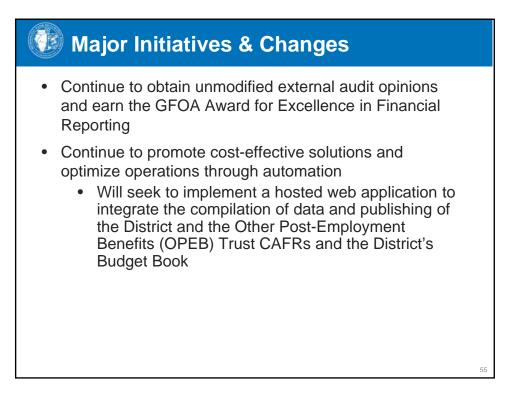
### 🕑 2016 Accomplishments

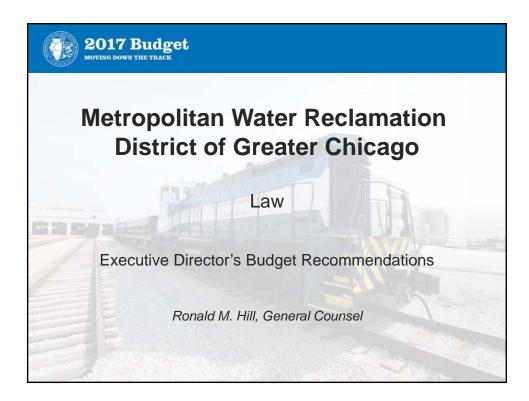
### **Develop Employees**

- Created a series of training seminars to develop staff on transaction processing and system reporting
- Cross-trained with learning opportunities of other Finance unit activities, roles, and responsibilities
- Held SAP system report training with Finance, Treasury, and General Administration staff to access and report financial information

#### Technology

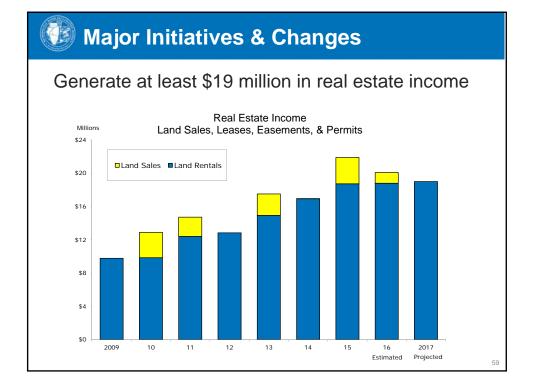
- Upgraded the Time and Attendance system to the newest cloud version that improved back-end processing and enhanced end-user navigation
- Upgraded the Vendor Invoice system to enable supplier level straight-through processing and improve the workflow approval process





AW Appropriations Positions 2017 \$8,375,300 38 2016 7,972,600 38 Change \$402,700 5.1%	Appropriations & Positions							
2017    \$8,375,300    38      2016    7,972,600    38      Change    \$402,700	_aw							
2017    \$8,375,300    38      2016    7,972,600    38      Change    \$402,700								
2016    7,972,600    38      Change    \$402,700		Appropriations	Positions					
Change <b>†</b> \$402,700 <b>+</b>	2017	\$8,375,300	38					
	2016	7,972,600	38					
5.1%	Change	\$402,700	<b>→</b>					
		5.1%						





- Provide District-wide training on legal matters to supervisors and managers
- Collaborate with operating departments to ensure successful implementation of the Resource Recovery Ordinance
- Acquire at least 200 real estate interests needed to move forward on various Stormwater projects

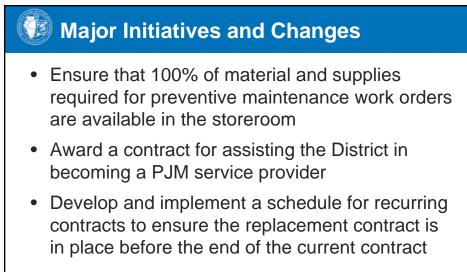
60



Appropriations & Positions		
Procurement & Materials Management		
	Appropriations	Positions
2017	\$9,534,000	63
2016	8,777,400	63
Change	<b>1</b> \$756,600	
	8.6%	



- Enhance Contract Bidding Document
- Redesigned several processes for the receipt and issuance of materials to ensure that M&O has the material in a timely manner
- Collaborated with M&O to issue an RFP for the District to become a Pennsylvania-New Jersey-Maryland Interconnection (PJM) service provider
- Purchased recyclable plastic pallets for storerooms





Appropriations & Positions		
General Administ	ration	
	Appropriations	Positions
2017	\$18,545,300	123
2016	16,819,300	122
Change	1,726,000	1
	10.3%	

### 🕑 2016 Accomplishments

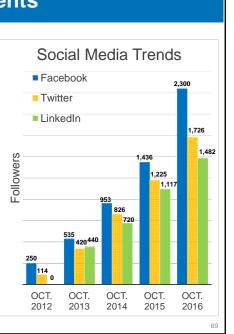
#### Administrative Services Division

- Excellence The 2016 Budget received the 32<sup>nd</sup> consecutive Distinguished Budget Presentation Award from the Government Finance Officers Association (GFOA), receiving Special Performance Measures Recognition
- Leading Partnerships Implemented a drug collection program with the Cook County Sheriff's Office to expand drug collection initiatives and added four permanent drug collection boxes at District facilities
- Add Value/Technology Completed the carpet replacement and painting project on the 3<sup>rd</sup> floor of the Main Office Building (MOB), initiated the rehabilitation of two elevators (MOB), replaced the mixed air heating unit in the Main Office Building Annex (MOBA), installed an additional heating unit and reconfigured ductwork (MOBA), replaced an electric water heater (MOBA), and expanded the Building Automation System in the Main Office Building Complex (MOBC) to achieve greater energy efficiency



### Office of Public Affairs

- Resource Recovery Distributed over 21,000 tree saplings as part of the Restore the Canopy, Plant a Tree program, and distributed over 95,000 rain barrels to public and private sites to help alleviate flooding in the region
- Leading Partnerships Partnered with over 29 municipalities, 38 schools, and 65 community groups to facilitate the Restore the Canopy, Plant a Tree program and executed 26 intergovernmental agreements to aid in the distribution of rain barrels
- Add Value Conducted ribbon cuttings and special events for O'Brien WRP Disinfection, Phosphorus Recovery Facility, water bottle delivery to Flint, Michigan, Fourth Annual Sustainability Summit, open houses at six water reclamation plants, and Legislative Day, Springfield, IL
- Excellence Issued over 100 press releases and articles, which received over 460 positive media hits and continued to expand the visibility of the District through various social media platforms





#### Administrative Services Division

- Add Value The Facilities Section will finish rehabilitation of two elevators at the MOB and begin a project to extend the roof life at the MOB
- Excellence
  - The Budget Office will strive to obtain a 33<sup>rd</sup> consecutive Distinguished Budget Presentation Award from GFOA
  - The Police Section will maintain a safe and secure work environment for all District employees while reducing overtime usage
  - The Facilities Section will provide excellent customer service to all departments in the areas of fleet management, mailing, printing, and MOBC building maintenance
- Leading Partnerships The Police Section will foster its relationship with the Cook County Sheriff's Office to improve and expand the drug take back efforts in the region, as outlined by an intergovernmental agreement
- Develop Employees The Budget Office will expand its internal training efforts for employees of all departments to ensure that sound financial management, for which the District is known, is carried into the future

71

### Major Initiatives & Changes

### **Diversity Section**

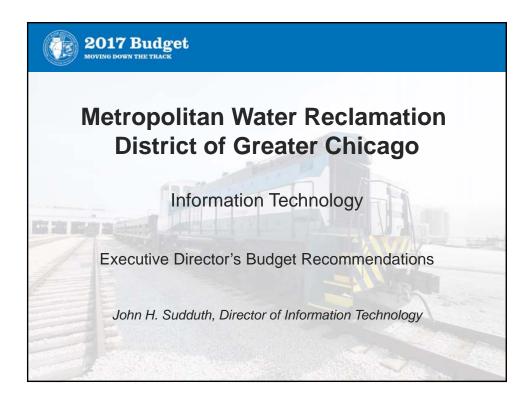
- Technology The Diversity Section will
  - Complete and present PRISM to the public and include information from PRISM on the District's website
  - Update the website created to support the Disparity Study to accommodate any changes resulting from the study, improve the e-Library forms and documents on the District's website, and update the minority, women, and small business enterprise vendor list smartsearch database to make it more user-friendly
- Develop Employees Diversity staff will be trained in teambuilding techniques. These skills are vital to the continued success of the section.
- Leading Partnerships The Diversity Section will utilize outreach opportunities in order to establish a base of contractors who will help the District meet or exceed its participation targets to ensure that bona fide minority, women, and small business enterprises are given an equal and increasing opportunity to participate in the performance of District construction and consultant contracts

72

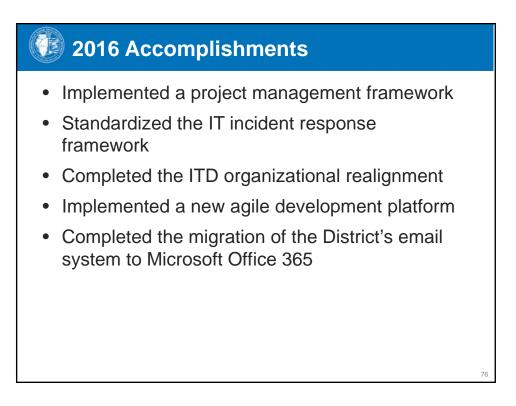
### Office of Public Affairs

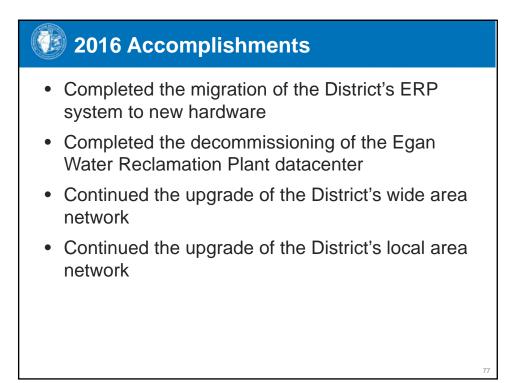
- Resource Recovery Public Affairs will
  - Educate and inform the public about the District's resource recovery work by producing targeted, audience-appropriate materials that clearly explain this subject
  - Continue to support biosolids marketing efforts, stormwater management, disinfection and other water quality improvements, and developments in the Tunnel and Reservoir Plan
- Add Value The first phase of the McCook Reservoir will come online in 2017. Public Affairs will organize and execute a ribbon cutting event to educate the public on this substantial engineering accomplishment.
- Technology Public Affairs will
  - Upgrade graphic design workstations in order to ensure industry standards
  - Expand aerial photography in order to showcase District facilities and projects

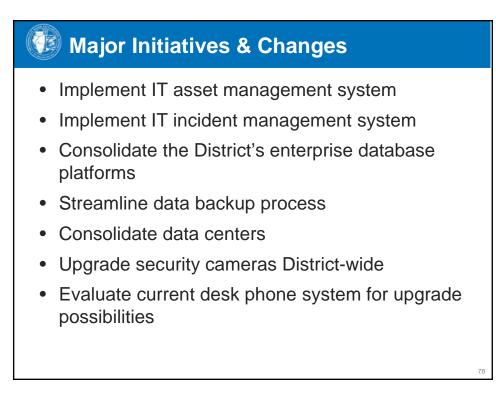
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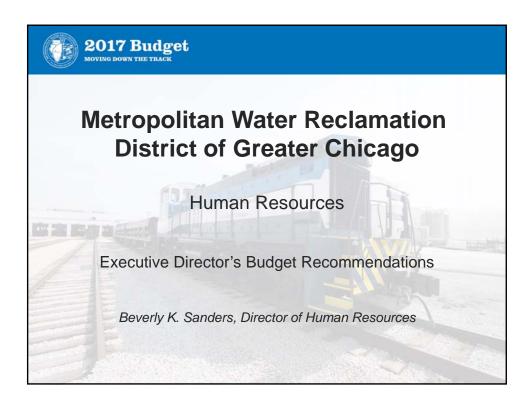


Appropriations & Positions			
Information Techr	nology		
	Appropriations	Positions	
2017	\$17,283,200		75
2016	17,448,600		76
Change	\$165,400	+	1
	0.9%		









Appropriations & Positions			
Human Resource	S		
	Appropriations	Positions	
2017	\$59,032,300	-	71
2016	60,816,800	-	73
Change	4,500	+	2
	2.9%		

- Expanded the internship program to provide meaningful training experiences to 50 interns
- Developed a Business Continuity Plan
- Promoted safe working practices
- Expanded the eLearning program to include trades and industry specific training courses
- Launched a pilot training program to provide new hires in specific job classifications with job readiness skills

# Major Initiatives & Changes

- Implement a new applicant tracking system
- Negotiate six collective bargaining agreements covering approximately 760 employees
- Implement a Medicare Advantage Plan for retirees that becomes effective January 1, 2017
- Continue to develop and implement training initiatives that meet the needs of individual departments and the organization as a whole



Appropriations & Positions		
Board of Commis	sioners	
	Appropriations	Positions
2017	\$4,510,800	38
2016	4,407,800	38
Change	103,000	
	2.3%	

- In July 2016, the District closed on the sale of \$426.2 million of General Obligation Capital Improvement Bonds
  - Sale included \$104 million of bonds issued with a "Green Bond" designation to allow direct investment in the District's environmentally beneficial projects
  - Included \$4 million of bonds issued as Qualified Energy Conservation Bonds to finance energy efficiency projects
  - Achieved savings in excess of \$120 million of future debt service as a result of refunding the May 2006 bonds
- Fourth consecutive year of access to \$200 million in low-interest 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, 2015, the Retirement Fund's funded ratio was 55.2%, and the OPEB Trust's funded ratio was 52.1%.

## Major Initiatives & Changes

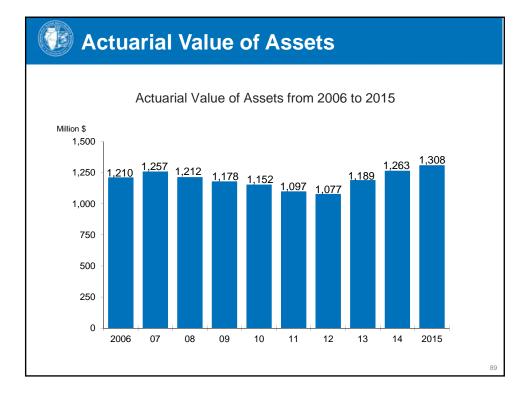
### BOARD OF COMMISSIONERS

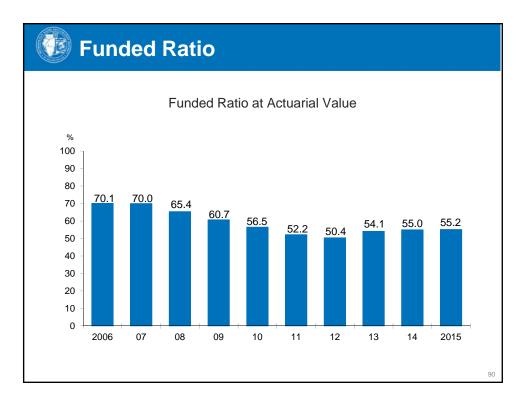
- Establish policies and programs for the District
- Promote the District's legislative program with the state and federal governments
- Provide a forum to encourage community participation

### TREASURY

- Add Value through the issuance of RFPs for professional services, financial tools to maintain and ensure financial stability, and innovative debt and investment management ideas to create greater returns on taxpayers' assets
- Commit to Excellence through responsible management of assets, ensure compliance with federal laws and state statutes, and fulfill pension and OPEB funding policy goals
- Develop Employees through attendance at conferences and crosstraining
- Special Projects:
  - Administrative Procedures and legal and financing documents that define the Local Government Loan Program
  - Procedures to define disclosure requirements for bond issues and post-issuance compliance regulations







	District	Retirement	Obligations
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Actuarial Value of Assets	\$1.3 billion
Total Actuarial Liability	\$2.4 billion
Funded Ratio	55.2%
2016 Actuarially Determined Contribution	\$64.6 million
2017 Expected Employer Property Tax Levy	\$79.5 million

