

2017).

#### DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

#### **Board of Directors**

DC Retail Water and Sewer Rates Committee

Tuesday, November 14, 2017

9:30am

1. Call to Order	Rachna Butani, Chairperson
2. Review of Rate Setting Policy (Attachment A)	Matthew Brown
3. Impervious Surface Area Charge Discounts/Credits (Attachment Utilities Comparison	B)Matthew Brown
4. Review of Combined Domestic and Unmetered (Attachment C) Fire Service Lines	Matthew Brown
5. DC Retail Water and Sewer Rates Committee Workplan  FY 2018 Proposed DC Retail Rates Committee Workplan (At	
6. Copy of the FY 2018 VertexOne Customer Bill (Attachment E)	Matthew Brown
7. Agenda for December 19, 2017 Committee Meeting (Attachment F	F) .Rachna Butani, Chairperson
8. Other Business	Matthew Brown
9. Executive Session*	
10. Adjournment	
FOLLOW-UP-ITEMS – DC Retail Water and Sewer Rates Committee 2017)	Meeting (September 26,

3.) Present a copy of the customer bill to the Committee before the new VertexOne Customer Billing

2.) Review of combined domestic and fire service lines and their financial impact Status: (November

1.) Review of unmetered fire service lines and their financial impact **Status**: (November 2017).

System go-live date (Ms. Butani Chairperson). Status: (November 2017 meeting)

<sup>\*</sup> The DC Water Board of Directors may go into executive session at this meeting pursuant to the District of Columbia Open Meetings Act of 2010, if such action is approved by a majority vote of the Board members who constitute a quorum to discuss: matters prohibited from public disclosure pursuant to a court order or law under D.C. Official Code § 2-575(b)(1); contract negotiations under D.C. Official Code § 2-575(b)(1); legal, confidential or privileged matters under D.C. Official Code § 2-575(b)(4); collective bargaining negotiations under D.C. Official Code § 2-575(b)(5); facility security under D.C. Official Code § 2-575(b)(8); disciplinary matters under D.C. Official Code § 2-575(b)(10); proprietary matters under D.C. Official Code § 2-575(b)(11); decision in an adjudication action under D.C. Official Code § 2-575(b)(13); civil or criminal matters where disclosure to the public may harm the investigation under D.C. Official Code § 2-575(b)(14), and other matters provided in the Act.



#### Rate Setting Policy Review

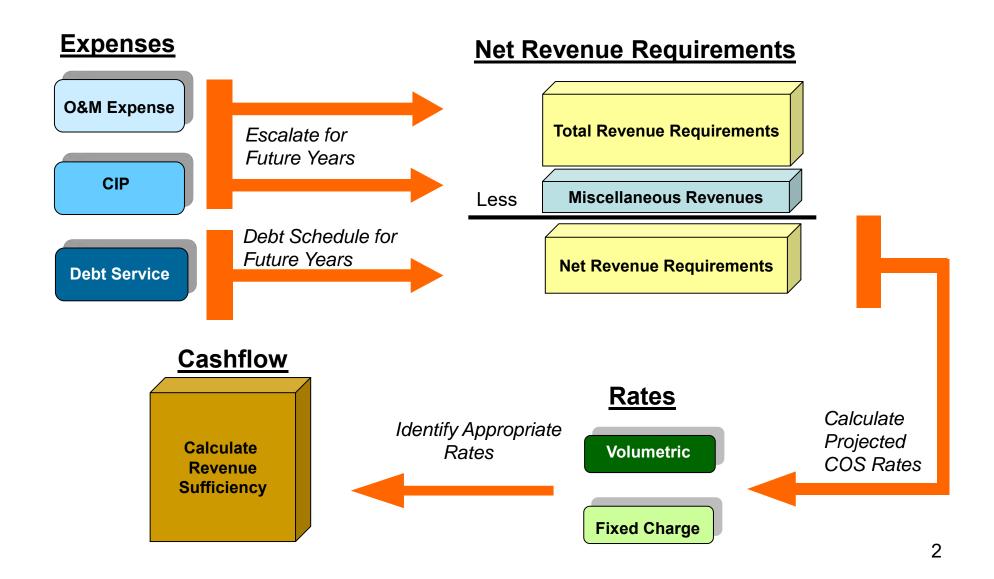
#### Presented to:

DC Retail Water and Sewer Rates Committee November 14, 2017



water is life

## Conceptual Design for Rates and Charges





#### Background

Financial Sufficiency

**Equity among Customers** 

**Revenue and Rate Stability** 

**Defensibility** 

Simple to Understand and Ease of Implementation

**Affordability** 

**Conservation/Efficient Resource Management** 

Cost of Service
Based Allocations

**Economic Development** 

Minimization of Customer Impacts



## Cost of Service Cost / Allocation Framework

#### **Cost of Service Rationale**

The attempt to recover costs from users in proportion to their use of the system, and by recognizing the impact of each class on system facilities and operations.



## Cost of Service Cost / Allocation Framework

- Each customer class generates different costs because their use and demand characteristics are unique
- Each group pays for the services that they use, there are no "subsidies"
- Cost of Service studies help identify the costs of each category of customers
- DC Water examples:
  - Water and Sewer Rates
  - Clean Rivers Impervious Area Charge
  - Metering Fee
  - Waste Hauling Fee
  - Water System Replacement Fee
  - System Availability Fee

<sup>\*</sup>https://www.saws.org/Who\_we\_are/community/rac/Docs/RAC\_Presentation\_PrinciplesofRateSetting.pdf



#### Background

- The DC Water Board of Directors makes statements about rates and rate policies through:
  - · Board resolution
  - Annual budget and multi-year rate adoption
- Rates
  - Generate revenue for operations and capital investments
  - Impact all customers
  - Particular concern for low income customers



#### Resolution #97-124

- First Board resolution on rates:
  - DC Water will strive to set rates and fees based on the actual cost to deliver each service
    - DC Water will periodically review the components that make up the rates through a cost-of-business study for every service DC Water provides
    - The Authority will achieve a positive net income and cash flow each year
  - DC Water will set rates to cover all current costs and to allow the utility to meet all bond covenant requirements
  - DC Water will set rates that are based on annually updated ten-year forecasts of operating and capital budgets
  - Based on the ten-year forecasts, DC Water will attempt to implement any required rate increase in a gradual and predictable manner and avoid larger, one-time rate increases
  - As cash reserves and/or revenues permit, DC Water will establish a rate stabilization fund or other innovative approaches to assist in mitigating annual rate increases



#### Review of Rate Setting Policies

- In 2010 the Board further examined rate setting policies:
  - Hired Raftelis Financial Consultants, Inc. (RFC) to develop and make recommendations for updating DC Water's existing rate setting policies
  - DC Retail Water and Sewer Rates Committee embarked on a review of the Rate Setting Policy to ensure that the overall Authority objectives continue to be met
  - The review included a comprehensive assessment of the various and sometimes competing objectives the Authority is seeking to accomplish in respect to different policy areas that affect rate setting
- The DC Retail Water and Sewer Rate Committee sought to identify and prioritize the major objectives while striving to achieve a reasonable balance between costs, costs allocations, customer impacts and other considerations in reaching rate decisions
  - On December 15, 2010, upon consideration the DC Retail Water and Sewer Rates Committee recommended that the Board adopted a revised Rate Setting Policy, replacing Resolution #97-124



#### Resolution #11-10

- It is the policy of the Board of Directors of DC Water in setting retail rates, including charges and fees, pursuant to its statutory authority to strive to achieve the following:
  - Cover current costs and meet or exceed all bond and other financial requirements as well as goals set by the Board
  - Yield a reliable and predictable stream of revenues
  - Are based on annually updated forecasts or operating and capital budgets
  - A rate structure that is legally defensible, based on objective criteria, and transparently designed
  - A rate structures that customers can understand and DC Water can implement efficiently
  - Rate increases that are implemented transparently and predictably
- To the extent annual revenues exceed costs, the Board will utilize all available options to mitigate future customer impacts and annual rate increases, including transferring excess funds to the Rate Stabilization Fund



## General Principles of Affordability

- Low Income Customers
  - On July 22, 2014, the DC Retail Water and Sewer Rates Committee recommended several general principles of affordability for low-income customers
  - On September 4, 2014, the Board adopted Resolution #14-56 regarding the General Principles of Affordability for Low-Income Customers
- Resolution #14-56 stated that it is the policy of the Board of Directors of DC Water in setting retail rates, to follow the General Principles of Affordability for Low-Income Customers:
  - Consideration of rate impacts on low-income customers
  - Exploration of affordability alternatives for low-income customers
  - Development of a more innovative rate structure, the goal of which is to reduce the economic burden on low-income customers



## General Principles of Affordability

- FY2019 and FY2020 Rate Considerations
  - Expenditures
    - Operating expenditures, including debt service
    - Capital expenditures, including Clean Rivers
  - Revenue
    - Water and Sewer Rates
    - Clean Rivers Impervious Area Charge
    - Other charges
    - CAP Customers
    - Other



### **Appendix**



#### **Defining Goals &** water is life Objectives "Pricing Objectives"

A prioritized list of pricing objectives was developed by staff that serves to guide DC Water's rate-setting policy

> **Financial Sufficiency Affordability** Conservation/Efficient **Equity among Customers Resource Management Cost of Service Revenue and Rate Stability Based Allocations Defensibility Economic Development Minimization of** Simple to Understand and **Customer Impacts**



## Results of Rate Setting Policy Exercise

Pricing objectives ranking results based on the order of importance

Classification	Rank	Objective	
Essential	1	Financial Sufficiency	
	2	Revenue and Rate Stability	50
	3	Defensibility	47
	4	Affordability	45
	5	Equity among Customers	44
	6	Cost of Service Based Allocations	43
	7	Simple to Understand and Ease of Implementa	39
	8	Minimization of Customer Impacts	32
	9	Conservation/Efficient Resource Management	30
Least Important	10	Economic Development	21



## Implications of Results for Policy and Rate Design

- The prioritization exercise consisted of discussion of utility characteristics and challenges faced by different departments within DC Water
- Staff discussed rate structures used by other utilities and how prioritization of pricing objectives factored into the choice of an optimal rate structure
- The highest priority pricing objectives, as ranked by senior staff, include:

1. Financial Sufficiency 4. Affordability

2. Revenue and Rate Stability 5. Equity among Customers

3. Defensibility 6. Cost of Service Based Allocations

 Pricing objective ranked seven through ten were considered less important; they may be desirable attributes of the rate structure but do not necessarily qualify as foundational elements for the DC Water Rate Setting Policy



## Pricing Objectives Definitions

Pricing Objective	Description
Financial Sufficiency	The rates structure should ensure that adequate revenues are generated to recover the costs associated with providing services, and to meet bond coverage and reserve requirements.
Equity among Customers	The rate structure should ensure that customers pay in proportion to their direct use of the system.
Revenue and Rate Stability	The rate structure should provide for a steady and predictable stream of revenues to the utility such that the utility is capable of meeting its current financial requirements. The rate structure should minimize dramatic rate increases or decreases over the planning period.
Defensibility	The rate structure should be consistent with best practices, and applicable laws, in order to ensure that rates are defensible if challenged in court.
Simple to Understand and Ease of Implementation	The rate structure should be easy for customers to understand. The rate structure should be able to be effectively maintained by staff in future years. The rate structure should be compatible with existing billing system and should allow for the continuation of existing management and system reports.



## Pricing Objectives Definitions

Pricing Objective	Description	
Affordability to Disadvantaged Customers	The rate structure should incorporate practices or procedures that help ensure that economically disadvantaged customers can afford wastewater service.	
Conservation/Efficient Resource Management	The rate structure should encourage conservation as well as assist in managing system demand.	
Cost of Service Based Allocations	The rate structure should ensure that each customer class is contributing equitably towards revenue requirements based upon the costs of providing service to each customer class.	
Economic Development	The rate structure should incorporate a preferential rate that may be used to attract economic development.	
Minimization of Customer Impacts	Changes to the rate structure or the level of rate adjustments should be structured to minimize customer impacts	

#### Attachment B

## Impervious Surface Area Charge Discounts/Credits Utilities Comparison

Presentation to:
DC Retail Water and Sewer Rates Committee

November 14, 2017





#### Outline

- Objectives
- Utilities Researched
- Definitions of Non-Residential Customers
- Types of Price Breaks and Examples
- Combined Sewer System and Stormwater Programs
- Summary
- Next steps





#### Objectives

#### Study

- Assess impact of the CRIAC upon certain customer segments
- Develop an idea of whether relief is needed or warranted and if so, what does that mean?
- Determine how revenue will be impacted by any customer relief program or efforts
- Develop cost recovery alternatives for consideration

#### Task

- Evaluate how other utilities segment non-residential customers
- Determine how and whether these customer segments are receiving price breaks
- Determine the motivations for providing these price breaks to these customer segments





#### Utilities Researched

- New York\*
- Boston\*
- Philadelphia\*
- Columbus\*
- St. Louis\*
- Baltimore
- Denver
- Jacksonville
- Louisville\*
- Milwaukee\*
- Portland
- Toledo\*
- Minneapolis
- Kansas City\*
- Seattle\*

- Indianapolis\*
- Cleveland\*
- Richmond, VA\*
- Atlanta\*
- San Francisco\*
- Charlotte
- Northeast Ohio Regional Sewer District
- Chattanooga
- Detroit\*
- Memphis
- Nashville\*
- Georgetown County, SC
- Downers Grove, IL
- Augusta

\*CSO Communities





#### What Programs are Impervious Area Charges Used to Fund?

#### **Programs**

- Municipal Separate Storm Sewer System (MS4) Program
  - Many stormwater utilities utilize revenues from impervious area charges to at least partially fund MS4 related compliance activities.
  - Impervious surface is the driver for many MS4
     program costs and as a result, impervious surface
     frequently forms the foundation of these fees.
- Combined Sewer System Program
  - For cities with combined sewer systems, impervious surface and wastewater consumption are the primary drivers for the operations and maintenance of the combined sewer system.
  - Some communities utilize wastewater charges and some utilize impervious area charges to fund combined sewer system operations and maintenance.
  - The charges associated with combined sewer system operations and maintenance are typically larger because they are more capital intensive
- The majority of impervious area charges are used to fund MS4 program activities rather than combined sewer system operations and maintenance.

#### Definitions of Non-Residential Customers

- Non-residential customers are defined similarly across all of the utilities researched
- Non-Residential properties typically include
  - Commercial properties
  - Industrial properties
  - Non-profit organizations
  - Religious organizations,
  - Schools
  - Colleges and Universities
  - Federal properties
  - State and local government properties
  - Parking lots
  - Multi-family properties apartments, condos, buildings with 4 or more units, and sometimes duplexes and triplexes





## Types of Price Breaks and Examples

#### **Credits**

- A credit is a conditional reduction in the fee if the customer performs some activity that reduces stormwater rate or volume and/or protects water quality. Credit programs are built on a cost-of-service foundation.
- Advantages
  - Most common price break type and is widely accepted
  - Results in a positive impact on water quality and/or water quantity
  - Low to Moderate impact on revenues
- Disadvantages
  - For customer, is conditioned upon investment of time and/or money
- Example: Northeast Ohio Regional Sewer District
  - Credits are available for both residential and non-residential customers
  - Credits include individual residential property credits, stormwater quality credits, stormwater quantity credits, and education credits
  - Multiple credits may be combined for up to 100% credit





## Types of Price Breaks and Examples

#### **Exemptions**

- An exemption is a customer that is not subject to the impervious area charge based on some specified characteristic or status. Exemptions are typically implemented when fee is first created. They do not have a cost-of-service foundation.
- Advantage
  - · Can target price breaks on specific customers segments
  - · Revenue impact is easy to measure
- Disadvantages
  - Often, requires that the utility invest administrative effort to correctly characterize properties for exemption
  - Can be difficult to defend legally
  - Customers impact water quality and/or water quantity and utilize the stormwater system without paying for those impacts
- Example: City of Jacksonville
  - Charitable organizations (including churches) as defined by the Internal Revenue Code section 501(c)(3) are exempt from paying the stormwater fee
  - The City recognizes that charitable organizations provide valuable services to residents that the City may not be able to provide alone, thus the City created a program to exempt this group.
  - The City also has exemption for low-income customers





## Types of Price Breaks

#### **Discounts**

- A discount is a non-conditional reduction in the fee based on some specified customer characteristic or status. Discounts are typically implemented when the utility is first created. They do not have a cost-of-service foundation.
- Advantages
  - Can target price breaks on specific customer segments
  - Some revenue is still obtained from these customers and revenue impact is easy to measure
- Disadvantages
  - Can be difficult to defend legally
  - Customers impact water quality and/or water quantity and utilize the stormwater system without fully funding those impacts
- Example: Baltimore
  - Structures that are used exclusively for religious worship or kindergarten through twelfth grade education located on property owned by religious organizations pay a discounted stormwater rate. Other impervious surface on the property pays the full fee.
  - This discount is state-mandated
  - This discounts results in approximately \$150,000 of lost revenue annually.

## Types of Price Breaks

#### Cap

- The utility establishes a maximum impervious area charge or sets a maximum fee before customers are eligible for credits. Caps do not have a cost-of-service foundation.
- Advantages
  - Would potentially address affordability concerns for many non-residential customers
- Disadvantages
  - Difficult to target specific customer segments
  - Would likely result in large revenue losses
- Example: Chattanooga
  - Stormwater credits are only available to non-residential properties with 3 or more ERUs.
  - As part of their NPDES MS4 permit, the City was required to develop an incentive program to increase the use of green infrastructure.
  - The credit program fulfills this permit requirement while limiting revenue impacts





# Combined Sewer System and Stormwater Programs

- Most utilities give discounts or price breaks in communities with a combined sewer system and stormwater program
  - The City of Philadelphia has a combined sewer system and offers a credit program to reduce fees associated with stormwater charges
- There are no utilities that give separate discounts on combined sewer charges
  - The Boston Water and Sewer Commission (BWSC) does not have a separate stormwater charge and all costs associated with the combined sewer system are recovered through their sewer fees. No stormwater-related discounts or price breaks are given.
- Discounts or price breaks associated with combined sewer and stormwater programs are small and their revenue impact is not significant
  - The revenue associated with combined sewer and stormwater programs is so large that discounts applied on stormwater charges have minimal impact on the overall revenue of the programs.

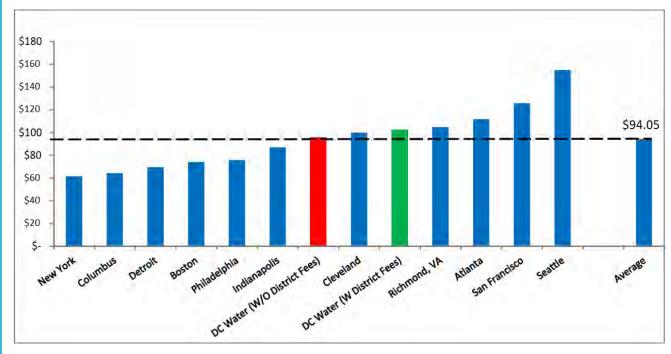




#### DC Water Compared to CSO Communities (Based on Rates in effect Fall 2017)

#### SFR Monthly Bill Utilities with CSO Programs

# Combined Sewer System and Stormwater Programs



- 1. Assumes average residential consumption of 6.20 Ccf, or 4,638 gallons, per month. Ccf = hundred cubic feet, or 748 gallons
- Reflects rates and fees in place as of October 1, 2017. The Authority's rate includes the PILOT/ROW fee totaling \$0.67 per Ccf (effective October 1, 2017) and the DDOE residential stormwater rate of \$2.67 per ERU per month.
- 3. Some CSO communities have implemented double digit rate increases to recover CSO-LTCP costs
- 4. Increases do not reflect other available dedicated taxes or state funding potentially available to some agencies
- 5. Chart reflects SFR monthly bill utilities with CSO programs without offsets to user charges





#### Summary

- Many of the utilities researched have much smaller impervious area charges because they are using the charges to fund MS4 program activities rather than combined sewer system activities. However, the motivations behind the price breaks are the same regardless of program funding decisions.
- Many times affordability is not the main driver for price breaks.
  - Baltimore Reduced fee schedule for churches and other "notfor-profits" is a legislated fee discount
  - Chattanooga Credit program and cap fulfills a permit requirement
- There are multiple different ways to segment customers, but the segmentation driver is frequently politically motivated or motivated by program costs.
- Exemptions and discounts are uncommon and may not be legally defensible
- However, affordability may be used as an reason for allowing a particular price break.
- The governance structure of the utility can play a large role in how customers are segmented and how price breaks are used.
- Revenue impacts vary depending on the size and scope of the price break.
- Revenues lost due to reductions in fees given to any particular group will have to be replaced by other customers.

#### Next Steps

- Development of project timeline
- Finalize customer segments for evaluation
- Finalize identification methodology
- Evaluate rate relief options
- Begin revenue impact modeling
- Identify revenue recovery opportunities
- Research, identify, and develop solutions





#### Contact Information

#### RAFTELIS FINANCIAL CONSULTANTS (RFC)

In 1993, RFC was founded to provide services that help utilities function as sustainable organizations while providing the public with clean water at an affordable price. With this goal in mind, RFC has grown to be the largest and most experienced firm in the nation that is solely focused on water, wastewater, and stormwater utility financial and management consulting. RFC has experience providing these services to hundreds of utilities across the country and abroad.



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### **Appendix**





	Washington D.C.	St. Louis	Baltimore
Population	672,228	318,416	
Non-Res Segmentation	No Segmentation	No Segmentation	Several different credits and reduction programs available to businesses, churches, non-profits, and industries
	DOEE RiverSmart and DC Water Clean Rivers Incentive Program *Volume reduction *D.C. Properties Exempt		Exempt: Properties owned by the State and local government. State and local governments exempt. Volunteer fire companies and veterans organizations are now exempt. Stormwater Participation Event Credit
Type of Break	Credit	N/A	Credit/Exemptions
Tax/Fee	Fee	Property Tax	Fee
Governance	Unit of Local Government. Internal board	Unit of Local Government. Internal board	Department of City. City Council as board. Board of Estimates sets rates.
	calculate ERU. Rate is \$2.67/ERU/month	1.95% Districtwide Stormwater Operations and Maintenance Tax 10% Operations, Maintenance, Construction and Improvement Taxes 0%	3 tiers for single family properties: < 820 sq ft impervious area: \$10/quarter 820 - 1,500 sq ft IA: \$15/quarter > 1,500 sq ft IA: \$30/quarter. Non-residential: \$15/1,050 sq ft/quarter, and structures of religious non-profits are billed at \$3/ERU/quarter.

	Denver	Jacksonville	Louisville
Population	649,495	842,583	5 <sup>8</sup> 4,775
Non-Res Segmentation	No Segmentation	Churches, Charitable Orgs	No Segmentation
Price breaks		S	MSD Drainage Credit Program, Detention credit, or Drainage credit
Type of Break	N/A	Credit	Credit
Tax/Fee	Fee	Property Tax	Fee
	Unit of Local Government. Internal board	Department of City. City Council as board.	Unit of Local Government. Internal board
	charge based on IA/parcel ratio times corresponding rate.		Class A - 8.66/month/parcel having one or two residential dwelling units, Class B- 8.66/month/ESU

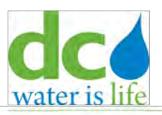
	Milwaukee	Portland	Toledo
Population	600,000	632,305	287,208
Non-Res Segmentation	No Segmentation	Commercial, multi-family residential (3 units or greater), industrial, and institutional properties.	No Segmentation
Price breaks	receive a credit.	discounts of as much as 100% of the monthly stormwater management charge for <u>private</u>	do things such as constructing a
Type of Break	Credit	Discount	Credit
Tax/Fee	Fee	Fee	Fee
Governance	Department of City. City Council as board.		Department of City. City Council as board.
Rate Structure	20.18/ERU (1610 sq. ft)/ qtr.	3 tiers for residential users. 1 tier for Non-residential users.	ERUs *\$3.80

	Minneapolis	Kansas City, MO	Seattle
Population	410,939	475,378	686,800
Non-Res Segmentation	No Segmentation	No Segmentation	No Segmentation
Price breaks	management tools/practices that address stormwater quality.	Detention Credit: 10- 50%	Exempt: Submerged land, houseboats, piers, city streets, State of Washington highways, and other streets that similarly provide drainage services, islands (less that 10% impervious surface area), riparian corridors, wetlands  *Discounts for low impact undeveloped areas (doesn't apply to majority)  Credit programs
Type of Break	Credit	Credit	Credit
Tax/Fee	Fee	Fee	Property Tax
Governance	Department of City. City Council as board.		Department of City. City Council as board.
Rate Structure	o.75 Equiv. Stormwater Unit * \$9.27	each 500 square feet of runoff surface on a property.	Residential: 5 tiers based on square footage and calculated on a per parcel basis  All other properties: 5 tiers based on percentage of impervious surface split into regular and low impact categories.  Each tier and category has a specific rate per 1,000 square feet.

	Charlotte	NEORSD	Chattanooga
Population	809,958		
Non-Res Segmentation		Informal Segmentation: Commercial, Industrial, mix-use development, and other non-residential  Public/Private school, Primary to 12	
Price breaks	County Line Credit Catawba River Credit Stormwater Control Measure Credit Pond Credit	Exemptions: Public Roads, Aggregated parcels with less than 400 st. feet of IAS, Non-self supporting parcels, Cemeteries, Parcels held for county land reutilization. Credits: Individual residential property	Retrofit/Mitigation Plan, Tree Planting Plan, Water Quality Education, Water Quality Devices, Existing Detention/Retention facilities, Low impact Development or open space, LEED Certified
Type of Break	Credit	Credit	Credit
Tax/Fee	Fee	Fee	Fee
Governance	Combined city and county function. Governed by city and county boards.	Unit of Local Government. Internal board	Department of City. City Council as board.
Rate Structure	Detached Single Res: 4 tiers based on sq feet of impervious surface All others: \$164.58 per month per acre of impervious surface	2 tiers for homestead and non- residential.	# of ERUs * \$115.20  Residential: 1 ERU @ \$115.20/year  MFR (Condos): 1 ERU @  \$115.20/year  MFR (Apartments) and non-Res  parcels: \$115.20 * number of ERUs

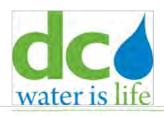
	Detroit	Memphis	Nashville
Population	677,116	653,450	654,610
Non-Res Segmentation	exempt (excluding	Developed commercial, industrial, governmental, institutional, and agricultural properties	No Segmentation
	management credits Transition credits	Educational Program, On-Site Refuse Control Program, On-Site Storm Water System Maintenance and Cleaning Program, Paved Area Sweeping Program, Used Motor Oil Recycling Program, Sanitary Sewer/Storm Drain Cross-Connection Inventory, Landscaping for Run-Off Rate Control and Water Quality, Storm Drain Stenciling Program, Designated Vehicle Washing Area	Detention Credit Quality Credit Education Credit Low Impact Development Credit
Type of Break	Credit	Credit	Credit
Tax/Fee	Fee	Fee	Fee
Governance		Department of City. City Council as board.	Department of City. City Council as board.
Rate Structure	meter size or IA. Each with an individual rate.	A multifamily unit is assessed 41% of one SFU, a town home/condominium is assessed 57% of one SFU, a mobile home is assessed 77% of one SFU, and a high rise apartment is assessed 13% of one SFU. An average home is assessed one SFU, a small home is assessed 58% of one SFU,	i i

	Georgetown County, SC	Downers Grove, IL	Augusta
Population	60,158	49,670	194,350
Non-Res Segmentation	New development, Educational institutions	Tax-exempt properties	No Segmentation
Price breaks	Credits: NPDES Permit Education Credit Low Impact Development Individually Calculated Credit Porous Pavement Acknowledgement  Exemptions: Total homestead exemption Totally disabled veteran exemption	Incentives: Rain Barrel Rain Garden Permeable Pavers Other Jobs  Credits: Site Run-off Rate Reduction Volume Reduction Water Quality Direct Discharge Education Partnership	Credits: Detention Pond Water Quality Devices State Industrial Permit Detention Facilities
Type of Break	Credit/ Exemption	Credits/Incentives/Exemption	Credits
Tax/Fee	Fee (listed on annual tax bill)	Fee	Fee
Governance	Department of County. County Council as board.	Department of City. City Council as board.	Department of City. City Council as board.
Rate Structure	Detached single-family dwelling units- 1 ERU = \$52 Other -\$52 per ERU (3,770 sq. ft.) No charge for developed lands with less than 400 sq. ft.		SFR <4,400 Sq. ft. \$6.40 SFR >4,400 Sq. ft. \$12.80 Other (total sq. ft. /2,200) * \$6.40



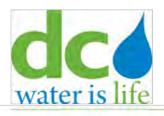
## Review of Combined Domestic and Unmetered Fire Service Lines

D.C. Retail Water and Sewer Rates Committee
November 14, 2017



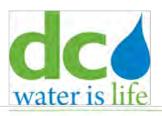
## Background: WSRF and Service Types

- Water System Replacement Fee (WSRF):
  - Charged to Residential, Multi-Family, and Non-residential customers based on the customers' meter size and average flow.
  - Expected to generate \$40 million annually to recover the costs of the 1 percent renewal and replacement program for aging water infrastructure
  - Based on meter size and considers average usage determined for each meter size
- DC Water's system contains three basic configurations:
  - <u>Domestic Service Only:</u> Service lines provide domestic usage only; meter sized for domestic demand. Assessed monthly WSRF
  - Combined Domestic Service: Service lines provide both domestic usage and fire suppression; Meter sized for fire suppression and domestic demand. Assessed monthly WSRF.
  - Unmetered Fire Service: Service lines providing fire suppression only. Not metered. Not assessed monthly WSRF.



## Background: Previous WSRF Review

- Following a customer inquiry, concern that WSRF was excessive for a Multifamily Residential private development with several single family homes served by a large combined domestic meter sized for fire suppression
- On October 20, 2016, the Water Quality Water Services Committee:
  - Directed DC Water to examine the process, identify other similarly situated properties, and evaluate the impact of adjusting WSRF fees
- On May 25, 2017, DC Water presented the review to this committee
- The review:
  - Identified two properties: Chain Bridge Road Corporation at 2800
     Battery Place NW and Southern Homes and Garden Cooperative Association at 5800 Southern Ave SE
  - Determined a minimal loss of annual revenue (estimated \$35,248) if WSRF assessed monthly based on peak water demand excluding fire, based on specific characteristics of property

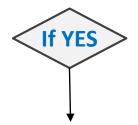


## Background: Previous WSRF Review (cont.)

- DC Water recommended amending Customer Classifications, Definitions, and WSRF regulations to:
  - Clarify definitions and allow multi-family customers whose premises meet certain requirements to request an WSRF adjustment to modify the combined domestic meter size based on peak demand, excluding fire, for that premises
- On September 29<sup>th</sup>, the notice of final rulemaking was published in the DC Register, and the rules were effective October 1, 2017
- Study raised additional questions:

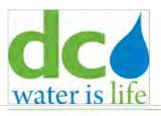
If a modified meter size is to be considered for the two Private Developments, then should the WSRF approach be reviewed for all Combined Domestic Meters?

Should Unmetered Fire Lines contribute to cost recovery?



4

What would the annual revenue impact be if all the policy concerns are considered?



## **Current Study**

 Black and Veatch evaluated potential modifications to the current WSRF for combined domestic meters and unmetered fire service lines and their annual revenue impact

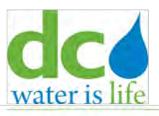
### Objectives:

#### **Combined Domestic Meters**

- Define an alternative approach to assess the monthly WSRF for the 179 combined domestic meters; and
- Determine the annual WSRF revenue impact of using an alternative charge assessment approach for the combined domestic meters.

#### **Unmetered Fire Lines:**

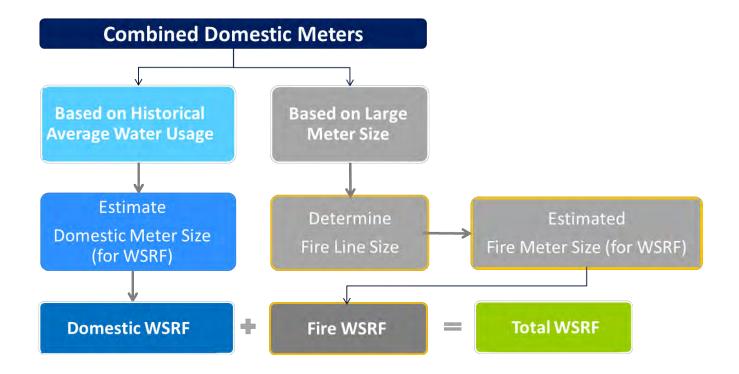
- Develop an estimate of the total number of unmetered fire lines that are likely in the DC Water system;
- Define an approach to assess the monthly WSRF and the monthly Base Fee for the estimated unmetered fire lines in the DC Water system; and
- Determine the annual WSRF and Base Fee revenue impact of assessing these two fees on the unmetered fire lines.

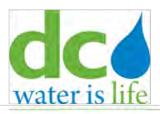


## Study Approach

#### Combined domestic meters

- Step 1: Alternative Meter Size for the "Domestic Service" component
- Step 2: Alternative Meter Size for the "Fire Service" component

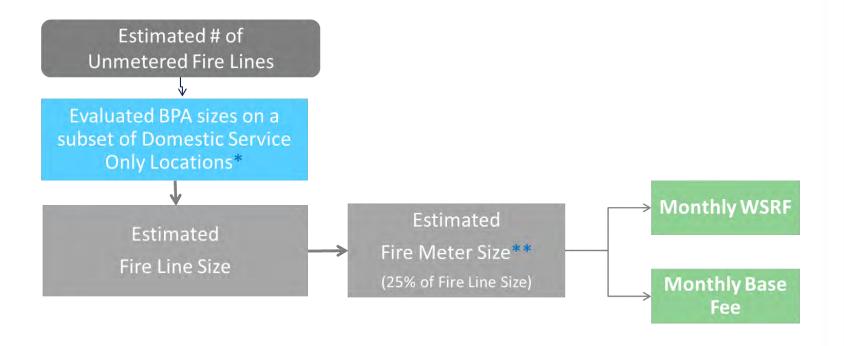




## Study Approach

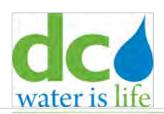
#### Unmetered Fire Service Lines

- Step 1: Estimate Number of Unmetered Fire Service Lines
- Step 2: Estimate Potential Unmetered Fire Line Size
- Step 3: Estimate Potential WSRF meter size



\*Locations refers to distinct addresses

\* \*Translation of Fire Line Size to Fire Meter Size is necessary as the existing WSRF is defined based on average usage and not on line capacity



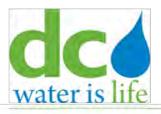
## Potential Revenue Impact: Combined Domestic Meters

		Existing WS	SRF Charge	Estimated DON	MESTIC Meter Size	WSRF Charge (a)	Estimated FI	RE Meter Size WSF	RF Charge <sup>(b)</sup>			1
Meter Size	Meter Count	Monthly Fee	Annual Fee	Estimated WSRF Meter Size (DOMESTIC)	Potential WSRF Monthly Fee (DOMESTIC)	Potential WSRF Annual Fee (DOMESTIC)	Estimated WSRF Meter Size (FIRE)	Potential WSRF Monthly Fee (FIRE)	Potential WSRF Annual Fee (FIRE)	Total Potential WSRF Monthly Fee	Total Potential WSRF Annual Fee	Reduction from "Existing" Annual Fee
(1)	(2)	(3)	(4)=(3)*12	(5)	(6)	(7)=(6)*12	(8)	(9)	(10)=(9)*12	(11)=(6)+(9)	(12)=(7)+(10)	(13)=(12)-(4)
4x1"	8	\$4,488	\$53,856	3"	\$1,857	\$22,284	1"	\$77	\$924	\$1,934	\$23,208	-\$30,648
6x1x1/2"	2	\$2,584	\$31,008	4"	\$1,122	\$13,464	1.5"	\$83	\$996	\$1,205	\$14,460	-\$16,548
6x1.5"	25	\$32,304	\$387,648	4"	\$14,026	\$168,312	1.5"	\$1,034	\$12,408	\$15,060	\$180,720	-\$206,928
6x3x3/4"	1	\$1,292	\$15,504	4"	\$561	\$6,732	1.5"	\$41	\$492	\$602	\$7,224	-\$8,280
8x2"	113	\$214,655	\$2,575,860	6"	\$146,012	\$1,752,144	2"	\$9,464	\$113,568	\$155,476	\$1,865,712	-\$710,148
8x4x1"	7	\$17,068	\$204,816	6"	\$9,045	\$108,540	2"	\$586	\$7,032	\$9,631	\$115,572	-\$89,244
10x2"	23	\$153,632	\$1,843,584	8"	\$133,067	\$1,596,804	3"	\$5,339	\$64,068	\$138,406	\$1,660,872	-\$182,712
	179	\$426,023	\$5,112,276		\$305,690	\$3,668,280		\$16,624	\$199,488	\$322,314	\$3,867,768	-\$1,244,508

#### Notes:

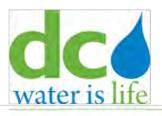
<sup>(</sup>a) Modified DOMESTIC Meter Size reflects a fee estimate and impact based on assuming an alternative meter size just for recovering WSRF for the <u>Domestic service component</u> of a Combined Domestic Meter.

<sup>(</sup>b) Domestic FIRE Meter Size reflects a fee estimate and impact based on assuming an alternative meter size, just for recovering WSRF for the Fire Service component of a Combined Domestic Meter.



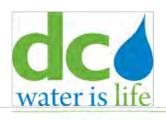
## **Study Challenges**

- Assessing annual revenue impact required assumptions
- Combined Domestic Meters:
  - WSRF Based on meter size and considers average usage determined for each meter size
  - On an average basis, there will be very little fire suppression related usage
  - Required a surrogate fire meter size based on best professional judgement
- Unmetered Fire Service Lines:
  - Unknown number in system
  - Reviewed billing data set and Backflow Preventer Assembly (BPA) data
  - Similarly required surrogate fire meter size



## **Key Considerations**

- For equity, WSRF adjustments for combined domestic meters should be considered together with new fees for unmetered fire service lines
- Consistent Engineering Standards are needed to ensure consistency in design and billing for services
- An accurate, verified inventory of unmetered fire service lines is necessary to assess any future fees
- Additionally, DC Water's service area includes 1,316 privately owned fire hydrants in approximately 119 private developments. It may also be appropriate to charge a fee for the private hydrants.



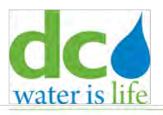
## Recommendations and Next Steps

- Update Engineering Standards to ensure consistent configuration with separate domestic and fire service
- 2. Develop a comprehensive, verified inventory of unmetered fire service lines
- 3. Evaluate an appropriate flow-based fee structure for private fire hydrants

DC Water estimates these actions will be completed in two years, and will simultaneously develop necessary regulatory amendments



# Appendix: Study Details



## **Objectives**

Evaluate a fair and equitable recovery of costs by considering both the domestic service an the fire suppression service that properties receive from DC Water



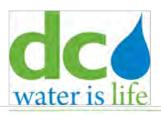
#### **Combined Domestic Meters**

- Evaluate alternative approach to assess the monthly WSRF
- Determine the potential annual WSRF revenue impact



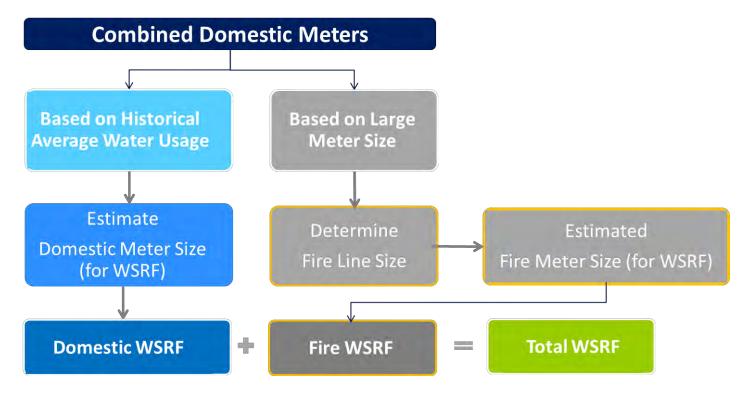
#### **Unmetered Fire Lines**

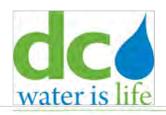
- Develop an estimate of the total number of unmetered fire lines
- Evaluate an approach to assess the monthly <u>WSRF</u> and the monthly <u>Base</u> Fee
- Determine the potential annual WSRF and Base Fee revenue impact



#### Step 1: Alternative Meter Size for the "Domestic Service" component

- Compared the three-year average usage of the <u>combined domestic meter</u> sizes with the three-year average usage of the <u>domestic only</u> meter sizes
- Determined an appropriate alternative meter size for the Domestic Service component





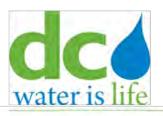
#### Step 1: Alternative Meter Size for the "Domestic Service" component

- Compared the three-year average usage of the <u>combined domestic meter</u> sizes with the three-year average usage of the <u>domestic only</u> meter sizes
- Determined an appropriate alternative meter size for the Domestic Service component

	Combined Don	nestic Meters	Domestic C	only Meters
Meter Size	Combined Domestic Annual AVG Usage (Per Size) ccf	Three-Year Average Usage Per Meter ccf	Domestic Annual AVG Usage (Per Size) ccf	Three-Year Average Usage Per Meter ccf
3"			2,446,455	2,327
4"	7,820	978	4,141,148	5,303
6"	192,263	6,867	3,935,729	12,664
8"	1,700,026	14,407	761,097	34,604
10"	727,251	31,620	240,837	42,530

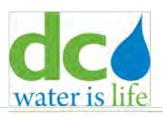
ccf: Hundred cubic feet

Combined Domestic Meter Size	Meter Count	Estimated Meter Size (Domestic) <sup>a</sup>
4x1"	8	3"
6x1x1/2"	2	4"
6x1.5"	25	4"
6x3x3/4"	1	4"
8x2"	113	6"
8x4x1"	7	6"
10x2"	23	8"
	179	



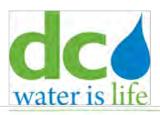
#### Step 2: Alternative Meter Size for the "Fire Service" component

- Used the large flow meters size of the Combined Domestic Meter sizes as the "Fire Line" size. Rationale: The large flow meter is sized to meet the critical fire flow needs of the property
- Assumed 25% of the Fire Line size as the "Fire Meter" Size. Rationale: The fire line will have very low average fire usage, triggered only in the event of fire or testing



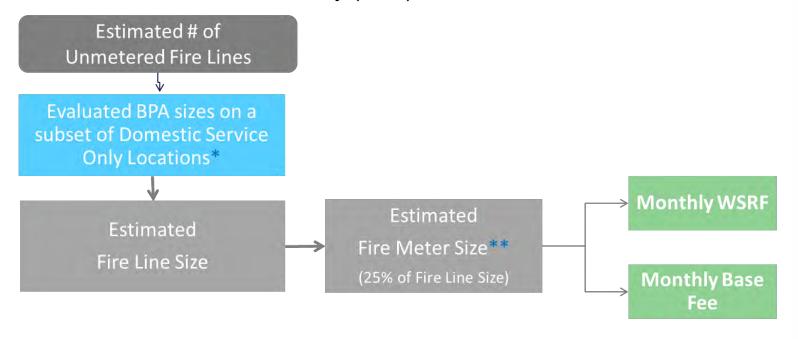
Combined Domestic Meter Size	Meter Count	Estimated Meter Size (Domestic)	Estimated Fire Line Size (Fire)	Estimated WSRF Fire Meter Size (Fire)
(1)	(2)	(3)	(4)	(5) = (4) * 25%
4x1"	8	3"	4"	1"
6x1x1/2"	2	4"	6"	1.5"
6x1.5"	25	4"	6"	1.5"
6x3x3/4"	1	4"	6"	1.5"
8x2"	113	6"	8"	2"
8x4x1"	7	6"	8"	2"
10x2"	23	8"	10" or greater	3"
	179			
	1/9			

Establish 3" Meter Size as the "Minimum" for the modified meter size for Combined Domestic Meters



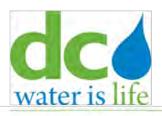
#### **Step 1: Estimate Number of Unmetered Fire Service Lines**

- Reviewed billing data set that included all the water meter accounts and associated meter size and premise number
- Reviewed Backflow Preventer Assembly (BPA) list



<sup>\*</sup>Locations refers to distinct addresses

<sup>\* \*</sup>Translation of Fire Line Size to Fire Meter Size is necessary as the existing WSRF is defined based on average usage and not on line capacity

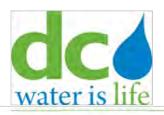


#### **Step 1: Challenges**

- Not all of the BPAs are fire-rated, as some are on domestic service lines
- Some locations had no fire line BPAs, some had two, three or four fire line BPAs
- Not all BPAs were characterized by service type (domestic, fire, etc)
- As a result, could not conclusively determine the number of unmetered fire service lines

#### Step 1: Revised approach

- Assumption: 1,709 distinct locations with 3" larger combined domestic meters
  - 80% will have just one fire line
  - 20% will have an average of three fire lines
- = estimated total of 2,500 unmetered fire lines in the DC Water service area

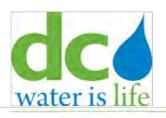


### **Step 2: Estimate Potential Unmetered Fire Line Size**

Evaluated Subset of 216 locations and size of BPAs in each location

Dom	estic Me	Fire Line Size
3";	4";	6" Fire Line
Dome	estic	
8" Do	mestic	8" Fire Line
10" D	omestic	10" Fire Line

Domestic Only Meter Size	Domestic Only Accounts	Potential Unmetered Fire Line Size	Estimated Number of Unmetered Fire Lines
3"	1,092	6"	990
4"	1,115	6"	1,010
6"	516	6"	468
8"	20	8"	18
10"	6	10"	5
12"	3	10"	3
16"	5	10"	6
	2,757		2,500



## **Step 2: Estimate Potential Unmetered Fire Line Size**

 Evaluated Subset of 216 locations and size of BPAs in each location

Domestic Meters	Fire Line Size
3"; 4"; 6" Domestic	6" Fire Line
8" Domestic	8" Fire Line
10" Domestic	10" Fire Line

#### **Step 3: Estimate Potential WSRF meter size**

 Retain previous assumption that fire purposes of assessing a WSRF, the unmetered fire line be assigned a surrogate meter size that is 25% of the size of the fire line



Domestic Only Meter Size	Domestic Only Accounts	Potential Unmetered Fire Line Size	Estimated Number of Unmetered Fire Lines
3"	1,092	6"	990
4"	1,115	6"	1,010
6"	516	6"	468
8"	20	8"	18
10"	6	10"	5
12"	3	10"	3
16"	5	10"	6
			17
	2,757		2,500

Potential Unmetered Fire Line Size	Estimated WSRF Meter Size	otential thly WSRF Fee
(1)	(2) = (1) * 25%	
6"	1.5"	\$ 41.35
8"	2"	\$ 83.75
10"	3"	\$ 232.13



## Potential Revenue Impact: Unmetered Fire Service Lines

Estimated Fire Meter Size & WSRF Charge				Estimated F	ire Meter Size	Base Charge	
Potential Unmetered Fire Line Size	Estimated Number of Unmetered Fire Lines	Estimated WSRF Meter Size	Potential Monthly Fee	Potential Annual Fee	Estimated Base Fee Meter Size	Potential Monthly Fee	Potential Annual Fee
6"	990	1.5"	\$40,937	\$491,244	1.5"	\$6,811	\$81,732
6"	1,010	1.5"	\$41,764	\$501,168	1.5"	\$6,949	\$83,388
6"	468	1.5"	\$19,352	\$232,224	1.5"	\$3,220	\$38,640
8"	18	2"	\$1,508	\$18,096	2"	\$136	\$1,632
10"	5	3"	\$1,161	\$13,932	3"	\$385	\$4,620
10"	3	3"	\$696	\$8,352	3"	\$231	\$2,772
10"	6	3"	\$1,393	\$16,716	3"	\$462	\$5,544
	2,500		\$106,811	\$1,281,732		\$18,194	\$218,328

In addition to assessing a WSRF for the unmetered fire lines, it would also be appropriate to assess a Base Fee for the unmetered fire lines, as all the metered combined domestic and domestic only meters are currently assessed a monthly Base Fee.

23 Including the base fee, the potential revenue impact for unmetered fire service lines totals \$1,500,060.



## Potential Net Revenue Impact

	Estimated Existing Charges		Estimated Alternative Charges		Net Change	
Revenue Stream	Monthly Fee	Annual Fee	Monthly Fee	Annual Fee	Monthly Fee	Annual Fee
WSRF for Combined Domestic Accounts	\$426,023	\$5,112,276	\$322,314	\$3,867,768	-\$103,709	-\$1,244,508
WSRF for Unmetered Fire Lines	\$0	\$0	\$106,811	\$1,281,732	\$106,811	\$1,281,732
Base Charge for Unmetered Fire Service	\$0	\$0	\$18,194	\$218,328	\$18,194	\$218,328
Net Revenue Impact	\$426,023	\$5,112,276	\$447,319	\$5,367,828	\$21,296	\$255,552

	FY 2018 Proposed Committee Workplan				
	Objective/ <i>Activities</i> /Task	Date of Activity	Completed	Responsible Department	
	ropose and Establish Retail Rates or FY 2019 & FY 2020				
a.	FY 2019 & FY 2020 Budget presentation to Board	January 4, 2018			
b.	RRC recommendation on proposed FY 2019 & FY 2020 rates	January 23, 2018			
C.	Board approval on proposed FY 2019 & FY 2020 rates	February 1, 2018			
d.	Publish Proposed Rates and Fees in DC Register	February 16, 2018		General Counsel	
e.	Public Comment and Outreach	February 16 - May 9, 2018		External Affairs	
f.	Public Hearing	May 9, 2018		Board Secretary	
g.	Public Hearing Record Closes	June 11, 2018			
h.	RRC final recommendation to approve FY 2019 & FY 2020 rates	June 26, 2018			
i.	Board Approval on FY 2019 & FY 2020 rates	July 5, 2018			
j.	Publish Final Rates and Fees in DC Register	July 20, 2018		General Counsel	
k.	Rates go into effect	October 1, 2018 (FY 2019)			

		1	,
2. Conduct a Review of the Impact of the			
CRIAC on Various Customer Segments			
(on-going)			Datas and Davenus
a. Conduct a review of the impact of the CRIAC on various customer segments including low-income customers who do not qualify for CAP, non-profit organizations and small businesses owners			Rates and Revenue
<ul> <li>i. CRIAC overview to RRC</li> <li>ii. Discuss the CRIAC restructuring of various segments including low-income customers who do not qualify for CAP, non-profit, charitable and religious organizations and small businesses.</li> </ul>	November 15, 2016 February 21, 2017	7	
iii. Comparison of how other utilities with impervious area charges segment non-residential customers and provide discounts/credits/ exemptions	November 14, 2017	V	

FY 2018 Proposed Committee Workplan			
Objective/Activities/Task	Date of Activity	Completed	Responsible Department

	/aste Hauler and High Strength Vaste Fee Regulations			
a.	RRC recommend proposal for Waste Hauler and High Strength Waste Fees	September 26, 2017	V	Rates & Revenue Wastewater Treatment
b.	Board approval on proposal for Waste Hauler and High Strength Waste Fees	October 5, 2017	<b>√</b>	
C.	Publish NOPR for Waste Hauler and High Strength Waste Fees in DC Register	October 27, 2017	V	General Counsel
d.	Public Comment and Outreach	October 27 – November 27, 2017	$\checkmark$	External Affairs
e.	RRC final recommendation for Waste Hauler and High Strength Waste Fees	December 19, 2017		
f.	Board approval for Waste Hauler and High Strength Waste Fees	January 4, 2018		
g.	Publish final NOFR for Waste Hauler and High Strength Waste Fees in DC Register	January 19, 2018		General Counsel
h. i.	Waste Hauler Fees go into effect High Strength Waste Fees go into effect	February 1, 2018 April 1, 2018		

4 Fine Duntanting Compiles Fee for FV (40)		
4. Fire Protection Service Fee for FY '18,		
'19, '20, and '21		
a. Fire Protection Service Fee		Rates and Revenue
<ol> <li>RRC recommend proposal for</li> </ol>	February 20, 2018	
Fire Protection Service Fee		
ii. BOD approval of Notice of	March 1, 2018	
Proposed Rulemaking (NOPR)		
iii. Publish NOPR in DC Register	March 16, 2018	General Counsel
iv. Public Comment and Outreach	March 16 - April 16, 2018	External Affairs
v. RRC approval of proposed Fire	June 26, 2018	External / tiralio
Protection Fee		
vi. BOD approval of Notice of Final	July 5, 2018	
Rulemaking (NOFR)	0, 0, =0 .0	
vii. Publish NOFR in DC Register	July 20, 2018	General Counsel
_		General Counsel
viii. Fire Protection Service Fee goes	July 20, 2018	
in effect		

Date of Activity	FY 2018 F	Proposed Committee W	/orkplan	
Amendments for Miscellaneous Fees & Charges  a. 2018 Cost of Service Study and Amendments for Miscellaneous Fees & Charges i. RRC recommend COS and proposed amendments for Miscellaneous Fees & Charges ii. Board approval of Notice of Proposed Rulemaking (NOPR) iv. Publish NOPR in DC Register v. Public Comment and Outreach vi. RRC approval of proposed miscellaneous charges vi. BOD approval of Notice of Final Rulemaking (NOFR) vii. Publish NOPR in DC Register viii. Miscellaneous Fees & Charges go in effect  6. Rate Setting Policy a. Review of Rate Setting Policies  7. Water System Replacement Fee a. Review of ummetered fire service lines and their financial impact.  8. New VertexOne customer bill  9. Delinquent Accounts	Objective/ <i>Activities</i> /Task	Date of Activity	Completed	
Amendments for Miscellaneous Fees & Charges  a. 2018 Cost of Service Study and Amendments for Miscellaneous Fees & Charges i. RRC recommend COS and proposed amendments for Miscellaneous Fees & Charges ii. Board approval of Notice of Proposed Rulemaking (NOPR) iv. Publish NOPR in DC Register v. Public Comment and Outreach vi. RRC approval of proposed miscellaneous charges vi. BOD approval of Notice of Final Rulemaking (NOFR) vii. Publish NOPR in DC Register viii. Miscellaneous Fees & Charges go in effect  6. Rate Setting Policy a. Review of Rate Setting Policies  7. Water System Replacement Fee a. Review of ummetered fire service lines and their financial impact.  8. New VertexOne customer bill  9. Delinquent Accounts				
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proposed amendments for Miscellaneous Fees & Charges ii. Board approval of Notice of Proposed Rulemaking (NOPR) iv. Publish NOPR in DC Register v. Public Comment and Outreach vi. RRC approval of proposed miscellaneous charges vi. BOD approval of Notice of Final Rulemaking (NOFR) vii. Publish NOFR in DC Register viii. Miscellaneous Fees & Charges go in effect  6. Rate Setting Policy  a. Review of Rate Setting Policies  7. Water System Replacement Fee  a. Review of unmetered fire service lines and their financial impact.  b. Review of combined domestic and fire service lines and their financial impact.  8. New VertexOne ECIS Billing System (on-going)  a. New VertexOne customer bill  9. Delinquent Accounts	a. 2018 Cost of Service Study and Amendments for Miscellaneous Fees & Charges			Rates & Revenue
Proposed Rulemaking (NOPR) iv. Publish NOPR in DC Register v. Public Comment and Outreach vi. RRC approval of proposed miscellaneous charges vi. BOD approval of Notice of Final Rulemaking (NOFR) vii. Publish NOFR in DC Register viii. Miscellaneous Fees & Charges go in effect    July 5, 2018	proposed amendments for Miscellaneous Fees & Charges			
v. Public Comment and Outreach vi. RRC approval of proposed miscellaneous charges vi. BOD approval of Notice of Final Rulemaking (NOFR) vii. Publish NOFR in DC Register viii. Miscellaneous Fees & Charges go in effect  6. Rate Setting Policy a. Review of Rate Setting Policies  7. Water System Replacement Fee a. Review of unmetered fire service lines and their financial impact. b. Review of combined domestic and fire service lines and their financial impact.  8. New VertexOne ECIS Billing System (on-going) a. New VertexOne customer bill  9. Delinquent Accounts	Proposed Rulemaking (NOPR)			
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viii. Miscellaneous Fees & Charges go in effect  6. Rate Setting Policy a. Review of Rate Setting Policies  7. Water System Replacement Fee a. Review of unmetered fire service lines and their financial impact. b. Review of combined domestic and fire service lines and their financial impact. b. Review of combined domestic and fire service lines and their financial impact.  8. New VertexOne ECIS Billing System (on-going)  a. New VertexOne customer bill  November 14, 2017  Customer Service	Rulemaking (NOFR)			General Counsel
a. Review of Rate Setting Policies  November 14, 2017  Rates & Revenue  7. Water System Replacement Fee  a. Review of unmetered fire service lines and their financial impact.  b. Review of combined domestic and fire service lines and their financial impact.  November 14, 2017  November 14, 2017  November 14, 2017  8. New VertexOne ECIS Billing System (on-going)  a. New VertexOne customer bill  November 14, 2017  Customer Service	viii. Miscellaneous Fees & Charges			General Courise
a. Review of Rate Setting Policies  November 14, 2017  Rates & Revenue  7. Water System Replacement Fee  a. Review of unmetered fire service lines and their financial impact.  b. Review of combined domestic and fire service lines and their financial impact.  November 14, 2017  November 14, 2017  November 14, 2017  8. New VertexOne ECIS Billing System (on-going)  a. New VertexOne customer bill  November 14, 2017  Customer Service				
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(on-going)  a. New VertexOne customer bill  November 14, 2017  ✓ Customer Service  9. Delinquent Accounts	fire service lines and their financial	November 14, 2017	√ 	
(on-going)  a. New VertexOne customer bill  November 14, 2017  ✓ Customer Service  9. Delinquent Accounts				
a. New VertexOne customer bill November 14, 2017   √ Customer Service  9. Delinquent Accounts				
		November 14, 2017	<b>V</b>	Customer Service
		1	1	
	9. Delinquent Accounts			
	1	Monthly, as needed		General Counsel

FY 2018 Proposed Committee Workplan			
Objective/Activities/Task	Date of Activity	Completed	Responsible Department
40 Alivertica Olemen		Γ	
Alternative Charges     a. System Availability Fee (SAF)	January 1, 2018		Permits
a. System Availability Fee (SAF) Go-live	January 1, 2016		Femilis

<sup>\*</sup> Dates subject to change

Prior

Read

635

640

#### ATTACHMENT E DB20171107151351\_REG.xml-1-000000001



Meter

Number

52639203

**Account Number:** Service Address: Square/Suffix/Lot: Impervious Sq. Ft.:

Prior

**Read Date** 

10/31/17

Current

**Read Date** 

11/29/17

Number

of Days

30

Meter

Size

1"

Questions/Preguntas: Emergencies/Emergencia:

5

(202) 354-3600 (202) 612-3400

ACT

visit os Online:		DCWate	er.com 🔾
Current	Usage	Usage	Read
Read	(CCF)	(Gallons)	Type

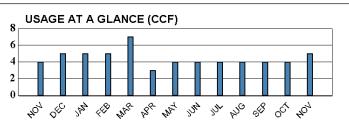
3,740

BILL SUMMARY		CURRENT CHARGES - RESIDENTIAL	
Bill Date	11/29/17	Metering Fee 1"	\$4.56
Previous Balance	\$82.32	Water System Replacement Fee 1"	\$9.67
Payments as of 11/29/17	\$82.32 cr	Water Services 4 CCF X \$3.39	\$13.56
Outstanding Amount Due	\$0.00	Water Services 1 CCF X \$4.26	\$4.26
Other Charges and Credits	\$0.00	Sewer Services 5 CCF X \$6.00	\$30.00
Current Charges	\$93.25	Clean Rivers IAC 1 ERU X \$25.18	\$25.18
Total Amount Due by 12/24/17	\$93.25	DC GOVERNMENT FEES	
		DC Government PILOT Fee 5 CCF X \$0.49	\$2.45
		DC Government ROW Fee 5 CCF X \$0.18	\$0.90
		DC Govt Stormwater Fee 1 ERU X \$2.67	\$2.67
		Total Current Charges	\$93.25
		TOTAL CURRENT BILL	\$93.25

#### **IMPORTANT MESSAGES**

With paperless billing, you can receive and pay your bill online. Log into Customer Advantage for more information.

During the holiday season, please consider donating to our SPLASH program, which offers water bill assistance for families in crisis who are facing service disconnection. For more information, please visit www.dcwater.com or contact Customer Service.



Please return the portion below with your payment to ensure proper credit to your account.



#### Make a SPLASH to help those in need pay their water bill

☐ R-Up + \$1 ☐ R-Up + \$5 ☐ R-Up + \$\_

ROUND UP (R-Up)
Round your bill up to the next dollar or more\*
(Starts on next bill, recurring monthly)

ONE-TIME (Include with payment) Account Number

Total Amount Due: 12/24/17 \$93.25 \$102.58 Amount Due After: 12/29/17 **Amount Enclosed** 

Please allow time for your payment to reach us.

Remit payment to:

Ուկիրի Ուաի Ուլե Միայրիդ Որկիի Որիայան իրկին Ու

DC WATER CUSTOMER SERVICE DEPARTMENT P.O. BOX 97200 WASHINGTON DC 20090

0000014530919 1 0000093252 0000102582

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Account Number: 145309-1			
EXPLANATION OF TERMS			
ACT ACTUAL METER READING	CUST CUSTOMER METER READING	ERU EQUIVALENT RESIDENTIAL UNIT	
CAP CUSTOMER ASSISTANCE PROGRA	M EST ESTIMATED METER READING	NSF INSUFFICIENT FUNDS	
CCF CENTUM CUBIC FEET (100)	1 CCF = 748 GALLONS	WSRF WATER SYSTEM REPLACEMENT FEE	
CUSTOMER CLASSIFICATION	DESCRIPTION		
RESIDENTIAL	A single-family dwelling; condominiums or apartments where each unit is semetered, or a multi-family structure (4 apartments or less) served by a single	erved by a separate service line and is individually le service line that is metered.	
MULTI-FAMILY	Condominium or apartment dwellings with 4 or more units that are metered	1.	
NON-RESIDENTIAL OR COMMERCIAL	All customers not referenced within the Residential or Multi-Family class.		
SERVICE FEES & CHARGES	REASON	AMOUNT	
LATE FEE	Bill is not paid by the due date Bill is outstanding for more than 60 days	10% 1% Interest compounded monthly	
SERVICE DISCONNECTION/RESTORATION	Disconnection of service Restoration of service	\$50 \$50	
ON WITHOUT AUTHORIZATION (OWA)	Following a disconnection for non-payment, where the water is turned on without authorization	\$245	
METERING FEE	Maintenance and repair of DC Water-owned meters	Based on meter size	
RETURNED PAYMENT CHARGE	Returned electronic funds transfer (EFT) Returned check Returned credit card charge	\$20 \$25 Up to \$35	
WATER REPLACEMENT FEE	To replace aging water infrastructure; approximately 1% is renewed annual	lly Based on meter size and average water flow	
CLEAN RIVERS IMPERVIOUS AREA CHARGE (CRIAC)	This charge is based on the impervious area of a property and was designed the cost of the long term combined sewer overflow control plan. The charge Unit or ERU to measure the impervious area. Residential properties are can Non-Residential properties are charged based on square footage of impervious area.	e structure uses the term Equivalent Residential tegorized into tiered ranges. Multi-Family and	
START SERVICE	If you are a property owner in the District of Columbia and need to start wa of your settlement statement. Tenants are unable to start service. A \$50 fee	ter service, contact DC Water and provide a copy e is assessed to establish service.	
STOP SERVICE	If you are a property owner in the District of Columbia and need to stop water service, contact customer service within five (5) business days to request a FINAL BILL. DC Water holds the owner of the property responsible for the payment of the bill. Tenants are unable to stop service.		
DC GOVERNMENT CHARGES	PURPOSE		
STORMWATER	Funds the DC Department of Energy & Environment's stormwater manager	ment program.	
ROW (RIGHT-OF-WAY)	For the use of DC public spaces and rights of way.		
PILOT (PAYMENT IN LIEU OF TAXES)	For services that benefit DC Water facilities and personnel.		
BILLING & PAYMENT	ACTION		
PAYING BY MAIL	Write your account number on your check or money order and make it pays	able to DC Water.	
CAP (CUSTOMER ASSISTANCE PROGRAM)	Low-income residents may qualify for a discount. Contact the DC Departme (202) 673-6750 or 311.	ent of Energy & Environment (DOEE) at	
SPLASH (SERVING PEOPLE BY LENDING A SUPPORTING HAND)	Round your bill up to the next dollar or two, and donate the difference to a largery program, please check the appropriate box on the payment stub. The mont Please be sure your account balance is current before contributing.		

An owner or occupant may challenge the most recent bill by either: (a) Paying the bill under protest and notifying DC Water in writing that he or she believes the bill to be incorrect; or, (b) Not paying the current charges contained in the bill and notifying DC Water in writing, within ten (10) working days after receipt of the bill of the reason(s) why the bill is believed to be incorrect. Challenges received after the ten-day (10) period will be deemed untimely and will not stop the imposition of a penalty for nonpayment of charges or the possibility of termination of service for nonpayment. DC Water will investigate a challenged water, sewer or groundwater bill, and suspend an owner or occupant's obligation to pay the disputed bill until he/she has been provided written results of the investigation and the date that the bill should be paid. If it is determined that the bill is erroneous, DC Water shall adjust the bill accordingly and refund any overcharges paid. If the owner/occupant is not satisfied with DC Water's decision, then he/she may request in writing an administrative hearing within fifteen (15) calendar days of the date of the decision. The owner or occupant is not relieved of the responsibility for paying all previously or subsequently rendered, uncontested water, sewer and groundwater sewer service charges, penalties, interest, and administrative costs. For more information on your rights please visit us at dcwater.com/disputing-bill.

**BILLING DISPUTES** 



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

TUESDAY, December 19, 2017; 9:30 a.m. AGENDA

Call to Order Committee Chairman

Monthly Updates Chief Financial Officer

Committee Workplan Chief Financial Officer

Agenda for January 23, 2018 Committee Meeting Committee Chairman

Other Business Chief Financial Officer

**Adjournment** 

<sup>\*</sup>Detailed agenda can be found on DC Water's website at www.dcwater.com/about/board\_agendas.cfm