

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Board of Directors

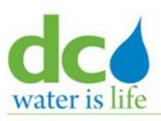
DC Retail Water and Sewer Rates Committee

Tuesday September 23, 2014

9:30am

1. Call to OrderAlan Roth,	Chairman
2. Update on 2015 Cost of Service/Rate Structure Analysis (Attachment A)	Mark Kim
3. DC Retail Water and Sewer Rates Committee Workplan FY 2014 Completed DC Retail Rates Committee Workplan (Attachment B) FY 2015 Proposed DC Retail Rates Committee Workplan (Attachment C)	Mark Kim
4. Other Business	Mark Kim
5. Executive Session	
6. Agenda for November 18, 2014 Committee Meeting (Attachment D)Alan Roth,	Chairman
7. Adjournment	

- FOLLOW-UP-ITEMS DC Retail Water and Sewer Rates Committee Meeting (July 22, 2014)
- Prepare a General Principle of Affordability for Low-Income Customers Resolution. (Ms. Richardson) Status: Complete
- 2. Prepare CAP customers average usage analysis. (Mr. Gibbs) Status: November 2014



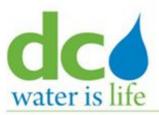
2015 Cost of Service and Rate Structure Analysis

Presentation to:

DC Water Retail Water and Sewer Rates Committee

Mark Kim, Chief Financial Officer

September 23, 2014



2015 Cost of Service Study

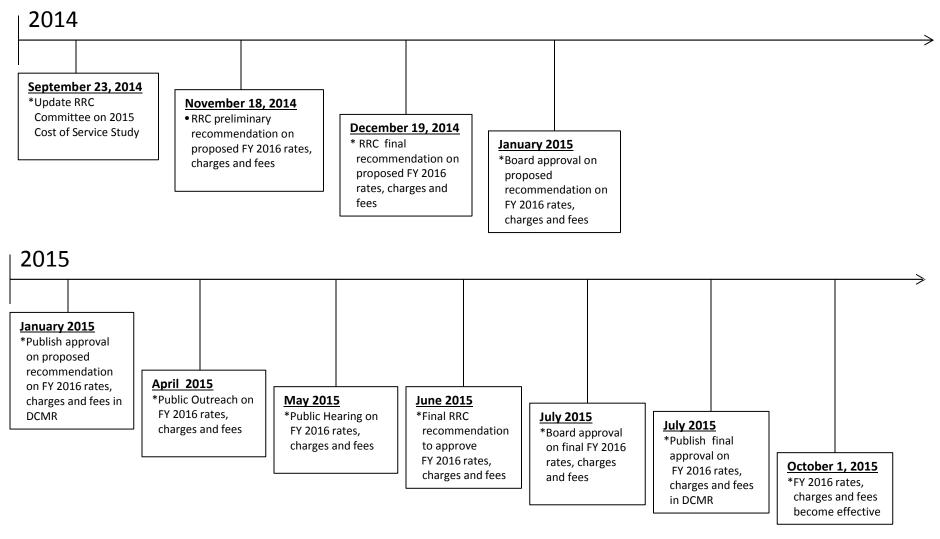


2015 Cost of Service Objectives

- ☐ DC Water has, historically, performed a Cost of Service Study every three years
- ☐ Objectives of the Cost of Service Study:
 - Verify that the projected rates and charges will provide sufficient revenue to sustain the utility system
 - Align the elements of the DC Water rate structure with their costs
- ☐ Expanded scope to address affordability:
 - Alternative rate structure
 - Review of current affordability program
 - Additional fees and charges

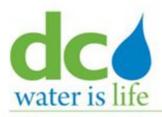


2015 Cost of Service Timeline





Rate Structure Analysis



Rate Setting Objectives

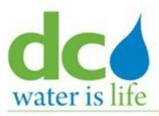
- ☐ On September 4, 2014, DC Water's Board approved the General Principles of Affordability for Low-Income Customers Resolution to:
 - Consider rate impacts on low-income customers
 - Explore affordability alternatives for low-income customers
 - Develop a more innovative rate structure

☐ Goal:

 Develop alternative rate structures designed to recover DC Water's cost of service in a fair and equitable manner by taking into consideration the burden on low-income, economically disadvantaged customers

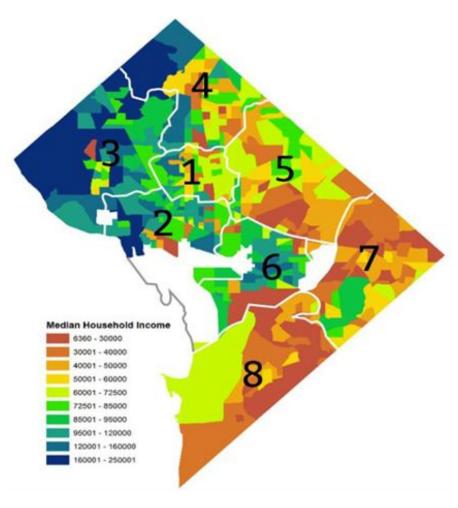
☐ Methodology:

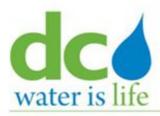
 Analyze customer consumption patterns together with geographic and demographic US Census Bureau data and incorporate rate structure recommendations into the 2015 Cost of Service Study



Income Analysis by Ward

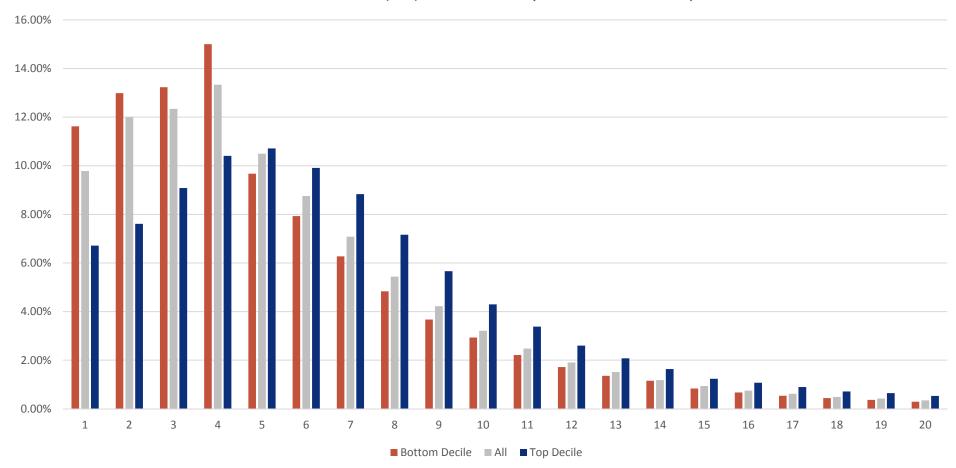
2012 US Census Bureau Data on Income



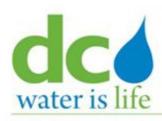


Consumption Analysis by Income

Residential Water Use (Ccf) Distribution by Census Block Group Income

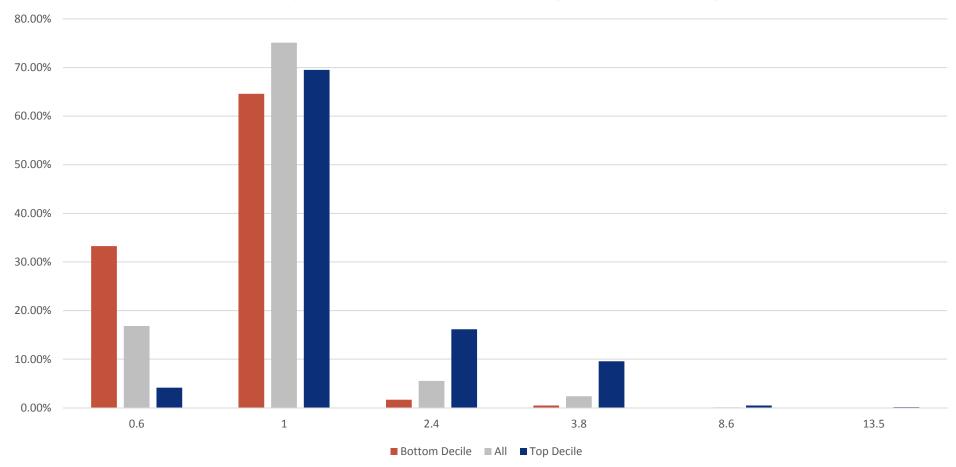


- 2012 Average residential usage for the bottom income decile is 5.9 Ccf, median usage is 4 Ccf
- 2012 Average residential usage for the top income decile is 7.9 Ccf, median usage is 6 Ccf
- 2012 US Census Bureau Data

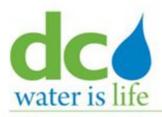


Impervious Area Charge Analysis by Income

Residential Impervious Tier (ERU) Distribution by Census Block Group Income



- 2012 Residential Impervious Tier (ERU) Data
- 2012 US Census Bureau Data



Peak Demand Analysis by Customer Class

☐ Peak Demand:

- Peak water usage is the extent to which a customer, or class of customers, regularly exceeds average usage
- Peak water usage is one factor driving system costs
- The class peaking factor provides the basis for developing class-based rates

	Base		Max-Month		
Customer Class	Annual Usage (Ccf)	Average Monthly Usage (Ccf)	Peaking Factor (1)	Total Monthly Capacity (Ccf)	Extra Capacity (Ccf)
Single-Family Residential Multi-Family Residential Non-Residiential (2)	7,196,670 7,889,813 18,601,174	599,722 657,484 1,550,098	1.17 1.11 1.34	701,675 729,808 2,077,131	101,953 72,323 527,033
	33,687,657				701,309

⁽¹⁾ Data taken from the 2011 DC Water Customer Segmentation Study

	Class p	eaking	factors	will be u	pdated	as part	of the	2015	COS Stud
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⁽²⁾ Includes Public and Private DCHA



Alternative Fees and Charges

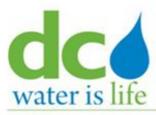
- ☐ Redevelopment Impact Fee:
 - Development or redevelopment opportunities in the District have an impact on system capacity and other infrastructure
 - An Impact Fee would recover the incremental costs of providing service to new development projects by reimbursing existing customers for prior investments made in system capacity and infrastructure
- Cross Connection Fee:
 - Cross-connections are physical links through which it is possible for contaminating materials to enter a potable water supply
 - A cross-connection fee would recover the costs to protect the potable water distribution from contamination or pollution due to backflow of contaminants at the water service connection
- 1% Main Replacement Program Fee/Infrastructure Surcharge



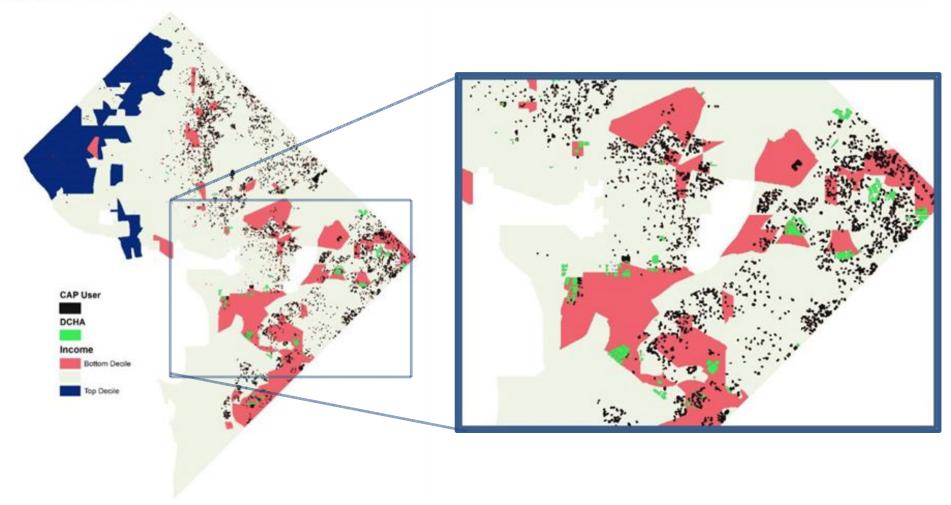
water is life Review of Customer Assistance Program (CAP)

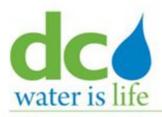
- ☐ 17% of DC's 261,000* households are below the Federal Poverty Level approximately 42,000 households
- ☐ Even if 80% of these fall into Multi-Family/DC Housing Authority designations, 10,000 Residential accounts could be CAP candidates
- ☐ As of September 2013, approximately 5,206 accounts were designated to receive CAP

* 2012 US Census Bureau Data



CAP Participation by Geography





CAP Affordability Analysis

- ☐ A monthly bill of \$46.47 (\$578 annually) is affordable for incomes greater than \$13,941 per year
- ☐ Approximately 97% of DC households earn over this amount

CAP Customer Bill (FY 2015)	
Water Volumetric (2.69 Ccf)	\$ 10.44
Sewer Volumetric (2.69 Ccf)	12.75
CRIAC (tier 2)	16.75
Metering Fee (5/8" meter)	3.86
Stormwater Fee	2.67
TOTAL MONTHLY BILL	\$ 46.47

- CAP Customer Bill includes the Stormwater fee because this service is captured as part of the EPA affordability guidance of 4% of median household income criteria
- CAP Customer Bill excludes the PILOT & ROW fees because these services fall outside of the EPA affordability guidance of 4% of median household income criteria



Next Steps

- ☐ Present preliminary recommendations for 2015 Cost of Service Study at the November DC Retail Water and Sewer Rates Committee meeting
 - Alternative Rate Structure
 - Additional Fees and Charges
 - Affordability Programs
- ☐ Incorporate final recommendations into 2015 Cost of Service Study for December committee meeting

Attachment B

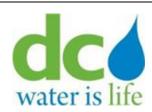
FY 2014 Completed Committee Workplan					
Objective/Activities/Task	Date of Activity	Completed	Responsible Department		
Develop Realistic Retail Rate Revenue Projections and Alternative Retail Revenue Sources					
a. Propose and establish Retail Rates in FY 2015			Rates and Revenue		
i. Budget and Rate Proposal Briefing following Board meeting	November 7, 2013	√			
ii. RRC Committee	November 19, 2013	√			
iii. Board approval iv. Publish Proposed Rates in DCMR	December 2013 January 17, 2014	√ √	General Counsel		
v. Public Outreach vi. Public Hearing vii. Committee recommendation	April 2014 May 14, 2014 July 22 & September 4,	√ √ √	External Affairs Board Secretary		
on FY 2015 rates viii. Board Approval on FY 2015	2014 September 4, 2014	√ ·			
rates ix. Publish Final Rates in DCMR	September 19, 2014	\checkmark	General Counsel		
DC Water Affordability a. CAP & SPLASH Updates			Rates and Revenue		
(Expansion and/or methodology)					
i. Explore CAP water conservation options	January 28, 2014		Customer Service		
ii. Explore SPLASH options b. Negotiation with EPA over CSO Consent Decree	January 28, 2014	√	Customer Service		
i. Integrated Planning Framework (IPF) Overview of Affordability	March 25, 2014	√	DETS		
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2015 Cost of Service Study Water & Sewer					
a. Update on Rate Structure Alternatives b. Update on Customer Consumption	March 25, 2014 September 23, 2014	√	Rates and Revenue		
Analysis c. Update on Redevelopment Impact Fee	September 23, 2014	√ √	Rates and Revenue Rates and Revenue		
d. Update on Affordability Programs	September 23, 2014 September 23, 2014	V	Rates and Revenue		

FY 2014 Completed Committee Workplan					
Objective/Activities/Task	Date of Activity	Completed	Responsible Department		
Delinquent Accounts					
a. Soldiers Home Negotiations	Monthly	V	General Counsel		
5. Strategic Plan					
a. Develop Alternative Revenue Sources and Achieve Realistic Revenue Projections (DC Water Strategic Plan Framework) i. Identify and evaluate potential revenue generating initiatives annually	On-going updates to Committee		Rates and Revenue		
6. DCGIS FY 2014 Flyover	1		1		
a. Update Committee on FY 2014 Flyovers	Fall 2014		Customer Service		

Attachment C

FY 2015 Proposed Committee Workplan					
Objective/Activities/Task	Date of Activity	Completed	Responsible Department		
Develop Realistic Retail Rate Revenue Projections and Alternative Retail Revenue Sources					
a. Propose and establish Retail Rates in FY 2016			Rates and Revenue		
i. RRC Budget Proposal Briefing ii. RRC preliminary	November 18, 2014				
recommendation on FY 2016 rates	November 18, 2014				
iii. RRC final recommendation on proposed FY 2016 rates	December 19, 2014				
iv. Board approval v. Publish Proposed Rates in DCMR	January TBD, 2015 January TBD, 2015		General Counsel		
vi. Public Outreach vii. Public Hearing viii. RRC final recommendation to	April 2015 May TBD, 2015 June TBD, 2015		External Affairs Board Secretary		
approve FY 2016 rates ix. Board Approval on FY 2016 rates	July TBD, 2015				
x. Publish Final Rates in DCMR	July TBD, 2015		General Counsel		
2. 2015 Cost of Service Study Water & Sewer					
a. Final 2015 Cost of Service Study Water & Sewer	Winter 2015		Rates and Revenue		
		1	,		
2015 Cost of Service Study Fire Protection Fee					
a. Fire Protection Fee COS	November 2014		Rates and Revenue		
4. Delinquent Accounts					
a. Soldiers Home Negotiations	Monthly, as needed		General Counsel		
	1				

FY 2015 Proposed Committee Workplan					
Objective/Activities/Task	Date of Activity	Completed	Responsible Department		
5. Strategic Plan					
a. Develop Alternative Revenue Sources and Achieve Realistic Revenue Projections (DC Water Strategic Plan Framework) i. Identify and evaluate potential revenue generating initiatives annually	On-going updates to Committee		Rates and Revenue		
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6. DCGIS FY 2014 Flyover			0		
a. Update Committee on FY 2014 Flyovers	February 2015		Customer Service		



Attachment D

D.C. WATER AND SEWER AUTHORITY BOARD OF DIRECTORS RETAIL WATER & SEWER RATES COMMITTEE MEETING

THURSDAY, November 18, 2014; 9:30 a.m. AGENDA

Call to Order Committee Chairman

Monthly Updates Chief Financial Officer

Committee Workplan Chief Financial Officer

Other Business Chief Financial Officer

Agenda for December 19, 2014 Committee Meeting Committee Chairman

Adjournment

^{*}Detailed agenda can be found on DC Water's website at www.dcwater.com/about/board_agendas.cfm