



# DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

## Board of Directors

### Finance and Budget Committee

Thursday, January 28, 2021

11:00 a.m.

### Microsoft Teams meeting

Join on your computer or mobile app

[Click here to join the meeting](#)

Or call in (audio only)

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**Conference ID: 570 823 378#**

- 1. **Call to Order**.....Anthony Giancola, Chairperson
- 2. **Roll Call**..... Linda Manley
- 3. **December 2020 Financial Report (Attachment 1)**..... Lola Oyeyemi
- 4. **Overview of Operating Budget Drivers (Attachment 2)** ..... Lola Oyeyemi
- 5. **Environmental Impact Bond Update (Attachment 3)** ..... Carlton Ray
- 6. **Agenda for February 2021 Committee Meeting (Attachment 4)** ..... Anthony Giancola
- 7. **Executive Session\***
- 8. **Adjournment**

***FOLLOW-UP ITEMS – There were no follow-up items from the Finance and Budget Committee meeting held on December 15, 2020.***

1 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)(2); legal, confidential or privileged matters under D.C. Official Code § 2-575(b)(4)(A); 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)(9); personnel matters under D.C. Official Code § 2-575(b)(10); proprietary matters under D.C. Official Code § 2-575(b)(11); train and develop members of a public body and staff under D.C. Official Codes § 2-575(b)(12); 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.



Fiscal Year 2021

# Monthly Financial Report

Period Ending December 31, 2020

## DEPARTMENT OF FINANCE

**Matthew T. Brown**, CFO & Executive Vice President, Finance and Procurement

**Ivan Boykin**, Director, Finance

**Syed Khalil**, Director, Rates & Revenue

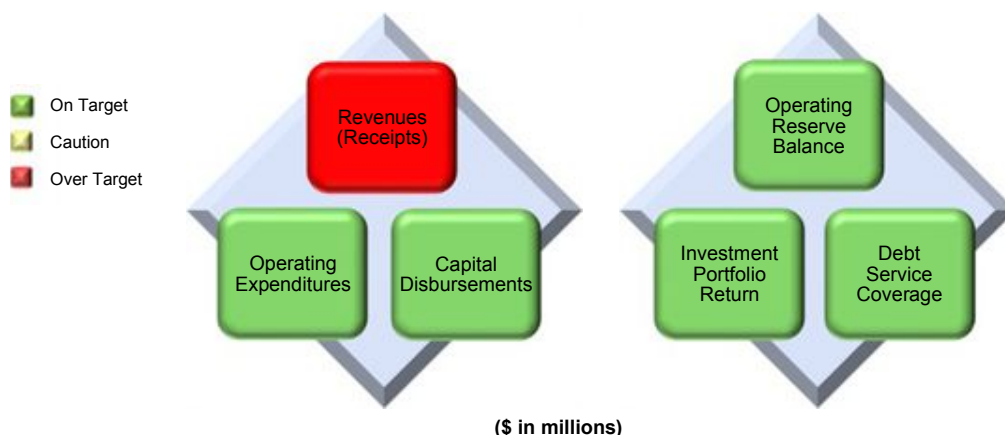
**Genes Malasy**, Controller

**Lola Oyeyemi**, Director, Budget

DECEMBER 2020

EXECUTIVE SUMMARY

As of the end of the first quarter of FY 2021, with 25 percent of the fiscal year completed, we are on track with budgetary expectations and targeted performance metrics, with the exception of revenue receipts due to the decline in consumption resulting from the impact of the COVID-19 pandemic.



(\$ in millions)

	Budget	YTD Budget	Actual	Variance		Actual % Budget
				Favorable	(Unfavorable)	
<b>Revenues (Receipts)</b>	\$733.7	\$182.8	\$173.4	(\$9.5)	-5.2%	23.6%
<b>Expenditures</b>	\$642.7	\$149.7	\$135.3	\$14.3	9.6%	21.1%
<b>Capital Disbursements</b>	\$507.6	\$137.9	\$101.3	\$36.7	26.6%	20.0%

Highlights:

- Target reductions have been implemented to align expenses with the reduced revenue forecasts due to the COVID-19 pandemic
- FY 2022 Budget
  - Budget Workshop immediately following the Board meeting on February 4, 2021 and Budget adoption anticipated on April 1, 2021
  - Wholesale Customer briefing scheduled for February 12, 2021
- FY 2020 Year-End Closeout Status Update
  - Financial Statement audit was completed with unmodified “clean” opinion issued on December 18, 2020 and results will be presented to the Audit Committee on January 28, 2021
  - Development of Comprehensive Annual Financial Report (CAFR) is underway
  - The OMB Uniform Guidance Audit is on-going with expected completion by the end of January
  - Green Bond attestation engagement is underway
- Stakeholder Alliance discussion is scheduled for January 21, 2021

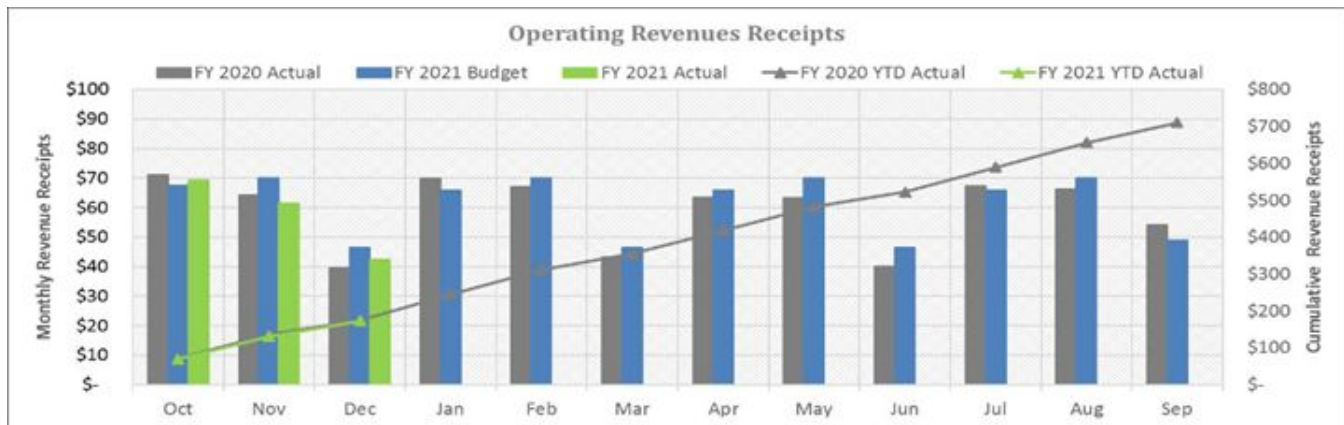
Matthew T. Brown, Executive Vice President & Chief Financial Officer

**Monthly Financial Report**

Fiscal Year-to-Date  
As of December 31, 2020

**Operating Revenues (\$000's)**

FY 2020		CATEGORY	FY 2021					
Actual			Year-to-Date Performance					
Total Annual	YTD December		Annual Budget	YTD Budget	Actual	% of Budget	Variance \$ Fav(Unfav)	Variance % Fav(Unfav)
\$396,884	\$101,351	Residential / Commercial / Multi-Family	\$421,633	\$105,408	\$96,779	23.0%	(\$8,630)	(8.2%)
71,954	18,042	Federal	77,571	19,393	19,535	25.2%	142	0.7%
18,067	2,936	Municipal (DC Govt.)	18,377	4,594	5,511	30.0%	917	20.0%
10,998	2,791	DC Housing Authority	11,941	2,985	3,071	25.7%	86	2.9%
11,829	2,763	Metering Fee	15,405	3,852	3,363	21.8%	(489)	(12.7%)
41,456	10,006	Water System Replacement Fee (WSRF)	39,717	9,929	10,586	26.7%	657	6.6%
79,157	20,355	Wholesale	81,986	20,497	21,037	25.7%	540	2.6%
21,546	5,662	PILOT/ROW	22,463	5,615	5,546	24.7%	(69)	(1.2%)
58,206	11,166	All Other	44,645	10,536	7,930	17.8%	(2,607)	(24.7%)
<b>\$710,097</b>	<b>\$175,073</b>	<b>TOTAL</b>	<b>\$733,738</b>	<b>\$182,810</b>	<b>\$173,357</b>	<b>23.6%</b>	<b>(\$9,453)</b>	<b>(5.2%)</b>



**VARIANCE ANALYSIS FOR MAJOR REPORTED ITEMS**

At the end of December 2020, cash receipts totaled \$173.4 million, or 23.6 percent of the FY 2021 budget. The total receipts for December were \$42.6 million as compared to the budgeted \$45.8 million. Several categories of customers make payments on a quarterly basis, including the Federal Government (which made their first quarterly payment in October), and wholesale customers (which made their first quarter payment in November).

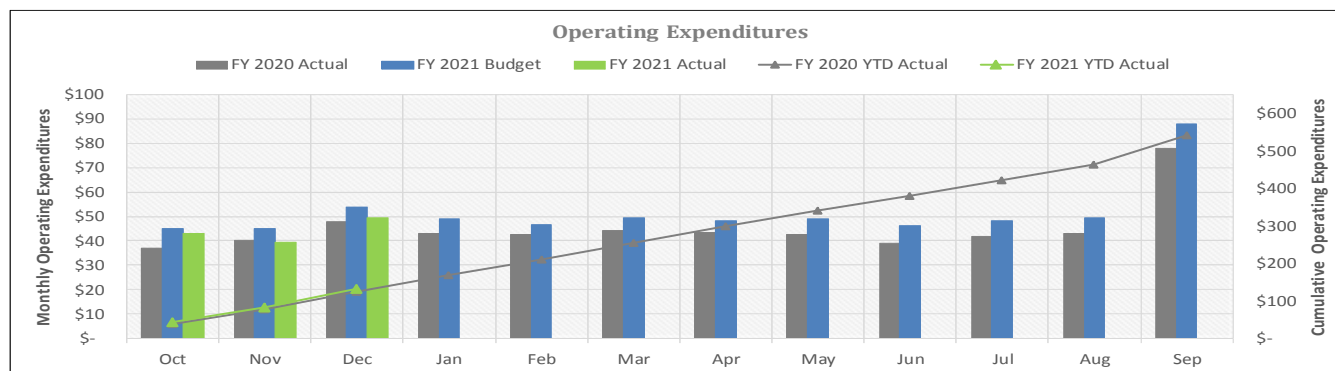
<b>Areas of Overcollection</b>	<b>Areas of Undercollection</b>
<p><u>Federal</u> - Actual receipts through December 2020 total \$19.5 million or 25.2 percent of the budget. The Federal government made their first quarter payment in October 2020.</p> <p><u>Wholesale</u> - The wholesale customers actual receipts through December 2020 total \$21.0 million or 25.7 percent of FY 2021 budget. The wholesale customers made their first quarter payment in November 2020.</p> <p><u>District Government</u> - Receipts are slightly higher at \$5.5 million or 30.0 percent of the budget. The December receipts are at \$3.0 million. The December 2020 receipts are higher by \$1.4 million primarily due to collection of \$1.15 million short-paid amount in November.</p> <p><u>DC Housing</u> - Receipts are slightly higher at \$3.1 million or 25.7 percent of the budget. The December 2020 receipts are slightly higher by \$0.1 million as compared to the monthly budget.</p>	<p><u>Residential, Commercial and Multi-Family</u> - Receipts for this category are lower at \$96.8 million or 23.0 percent of the budget. The lower receipts are mainly due to decline in consumption in Commercial category on account of the impact of COVID-19. The December 2020 receipts were lower by \$3.1 million or 8.9 percent as compared to the monthly budget.</p> <p><u>PILOT/ROW</u> - The YTD receipts for PILOT/ROW are slightly lower at \$5.5 million or 24.7 percent of the budget. The December 2020 receipts are slightly lower by \$0.2 million as compared to the monthly budget.</p> <p><u>Other Revenue</u> - Receipts are lower at \$7.9 million or 17.8 percent of the budget. The \$2.6 million lower receipts are primarily due to (i) \$1.5 million lower receipts from System Availability Fee and (ii) \$1.0 million lower miscellaneous receipts. The December 2020 receipts were \$1.6 million lower than the monthly budget primarily due to lower receipts from System Availability Fee, Miscellaneous Fee and Developer Contractor Fee for Water and Sewer.</p>

Monthly Financial Report

Fiscal Year-to-Date  
As of December 31, 2020

Operating Expenditures (\$000's)

FY 2020		CATEGORY	FY 2021					
Actual			Year-to-Date Performance				Variance	
Total Annual	YTD December		Annual Budget	YTD Budget	Actual	% of Budget	Variance \$	%
\$159,244	\$38,839	Personnel	\$177,863	\$ 42,635	\$40,136	22.6%	\$2,498	5.9%
74,503	18,919	Contractual Services	88,532	23,028	16,497	18.6%	6,530	28.4%
31,696	7,059	Water Purchases	36,250	8,191	7,686	21.2%	505	6.2%
28,659	7,994	Supplies & Chemicals	36,081	9,488	8,861	24.6%	627	6.6%
24,705	5,989	Utilities	27,911	7,118	6,895	24.7%	223	3.1%
806	218	Small Equipment	1,030	244	6	0.6%	239	97.7%
<b>\$319,613</b>	<b>\$79,017</b>	<b>SUBTOTAL O&amp;M</b>	<b>\$367,667</b>	<b>\$90,704</b>	<b>\$80,081</b>	<b>21.8%</b>	<b>\$10,623</b>	<b>11.7%</b>
199,056	46,122	Debt Service	222,268	53,355	49,637	22.3%	3,717	7.0%
22,034	5,509	PILOT/ROW	22,374	5,594	5,594	25.0%	0	0.0%
28,556	0	Cash Financed Capital Improvements	30,355	0	0	0.0%	0	0.0%
<b>\$569,258</b>	<b>\$130,648</b>	<b>TOTAL OPERATING</b>	<b>\$642,664</b>	<b>\$149,652</b>	<b>\$135,311</b>	<b>21.1%</b>	<b>\$14,341</b>	<b>9.6%</b>
(24,906)	(5,803)	Capital Labor	(24,382)	(5,322)	(5,822)	23.9%	500	(9.4%)
<b>\$544,352</b>	<b>\$124,845</b>	<b>TOTAL NET OPERATING</b>	<b>\$618,281</b>	<b>\$144,330</b>	<b>\$129,489</b>	<b>20.9%</b>	<b>\$14,841</b>	<b>10.3%</b>



VARIANCE ANALYSIS FOR MAJOR REPORTED ITEMS

Total operating expenditures for this period (including debt service and the Right-of-Way & PILOT fees) totaled \$135.3 million or 21.1 percent of the FY 2021 Board-approved budget of \$642.7 million.

These numbers include estimated incurred but unpaid invoices and are subject to revision in subsequent months.

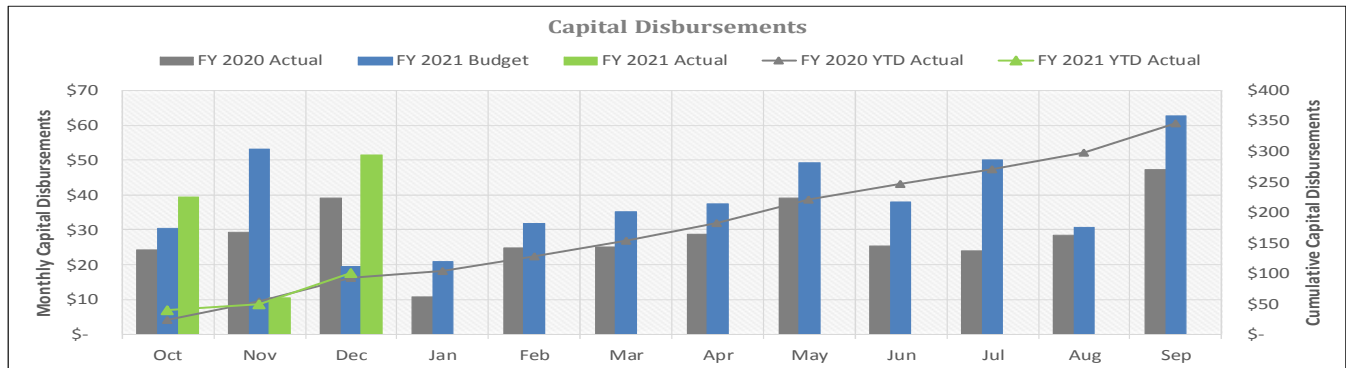
Areas of Underspending
<b>Personnel Services</b> – YTD underspending is due to deliberate pause in the hiring process with the exception of critical positions so as to achieve spending target reductions in response to the reduced revenue forecasts. Of the 1231 positions authorized, 1086 were filled at the end of December with a vacancy rate of 11 percent.
<b>Contractual Services</b> – Spending is in line with expectations at this time of the fiscal year and expected to remain lower than usual throughout the remainder of the fiscal year as expenses are curtailed to ensure that we are only allowing critical and COVID-related expenditures.
<b>Utilities</b> – Underspending is primarily due to lower than budgeted electricity prices. A total of 5MW of the Authority’s electric load is locked at an average Western Hub price of \$27.67/MWh for the remainder of the fiscal year.
<b>Small Equipment</b> – Spending is consistent with purchases at this time of the fiscal year.
<b>Debt Service</b> – YTD spending excludes payment of \$2.2 million for the Build America Bonds Subsidy (BABS) which was accrued in FY 2020 and paid during this fiscal year.

Monthly Financial Report

Fiscal Year-to-Date  
As of December 31, 2020

Capital Disbursements (\$000's)

FY 2020		CATEGORY	FY 2021					
Actual			Year-to-Date Performance					
Total Annual	YTD December		Annual Budget	YTD Budget	Actual	% of Budget	Variance \$	Variance %
\$10,016	\$4,584	Non Process Facilities	\$31,849	\$8,629	\$5,206	16.3%	\$3,423	39.7%
48,987	10,103	Wastewater Treatment	102,976	29,312	23,793	23.1%	5,519	18.8%
181,745	52,036	Combined Sewer Overflow	157,058	53,789	48,080	30.6%	5,708	10.6%
2,587	2,280	Stormwater	9,631	878	95	1.0%	783	89.2%
23,359	6,593	Sanitary Sewer	63,926	14,040	4,998	7.8%	9,042	64.4%
41,721	10,690	Water	88,677	20,622	13,127	14.8%	7,495	36.3%
<b>\$308,415</b>	<b>\$86,285</b>	<b>SUBTOTAL CAPITAL PROJECTS</b>	<b>\$454,118</b>	<b>\$127,269</b>	<b>\$95,300</b>	<b>21.0%</b>	<b>\$31,970</b>	<b>25.1%</b>
24,371	6,290	Capital Equipment	37,207	9,302	5,419	14.6%	3,883	41.7%
13,073	0	Washington Aqueduct	16,266	1,356	550	3.4%	805	59.4%
<b>\$37,444</b>	<b>\$6,290</b>	<b>SUBTOTAL ADD'L CAPITAL PROGRAMS</b>	<b>\$53,473</b>	<b>\$10,657</b>	<b>\$5,969</b>	<b>11.2%</b>	<b>\$4,688</b>	<b>44.0%</b>
<b>\$345,858</b>	<b>\$92,575</b>	<b>TOTAL</b>	<b>\$507,591</b>	<b>\$137,927</b>	<b>\$101,268</b>	<b>20.0%</b>	<b>\$36,658</b>	<b>26.6%</b>



VARIANCE ANALYSIS FOR MAJOR REPORTED ITEMS

At the end of December 2020, capital disbursements are \$101.3 million or 20 percent of the FY 2021 approved budget, which is subject to revision as part of the FY 2022 budget process.

The year-to-date underspending in various service areas reflects management's efforts to mitigate potential impacts of reduced revenue due to the coronavirus pandemic.

Project performance will be reviewed in detail as part of the quarterly CIP update by the Department of Engineering & Technical Services to the Environmental Quality & Operations and Finance & Budget Committees in February 2021.

**Monthly Financial Report**

Fiscal Year-to-Date  
As of December 31, 2020

**Cash Investments (\$ in millions)**

**Cash Balances**

<b>Rate Stabilization Fund Balance</b>	<b>\$90.24</b>
<b>DC Insurance Reserve Balance</b>	<b>1.00</b>

<b>Operating Reserve Accounts</b>	
Renewal & Replacement Balance	35.00
O & M Reserve per Indenture	50.03
Undesignated Reserve Balance	40.47
<b>O &amp; M Reserve per Board Policy</b>	<b>125.50</b>
Excess Above O & M Reserve	44.50
<b>Management O &amp; M Reserve Target</b>	<b>170.00</b>
Project Billing Refunds	19.00
Excess Revenue	6.23
<b>Operating Reserve Accounts</b>	<b>195.23</b>

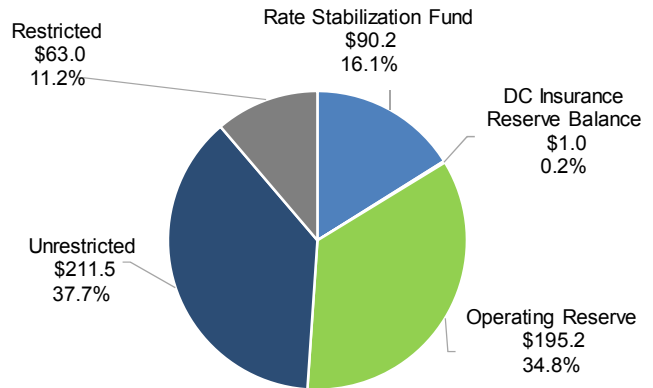
<b>Operating Cash Balance Including RSF</b>	<b>286.48</b>
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<b>Additional Reserve Accounts</b>	
<b>Unrestricted</b>	
Bond Fund - Construction 2019A	102.27
Bond Fund - Construction 2019B	7.76
Bond Fund - Construction 2019C	101.42
<b>Unrestricted Total</b>	<b>211.45</b>

<b>Restricted</b>	
Debt Service Reserve - Series 1998	20.53
DC Water - COVID Residential Relief Fund	3.00
DC Water - CAP Multi-Family Buildings	7.00
DC Water - CAP FY2022 Targeted Assistance	5.00
District Funds	25.65
DOEE - CRIAC Res + Emergency Res Relief	0.06
DOEE - CRIAC Non-Profit Relief	0.06
DOEE - Lead Pipe Replacement (LPRAP)	1.20
DOEE - Lead Service Line Replacement (ERW)	0.50
<b>Restricted Total</b>	<b>62.99</b>

<b>Total All Funds</b>	<b>\$560.92</b>
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**Breakdown of Cash Balances**



**Overall Portfolio Performance**

- The operating reserve balance was \$195.2 million as compared to the operating reserve management target level of \$170.0 million for FY 2021
- Average cash balance for the month of December was \$227.1 million; year end target is \$180 million
- Total investment portfolio was in compliance with the Authority's Investment Policy
- Operating funds interest income for December (on a cash basis) was \$405,236; YTD \$1,036,216
- A detailed investment performance report is attached

## Monthly Financial Report

Fiscal Year-to-Date  
As of December 31, 2020

## FY 2021 Cash Flow Summary (\$000's)

	Annual Budget Cash Basis	YTD Cash Budget	YTD Actual Cash Oct. 1, 2020 - Dec. 31, 2020	Variance Favorable (Unfavorable)	
<b>OPERATING BUDGET</b>					
<b>Cash Provided</b>					
Retail	\$584,644	\$146,161	\$138,844	(7,318)	-5%
Wholesale	81,986	20,497	21,037	540	3%
Other	66,699	16,152	13,476	(2,675)	-17%
<b>Total Cash Provided</b>	<b>733,328</b>	<b>182,810</b>	<b>173,358</b>	<b>(9,452)</b>	<b>-5%</b>
<b>Operating Cash Used</b>					
Personnel Services	153,482	37,313	35,401	1,912	5%
Contractual Services	88,532	23,028	16,121	6,907	30%
Chemicals & Supplies	36,081	9,488	10,004	(516)	-5%
Utilities	27,911	7,118	8,013	(895)	-13%
Water Purchases	36,250	8,191	10,470	(2,279)	-28%
Small Equipment	1,030	244	45	199	82%
<b>Total Operating Cash Used</b>	<b>343,286</b>	<b>85,382</b>	<b>80,054</b>	<b>5,328</b>	<b>6%</b>
Defeasance D.S./Cash Financed Capital Construction	30,355	7,589	0	7,589	100%
<b>Other Cash Used</b>					
Debt Service	222,268	53,355	51,893	1,462	3%
Payment In Lieu of Taxes/Right of Way	22,372	5,594	5,593	1	0%
Total Other Cash Used	244,640	58,949	57,486	1,463	2%
<b>Total Cash Used</b>	<b>618,282</b>	<b>151,920</b>	<b>137,540</b>	<b>14,380</b>	<b>9%</b>
<b>Net Cash Provided (Used) by Operating Act.</b>	<b>115,047</b>	<b>28,762</b>	<b>35,817</b>	<b>7,056</b>	
<b>CAPITAL BUDGET</b>					
<b>Cash Provided</b>					
Debt Proceeds	243,929	60,982	53,002	(7,980)	-13%
Cash Financed Capital Improvements	30,355	7,589		(7,589)	0%
System Availability Fee					0%
EPA Grants	28,464	7,116	3,954	(3,162)	-44%
CSO Grants					0%
Interest Income	6,365	1,591	298	(1,293)	-81%
Wholesale Capital Contributions	95,205	23,801	23,536	(266)	-1%
<b>Total Cash Provided</b>	<b>404,318</b>	<b>101,080</b>	<b>80,790</b>	<b>(20,290)</b>	<b>-20%</b>
<b>Cash Used</b>					
DC Water Capital Program	491,324	127,269	107,374	19,896	16%
Washington Aqueduct Projects	16,266	10,658	550	10,108	95%
<b>Total Cash Used</b>	<b>507,590</b>	<b>137,927</b>	<b>107,924</b>	<b>30,004</b>	<b>22%</b>
<b>Net Cash/PAYGO Provided (Used) by Cap. Act.</b>	<b>(\$103,272)</b>	<b>(\$25,818)</b>	<b>(\$27,134)</b>	<b>(\$1,316)</b>	
<b>Beginning Balance, October 1 (Net of Rate Stab. Fund) Projected</b>	\$186,827		\$186,827		
Plus (Less) Operating Surplus	115,047	28,762	35,817		
Wholesale Customer Refunds from Prior Years	(5,417)	(1,354)	(837)		
Interest Earned From Bond Reserve	410	102	(1)		
Transfer to Rate Stabilization Fund					
Transfer to CAP Fund					
Transfer from CAP Fund					
Transfer from SAF					
Prior Year Federal Billing Reconciliation	2,233	558	558		
Project Billing Refunds	(4,000)	(1,000)			
Cash Used for Capital	(103,272)	(25,818)	(27,134)		
<b>Balance Attributable to O&amp;M Reserve</b>	<b>\$191,828</b>		<b>\$195,231</b>		
<b>OTHER CASH RESERVES</b>					
<b>Rate Stabilization Fund</b>			<b>Current</b>		
<b>DC Insurance Reserve</b>			<b>Balance</b>		
<b>Unrestricted Reserves</b>	211,451		\$90,244		
<b>Restricted Reserves</b>	62,994		1,000		



APPENDIX

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## Monthly Financial Report

Fiscal Year-to-Date  
As of December 31, 2020

## Operating Revenues Detail

(\$ in millions)

Revenue Category	FY 2021 Budget	YTD Budget	Actual	Variance Favorable / (Unfavorable)		Actual % of Budget
Residential, Commercial, and Multi-family	\$421.6	\$105.4	\$96.8	(\$8.6)	-8.2%	23.0%
Federal	77.6	19.4	19.5	0.1	0.7%	25.2%
District Government	18.4	4.6	5.5	0.9	20.0%	30.0%
DC Housing Authority	11.9	3.0	3.1	0.1	2.9%	25.7%
Customer Metering Fee	15.4	3.9	3.4	(0.5)	-12.7%	21.8%
Water System Replacement Fee (WSRF)	39.7	9.9	10.6	0.7	6.6%	26.7%
Wholesale	82.0	20.5	21.0	0.5	2.6%	25.7%
Right-of-Way Fee/PILOT	22.5	5.6	5.5	(0.1)	-1.2%	24.7%
<b>Subtotal (before Other Revenues)</b>	<b>\$689.1</b>	<b>\$172.3</b>	<b>\$165.4</b>	<b>(\$6.8)</b>	<b>-3.9%</b>	<b>24.0%</b>
Other Revenue without RSF						
IMA Indirect Cost Reimb. For Capital Projects	5.1	1.3	1.3	0.0	0.0%	25.5%
DC Fire Protection Fee	12.5	3.1	3.1	0.0	0.0%	24.8%
Stormwater (MS4)	1.0	0.3	0.4	0.1	33.3%	40.0%
Interest	3.4	0.9	1.0	0.1	11.1%	29.4%
Developer Fees (Water & Sewer)	6.0	1.5	1.1	(0.4)	-26.7%	18.3%
Transfer From Rates Stabilization	2.5	0.0	0.0	0.0	0.0%	0.0%
System Availability Fee (SAF)	7.7	1.9	0.4	(1.5)	-78.9%	5.2%
Others	6.4	1.6	0.6	(1.0)	-62.5%	9.4%
<b>Subtotal</b>	<b>\$44.6</b>	<b>\$10.5</b>	<b>\$7.9</b>	<b>(\$2.6)</b>	<b>-24.7%</b>	<b>17.8%</b>
Rate Stabilization Fund Transfer	\$0.0	\$0.0	\$0.0	\$0.0	0.0%	0.0%
<b>Other Revenue Subtotal</b>	<b>\$44.6</b>	<b>\$10.5</b>	<b>\$7.9</b>	<b>(\$2.6)</b>	<b>-24.7%</b>	<b>17.8%</b>
<b>Grand Total</b>	<b>\$733.7</b>	<b>\$182.8</b>	<b>\$173.4</b>	<b>(\$9.4)</b>	<b>-5.2%</b>	<b>23.6%</b>

**BREAKDOWN OF RETAIL RECEIPTS BY CUSTOMER CATEGORY**  
(\$ in 000's)

Customer Category	Clean Rivers					Total
	Water	Sewer	IAC	Metering Fee	WSRF	
Residential	\$8,488	\$13,388	\$7,059	\$1,512	\$2,378	\$32,826
Commercial	\$13,762	\$15,581	\$8,607	\$1,021	\$4,239	\$43,210
Multi-family	\$10,534	\$16,203	\$3,157	\$469	\$1,851	\$32,214
Federal	\$6,549	\$7,444	\$5,542	\$201	\$1,516	\$21,252
District Govt	\$1,477	\$1,998	\$2,037	\$122	\$496	\$6,128
DC Housing Authority	\$1,120	\$1,659	\$292	\$38	\$106	\$3,214
<b>Total:</b>	<b>\$41,929</b>	<b>\$56,273</b>	<b>\$26,693</b>	<b>\$3,363</b>	<b>\$10,586</b>	<b>\$138,844</b>

Note: The breakdown of Collections into Residential, Commercial, & Multi-family and Water and sewer is approximate as it is based on percentages of historical data and does not take into account adjustments and timing differences

**Clean Rivers IAC - Actual vs Budget**  
(\$ in 000's)

Customer Category	FY2021 Budget	Year-To-Date Budget	Actual Received	Variance Favorable / <Unfavorable>	Variance % of YTD Budget	Actual % of Budget
Residential	\$24,793	\$6,198	\$7,059	\$861	14%	28%
Commercial	\$28,102	\$7,026	\$8,607	\$1,581	23%	31%
Multi-family	\$11,370	\$2,843	\$3,157	\$314	11%	28%
Federal	\$21,541	\$5,385	\$5,542	\$157	3%	26%
District Govt	\$7,663	\$1,916	\$2,037	\$121	6%	27%
DC Housing Authority	\$1,135	\$284	\$292	\$8	3%	26%
<b>Total:</b>	<b>\$94,604</b>	<b>\$23,651</b>	<b>\$26,693</b>	<b>\$3,042</b>	<b>13%</b>	<b>28%</b>

## Monthly Financial Report

Fiscal Year-to-Date  
As of December 31, 2020

### Retail Accounts Receivable (Delinquent Accounts)

The following tables show retail accounts receivable over 90 days (from the billing date) including a breakdown by customer class.

#### Greater Than 90 Days by Month

	\$ in millions	# of accounts
September 30, 2012	\$5.5	13,063
September 30, 2013	\$4.9	11,920
September 30, 2014	\$5.3	12,442
September 30, 2015	\$6.5	11,981
September 30, 2016	\$7.7	12,406
September 30, 2017	\$8.4	11,526
September 30, 2018	\$13.4	16,273
September 30, 2019	\$10.6	8,744
September 30, 2020	\$17.9	13,775
October 31, 2020	\$18.9	14,276
November 30, 2020	\$19.8	14,772
December 31, 2020	\$22.7	15,605

Notes: The increase in the accounts receivable over 90 days (from the billing date) is due to the temporary suspension of collections procedures because of the new billing system VertexOne, which was implemented in December 2017. The increase in accounts receivable from March to December 2020 is primarily due to increased delinquencies and deferred payments due to the impact of COVID-19.

#### Greater Than 90 Days by Customer

	Number of Accounts			Month of Dec (All Categories)				Total Delinquent				
	W & S	Impervious Only	Total No. of	Active		Inactive		Nov		Dec		
				No. of	Amount	No. of	Amount	No. of	Amount	No. of	Amount	%
a/c	a/c	a/c	a/c	(\$)	a/c	(\$)	a/c	(\$)	a/c	(\$)	%	
Commercial	9,012	2,319	11,331	1,537	\$6,401,579	41	\$110,770	1,417	\$5,223,187	1,578	\$6,512,349	29%
Multi-family	8,454	361	8,815	1,271	\$7,458,247	13	\$166,905	1,179	\$6,745,477	1,284	\$7,625,152	34%
Single-Family Residential	106,718	2,320	109,038	12,628	\$8,501,256	115	\$85,757	12,176	\$7,789,002	12,743	\$8,587,014	38%
<b>Total</b>	<b>124,184</b>	<b>5,000</b>	<b>129,184</b>	<b>15,436</b>	<b>\$22,361,083</b>	<b>169</b>	<b>\$363,433</b>	<b>14,772</b>	<b>\$19,757,666</b>	<b>15,605</b>	<b>\$22,724,516</b>	<b>100%</b>

Notes: Included in the above \$22.7 million (or 15,605 accounts) of the DC Water over 90 days delinquent accounts, \$4,216,396.09 (or 1,673 accounts) represents Impervious only accounts over 90 days delinquent.

- Reportable delinquencies do not include balances associated with a long standing dispute between DC Water and a large commercial customer.

Monthly Financial Report

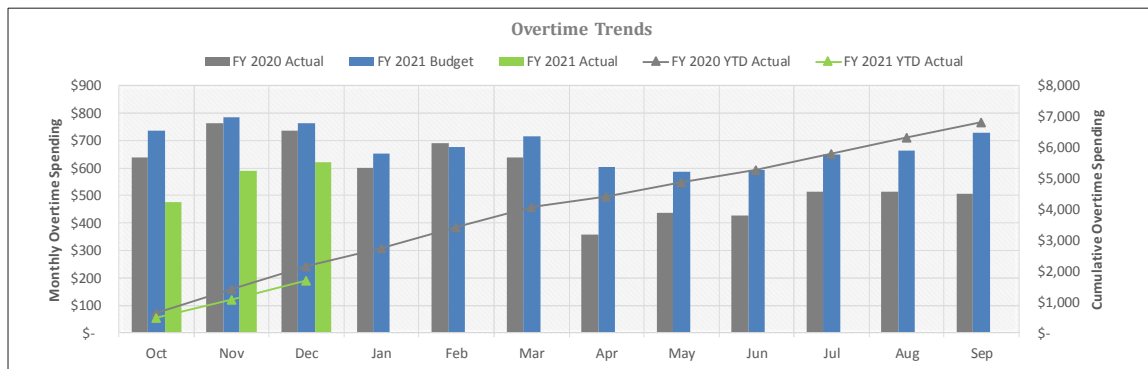
Fiscal Year-to-Date  
As of December 31, 2020

Overtime by Department

Department	FY 2021			
	Budget	Actual	YTD Actual % of Budget	% of Regular Pay
Administrative Office	\$0	\$0	0.0%	0.0%
Board	11,000	0	0.0%	0.0%
CIP Infrastructure	0	618	0.0%	0.1%
Clean Rivers	0	0	0.0%	0.0%
Customer Service	462,000	84,556	0.0%	0.0%
Engineering	938,000	131,260	14.0%	5.5%
Facilities	250,000	43,354	17.3%	4.4%
Finance	40,000	24,240	60.6%	1.5%
Fleet	5,000	2,126	42.5%	1.0%
Information Technology	10,000	1,140	0.0%	0.0%
Legal Affairs	3,000	0	0.0%	0.0%
Marketing & Communications	0	0	0.0%	0.0%
Maintenance	630,000	146,943	23.3%	7.2%
Occupational Safety		-	0.0%	0.0%
Office of OCEO	0	-	0.0%	0.0%
Office of Emergency Mgmt	5,000	-	0.0%	0.0%
People & Talent	5,000	696	13.9%	0.1%
Permit Operations	45,000	4,644	10.3%	0.8%
Process Engineering	50,000	9,496	19.0%	1.1%
Procurement & Compliance	30,000	5,607	0.0%	0.5%
Pumping & Sewer	2,068,000	468,573	22.7%	13.3%
Security	1,000	0	0.0%	0.0%
Wastewater Engineering	25,000	1,801	7.2%	0.5%
Wastewater Treatment Ops	1,796,000	469,391	26.1%	16.0%
Water	1,780,000	283,427	15.9%	9.9%
<b>Total DC WATER</b>	<b>\$8,154,000</b>	<b>\$1,677,871</b>	<b>20.6%</b>	<b>6.3%</b>

\* Finance - Overtime used to cover Year End Closing and Audit

\*\* Fleet – Contract requires more administration; limited resources



## Monthly Financial Report

Fiscal Year-to-Date  
As of December 31, 2020

## Capital Disbursements Detail by Program (\$000's)

Service Areas			Actual			Variance		
	APPROVED BUDGET	YTD BUDGET	Oct 2020 - Nov 2020	Dec 2020	YTD	ACTUAL % BUDGET	VARIANCE \$ Fav/(Unfav)	VARIANCE % Fav/(Unfav)
<b>NON PROCESS FACILITIES</b>								
Facility Land Use	\$31,849	\$8,629	\$1,805	\$3,401	\$5,206	16.3%	\$3,423	39.7%
<b>Subtotal</b>	<b>31,849</b>	<b>8,629</b>	<b>1,805</b>	<b>3,401</b>	<b>5,206</b>	<b>16.3%</b>	<b>3,423</b>	<b>39.7%</b>
<b>WASTEWATER TREATMENT</b>								
Liquids Processing	42,496	8,811	5,348	1,708	7,056	16.6%	1,755	19.9%
Plantwide	32,784	7,794	3,303	557	3,860	11.8%	3,934	50.5%
Solids Processing	27,314	8,268	6,139	4,244	10,383	38.0%	(2,115)	-25.6%
Enhanced Nitrogen Removal Facilities	382	4,439	1,914	579	2,493	652.6%	1,946	43.8%
<b>Subtotal</b>	<b>102,976</b>	<b>29,312</b>	<b>16,705</b>	<b>7,088</b>	<b>23,793</b>	<b>23.1%</b>	<b>5,519</b>	<b>18.8%</b>
<b>COMBINED SEWER OVERFLOW</b>								
D.C. Clean Rivers	147,565	50,555	17,640	30,287	47,927	32.5%	2,628	5.2%
Program Management	1,792	-	38	-	38	2.1%	(38)	0.0%
Combined Sewer	7,701	3,234	86	67	154	2.0%	3,080	95.2%
<b>Subtotal</b>	<b>157,058</b>	<b>53,789</b>	<b>17,763</b>	<b>30,355</b>	<b>48,118</b>	<b>30.6%</b>	<b>5,671</b>	<b>10.5%</b>
<b>STORMWATER</b>								
Local Drainage	22	-	-	-	-	0.0%	-	0.0%
On-Going	631	36	20	9	29	4.6%	7	18.5%
Pumping Facilities	8,392	816	5	61	65	0.8%	751	92.0%
Research and Program Management	445	8	-	-	-	0.0%	8	100.0%
Trunk/Force Sewers	141	18	-	-	-	0.0%	18	100.0%
<b>Subtotal</b>	<b>9,631</b>	<b>878</b>	<b>25</b>	<b>70</b>	<b>95</b>	<b>1.0%</b>	<b>783</b>	<b>89.2%</b>
<b>SANITARY SEWER</b>								
Collection Sewers	8,134	247	1	19	20	0.2%	227	92.1%
On-Going	12,327	3,522	1,366	859	2,225	18.1%	1,297	36.8%
Pumping Facilities	5,995	312	140	65	205	3.4%	107	34.3%
Program Management	5,464	2,174	-	280	280	5.1%	1,894	87.1%
Interceptor/Trunk Force Sewers	32,006	7,785	621	1,609	2,230	7.0%	5,554	71.3%
<b>Subtotal</b>	<b>63,926</b>	<b>14,040</b>	<b>2,127</b>	<b>2,833</b>	<b>4,960</b>	<b>7.8%</b>	<b>9,080</b>	<b>64.7%</b>
<b>WATER</b>								
Distribution Systems	60,464	12,046	3,085	2,032	5,116	8.5%	6,930	57.5%
Lead Program	5,408	1,606	1,114	803	1,917	35.5%	(311)	-19.4%
On-Going	11,075	2,511	1,406	1,779	3,186	28.8%	(675)	-26.9%
Pumping Facilities	2,650	580	289	56	345	13.0%	235	40.4%
DDOT	10	576	0	1	1	12.0%	575	99.8%
Storage Facilities	4,318	2,479	773	769	1,542	35.7%	938	37.8%
Program Management	4,752	823	543	476	1,019	21.5%	(196)	-23.9%
<b>Subtotal</b>	<b>88,677</b>	<b>20,622</b>	<b>7,210</b>	<b>5,917</b>	<b>13,127</b>	<b>14.8%</b>	<b>7,495</b>	<b>36.3%</b>
<b>Capital Projects</b>	<b>454,118</b>	<b>127,269</b>	<b>45,636</b>	<b>49,664</b>	<b>95,299</b>	<b>21.0%</b>	<b>31,970</b>	<b>25.1%</b>
<b>CAPITAL EQUIPMENT</b>	<b>37,207</b>	<b>9,302</b>	<b>4,112</b>	<b>1,307</b>	<b>5,419</b>	<b>14.6%</b>	<b>3,883</b>	<b>41.7%</b>
<b>WASHINGTON AQUEDUCT</b>	<b>16,266</b>	<b>1,356</b>	<b>-</b>	<b>550</b>	<b>550</b>	<b>3.4%</b>	<b>806</b>	<b>59.4%</b>
<b>Additional Capital Programs</b>	<b>53,473</b>	<b>10,658</b>	<b>4,112</b>	<b>1,857</b>	<b>5,969</b>	<b>11.2%</b>	<b>4,689</b>	<b>44.0%</b>
<b>Total</b>	<b>\$507,591</b>	<b>\$137,927</b>	<b>\$49,747</b>	<b>\$51,520</b>	<b>\$101,268</b>	<b>20.0%</b>	<b>\$36,659</b>	<b>26.6%</b>

**Monthly Financial Report**

Fiscal Year-to-Date  
As of December 31, 2020

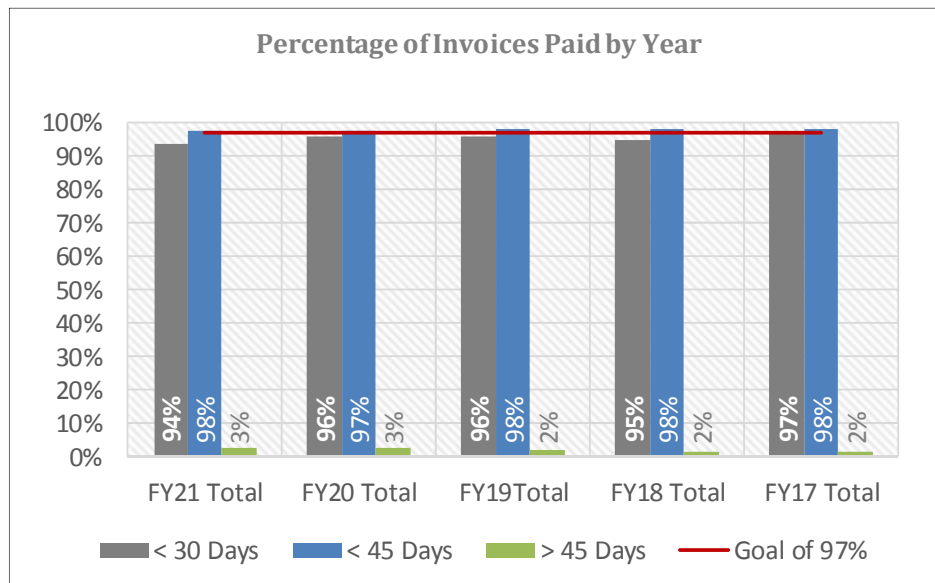
**Accounts Payable Performance**

Cumulative performance for the three-month period ending December FY 2021, a total of 3,219 vendor payments were processed and paid within 30 days compared to 5,265 in FY 2020 (as shown in the table) and with a dollar value of \$143.4 million compared to \$154.1 million for FY 2020.

For FY 2021, approximately 94% of the invoices were paid within 30 days compared to 96% for FY 2020. The Authority’s goal is to pay 97% of all undisputed invoices within 30 days.

Accounts Payable Performance				
	FY 2021		FY 2020	
	Number	Percent	Number	Percent
Less than 30	3,219	93.9%	5,265	95.9%
Less than 45	3,342	97.5%	5,348	97.4%
Greater than 45	86	2.5%	140	2.6%
<b>Sub-Total ≤ 45</b>	<b>3,428</b>	<b>100%</b>	<b>5,488</b>	<b>100%</b>
Retainage/Dispute	-		3	
<b>Total</b>	<b>3,428</b>		<b>5,491</b>	

The chart below shows cumulative year to date historical performance for fiscal years 2017 through 2021.



## Monthly Financial Report

Fiscal Year-to-Date  
As of December 31, 2020

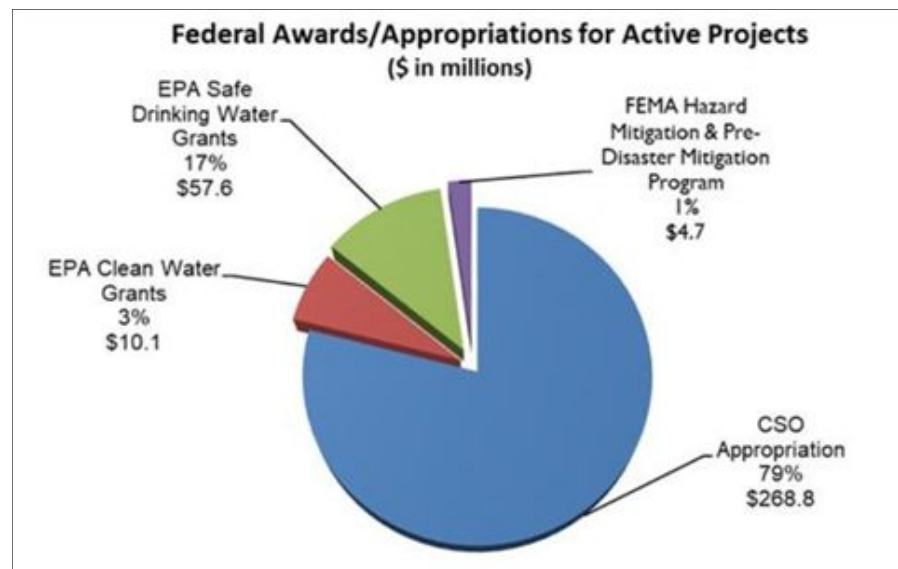
### Grants Report

The Authority currently receives grants to fund portions of its capital project costs from the U.S. Environmental Protection Agency (EPA) and the Federal Emergency Management Agency (FEMA).

The EPA grants are issued under two acts, the Clean Water Act of 1972 and the Safe Drinking Water Act of 1974.

The FEMA mitigation grants are issued under the Robert T. Stafford Disaster Relief and Emergency Assistance Act through the Hazard Mitigation Grant Program (HMGP) Act of 1993 and the Pre-Disaster Mitigation Grant Program (PDM) Act of 2000.

As of December 31, 2020, DC Water has \$341.2 million in total federal funds for active projects, as indicated below:



The remaining balance of the EPA funding as of December 31, 2020 is \$34 million. FEMA grants have a balance of \$3.7 million as of December 31, 2020.

DC Water has received twenty-one separate Congressional CSO appropriations totaling \$268.8 million plus accrued interest of \$12.5 million, resulting in total CSO funding of \$281.3 million. The cumulative CSO appropriation life-to-date cash disbursement is \$281.3 million, based on requested reimbursements through December 31, 2020. The remaining CSO balance as of December 31, 2020 is \$803 which represents interest earned on CSO funds through the month of December 2020.

## Monthly Financial Report

Fiscal Year-to-Date  
As of December 31, 2020

## FY 2020 Budget to Actual Performance (\$000's)

## Operating Revenues

Category	A	B	C = B/A	D = B - A
	BUDGET	ACTUAL	% of BUDGET	\$ Fav/(Unfav)
Res. / Comm. / Multi.	\$399,063	\$396,884	99.5%	(\$2,179)
Federal	71,887	71,954	100.1%	\$67
Municipal (DC Govt.)	17,585	18,067	102.7%	\$482
DC Housing	10,525	10,998	104.5%	\$473
Metering Fee	10,776	11,829	109.8%	\$1,053
Water System Replacement Fee (WSRF)	39,717	41,456	104.4%	\$1,739
Wholesale	82,539	79,157	95.9%	(\$3,382)
PILOT/ROW	22,113	21,546	97.4%	(\$567)
All Other	44,774	58,206	130.0%	\$13,432
<b>TOTAL</b>	<b>\$698,979</b>	<b>\$710,097</b>	<b>101.6%</b>	<b>\$11,118</b>

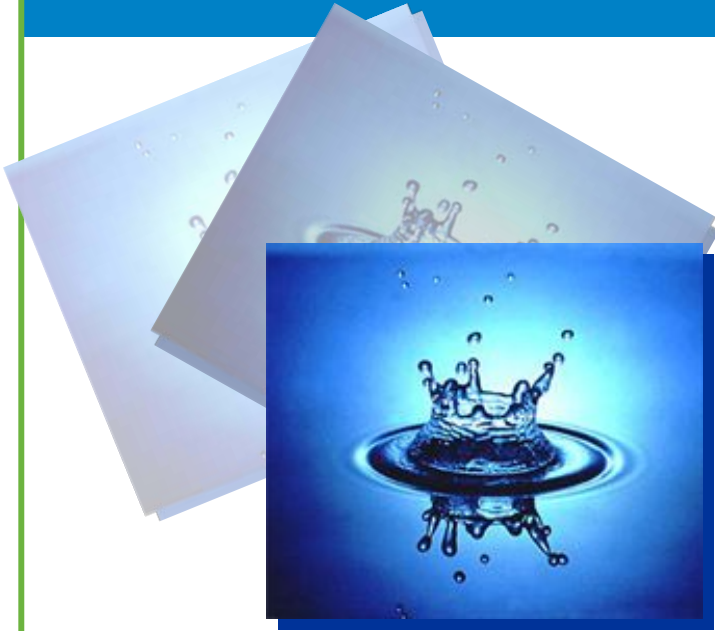
## Operating Expenditures

Category	A	B	C = B/A	D = A - B
	BUDGET	ACTUAL	% of BUDGET	\$ Fav/(Unfav)
Personnel	\$170,680	\$159,244	93.3%	\$11,436
Contractual Services	81,886	74,503	91.0%	7,383
Water Purchases	34,929	31,696	90.7%	3,233
Supplies & Chemicals	33,158	28,659	86.4%	4,499
Utilities	26,953	24,705	91.7%	2,248
Small Equipment	989	806	81.5%	183
<b>SUBTOTAL O&amp;M</b>	<b>\$348,595</b>	<b>\$319,613</b>	<b>91.7%</b>	<b>\$28,982</b>
Debt Service	207,340	199,056	96.0%	8,284
PILOT/ROW	22,034	22,034	100.0%	0
Cash Financed Capital Improvements	28,556	28,556	100.0%	0
<b>TOTAL OPERATING</b>	<b>\$606,523</b>	<b>\$569,258</b>	<b>93.9%</b>	<b>\$37,265</b>
Capital Labor	(22,748)	(24,906)	109.5%	2,158
<b>TOTAL NET OPERATING</b>	<b>\$583,775</b>	<b>\$544,352</b>	<b>93.2%</b>	<b>\$39,423</b>

## Capital Disbursements

Service Area	A	B	C = B/A	D = A - B
	BUDGET	ACTUAL	% of BUDGET	\$ Fav/(Unfav)
Non Process Facilities	\$42,066	\$10,016	23.8%	\$32,050
Wastewater Treatment	77,536	48,987	63.2%	28,549
Combined Sewer Overflow	171,436	181,745	106.0%	(10,309)
Stormwater	6,869	2,587	37.7%	4,282
Sanitary Sewer	44,934	23,359	52.0%	21,575
Water	62,163	41,721	67.1%	20,442
<b>SUBTOTAL: CAPITAL PROJECTS</b>	<b>\$405,004</b>	<b>\$308,414</b>	<b>76.2%</b>	<b>\$96,590</b>
Capital Equipment	31,703	24,371	76.9%	7,332
Washington Aqueduct	15,515	13,073	84.3%	2,442
<b>SUBTOTAL: ADD'L CAPITAL PROGRAMS</b>	<b>\$47,218</b>	<b>37,444</b>	<b>79.3%</b>	<b>\$9,774</b>
<b>TOTAL</b>	<b>\$452,223</b>	<b>\$345,858</b>	<b>76.5%</b>	<b>\$106,365</b>





# DC Water

*Investment Performance Report – December 2020*





**DC Water  
Finance Division  
Economic Update**

## ECONOMIC COMMENTARY

- Congressional law makers passed a fiscal stimulus package as market participants cheered on the long-awaited deal. On December 27, 2020, President Trump signed into law the \$900 billion economic stimulus package and \$1.4 trillion in funding for the federal government through the FFY 2021 (September 30, 2021). The bill includes a one-year extension of permitted spending for coronavirus relief funds provided through the CARES Act, now scheduled to be provided through December 31, 2021. The relief package also included supplemental funding for education, healthcare, and transportation sectors.
- U.S. Gross Domestic Product (“GDP”) expanded in-line with market expectations at an annual rate of 33.4% in the third quarter, according to the US Bureau of Economic Analysis’ third estimate. The slight upward revision from the second estimate of 33.1% primarily reflected larger increases in personal consumption expenditures (PCE) and nonresidential fixed investment.
- Inflation remains subdued and shows little signs of acceleration. The core PCE price index, which includes food and energy, rose in-line with market projections with a reading of 1.6% in November compared to a year ago. Federal Open Market Committee policy makers continue to reiterate they do not anticipate inflation will pose a threat to the economy and have signaled that they plan to hold rates near zero through 2023.
- Nonfarm payrolls unexpectedly shed 140,000 jobs the month of December, representing the first time payrolls have dropped since the height of the pandemic last April. This decline is significantly different from the 50,000 addition expected for the month and is a stark decline following November’s revised addition of 336,000 jobs. The Department of Labor stated that the decline in “payroll employment reflects the recent increase in coronavirus cases and efforts to contain the pandemic.”

## PORTFOLIO RECAP

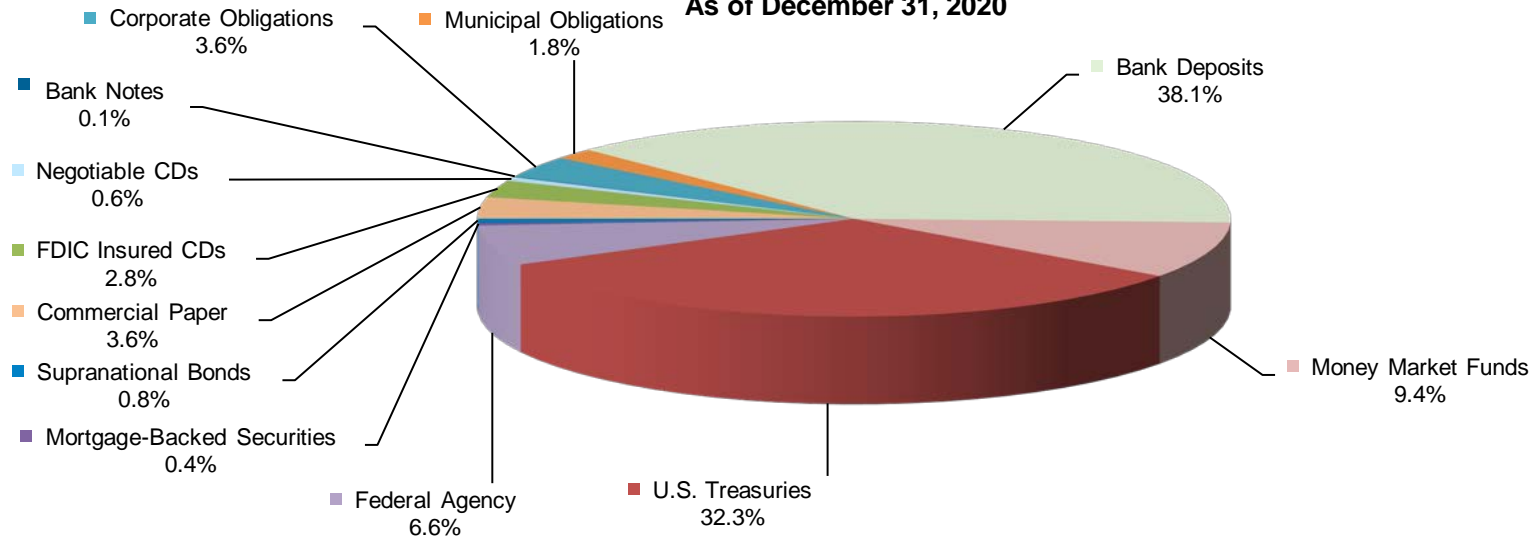
- The portfolio is diversified among Bank Deposits, U.S. Treasuries, Federal Agencies, Mortgage-Backed Securities, Commercial Paper, Supranational Bonds, Negotiable CDs, Corporate Notes/Bonds, Municipal Bonds, FDIC Insured CDs, Bank Notes and SEC registered money market funds.
- The overall yield-to-maturity on cost of the portfolio is 0.32%.

### Operating Reserve

- The investment advisor (PFM) purchased \$4.0 million in U.S. Treasury notes during the month of December.
- Attractive prices were also found for \$1.7 million of a Freddie Mac issue at the beginning of the month.
- PFM later purchased a combined \$1.4 million in corporate notes from various issuers.
- In addition, PFM was able to find value in New York State municipal bonds and purchased \$0.9 million of the issue mid-month.



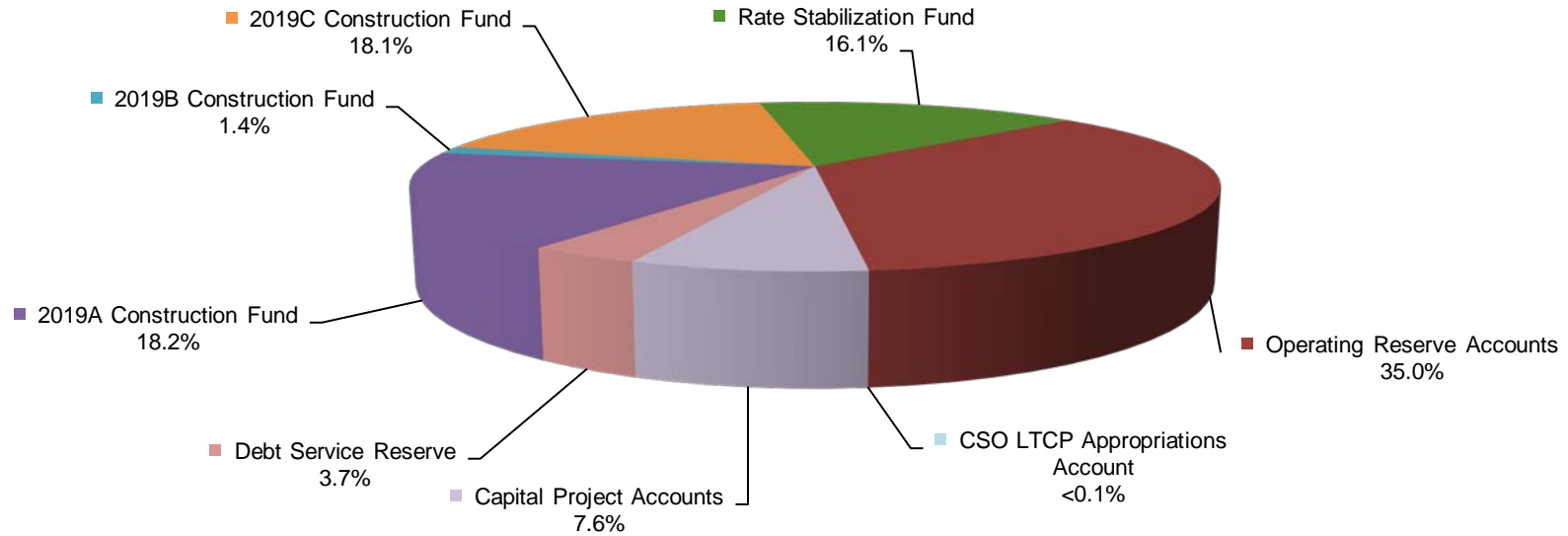
**DC Water  
Finance Division  
Investments - By Security Type  
As of December 31, 2020**



Security Type	Book Value + Accrued Interest	Asset Allocation	Permitted By Policy
Bank Deposits	214,021,678	38.1%	100.0%
Money Market Funds	52,686,808	9.4%	100.0%
U.S. Treasuries	181,297,392	32.3%	100.0%
Federal Agency	37,327,544	6.6%	80.0%
Mortgage-Backed Securities	2,036,123	0.4%	30.0%
Supranational Bonds	4,284,394	0.8%	30.0%
Commercial Paper	19,975,046	3.6%	35.0%
FDIC Insured CDs	15,908,859	2.8%	30.0%
Negotiable CDs	3,620,639	0.6%	30.0%
Bank Notes	461,321	0.1%	40.0%
Corporate Obligations	20,250,312	3.6%	30.0%
Municipal Obligations	9,963,799	1.8%	20.0%
<b>Total</b>	<b>\$ 561,833,917</b>	<b>100.0%</b>	



**DC Water  
Finance Division  
Investment Analysis – By Fund  
As of December 31, 2020**

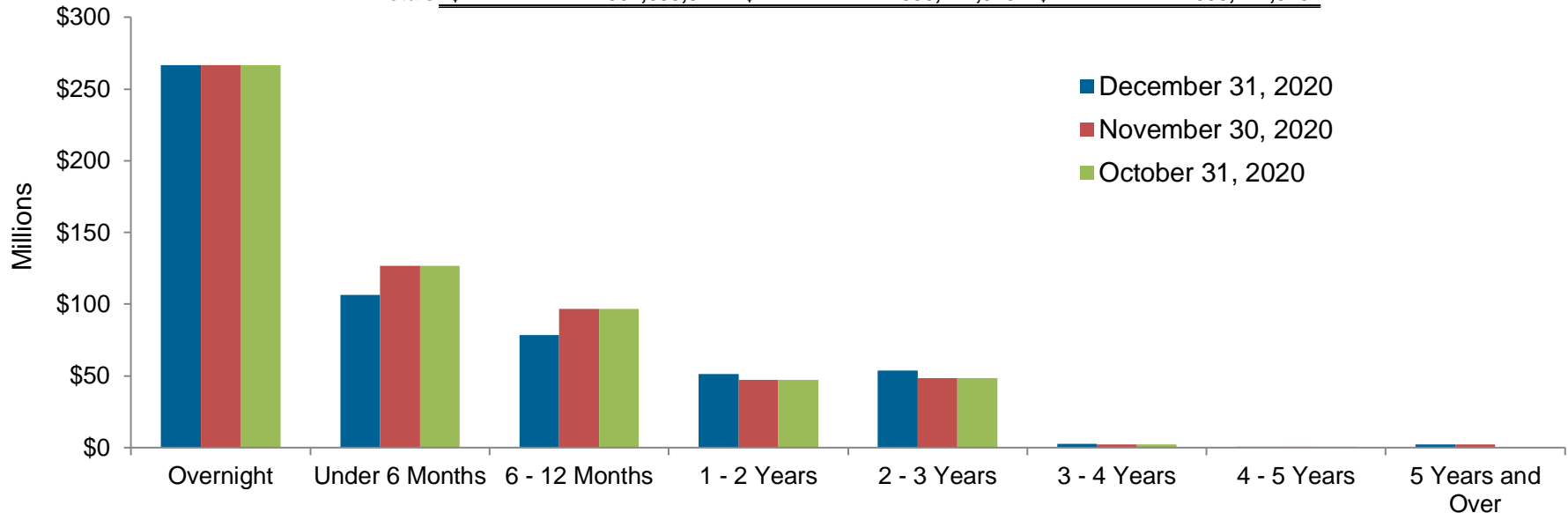


Fund Name	Book Value + Accrued Interest	Yield-to- Maturity at Cost	Effective Duration (years)	Weighted Average Maturity (days)
Rate Stabilization Fund	\$ 90,391,937	0.00%	0.00	1.0
Operating Reserve Accounts	\$ 196,762,905	0.79%	0.98	392.0
CSO LTCP Appropriations Account	\$ 803	0.00%	0.00	1.0
Capital Project Accounts	\$ 42,461,447	0.01%	0.00	1.0
Debt Service Reserve	\$ 20,583,974	0.28%	1.66	607.7
2019A Construction Fund	\$ 102,327,283	0.01%	0.22	79.7
2019B Construction Fund	\$ 7,763,599	0.01%	0.00	1.0
2019C Construction Fund	\$ 101,541,970	0.01%	0.44	160.4
<b>Total</b>	<b>\$ 561,833,917</b>	<b>0.32%</b>	<b>0.53</b>	<b>203.3</b>



**DC Water  
Finance Division  
Investment Analysis – By Maturity**

Maturity Distribution	December 31, 2020	November 30, 2020	October 31, 2020
Overnight \$	266,708,486.11	\$266,740,821.27	\$266,740,821.27
Under 6 Months	106,579,188.96	126,571,813.46	126,571,813.46
6 - 12 Months	78,472,305.18	96,658,727.13	96,658,727.13
1 - 2 Years	51,117,141.03	47,399,528.46	47,399,528.46
2 - 3 Years	53,676,782.51	48,273,957.71	48,273,957.71
3 - 4 Years	2,493,090.53	2,171,260.83	2,171,260.83
4 - 5 Years	750,799.85	749,716.56	749,716.56
5 Years and Over	2,036,123.02	2,156,152.54	2,156,152.54
<b>Totals \$</b>	<b>\$ 561,833,917</b>	<b>\$ 590,721,978</b>	<b>\$ 590,721,978</b>





**DC Water  
Finance Division  
Investments – Issuer Allocation**

	Credit Ratings		Investment Policy Limit	Compliance with Investment Policy	
	S&P / Moody's	Book Value			
<b>Bank Deposits</b>					
TD Bank		214,021,677.91	38.1%	100.0%	Yes
<b>Sub-Total Bank Deposits</b>		<b>214,021,677.91</b>	<b>38.1%</b>	100.0%	Yes
<b>Money Market Mutual Funds</b>					
Wells Fargo Treasury Plus MMF	AAAm	1,976,287.28	0.4%	50.0%	Yes
Wells Fargo Government MMF	AAAm	153,580.14	0.0%	50.0%	Yes
Wells Fargo 100% Treasury MMF	AAAm	50,556,940.78	9.0%	50.0%	Yes
<b>Sub-Total Money Market Mutual Funds</b>		<b>52,686,808.20</b>	<b>9.4%</b>	100.0%	Yes
<b>U.S. Treasuries</b>					
Treasury Note	AA+ / Aaa	181,297,392.48	32.3%	100.0%	Yes
<b>Sub-Total Treasuries</b>		<b>181,297,392.48</b>	<b>32.3%</b>	100.0%	Yes
<b>Federal Agencies</b>					
Fannie Mae	AA+ / Aaa	15,163,705.03	2.7%	40.0%	Yes
Federal Home Loan Bank	AA+ / Aaa	3,239,370.48	0.6%	40.0%	Yes
Freddie Mac	AA+ / Aaa	18,924,468.63	3.4%	40.0%	Yes
<b>Sub-Total Federal Agencies</b>		<b>37,327,544.14</b>	<b>6.6%</b>	80.0%	Yes
<b>Mortgage-Backed Securities</b>					
Fannie Mae	AA+ / Aaa	856,665.09	0.2%	5.0%	Yes
Freddie Mac	AA+ / Aaa	1,179,457.93	0.2%	5.0%	Yes
<b>Sub-Total Mortgage-Backed Securities</b>		<b>2,036,123.02</b>	<b>0.4%</b>	30.0%	Yes
<b>Supranational Bonds</b>					
African Development Bank	AAA / Aaa	800,631.91	0.1%	5.0%	Yes
Asian Development Bank	AAA / Aaa	1,920,563.48	0.3%	5.0%	Yes
Inter-American Development Bank	AAA / Aaa	505,126.27	0.1%	5.0%	Yes
International Bank for Reconstruction and Development	AAA / Aaa	1,058,072.45	0.2%	5.0%	Yes
<b>Sub-Total Supranational Bonds</b>		<b>4,284,394.11</b>	<b>0.8%</b>	30.0%	Yes
<b>Commercial Paper</b>					
ABN Amro Bank	A-1 / P-1	2,996,570.00	0.5%	5.0%	Yes
BNP Paribas	A-1 / P-1	2,996,351.66	0.5%	5.0%	Yes
MUFG Bank	A-1 / P-1	2,996,020.00	0.5%	5.0%	Yes

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**DC Water  
Finance Division  
Investments – Issuer Allocation**

	Credit Ratings			Investment Policy	Compliance with
	S&P / Moody's	Book Value		Limit	Investment Policy
<b>Commercial Paper</b>					
National Bank of Canada	A-1 / P-1	2,995,833.33	0.5%	5.0%	Yes
Natixis	A-1 / P-1	2,996,351.66	0.5%	5.0%	Yes
Royal Bank of Canada NY	A-1+ / P-1	4,993,919.45	0.9%	5.0%	Yes
<b>Sub-Total Commercial Paper</b>		<b>19,975,046.10</b>	<b>3.6%</b>	35.0%	Yes
<b>FDIC Insured Certificates of Deposit</b>					
CDARS - Placed by Industrial Bank	NR	15,908,859.36	2.8%	5.0%	Yes
<b>Sub-Total FDIC-Insured Certificates of Deposit</b>		<b>15,908,859.36</b>	<b>2.8%</b>	30.0%	Yes
<b>Negotiable Certificates of Deposit</b>					
Nordea Bank AB NY	AA- / Aa3	1,459,537.78	0.3%	5.0%	Yes
Royal Bank of Canada NY	A-1+ / P-1	701,512.00	0.1%	5.0%	Yes
Skandinaviska Enskilda Bank	A+ / Aa2	1,459,589.33	0.3%	5.0%	Yes
<b>Sub-Total Negotiable Certificates of Deposit</b>		<b>3,620,639.11</b>	<b>0.6%</b>	30.0%	Yes
<b>Corporate Obligations</b>					
Amazon	AA- / A2	534,562.45	0.1%	5.0%	Yes
Apple	AA+ / Aa1	1,239,518.35	0.2%	5.0%	Yes
Bank of Montreal	A- / A2	1,362,507.77	0.2%	5.0%	Yes
Bank of New York Mellon	A / A1	800,889.16	0.1%	5.0%	Yes
Bank of Nova Scotia Houston	A- / A2	1,391,604.96	0.2%	5.0%	Yes
Berkshire Hathaway Inc.	AA / Aa2	1,004,920.28	0.2%	5.0%	Yes
Blackrock	AA- / Aa3	927,168.32	0.2%	5.0%	Yes
Canadian Imperial Bank NY	BBB+ / A2	999,734.49	0.2%	5.0%	Yes
Chevron	AA / Aa2	971,809.35	0.2%	5.0%	Yes
Costco Wholesale	A+ / Aa3	201,473.13	0.0%	5.0%	Yes
Exxon Mobil Corporation	AA / Aa1	347,460.71	0.1%	5.0%	Yes
JP Morgan	A- / A2	979,730.19	0.2%	5.0%	Yes
Merck & Co.	AA- / A1	902,066.35	0.2%	5.0%	Yes
Northern Trust Company	A+ / A2	998,229.68	0.2%	5.0%	Yes
Pfizer Inc.	A+ / A2	272,303.59	0.0%	5.0%	Yes
Procter & Gamble Co	AA- / Aa3	957,996.54	0.2%	5.0%	Yes
Royal Bank of Canada NY	A / A2	690,221.30	0.1%	5.0%	Yes
Toronto Dominion Bank NY	A / Aa3	1,475,930.41	0.3%	5.0%	Yes
Total Capital	A+ / Aa3	483,594.98	0.1%	5.0%	Yes

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**DC Water  
Finance Division  
Investments – Issuer Allocation**

	Credit Ratings			Investment Policy	Compliance with
	S&P / Moody's	Book Value		Limit	Investment Policy
<b>Corporate Obligations</b>					
US Bank Cincinnati	A+ / A1	1,485,602.07	0.3%	5.0%	Yes
Visa	AA- / Aa3	924,731.37	0.2%	5.0%	Yes
Wal-Mart Stores Inc.	AA / Aa2	361,615.25	0.1%	5.0%	Yes
Westpac Banking	AA- / Aa3	936,641.53	0.2%	5.0%	Yes
<b>Sub-Total Corporate Obligations</b>		<b>20,250,312.23</b>	<b>3.6%</b>	30.0%	Yes
<b>Bank Notes</b>					
Citibank	A+ / Aa3	461,321.33	0.1%	5.0%	Yes
<b>Sub-Total Bank Notes</b>		<b>461,321.33</b>	<b>0.1%</b>	30.0%	Yes
<b>Municipal Obligations</b>					
Avondale School District, Michigan	NR / Aa1	932,519.17	0.2%	5.0%	Yes
Florida State Board of Administration	AA / Aa3	245,898.95	0.0%	5.0%	Yes
Honolulu, Hawaii	NR / Aa1	392,825.88	0.1%	5.0%	Yes
Louisiana State	AA- / Aa3	480,260.00	0.1%	5.0%	Yes
Maryland State	AAA / Aaa	500,831.39	0.1%	5.0%	Yes
Mississippi State	AA / Aa2	375,263.75	0.1%	5.0%	Yes
New York City, New York	AA / Aa2	1,193,558.63	0.2%	5.0%	Yes
New York State	NR / Aa2	2,510,086.70	0.4%	5.0%	Yes
New York & New Jersey Port Authority	A+ / Aa3	574,374.43	0.1%	5.0%	Yes
NYC Transitional Finance Authority	AAA / Aa1	928,885.00	0.2%	5.0%	Yes
Oaklahoma State Turnpike Authority	AA- / Aa3	355,491.56	0.1%	5.0%	Yes
Prince George County	AAA / Aaa	500,887.75	0.1%	5.0%	Yes
San Jose, California	AA+ / Aa1	439,864.97	0.1%	5.0%	Yes
Washington State	AA+ / Aaa	533,051.02	0.1%	5.0%	Yes
<b>Sub-Total Municipal Obligations</b>		<b>9,963,799.20</b>	<b>1.8%</b>	20.0%	Yes
<b>Grand Total</b>		<b>\$ 561,833,917.19</b>	<b>100.0%</b>		

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**DC Water  
Finance Division  
Book Value Performance  
As of December 31, 2020**

*The portfolio is in compliance with the Authority's Investment Policy*

	Trailing 1 Month		Trailing 3 Months		Trailing 6 Months		Trailing 12 Months	Trailing 24 Months
	Periodic	Annualized	Periodic	Annualized	Periodic	Annualized		
Rate Stabilization Fund	0.03%	0.35%	0.08%	0.32%	0.18%	0.36%	0.62%	1.37%
Operating Reserve Accounts	0.25%	2.97%	0.60%	2.41%	1.25%	2.49%	2.71%	2.73%
Debt Service Reserve	0.02%	0.28%	0.21%	0.84%	1.28%	2.56%	2.28%	2.45%
2019A Construction Fund	0.01%	0.09%	0.02%	0.08%	0.06%	0.12%	n/a	n/a
2019B Construction Fund	0.01%	0.06%	0.02%	0.06%	0.35%	0.70%	n/a	n/a
2019C Construction Fund	0.01%	0.15%	0.18%	0.73%	0.49%	0.98%	n/a	n/a
<b>Short Term Consolidated Composite</b>	<b>0.01%</b>	<b>0.08%</b>	<b>0.03%</b>	<b>0.12%</b>	<b>0.15%</b>	<b>0.30%</b>	<b>0.66%</b>	<b>1.30%</b>
ICE BoAML 3-Month Treasury Index (Book Value) <sup>1</sup>	0.01%	0.08%	0.02%	0.09%	0.05%	0.10%	0.32%	1.23%
<b>Core (1+Years) Consolidated Composite</b>	<b>0.11%</b>	<b>1.31%</b>	<b>0.35%</b>	<b>1.38%</b>	<b>0.77%</b>	<b>1.53%</b>	<b>1.87%</b>	<b>2.26%</b>
ICE BoAML 1-3 Year Treasury Index (Book Value) <sup>2</sup>	0.01%	0.13%	0.04%	0.15%	0.07%	0.14%	0.33%	1.19%

- (1) The ICE Bank of America Merrill Lynch 3-Month Treasury Bill is an unmanaged index tracking the on-the-run Treasury Bill. The Index is produced and maintained by Merrill Lynch & Co. Performance for this index is shown on a book value basis.
- (2) The ICE Bank of America Merrill Lynch 3-Month Treasury Bill is an unmanaged index tracking a basket of U.S. Treasuries with 1 to 3 year maturities. The Index is produced and maintained by Merrill Lynch & Co. Performance for this index is shown on a book value basis.



**DC Water  
Finance Division  
Portfolio Holdings by Fund**

DESCRIPTION	CUSIP	PAR AMOUNT	COUPON RATE	MATURITY DATE	SETTLEMENT DATE	YTM AT COST	ORIGINAL COST	MARKET VALUE + ACCRUED INTEREST	AMORTIZED COST + ACCRUED INTEREST	TOTAL VALUE
<b>Rate Stabilization Fund</b>										
TD BANK BANK DEPOSIT		\$ 90,391,937		1/1/2021		0.00%	\$ 90,391,937	\$ 90,391,937	\$ 90,391,937	\$ 90,391,937.17
<b>Operating Reserve Accounts</b>										
TD BANK BANK DEPOSIT		\$ 80,167,491		1/1/2021		0.00%	\$ 80,167,491	\$ 80,167,491	\$ 80,167,491	
DC RESERVES TD BANK DEPOSIT		1,000,000		1/1/2021		0.00%	1,000,000	1,000,000	1,000,000	
WELLS FARGO GOVERNMENT MMF		153,580		1/1/2021		0.01%	153,580	153,580	153,580	
INDUSTRIAL BANK CDARS		2,652,037	2.00	1/14/2021	1/16/2020	2.00%	2,652,037	2,703,536	2,703,536	
INDUSTRIAL BANK CDARS		2,694,154	2.00	1/14/2021	1/16/2020	2.00%	2,694,154	2,746,471	2,746,471	
INDUSTRIAL BANK CDARS		5,180,183	0.10	4/8/2021	10/8/2020	0.10%	5,180,183	5,181,390	5,181,390	
INDUSTRIAL BANK CDARS		5,276,639	0.10	5/6/2021	11/5/2020	0.10%	5,276,639	5,277,463	5,277,463	
ROYAL BANK OF CANADA NY CD	78012UEE1	700,000	3.24	6/7/2021	6/8/2018	3.24%	700,000	711,215	701,512	
NYC, NY TXBL GO BONDS	64966QED8	385,000	1.68	10/1/2021	10/22/2019	1.68%	385,000	389,762	386,617	
FANNIE MAE NOTES	3135G0U92	925,000	2.62	1/11/2022	1/31/2019	2.62%	925,241	960,144	936,550	
WESTPAC BANKING CORP NY CORP NOTES	961214DG5	925,000	2.80	1/11/2022	4/10/2019	2.86%	923,418	960,285	936,642	
FANNIE MAE NOTES	3135G0U92	935,000	2.62	1/11/2022	1/11/2019	2.65%	934,327	970,524	946,360	
US TREASURY NOTES	9128285V8	1,000,000	2.50	1/15/2022	2/11/2019	2.43%	1,001,992	1,036,080	1,012,255	
US TREASURY NOTES	9128285V8	4,600,000	2.50	1/15/2022	1/31/2019	2.55%	4,593,352	4,765,969	4,650,792	
US TREASURY NOTES	912828V72	3,800,000	1.87	1/31/2022	1/9/2019	2.50%	3,730,828	3,901,660	3,805,378	
MERCK & CO INC CORP NOTES	58933YQA8	450,000	2.35	2/10/2022	1/16/2019	2.99%	441,639	464,274	451,121	
US TREASURY NOTES	9128286C9	1,250,000	2.50	2/15/2022	4/3/2019	2.29%	1,257,275	1,295,007	1,264,647	
US TREASURY NOTES	9128286C9	5,150,000	2.50	2/15/2022	3/5/2019	2.54%	5,144,367	5,335,428	5,196,489	
NY ST DORM AUTH PITS TXBL REV BONDS	64990FRJ5	450,000	1.93	2/15/2022	1/3/2020	1.93%	450,000	461,426	453,290	
TOTAL CAPITAL SA CORP NOTE	89153VAB5	475,000	2.87	2/17/2022	7/19/2019	2.20%	483,047	493,735	483,595	
CHEVRON CORP (CALLABLE) NOTES	166764BN9	475,000	2.49	3/3/2022	5/17/2019	2.56%	474,202	486,615	478,556	
PFIZER INC CORP BONDS	717081ER0	270,000	2.80	3/11/2022	3/11/2019	2.80%	269,984	280,393	272,304	
NY ST DORM AUTH PITS TXBL REV BONDS	64990FYV0	760,000	0.50	3/15/2022	10/15/2020	0.55%	760,000	761,331	760,882	
US BANCORP (CALLABLE) NOTE	91159HHC7	965,000	3.00	3/15/2022	6/18/2019	2.33%	982,032	1,003,337	980,701	
ASIAN DEVELOPMENT BANK SUPRANATL	045167ET6	920,000	0.62	4/7/2022	4/7/2020	0.67%	919,163	926,686	920,813	
UNITED STATES TREASURY NOTES	9128286M7	810,000	2.25	4/15/2022	5/3/2019	2.23%	810,570	836,054	814,153	
AVONDALE SCH DIST, MI TXBL GO BONDS	054375VQ0	460,000	1.60	5/1/2022	2/25/2020	1.60%	460,000	468,978	461,227	
APPLE INC CORP NOTES	037833BF6	475,000	2.70	5/13/2022	6/14/2019	2.25%	481,056	492,471	479,539	
APPLE INC CORP NOTES	037833BF6	300,000	2.70	5/13/2022	1/10/2019	3.08%	296,409	311,034	299,616	
BERKSHIRE HATHAWAY INC CORP NOTE	084664BT7	475,000	3.00	5/15/2022	8/15/2019	1.85%	489,559	495,243	484,057	
COSTCO WHOLESALE CORP CORP NOTES	22160KAK1	200,000	2.30	5/18/2022	8/16/2019	1.94%	201,910	205,807	201,473	
BLACKROCK INC CORP NOTES	09247XAJ0	925,000	3.37	6/1/2022	11/9/2018	3.41%	923,909	967,529	927,168	
FEDERAL HOME LOAN BANK	313379Q69	1,900,000	2.12	6/10/2022	7/1/2019	1.86%	1,914,269	1,956,479	1,909,324	
US TREASURY NOTES	9128282P4	3,050,000	1.87	7/31/2022	6/5/2019	1.85%	3,052,502	3,157,807	3,075,183	
HONOLULU, HI TXBL GO BONDS	438687KR5	390,000	1.73	8/1/2022	8/21/2019	1.74%	390,000	401,847	392,826	
NORTHERN TRUST COMPANY CORP NOTES	665859AN4	475,000	2.37	8/2/2022	8/13/2019	1.95%	480,767	495,530	482,741	
NORTHERN TRUST COMPANY CORP NOTES	665859AN4	500,000	2.37	8/2/2022	3/6/2020	1.02%	516,080	521,610	515,489	
PROCTER & GAMBLE CO/THE CORP NOTES	742718EU9	950,000	2.15	8/11/2022	6/21/2019	2.15%	950,105	987,214	957,997	
EXXON MOBIL CORPORATION	30231GBB7	345,000	1.90	8/16/2022	8/16/2019	1.90%	345,000	356,918	347,461	
BANK OF NY MELLON CORP CORP NOTES	06406RAK3	295,000	1.95	8/23/2022	8/23/2019	1.96%	294,906	304,969	296,994	
BANK OF NY MELLON CORP CORP NOTES	06406RAK3	175,000	1.95	8/23/2022	9/5/2019	1.85%	175,483	180,914	176,480	
NORDEA BANK ABP NEW YORK CERT DEPOS	65558TLL7	1,450,000	1.85	8/26/2022	8/29/2019	1.84%	1,450,000	1,499,317	1,459,538	
SKANDINAV ENSKILDA BANK LT CD	83050PDR7	1,450,000	1.86	8/26/2022	9/3/2019	1.85%	1,450,000	1,499,606	1,459,589	
US TREASURY NOTES	9128282S8	600,000	1.62	8/31/2022	10/4/2019	1.34%	604,922	618,125	606,126	
SAN JOSE, CA TXBL GO BONDS	798135H44	435,000	2.30	9/1/2022	7/25/2019	2.08%	437,854	453,190	439,865	

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**DC Water  
Finance Division  
Portfolio Holdings by Fund**

DESCRIPTION	CUSIP	PAR AMOUNT	COUPON RATE	MATURITY DATE	SETTLEMENT DATE	YTM AT COST	ORIGINAL COST	MARKET VALUE + ACCRUED INTEREST	AMORTIZED COST + ACCRUED INTEREST	TOTAL VALUE
<b>Operating Reserve Accounts</b>										
APPLE INC	037833DL1	140,000	1.700	9/11/2022	9/11/2019	1.71%	139,976	144,181	140,714	
MERCK & CO INC CORP NOTES	589331AT4	450,000	2.400	9/15/2022	3/15/2019	2.71%	445,401	467,270	450,945	
VISA INC (CALLABLE) NOTE	92826CAG7	925,000	2.150	9/15/2022	5/24/2019	2.56%	913,086	959,739	924,731	
PRINCE GEORGES CNTY, MD TXBL GO BONDS	7417017E0	500,000	0.603	9/15/2022	6/16/2020	0.60%	500,000	503,318	500,888	
NYC, NY TXBL GO BONDS	64966QEE6	385,000	1.690	10/1/2022	10/22/2019	1.69%	385,000	393,953	386,627	
UNITED STATES TREASURY NOTES	912828YK0	625,000	1.375	10/15/2022	11/4/2019	1.55%	621,826	640,709	624,918	
UNITED STATES TREASURY NOTES	912828YK0	3,175,000	1.375	10/15/2022	12/4/2019	1.63%	3,152,676	3,254,800	3,170,440	
BANK OF MONTREAL CORP NOTES	06367WRC9	975,000	2.050	11/1/2022	10/21/2019	2.09%	973,859	1,009,626	977,642	
NYC, NY TXBL GO BONDS	64966QLD0	420,000	0.450	11/1/2022	9/9/2020	0.45%	420,000	418,631	420,315	
NYC TRANS FIN AUTH, NY TXBL REV BONDS	64971XH77	925,000	2.520	11/1/2022	4/12/2019	2.52%	925,000	964,387	928,885	
BANK OF NOVA SCOTIA HOUSTON CORP NOTES	064159SH0	975,000	2.000	11/15/2022	10/15/2019	2.01%	974,698	1,008,705	977,309	
TORONTO-DOMINION BANK	89114QCD8	975,000	1.900	12/1/2022	10/10/2019	1.94%	973,918	1,006,902	975,885	
UNITED STATES TREASURY NOTES	912828Z29	1,700,000	1.500	1/15/2023	2/5/2020	1.33%	1,708,367	1,759,061	1,717,571	
BANK OF NOVA SCOTIA	064159QD1	410,000	2.375	1/18/2023	7/18/2019	2.39%	409,807	430,408	414,296	
BANK OF NY MELLON CORP NOTES	06406RAM9	325,000	1.850	1/27/2023	1/28/2020	1.87%	324,773	337,114	327,415	
US TREASURY NOTES	912828P38	1,325,000	1.750	1/31/2023	1/6/2020	1.61%	1,330,383	1,379,008	1,338,353	
UNITED STATES TREASURY NOTES	912828Z86	625,000	1.375	2/15/2023	3/4/2020	0.78%	635,864	644,652	636,057	
FEDERAL HOME LOAN BANKS NOTES	3130AJ7E3	1,325,000	1.375	2/17/2023	2/21/2020	1.44%	1,322,562	1,366,184	1,330,047	
BERKSHIRE HATHAWAY FIN (CALLABLE) NOTES	084670BR8	500,000	2.750	3/15/2023	3/9/2020	1.16%	523,550	528,413	520,864	
NY ST URBAN DEV CORP TXBL REV BONDS	650036AR7	375,000	0.720	3/15/2023	6/25/2020	0.72%	375,000	375,761	375,795	
NY ST URBAN DEV CORP TXBL REV BONDS	650036DR4	225,000	0.480	3/15/2023	12/23/2020	0.48%	225,000	225,107	225,024	
JPMORGAN CHASE & CO BONDS	46647PBB1	475,000	3.207	4/1/2023	3/22/2019	3.21%	475,000	495,157	478,808	
AFRICAN DEVELOPMENT BANK SUPRANATL	008281BC0	800,000	0.750	4/3/2023	4/3/2020	0.80%	798,888	811,044	800,632	
FREDDIE MAC NOTES	3137EAEQ8	2,475,000	0.375	4/20/2023	4/20/2020	0.46%	2,468,813	2,489,151	2,472,090	
AVONDALE SCH DIST, MI TXBL GO BONDS	054375YR8	470,000	1.650	5/1/2023	2/25/2020	1.65%	470,000	485,026	471,293	
FREDDIE MAC NOTES	3137EAE66	1,865,000	0.375	5/5/2023	5/7/2020	0.39%	1,864,217	1,875,540	1,865,476	
FREDDIE MAC NOTES	3137EAE66	1,200,000	0.375	5/5/2023	6/4/2020	0.35%	1,200,960	1,206,782	1,201,470	
APPLE INC CORPORATE NOTES	037833DV9	320,000	0.750	5/11/2023	5/11/2020	0.84%	319,130	324,292	319,650	
FANNIE MAE NOTES	3135G04Q3	1,975,000	0.250	5/22/2023	5/22/2020	0.35%	1,969,055	1,979,876	1,970,806	
FANNIE MAE NOTES	3135G04Q3	1,125,000	0.250	5/22/2023	6/4/2020	0.36%	1,121,355	1,127,777	1,122,371	
INTER-AMERICAN DEVEL BK CORPORATE NOTES	4581X0DM7	505,000	0.500	5/24/2023	4/24/2020	0.51%	504,828	508,562	505,126	
AMAZON.COM INC CORPORATE NOTES	023135BP0	535,000	0.400	6/3/2023	6/3/2020	0.45%	534,251	538,025	534,562	
CHEVRON CORP	166764AH3	475,000	3.191	6/24/2023	2/27/2020	1.62%	499,097	504,375	493,253	
WAL-MART STORES INC CORP NOTES	931142EK5	340,000	3.400	6/26/2023	5/6/2020	0.80%	367,339	365,304	361,615	
FREDDIE MAC NOTES	3137EAE54	1,820,000	0.250	6/26/2023	6/26/2020	0.35%	1,814,686	1,823,771	1,815,666	
WA ST T/E GO BONDS	93974EHJ8	475,000	5.000	7/1/2023	4/29/2020	1.03%	533,696	543,239	533,051	
PORT AUTH OF NY/NJ TXBL REV BONDS	73358W4V3	285,000	1.086	7/1/2023	7/8/2020	1.09%	285,000	290,691	286,487	
PORT AUTH OF NY/NJ TXBL REV BONDS	73358W4V3	285,000	1.086	7/1/2023	7/9/2020	0.89%	286,670	290,691	287,887	
FANNIE MAE NOTES	3135G05G4	1,915,000	0.250	7/10/2023	7/10/2020	0.32%	1,910,883	1,920,756	1,913,815	
FANNIE MAE NOTES	3135G05G4	750,000	0.250	7/10/2023	10/8/2020	0.26%	749,730	752,254	750,643	
ASIAN DEVELOPMENT BANK CORPORATE NOTES	045167EV1	1,000,000	0.250	7/14/2023	7/14/2020	0.31%	998,330	1,001,724	999,751	
MD ST TXBL GO BONDS	574193TP3	500,000	0.410	8/1/2023	8/5/2020	0.41%	500,000	503,651	500,831	
FANNIE MAE NOTES (CALLABLE)	3135G05R0	1,525,000	0.300	8/10/2023	8/12/2020	0.36%	1,522,255	1,529,200	1,524,404	
FREDDIE MAC NOTES	3137EAEV7	1,810,000	0.250	8/24/2023	8/21/2020	0.28%	1,808,154	1,814,608	1,810,011	
FREDDIE MAC NOTES	3137EAEW5	785,000	0.250	9/8/2023	9/4/2020	0.24%	785,143	786,737	785,766	
FREDDIE MAC NOTES	3137EAEW5	1,240,000	0.250	9/8/2023	9/4/2020	0.26%	1,239,591	1,242,744	1,240,643	
FREDDIE MAC NOTES	3137EAEW5	750,000	0.250	9/8/2023	10/8/2020	0.26%	749,760	751,659	750,389	
TORONTO-DOMINION BANK CORPORATE NOTES	89114QCJ5	500,000	0.450	9/11/2023	9/11/2020	0.50%	499,285	501,253	500,046	
ROYAL BANK OF CANADA CORPORATE NOTES	78015K7J7	690,000	0.500	10/26/2023	10/26/2020	0.52%	689,572	692,980	690,221	

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**DC Water  
Finance Division  
Portfolio Holdings by Fund**

DESCRIPTION	CUSIP	PAR AMOUNT	COUPON RATE	MATURITY DATE	SETTLEMENT DATE	YTM AT COST	ORIGINAL COST	MARKET VALUE + ACCRUED INTEREST	AMORTIZED COST + ACCRUED INTEREST	TOTAL VALUE
<b>Operating Reserve Accounts</b>										
MS ST TXBL GO BONDS	605581MY0	375,000	0.422	11/1/2023	8/6/2020	0.42%	375,000	376,813	375,264	
FREDDIE MAC NOTES	3137EAEZ8	1,000,000	0.250	11/6/2023	11/5/2020	0.28%	999,100	1,001,589	999,536	
US TREASURY I/B NOTES	91282CAW1	4,000,000	0.250	11/15/2023	12/3/2020	0.22%	4,003,750	4,012,548	4,004,947	
INTL BK RECON & DEVELOP CORPORATE NOTES	459058JM6	1,060,000	0.250	11/24/2023	11/24/2020	0.32%	1,057,721	1,060,956	1,058,072	
FREDDIE MAC NOTES	3137EAF2	1,655,000	0.250	12/4/2023	12/4/2020	0.28%	1,653,362	1,657,351	1,653,714	
BANK OF MONTREAL CORPORATE NOTES	06368EA36	385,000	0.450	12/8/2023	12/8/2020	0.47%	384,750	385,361	384,866	
CANADIAN IMPERIAL BANK CORPORATE NOTES	13607GRS5	1,000,000	0.500	12/14/2023	12/14/2020	0.52%	999,490	1,000,015	999,734	
OK ST TURNPIKE AUTH TXBL REV BONDS	679111ZR8	355,000	0.804	1/1/2024	10/29/2020	0.80%	355,000	356,645	355,492	
CITIBANK NA BANK NOTES	17325FAS7	425,000	3.650	1/23/2024	5/12/2020	1.31%	460,696	471,012	461,321	
NY ST URBAN DEV CORP TXBL REV BONDS	650036DS2	695,000	0.620	3/15/2024	12/23/2020	0.62%	695,000	695,735	695,096	
LA ST TXBL GO BONDS	546417DP8	480,000	0.650	6/1/2024	10/14/2020	0.65%	480,000	481,926	480,260	
JPMORGAN CHASE & CO CORPORATE NOTES	46647PBS4	375,000	0.653	9/16/2024	9/16/2020	0.65%	375,000	376,434	375,714	
JPMORGAN CHASE & CO CORPORATE NOTES	46647PBS4	125,000	0.653	9/16/2024	9/30/2020	0.66%	124,968	125,478	125,208	
US BANK NA CINCINNATI (CALLABLE) CORPORA	90331HPL1	475,000	2.050	1/21/2025	10/14/2020	0.70%	501,937	505,394	504,901	
FL ST BOARD OF ADMIN TXBL REV BONDS	341271AD6	245,000	1.258	7/1/2025	9/16/2020	1.26%	245,000	251,458	245,899	
FG J20795	31306X3C5	393,274	2.500	10/1/2027	3/24/2020	2.35%	397,207	412,465	397,621	
FANNIE MAE POOL	3138MRLV1	387,536	2.500	1/1/2028	2/18/2020	2.25%	394,439	406,345	394,482	
FR ZS6941	3132A7WA5	391,656	2.000	3/1/2028	5/18/2020	1.61%	402,794	410,692	402,554	
FG J23552	31307B5M8	372,166	2.500	5/1/2028	2/18/2020	2.25%	379,261	390,374	379,283	
FN FM3770	3140X7FL8	433,553	3.000	7/1/2035	8/19/2020	2.48%	461,801	464,563	462,183	
										\$ 196,762,904.82
<b>Debt Service Reserve</b>										
WELLS FARGO TREASURY PLUS MMF		\$ 1,976,287		1/1/2021		0.01%	\$ 1,976,287	\$ 1,976,287	\$ 1,976,287	
US TREASURY NOTES	912828F21	6,840,000	2.125	9/30/2021	10/9/2020	0.13%	6,972,792	6,978,668	6,978,595	
US TREASURY NOTES	912828L57	1,290,000	1.750	9/30/2022	11/1/2019	1.53%	1,298,113	1,332,049	1,300,625	
FANNIE MAE NOTES	3135G05G4	6,000,000	0.250	7/10/2023	7/10/2020	0.31%	5,990,040	6,018,033	5,998,757	
FREDDIE MAC NOTES	3137EAEW5	4,325,000	0.250	9/8/2023	9/4/2020	0.24%	4,326,341	4,334,569	4,329,710	
										\$ 20,583,973.87
<b>CSO LTCP Appropriations Account</b>										
TD BANK BANK DEPOSIT		\$ 803		1/1/2021		0.00%	\$ 803	\$ 803	\$ 803	
										\$ 803.33
<b>Capital Project Accounts</b>										
TD BANK - DEPOSITS (DC WATER - COVID RESIDENTIAL RELIEF FUND)		\$ 3,000,000		1/1/2021		0.00%	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	
TD BANK - DEPOSITS (DC WATER - CAP MULTI-FAMILY BLDGS)		7,000,000		1/1/2021		0.00%	7,000,000	7,000,000	7,000,000	
TD BANK - DEPOSITS (DC WATER - CAP FY2022 TARGETED ASSIST.)		5,000,000		1/1/2021		0.00%	5,000,000	5,000,000	5,000,000	
TD BANK - DEPOSITS (DISTRICT FUNDS)		25,647,794		1/1/2021		0.00%	25,647,794	25,647,794	25,647,794	
TD BANK - DEPOSITS (DOEE - CRIAC RES + EMERGENCY RES RELIEF)		57,150		1/1/2021		0.00%	57,150	57,150	57,150	
TD BANK - DEPOSITS (DOEE - CRIAC NON-PROFIT RELIEF)		56,067		1/1/2021		0.00%	56,067	56,067	56,067	
TD BANK - DEPOSITS (DOEE - LEAD SERVICE LINE-LRPAP)		1,200,307		1/1/2021		0.25%	1,200,307	1,200,307	1,200,307	
TD BANK - DEPOSITS (DOEE - LEAD SERVICE LINE-ERW)		500,129		1/1/2021		0.25%	500,129	500,129	500,129	
										\$ 42,461,446.77
<b>2019A Construction Fund</b>										
WELLS FARGO 100% TREASURY MMF		\$ 12,358,465		1/1/2021		0.01%	\$ 12,358,465	\$ 12,358,465	\$ 12,358,465	
US TREASURY NOTES	912828N89	20,000,000	1.375	1/31/2021	10/22/2020	0.09%	20,070,313	20,133,832	20,135,966	
US TREASURY BILL	9127962F5	35,000,000	-	3/25/2021	10/22/2020	0.10%	34,984,953	34,993,389	34,991,890	
US TREASURY BILL	9127962Q1	25,000,000	-	4/22/2021	10/22/2020	0.11%	24,986,540	24,993,625	24,991,791	
US TREASURY I/B	912828S27	9,800,000	1.125	6/30/2021	10/22/2020	0.12%	9,868,141	9,849,305	9,849,170	
										\$ 102,327,282.67

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Investment Performance Report – December 2020



DC Water  
Finance Division  
Portfolio Holdings by Fund

DESCRIPTION	CUSIP	PAR AMOUNT	COUPON RATE	MATURITY DATE	SETTLEMENT DATE	YTM AT COST	ORIGINAL COST	MARKET VALUE + ACCRUED INTEREST	AMORTIZED COST + ACCRUED INTEREST	TOTAL VALUE
<b>2019B Construction Fund</b>										
WELLS FARGO 100% TREASURY MMF		\$ 7,763,599		1/1/2021		0.01%	\$ 7,763,599	\$ 7,763,599	\$ 7,763,599	\$ 7,763,598.86
<b>2019C Construction Fund</b>										
WELLS FARGO 100% TREASURY MMF		\$ 30,434,877		1/1/2021		0.01%	\$ 30,434,877	\$ 30,434,877	\$ 30,434,877	
ABN AMRO FUNDING USA LLC COMM PAPER	00084BUG7	3,000,000	-	7/16/2021	10/26/2020	0.21%	2,995,398	2,995,719	2,996,570	
ROYAL BANK OF CANADA COMM PAPER	78009AUK8	5,000,000	-	7/19/2021	10/23/2020	0.22%	4,991,781	4,993,630	4,993,919	
BNP PARIBAS NY BRANCH COMM PAPER	09659BUK4	3,000,000	-	7/19/2021	10/23/2020	0.22%	2,995,068	2,996,529	2,996,352	
MUFG BANK LTD/NY COMM PAPER	62479LUK9	3,000,000	-	7/19/2021	10/23/2020	0.24%	2,994,620	2,996,046	2,996,020	
NATIXIS NY BRANCH COMM PAPER	63873JUK4	3,000,000	-	7/19/2021	10/23/2020	0.22%	2,995,068	2,996,112	2,996,352	
NATIONAL BANK OF CANADA COMM PAPER	63307LUL3	3,000,000	-	7/20/2021	10/23/2020	0.25%	2,994,375	2,995,482	2,995,833	
US TREASURY NOTES	912828WY2	5,000,000	2.250	7/31/2021	10/26/2020	0.13%	5,080,859	5,108,798	5,108,450	
US TREASURY N/B NOTES	9128282F6	45,550,000	1.125	8/31/2021	10/23/2020	0.13%	45,936,107	46,023,037	46,023,596	\$ 101,541,969.70
							<b>\$ 561,085,879.35</b>	<b>\$ 563,588,630.72</b>	<b>\$ 561,833,917.19</b>	<b>\$ 561,833,917.19</b>

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**DC Water  
Finance Division  
Security Purchases  
Last 6 Months**

CUSIP	DESCRIPTION	PAR	COUPON	MATURITY DATE	TRADE DATE	SETTLE DATE	YTM	TRANSACTION AMOUNT
<b>Operating Reserve Accounts</b>								
73358W4V3	PORT AUTH OF NY/NJ TXBL REV BONDS	285,000.00	1.09	7/1/2023	7/2/2020	7/8/2020	1.09	285,000.00
045167EV1	ASIAN DEVELOPMENT BANK CORPORATE NOTES	1,000,000.00	0.25	7/14/2023	7/7/2020	7/14/2020	0.31	998,330.00
73358W4V3	PORT AUTH OF NY/NJ TXBL REV BONDS	285,000.00	1.09	7/1/2023	7/7/2020	7/9/2020	0.89	286,678.70
3135G05G4	FANNIE MAE NOTES	1,915,000.00	0.25	7/10/2023	7/8/2020	7/10/2020	0.32	1,910,882.75
574193TP3	MD ST TXBL GO BONDS	500,000.00	0.41	8/1/2023	7/23/2020	8/5/2020	0.41	500,000.00
605581MY0	MS ST TXBL GO BONDS	375,000.00	0.42	11/1/2023	7/24/2020	8/6/2020	0.42	375,000.00
3135G05R0	FANNIE MAE NOTES (CALLABLE)	1,525,000.00	0.30	8/10/2023	8/11/2020	8/12/2020	0.36	1,522,280.42
3140X7FL8	FN FM3770	470,547.01	3.00	7/1/2035	8/17/2020	8/19/2020	2.48	501,911.91
3137EAEV7	FREDDIE MAC NOTES	1,810,000.00	0.25	8/24/2023	8/19/2020	8/21/2020	0.28	1,808,153.80
64966QLD0	NYC, NY TXBL GO BONDS	420,000.00	0.45	11/1/2022	8/27/2020	9/9/2020	0.45	420,000.00
3137EAEW5	FREDDIE MAC NOTES	785,000.00	0.25	9/8/2023	9/2/2020	9/4/2020	0.24	785,143.35
3137EAEW5	FREDDIE MAC NOTES	1,240,000.00	0.25	9/8/2023	9/2/2020	9/4/2020	0.26	1,239,590.80
341271AD6	FL ST BOARD OF ADMIN TXBL REV BONDS	245,000.00	1.26	7/1/2025	9/3/2020	9/16/2020	1.26	245,000.00
46647PBS4	JPMORGAN CHASE & CO CORPORATE NOTES	375,000.00	0.65	9/16/2024	9/9/2020	9/16/2020	0.65	375,000.00
89114QCJ5	TORONTO-DOMINION BANK CORPORATE NOTES	500,000.00	0.45	9/11/2023	9/9/2020	9/11/2020	0.50	499,285.00
46647PBS4	JPMORGAN CHASE & CO CORPORATE NOTES	125,000.00	0.65	9/16/2024	9/28/2020	9/30/2020	0.66	124,999.24
546417DP8	LA ST TXBL GO BONDS	480,000.00	0.65	6/1/2024	10/2/2020	10/14/2020	0.65	480,000.00
3135G05G4	FANNIE MAE NOTES	750,000.00	0.25	7/10/2023	10/7/2020	10/8/2020	0.26	750,188.33
3137EAEW5	FREDDIE MAC NOTES	750,000.00	0.25	9/8/2023	10/7/2020	10/8/2020	0.26	749,937.08
RE1332742	INDUSTRIAL BANK CDARS	5,180,183.21	0.10	4/8/2021	10/8/2020	10/8/2020	0.10	5,180,183.21
64990FYV0	NY ST DORM AUTH PITS TXBL REV BONDS	760,000.00	0.55	3/15/2022	10/9/2020	10/15/2020	0.55	760,000.00
90331HPL1	US BANK NA CINCINNATI (CALLABLE) CORPORA	475,000.00	2.05	1/21/2025	10/9/2020	10/14/2020	0.70	504,182.28
679111ZR8	OK ST TURNPIKE AUTH TXBL REV BONDS	355,000.00	0.80	1/1/2024	10/16/2020	10/29/2020	0.80	355,000.00
78015K7J7	ROYAL BANK OF CANADA CORPORATE NOTES	690,000.00	0.50	10/26/2023	10/21/2020	10/26/2020	0.52	689,572.20
3137EAEZ8	FREDDIE MAC NOTES	1,000,000.00	0.25	11/6/2023	11/3/2020	11/5/2020	0.28	999,100.00
RE1332650	INDUSTRIAL BANK CDARS	5,276,639.11	0.10	5/6/2021	11/5/2020	11/5/2020	0.10	5,276,639.11
459058JM6	INTL BK RECON & DEVELOP CORPORATE NOTES	1,060,000.00	0.25	11/24/2023	11/17/2020	11/24/2020	0.32	1,057,721.00
91282CAW1	US TREASURY N/B NOTES	4,000,000.00	0.25	11/15/2023	12/1/2020	12/3/2020	0.22	4,004,247.24
3137EAF2	FREDDIE MAC NOTES	1,655,000.00	0.25	12/4/2023	12/2/2020	12/4/2020	0.28	1,653,361.55
06368EA36	BANK OF MONTREAL CORPORATE NOTES	385,000.00	0.45	12/8/2023	12/3/2020	12/8/2020	0.47	384,749.75
13607GRS5	CANADIAN IMPERIAL BANK CORPORATE NOTES	1,000,000.00	0.50	12/14/2023	12/7/2020	12/14/2020	0.52	999,490.00
650036DR4	NY ST URBAN DEV CORP TXBL REV BONDS	225,000.00	0.48	3/15/2023	12/16/2020	12/23/2020	0.48	225,000.00
650036DS2	NY ST URBAN DEV CORP TXBL REV BONDS	695,000.00	0.62	3/15/2024	12/16/2020	12/23/2020	0.62	695,000.00
<b>Total Debt Service Reserve</b>								
3135G05G4	FANNIE MAE NOTES	6,000,000.00	0.25	7/10/2023	7/9/2020	7/10/2020	0.31	5,990,040.00
3137EAEW5	FREDDIE MAC NOTES	4,325,000.00	0.25	9/8/2023	9/3/2020	9/4/2020	0.24	4,326,340.75
912828F21	US TREASURY NOTES	7,550,000.00	2.13	9/30/2021	10/8/2020	10/9/2020	0.13	7,700,543.03
<b>2019A Construction Fund</b>								
9127962F5	US TREASURY BILL	35,000,000.00	0.000	3/25/2021	10/22/2020	10/22/2020	0.10	34,984,952.92
9127962Q1	TREASURY BILL BILLS	25,000,000.00	0.000	4/22/2021	10/22/2020	10/22/2020	0.11	24,986,539.58
912828N89	US TREASURY NOTES	20,000,000.00	1.375	1/31/2021	10/22/2020	10/22/2020	0.09	20,132,336.96
912828S27	US TREASURY N/B	9,800,000.00	1.125	6/30/2021	10/22/2020	10/22/2020	0.12	9,902,294.16
<b>2019B Construction Fund</b>								
912796TY5	TREASURY BILL BILLS	20,200,000.00	0.000	12/31/2020	10/22/2020	10/23/2020	0.09	20,196,496.14

Securities highlighted in **blue font** denote trades executed during the current month.



**DC Water  
Finance Division  
Security Purchases  
Last 6 Months (Continued)**

CUSIP	DESCRIPTION	PAR	COUPON	MATURITY DATE	TRADE DATE	SETTLE DATE	YTM	TRANSACTION AMOUNT
<b>2019C Construction Fund</b>								
09659BUK4	BNP PARIBAS NY BRANCH COMM PAPER	3,000,000.00	0.000	7/19/2021	10/22/2020	10/23/2020	0.22	2,995,068.33
62479LUK9	MUFG BANK LTD/NY COMM PAPER	3,000,000.00	0.000	7/19/2021	10/22/2020	10/23/2020	0.24	2,994,620.00
63873JUK4	NATIXIS NY BRANCH COMM PAPER	3,000,000.00	0.000	7/19/2021	10/22/2020	10/23/2020	0.22	2,995,068.33
78009AUK8	ROYAL BANK OF CANADA COMM PAPER	5,000,000.00	0.000	7/19/2021	10/22/2020	10/23/2020	0.22	4,991,780.56
9128282F6	US TREASURY N/B NOTES	45,550,000.00	1.125	8/31/2021	10/22/2020	10/23/2020	0.13	46,011,132.80
00084BUG7	ABN AMRO FUNDING USA LLC COMM PAPER	3,000,000.00	0.000	7/16/2021	10/23/2020	10/26/2020	0.21	2,995,397.50
63307LUL3	NATIONAL BANK OF CANADA COMM PAPER	3,000,000.00	0.000	7/20/2021	10/23/2020	10/23/2020	0.25	2,994,375.00
912828WY2	US TREASURY NOTES	5,000,000.00	2.250	7/31/2021	10/23/2020	10/26/2020	0.13	5,107,455.85

Securities highlighted in **blue font** denote trades executed during the current month.

Investment Performance Report – December 2020



DC Water  
Finance Division  
Security Sales  
Last 6 Months

CUSIP	DESCRIPTION	PAR	COUPON	MATURITY DATE	TRADE DATE	SETTLE DATE	REALIZED GAIN/LOSS	TRANSACTION AMOUNT
<b>Operating Reserve Accounts</b>								
912828RC6	US TREASURY NOTES	125,000.00	2.13	8/15/2021	7/1/2020	7/7/2020	1,736.50	128,738.84
912828RC6	US TREASURY NOTES	975,000.00	2.13	8/15/2021	7/7/2020	7/14/2020	13,255.36	1,004,142.44
06406FAA1	BANK OF NEW YORK MELLON CORP (CALLABLE)	275,000.00	2.50	4/15/2021	7/8/2020	7/9/2020	5,012.59	280,643.92
89114QBZ0	TORONTO DOMINION BANK CORP NOTES	925,000.00	3.25	6/11/2021	7/8/2020	7/10/2020	24,751.23	952,045.20
912828ZB6	UNITED STATES TREASURY NOTES	925,000.00	1.38	2/15/2023	7/8/2020	7/10/2020	14,664.09	958,935.46
9128284W7	US TREASURY NOTES	125,000.00	2.75	8/15/2021	8/4/2020	8/5/2020	3,357.71	130,017.86
912828RC6	US TREASURY NOTES	475,000.00	2.13	8/15/2021	8/4/2020	8/5/2020	6,433.49	489,585.00
45950VLQ7	INTERNATIONAL FINANCE CORPORATION NOTE	925,000.00	2.64	3/9/2021	8/11/2020	8/12/2020	12,583.64	947,809.34
9128284W7	US TREASURY NOTES	175,000.00	2.75	8/15/2021	8/11/2020	8/12/2020	4,565.03	181,980.85
9128284W7	US TREASURY NOTES	325,000.00	2.75	8/15/2021	8/12/2020	8/12/2020	6,432.52	337,939.04
89153VAP4	TOTAL CAPITAL INTL SA CORP NOTE	475,000.00	2.75	6/19/2021	8/17/2020	8/19/2020	7,753.97	486,895.58
13063DGA0	CA ST TXBL GO BONDS	1,075,000.00	2.80	4/1/2021	8/20/2020	8/21/2020	16,782.56	1,103,497.06
87019U6D6	SWEDBANK (NEW YORK) CERT DEPOS	525,000.00	2.27	11/16/2020	8/20/2020	8/21/2020	2,623.59	530,768.49
9128284W7	US TREASURY NOTES	350,000.00	2.75	8/15/2021	8/27/2020	9/9/2020	8,672.69	359,417.54
06406FAA1	BANK OF NEW YORK MELLON CORP (CALLABLE)	135,000.00	2.50	4/15/2021	9/2/2020	9/4/2020	2,004.41	137,927.17
06406FAA1	BANK OF NEW YORK MELLON CORP (CALLABLE)	190,000.00	2.50	4/15/2021	9/2/2020	9/4/2020	2,763.37	194,119.73
459058GH0	INTL BANK OF RECONSTRUCTION AND DEV NOTE	1,335,000.00	2.75	7/23/2021	9/2/2020	9/4/2020	30,956.97	1,369,218.65
87019U6D6	SWEDBANK (NEW YORK) CERT DEPOS	400,000.00	2.27	11/16/2020	9/3/2020	9/4/2020	1,710.03	404,459.25
46647PAS5	JPMORGAN CHASE & CO CORP NOTES	375,000.00	3.51	6/18/2022	9/16/2020	9/16/2020	8,595.49	386,917.42
9128284W7	US TREASURY NOTES	475,000.00	2.75	8/15/2021	9/9/2020	9/14/2020	11,233.82	487,420.35
9128284W7	US TREASURY NOTES	375,000.00	2.75	8/15/2021	9/10/2020	9/11/2020	8,985.13	384,838.65
46647PAS5	JPMORGAN CHASE & CO CORP NOTES	550,000.00	3.51	6/18/2022	9/21/2020	9/21/2020	13,135.88	568,275.31
9128284W7	US TREASURY NOTES	1,150,000.00	2.75	8/15/2021	10/7/2020	10/8/2020	25,466.81	1,180,380.86
9128284W7	US TREASURY NOTES	125,000.00	2.75	8/15/2021	10/8/2020	10/15/2020	2,705.33	128,304.18
717081EM1	PFIZER INC CORP NOTE	575,000.00	3.00	9/15/2021	10/9/2020	10/14/2020	14,812.50	590,965.83
88579YBA8	3M COMPANY (CALLED, OMD 09/14/21) CORP N	340,000.00	3.00	12/23/2020	10/9/2020	10/14/2020	8,046.64	348,683.60
9128284W7	US TREASURY NOTES	150,000.00	2.75	8/15/2021	10/9/2020	10/14/2020	3,269.71	153,977.24
9128284W7	US TREASURY NOTES	200,000.00	2.75	8/15/2021	10/16/2020	10/29/2020	4,260.35	205,425.61
3130AF5B9	FEDERAL HOME LOAN BANKS NOTES	675,000.00	3.00	10/12/2021	10/21/2020	10/26/2020	18,663.81	694,323.00
89233GPC4	TOYOTA MOTOR CREDIT CORP COMM PAPER	1,000,000.00	-	2/12/2021	11/3/2020	11/5/2020	3,657.50	999,532.50
3130AF5B9	FEDERAL HOME LOAN BANKS NOTES	950,000.00	3.00	10/12/2021	11/17/2020	11/24/2020	24,257.66	977,417.00
3130AF5B9	FEDERAL HOME LOAN BANKS NOTES	225,000.00	3.00	10/12/2021	12/1/2020	12/3/2020	5,627.14	231,545.25
3130AF5B9	FEDERAL HOME LOAN BANKS NOTES	1,575,000.00	3.00	10/12/2021	12/1/2020	12/3/2020	37,189.20	1,620,816.75
9128284W7	US TREASURY NOTES	50,000.00	2.75	8/15/2021	12/1/2020	12/3/2020	916.03	51,336.79
9128284W7	US TREASURY NOTES	1,100,000.00	2.75	8/15/2021	12/1/2020	12/3/2020	21,502.47	1,129,409.31
9128284W7	US TREASURY NOTES	450,000.00	2.75	8/15/2021	12/1/2020	12/3/2020	8,747.70	462,031.08
9128284W7	US TREASURY NOTES	425,000.00	2.75	8/15/2021	12/1/2020	12/3/2020	8,496.61	436,362.69
9128285F3	UNITED STATES TREASURY NOTES	125,000.00	2.88	10/15/2021	12/3/2020	12/4/2020	2,870.35	128,472.17
912828T67	US TREASURY NOTES	540,000.00	1.25	10/31/2021	12/3/2020	12/4/2020	7,290.21	546,202.73
912828T67	US TREASURY NOTES	925,000.00	1.25	10/31/2021	12/3/2020	12/4/2020	13,132.04	935,625.04
06367WJM6	BANK OF MONTREAL CORP NOTES	465,000.00	2.90	3/26/2022	12/4/2020	12/8/2020	16,277.88	483,465.15
9128285F3	UNITED STATES TREASURY NOTES	875,000.00	2.88	10/15/2021	12/7/2020	12/14/2020	19,501.23	899,381.01
037833BF6	APPLE INC CORP NOTES	200,000.00	2.70	5/13/2022	12/17/2020	12/21/2020	7,961.66	207,534.00
64990FJN5	NY ST DORM AUTH PITS TXBL REV BONDS	390,000.00	3.10	3/15/2021	12/17/2020	12/21/2020	2,550.60	395,774.60
91412HBH5	UNIV OF CAL TXBL REV BONDS	340,000.00	3.03	5/15/2021	12/17/2020	12/21/2020	3,675.40	344,705.26

Securities highlighted in **blue font** denote trades executed during the current month.



Investment Performance Report – December 2020



DC Water  
Finance Division  
Security Sales  
Last 6 Months (Continued)

CUSIP	DESCRIPTION	PAR	COUPON	MATURITY DATE	TRADE DATE	SETTLE DATE	REALIZED GAIN/LOSS	TRANSACTION AMOUNT
<b>Total Debt Service Reserve</b>								
912828F21	US TREASURY NOTES	5,800,000.00	2.13	9/30/2021	7/9/2020	7/10/2020	164,067.98	5,973,574.11
912828VZ0	US TREASURY NOTES	4,275,000.00	2.00	9/30/2020	9/3/2020	9/4/2020	7,542.89	4,318,021.93
912828F21	US TREASURY NOTES	1,225,000.00	2.13	9/30/2021	10/27/2020	10/28/2020	26,440.15	1,249,540.49
912828F21	US TREASURY NOTES	710,000.00	2.13	9/30/2021	10/27/2020	10/28/2020	14.57	724,223.47
<b>2019B Construction Fund</b>								
912796TY5	TREASURY BILL BILLS	20,200,000.00	-	12/31/2020	12/11/2020	12/14/2020	0.37	20,199,260.74
<b>2019C Construction Fund</b>								
9128285S5	UNITED STATES TREASURY NOTES	28,520,000.00	2.50	12/31/2020	10/22/2020	10/23/2020	82,647.48	28,870,929.69
9128285X4	UNITED STATES TREASURY NOTES	1,445,000.00	2.50	1/31/2021	10/22/2020	10/23/2020	6,260.45	1,462,785.18
912828L99	US TREASURY NOTES	24,640,000.00	1.38	10/31/2020	10/22/2020	10/23/2020	9,088.92	24,809,734.78

Securities highlighted in **blue font** denote trades executed during the current month.

## Investment Performance Report – December 2020



**DC Water  
Finance Division  
Security Maturities  
Last 6 Months**

CUSIP	DESCRIPTION	PAR	COUPON	MATURITY DATE	TRADE DATE	SETTLE DATE	TRANSACTION AMOUNT
<b>Operating Reserve Accounts</b>							
RE1061747	INDUSTRIAL BANK CDARS	5,103,271.41	1.50	10/8/2020	10/8/2020	10/8/2020	5,179,610.76
RE1061754	INDUSTRIAL BANK CDARS	5,187,938.73	1.70	11/5/2020	11/5/2020	11/5/2020	5,275,892.06
<b>Total Debt Service Reserve</b>							
62479LJW6	MUFG BANK LTD/NY COMM PAPER	3,750,000.00	-	9/30/2020	9/30/2020	9/30/2020	3,750,000.00
8923A0JW4	TOYOTA CRED PUERTO RICO COMM PAPER	3,750,000.00	-	9/30/2020	9/30/2020	9/30/2020	3,750,000.00
<b>2019A Construction Fund</b>							
912828XM7	US TREASURY NOTES	19,662,000.00	1.63	7/31/2020	7/31/2020	7/31/2020	19,821,753.75
912796XH7	UNITED STATES TREASURY BILL	12,000,000.00	-	9/3/2020	9/3/2020	9/3/2020	12,000,000.00
912828VZ0	US TREASURY NOTES	3,328,000.00	2.00	9/30/2020	9/30/2020	9/30/2020	3,361,280.00
<b>2019B Construction Fund</b>							
21687AHX4	COOPERATIEVE RABOBANK U.A. COMM PAPER	3,800,000.00	-	8/31/2020	8/31/2020	8/31/2020	3,800,000.00
912828VV9	US TREASURY NOTES	1,685,000.00	2.13	8/31/2020	8/31/2020	8/31/2020	1,702,903.13
87019RJ49	SWEDBANK COMM PAPER	2,000,000.00	-	9/4/2020	9/4/2020	9/4/2020	2,000,000.00
59157TJA2	METLIFE SHORT TERM FUND COMM PAPER	2,000,000.00	-	9/10/2020	9/10/2020	9/10/2020	2,000,000.00
22533TJB3	CREDIT AGRICOLE CIB NY COMM PAPER	2,280,000.00	-	9/11/2020	9/11/2020	9/11/2020	2,280,000.00
89233GJB3	TOYOTA MOTOR CREDIT CORP COMM PAPER	3,800,000.00	-	9/11/2020	9/11/2020	9/11/2020	3,800,000.00
62479LJE6	MUFG BANK LTD/NY COMM PAPER	2,280,000.00	-	9/14/2020	9/14/2020	9/14/2020	2,280,000.00
63873JJE1	NATIXIS NY BRANCH COMM PAPER	2,280,000.00	-	9/14/2020	9/14/2020	9/14/2020	2,280,000.00
09659BJU5	BNP PARIBAS NY BRANCH COMM PAPER	2,800,000.00	-	9/28/2020	9/28/2020	9/28/2020	2,800,000.00
46640PJU8	JP MORGAN SECURITIES LLC COMM PAPER	3,800,000.00	-	9/28/2020	9/28/2020	9/28/2020	3,800,000.00
17327AJW8	CITIGROUP GLOBAL MARKETS COMM PAPER	2,250,000.00	-	9/30/2020	9/30/2020	9/30/2020	2,250,000.00
9128285B2	US TREASURY N/B	37,290,000.00	2.75	9/30/2020	9/30/2020	9/30/2020	37,802,737.50
912828VZ0	US TREASURY NOTES	1,200,000.00	2.00	9/30/2020	9/30/2020	9/30/2020	1,212,000.00
<b>2019C Construction Fund</b>							
46640PHX4	JP MORGAN SECURITIES LLC COMM PAPER	4,000,000.00	-	8/31/2020	8/31/2020	8/31/2020	4,000,000.00
22533TJB3	CREDIT AGRICOLE CIB NY COMM PAPER	3,040,000.00	-	9/11/2020	9/11/2020	9/11/2020	3,040,000.00
89233GJB3	TOYOTA MOTOR CREDIT CORP COMM PAPER	5,065,000.00	-	9/11/2020	9/11/2020	9/11/2020	5,065,000.00
62479LJE6	MUFG BANK LTD/NY COMM PAPER	3,040,000.00	-	9/14/2020	9/14/2020	9/14/2020	3,040,000.00
63873JJE1	NATIXIS NY BRANCH COMM PAPER	3,040,000.00	-	9/14/2020	9/14/2020	9/14/2020	3,040,000.00
13607EKS7	CANADIAN IMPERIAL HLDING COMM PAPER	3,000,000.00	-	10/26/2020	10/26/2020	10/26/2020	3,000,000.00
2254EAL68	CREDIT SUISSE NEW YORK COMM PAPER	3,000,000.00	-	11/6/2020	11/6/2020	11/6/2020	3,000,000.00
<b>60689FMP0</b>	<b>MIZUHO BANK LTD/NY COMM PAPER</b>	<b>3,000,000.00</b>	<b>-</b>	<b>12/23/2020</b>	<b>12/23/2020</b>	<b>12/23/2020</b>	<b>3,000,000.00</b>
<b>17327AMX2</b>	<b>CITIGROUP GLOBAL MARKETS COMM PAPER</b>	<b>3,000,000.00</b>	<b>-</b>	<b>12/31/2020</b>	<b>12/31/2020</b>	<b>12/31/2020</b>	<b>3,000,000.00</b>

Securities highlighted in **blue font** denote trades executed during the current month.



**DC Water  
Finance Division  
Upcoming Transaction Cash Flows  
Next 30 Days**

DATE	TRANSACTION	CUSIP	DESCRIPTION	COUPON	MATURITY DATE	PAR VALUE/SHARES	PRINCIPAL	INTEREST	TOTAL
01/01/21	INTEREST	679111ZR8	OK ST TURNPIKE AUTH TXBL REV BONDS	0.804	01/01/24	355,000.00	0.00	491.56	491.56
01/01/21	INTEREST	93974EHJ8	WA ST T/E GO BONDS	5.000	07/01/23	475,000.00	0.00	11,875.00	11,875.00
01/01/21	INTEREST	341271AD6	FL ST BOARD OF ADMIN TXBL REV BONDS	1.258	07/01/25	245,000.00	0.00	898.95	898.95
01/10/21	INTEREST	3135G05G4	FANNIE MAE NOTES	0.250	07/10/23	6,000,000.00	0.00	7,500.00	7,500.00
01/10/21	INTEREST	3135G05G4	FANNIE MAE NOTES	0.250	07/10/23	2,665,000.00	0.00	3,331.25	3,331.25
01/11/21	INTEREST	3135G0U92	FANNIE MAE NOTES	2.625	01/11/22	1,860,000.00	0.00	24,412.50	24,412.50
01/11/21	INTEREST	961214DG5	WESTPAC BANKING CORP NY CORP NOTES	2.800	01/11/22	925,000.00	0.00	12,950.00	12,950.00
01/14/21	INTEREST	045167EV1	ASIAN DEVELOPMENT BANK CORPORATE NOTES	0.250	07/14/23	1,000,000.00	0.00	1,250.00	1,250.00
01/15/21	INTEREST	9128285V8	US TREASURY NOTES	2.500	01/15/22	5,600,000.00	0.00	70,000.00	70,000.00
01/15/21	INTEREST	31306X3C5	FG J20795	2.500	10/01/27	393,274.19	0.00	819.32	819.32
01/15/21	INTEREST	912828Z29	UNITED STATES TREASURY NOTES	1.500	01/15/23	1,700,000.00	0.00	12,750.00	12,750.00
01/15/21	INTEREST	31307B5M8	FG J23552	2.500	05/01/28	372,166.38	0.00	775.35	775.35
01/18/21	INTEREST	064159QD1	BANK OF NOVA SCOTIA	2.375	01/18/23	410,000.00	0.00	4,868.75	4,868.75
01/21/21	INTEREST	90331HPL1	US BANK NA CINCINNATI (CALLABLE) CORPORA	2.050	01/21/25	475,000.00	0.00	4,868.75	4,868.75
01/23/21	INTEREST	17325FAS7	CITIBANK NA BANK NOTES	3.650	01/23/24	425,000.00	0.00	7,756.25	7,756.25
01/25/21	INTEREST	3138MRLV1	FANNIE MAE POOL	2.500	01/01/28	387,535.88	0.00	807.37	807.37
01/25/21	INTEREST	3140X7FL8	FN FM3770	3.000	07/01/35	433,552.56	0.00	1,083.88	1,083.88
01/25/21	INTEREST	3132A7WA5	FR ZS6941	2.000	03/01/28	391,656.36	0.00	652.76	652.76
01/27/21	INTEREST	06406RAM9	BANK OF NY MELLON CORP NOTES	1.850	01/27/23	325,000.00	0.00	3,006.25	3,006.25
01/31/21	INTEREST	912828P4	US TREASURY NOTES	1.875	07/31/22	3,050,000.00	0.00	28,593.75	28,593.75
01/31/21	INTEREST	912828P38	US TREASURY NOTES	1.750	01/31/23	1,325,000.00	0.00	11,593.75	11,593.75
01/31/21	INTEREST	912828V72	US TREASURY NOTES	1.875	01/31/22	3,800,000.00	0.00	35,625.00	35,625.00
01/31/21	MATURITY	912828N89	US TREASURY NOTES	1.375	01/31/21	20,000,000.00	20,000,000.00	137,500.00	20,137,500.00
01/31/21	INTEREST	912828WY2	US TREASURY NOTES	2.250	07/31/21	5,000,000.00	0.00	56,250.00	56,250.00

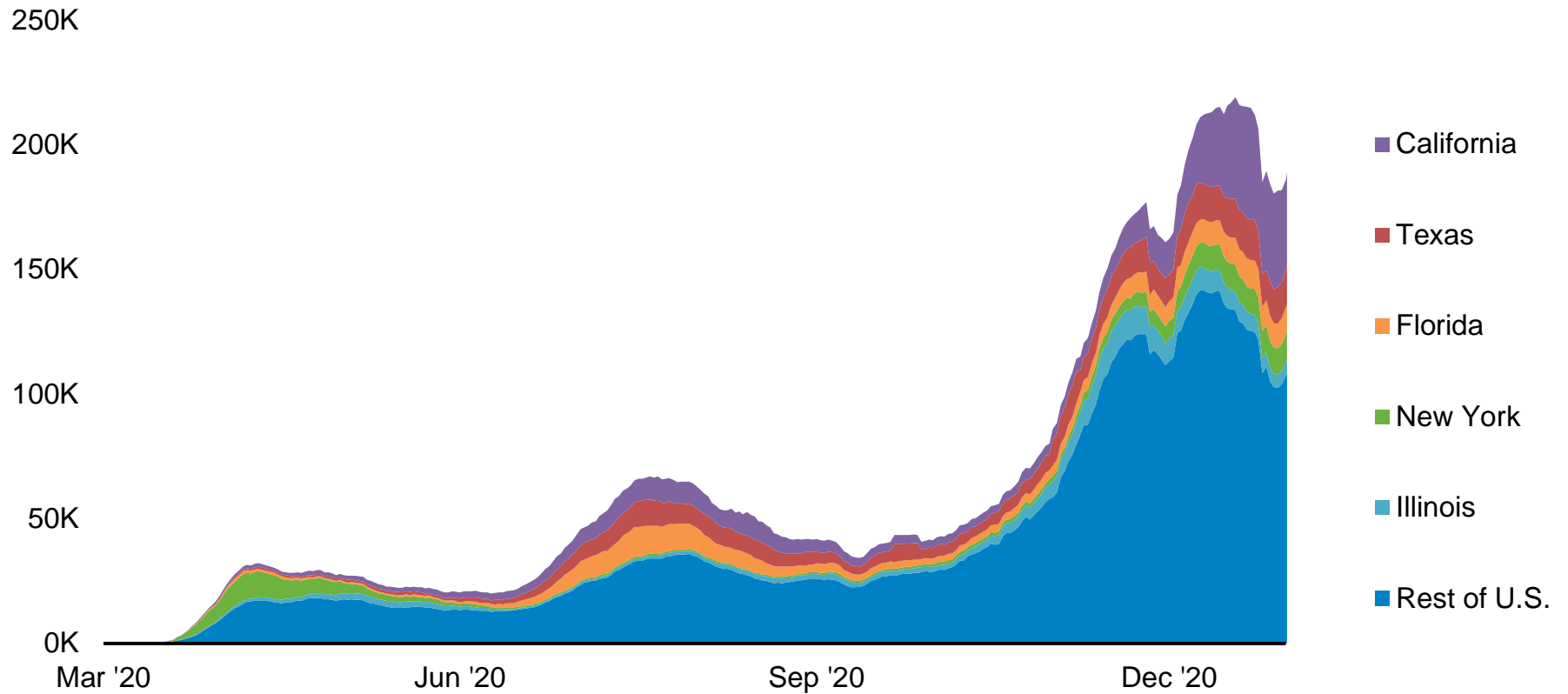


# Appendix: Economic Update



# U.S. Surpasses 20 Million Confirmed Coronavirus Cases

### New Cases Reported Daily 7-Day Moving Average



Source: John Hopkins University Coronavirus Resource Center, PFM calculations; as of 12/31/2020.



## Fed Reaffirms Commitment to Support the Economy

# December

# 16

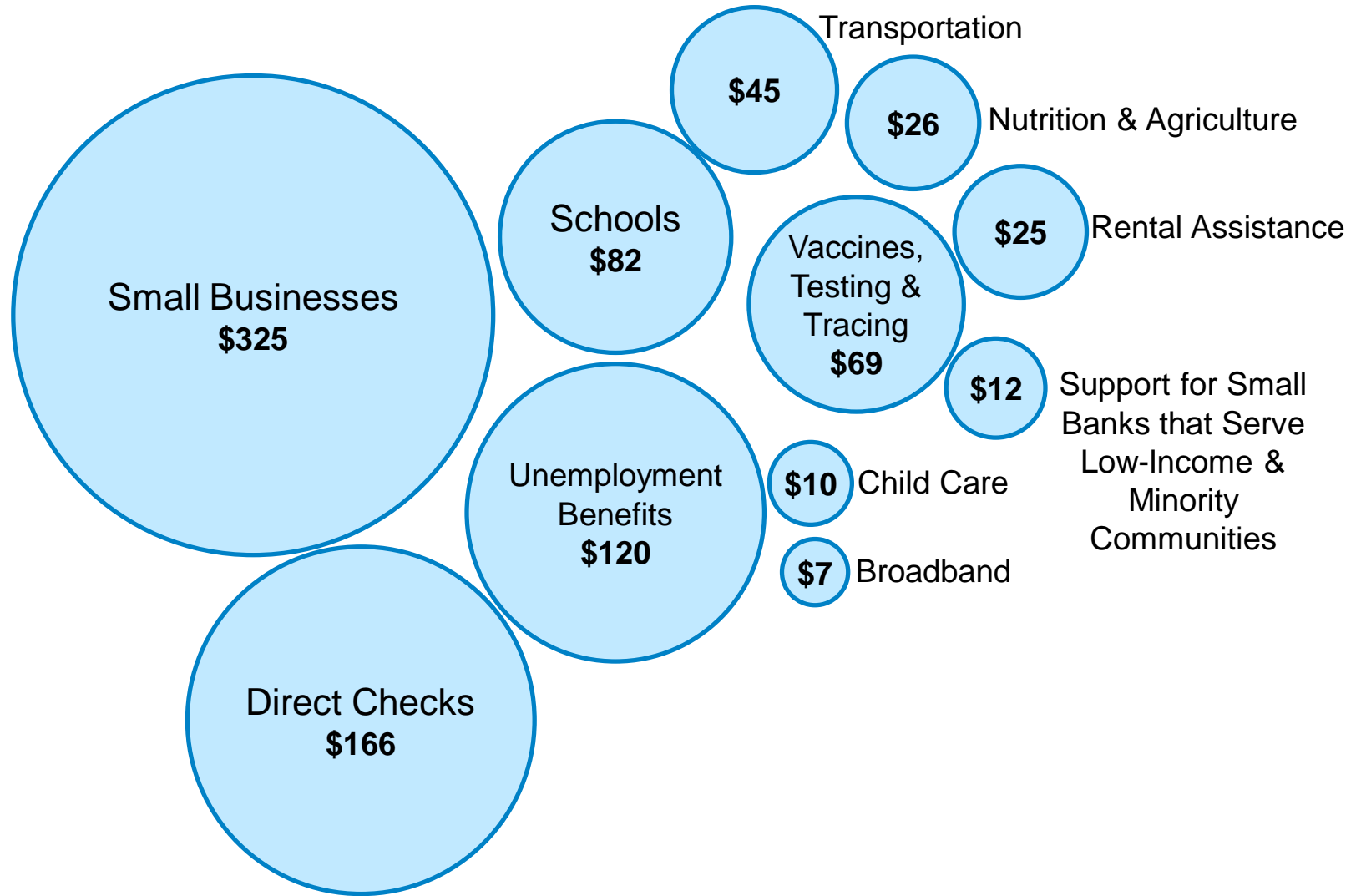
- ***Economic activity and employment have continued to recover but remain well below their levels at the beginning of the year...*** Overall financial conditions remain accommodative, in part reflecting policy measures to support the economy and the flow of credit to U.S. households and businesses.
- The path of the economy ***will depend significantly on the course of the virus***. The ongoing public health crisis will continue to weigh on economic activity, employment, and inflation in the near term, and poses ***considerable risks to the economic outlook*** over the medium term.
- With inflation running persistently below this longer-run goal, the Committee will aim to achieve inflation moderately above 2 percent for some time so that inflation averages 2 percent over time and longer-term inflation expectations remain well anchored at 2 percent. ***The Committee expects to maintain an accommodative stance of monetary policy until these outcomes are achieved.***
- In addition, the Federal Reserve will ***continue*** to increase its holdings of ***Treasury securities by at least \$80 billion per month and of agency mortgage-backed securities by at least \$40 billion per month*** until substantial further progress has been made toward the Committee's maximum employment and price stability goals.

Source: Federal Reserve.



# President Trump Signs a \$900 Billion Pandemic Relief Package

*Emergency Relief Package, in billions*

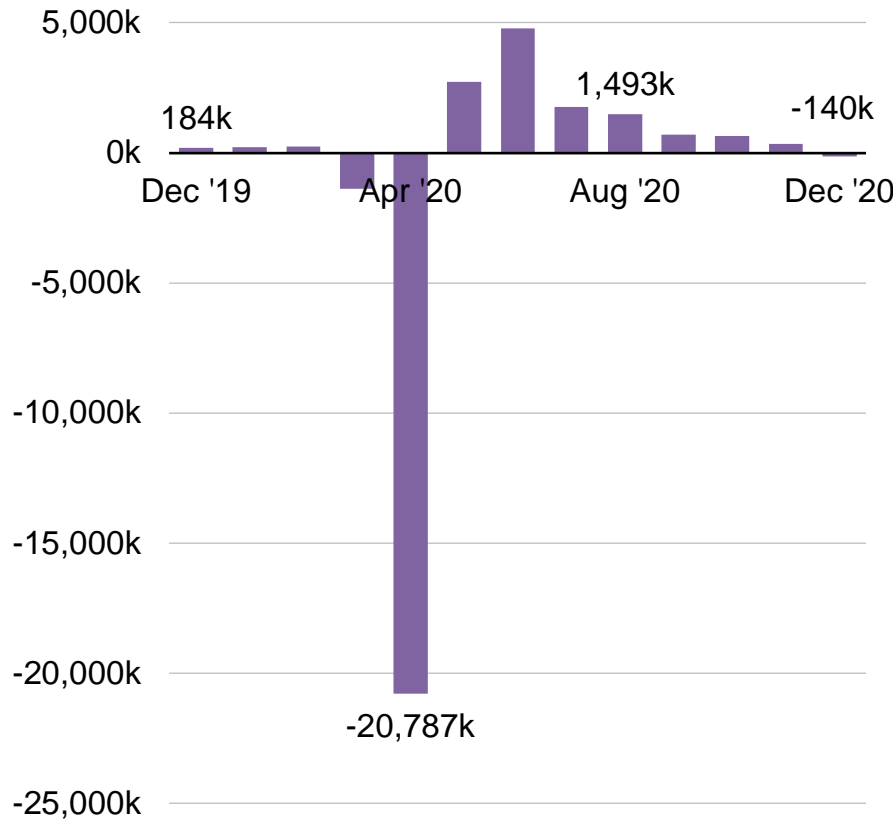


Source: WSJ and Congressional aides, as of 12/21/2020.

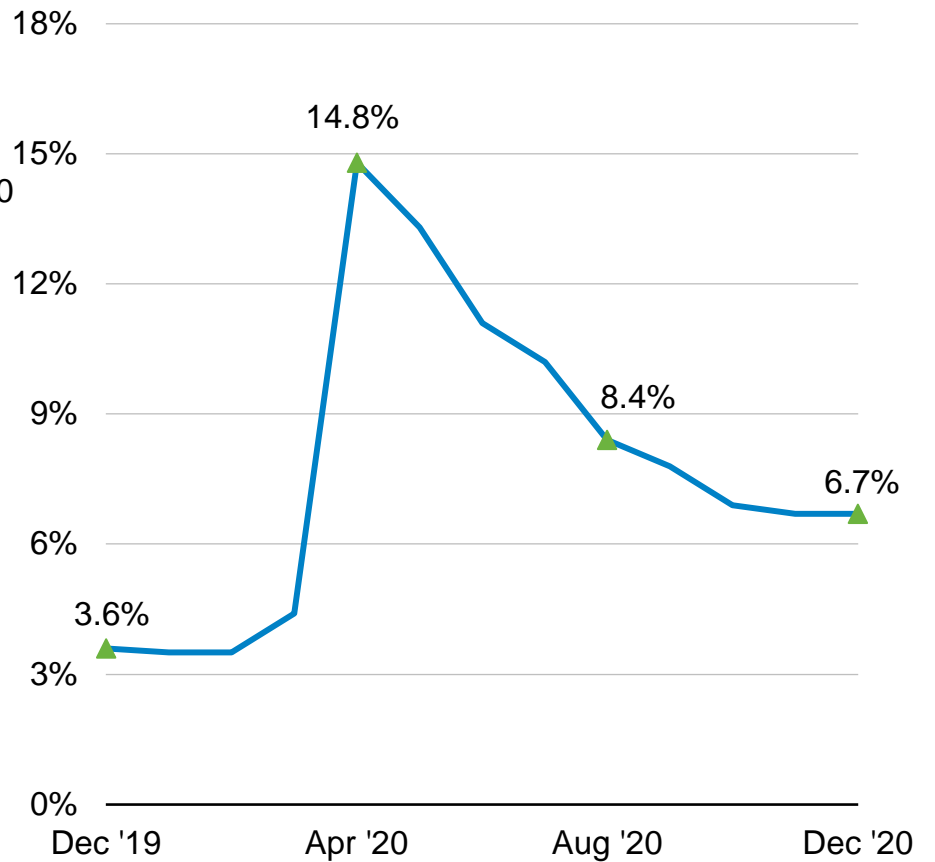


# Jobs Decline for the First Time Since April

**Monthly Change in Nonfarm Payrolls**



**Unemployment Rate**



Source: Bloomberg, as of December 31, 2020.

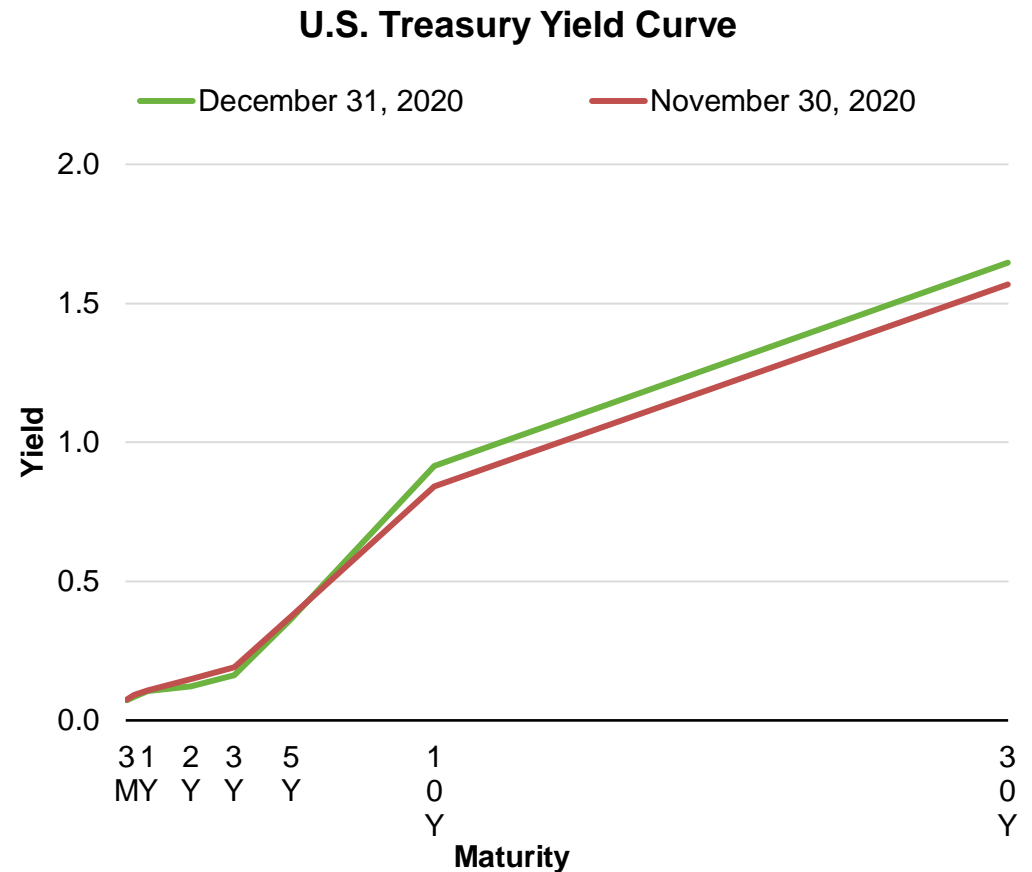




## Yield Curve Steepens in December

- U.S. Treasuries advanced modestly across the curve in December, erasing the slight decline from the prior month.
- Treasuries traded in a very narrow range for most of December.

	11/30/2020	12/31/2020	Change
3 month	0.08%	0.07%	0.00%
6 month	0.09%	0.09%	-0.01%
1 year	0.11%	0.11%	0.00%
2 year	0.15%	0.12%	-0.03%
3 year	0.19%	0.16%	-0.03%
5 year	0.38%	0.36%	-0.01%
10 year	0.84%	0.92%	0.08%
30 year	1.57%	1.65%	0.08%

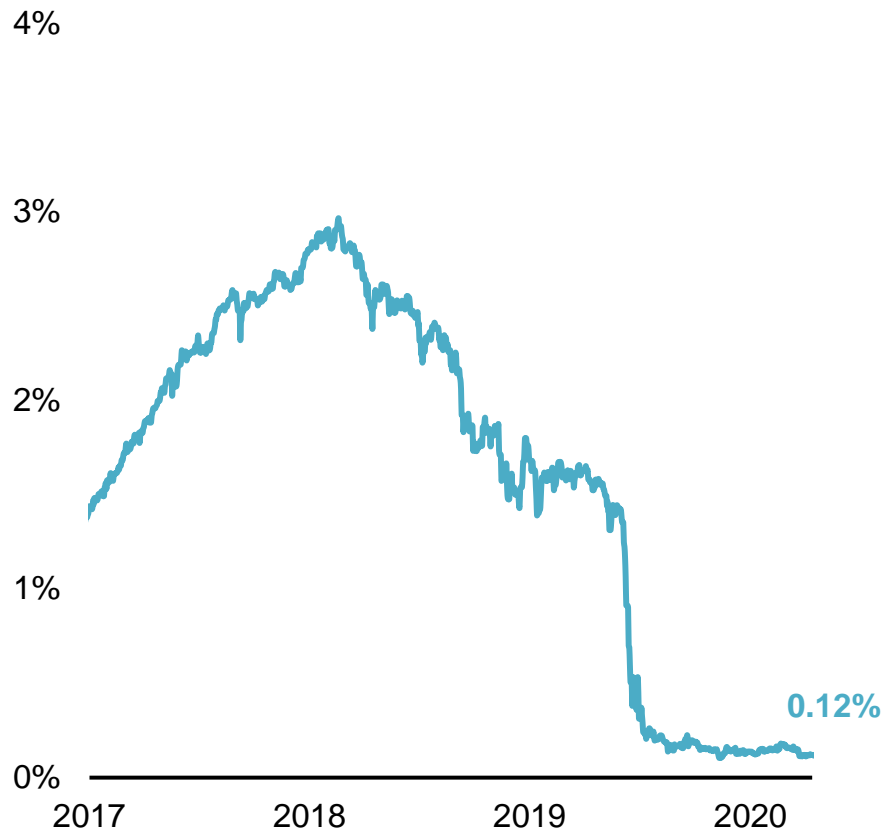


Source: Bloomberg, as of 11/30/2020 and 12/31/2020, as indicated.

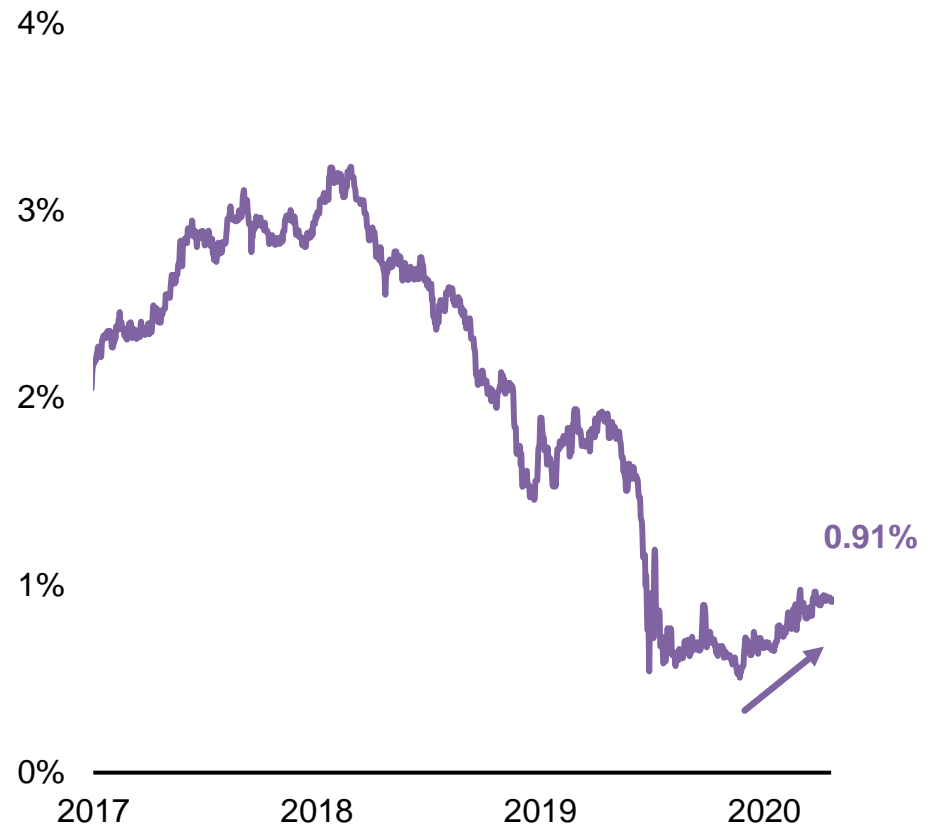


## Treasury Yields Continue to Trade in a Narrow Range

### 2-Year Treasury Yield



### 10-Year Treasury Yield

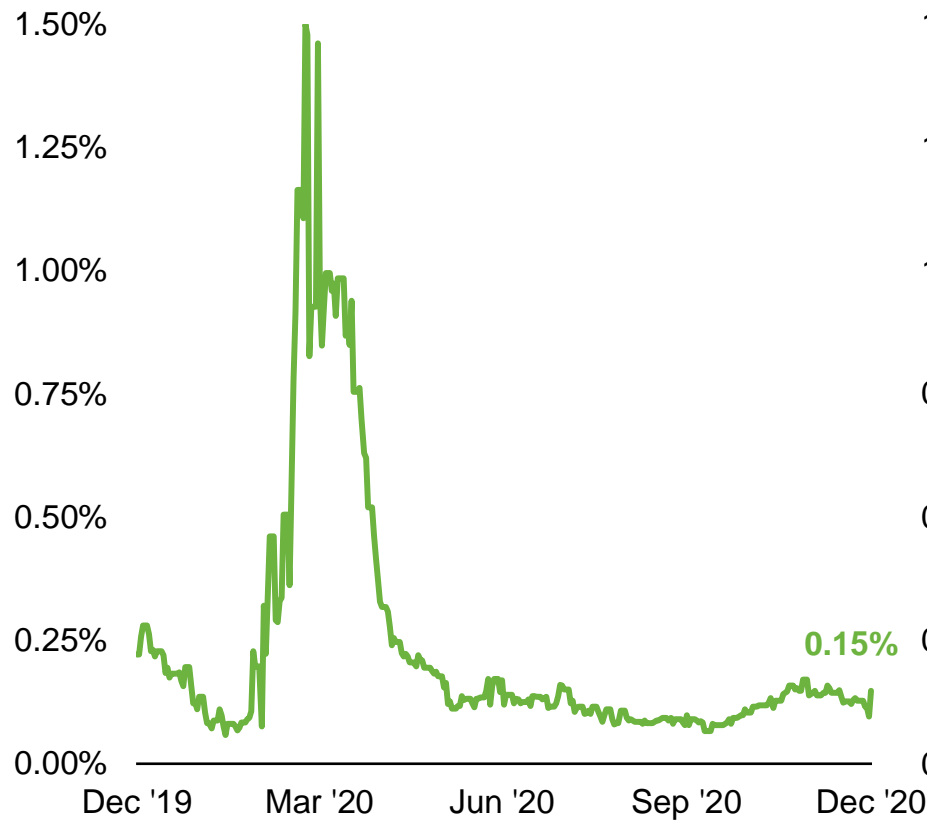


Source: Bloomberg, as of 12/31/2020.

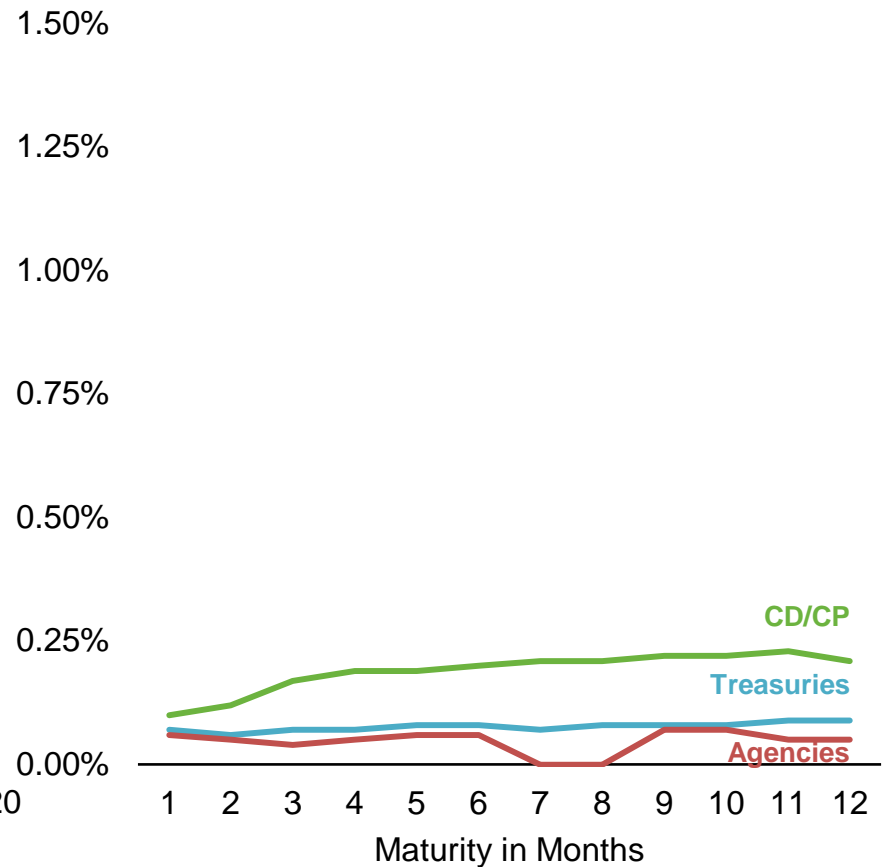


# Yield Spreads Remain Near Historic Lows

**Yield Spread on 6-month Commercial Paper over T-Bill**



**Money Market Yield Curves**



Source (left): Federal Reserve Bank of St. Louis FRED Database, as of 12/31/2020. Source (right): PFM Trading Desk, as of 12/31/2020.



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*CDARS holdings and Bank Deposits are not managed by PFMAM, and therefore we cannot guarantee the accuracy of holdings.*



# Overview of Operating Budget Drivers

Finance and Budget Committee – January 28, 2021

District of Columbia Water and Sewer Authority



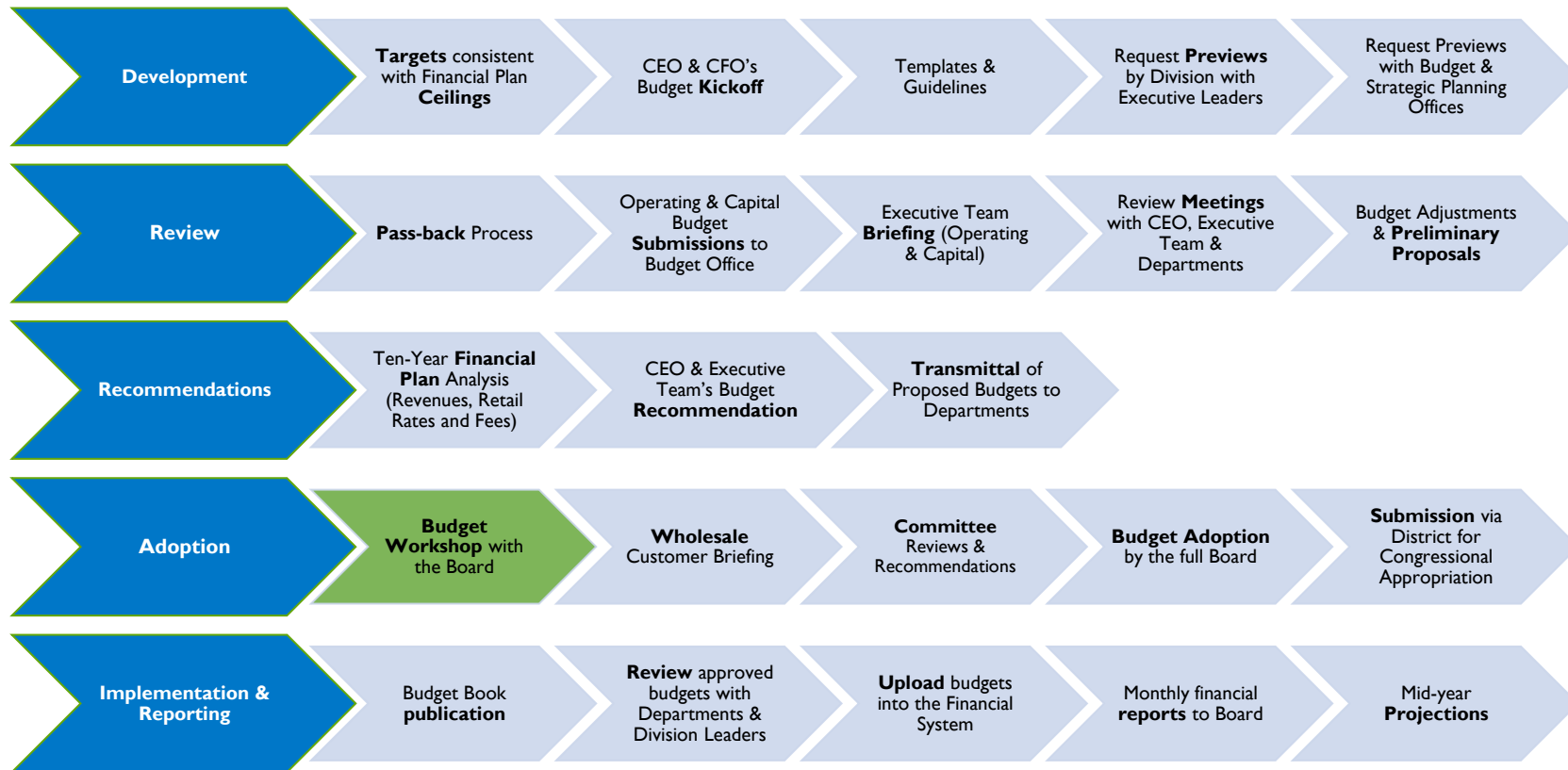


## Purpose

- 💧 Provide overview of the annual budget process
- 💧 Provide overview of curtailment measures in response to COVID-19 impacts
- 💧 Provide FY 2020 operating budget performance update
- 💧 Review FY 2021 forecasts, operating budget drivers and historical trends



# Budget Process





## DC Water COVID Response – FY 2020

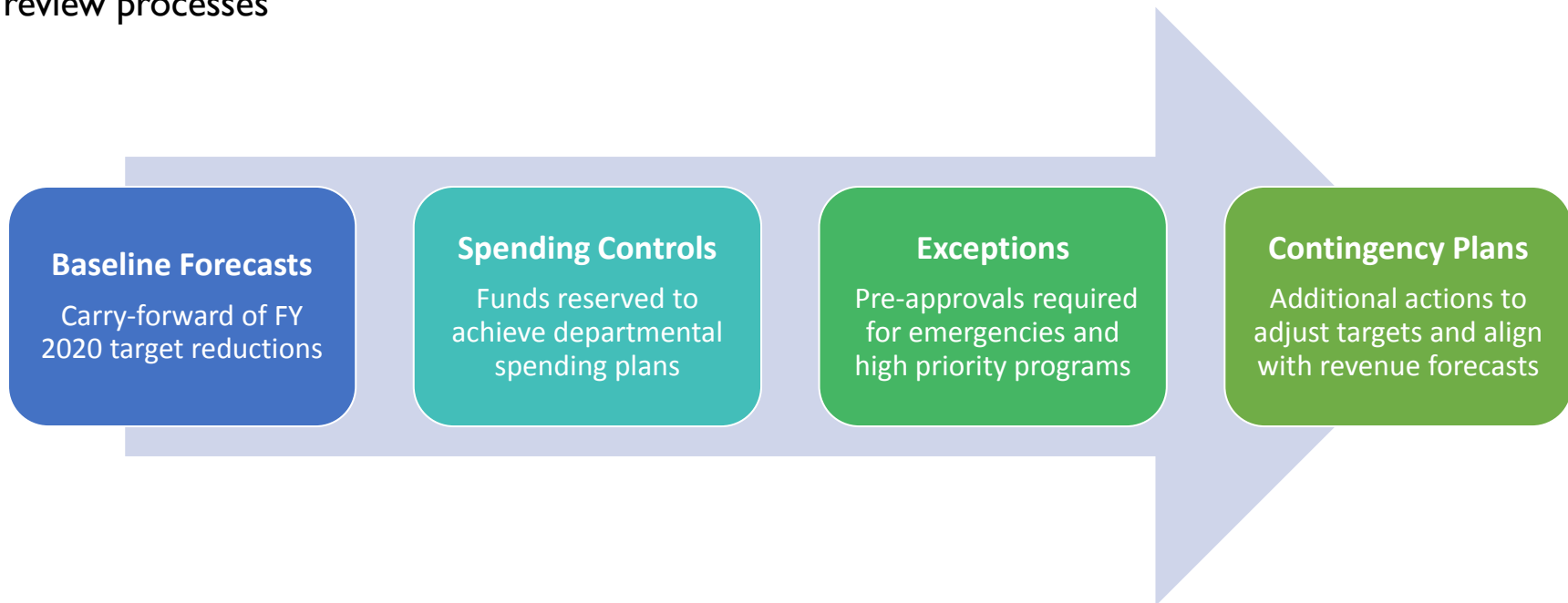
- 💧 DC Water ensured the continuity of operations by prioritizing the safety of employees, maintaining operational facilities, and providing vital services to our customers during the COVID pandemic
- 💧 FY 2020 departmental spending plans were developed to reduce \$20 million from the approved operating budget by pausing some hiring and delaying non-critical purchases and activities
  - Deferred proactive inspections, repairs and maintenance on equipment
  - Reduced hours for professional services e.g. field controllers, calibration & instrumentation, low voltage, automotive maintenance, internal audit etc.
  - Reduced various services based on lower than anticipated costs for litigation, claims, biosolids hauling, software maintenance and claims, with risks being monitored
  - Reduced purchase of office supplies, custodial supplies, promotional items and specialized equipment
  - Suspended DC Water sponsored events, travels, training and conferences due to COVID-19 pandemic
  - Proceeded with hiring efforts for critical positions only, and curtailed overtime
- DC Water achieved the \$20 million target reductions and additional underspending from other areas due to favorable prices for chemicals and electricity, and lower water purchases due to decline in consumption





## DC Water COVID Response – FY 2021

- Decline in water consumption is expected to continue in FY 2021 with reduced level of cash receipts and revenue forecasts
- Management will continue to monitor revenue, adjust (either upward or downward) expenditure forecasts and apprise the Committee as part of the annual budget development and mid-year budget review processes



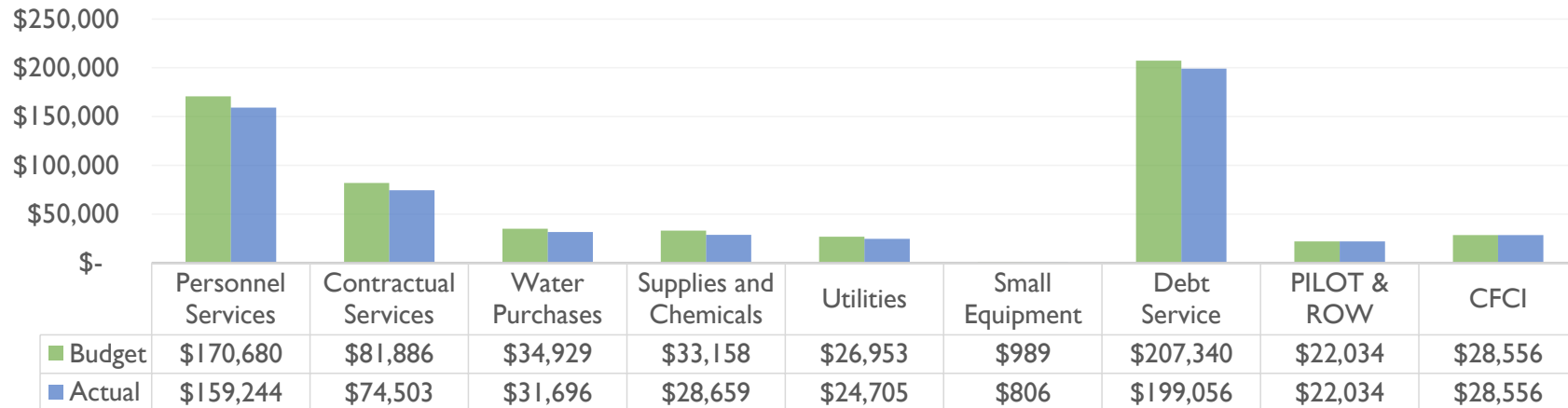


# FY 2020 Operating Budget Performance

- DC Water ended the fiscal year 2020 with strong financial results and a “clean” audit opinion
  - Operations and Maintenance (O&M) - \$29.0 million below budget mainly from personnel (pause in hiring, lower benefits and reduced overtime), fixed costs (favorable prices from chemicals and utilities), water purchases and contractual services (spending reductions to achieve targets)
  - Debt Service - \$8.2 million below budget consistent with the FY 2021 adopted financial plan and includes the refunding of the 2013 Series A bonds
  - Cash Financed Capital Improvement (CFCI) – With favorable O&M position, these funds were fully utilized for pay-go financing

\$ in thousands

**FY 2020 Budget vs. Actual Operating Expenditures**

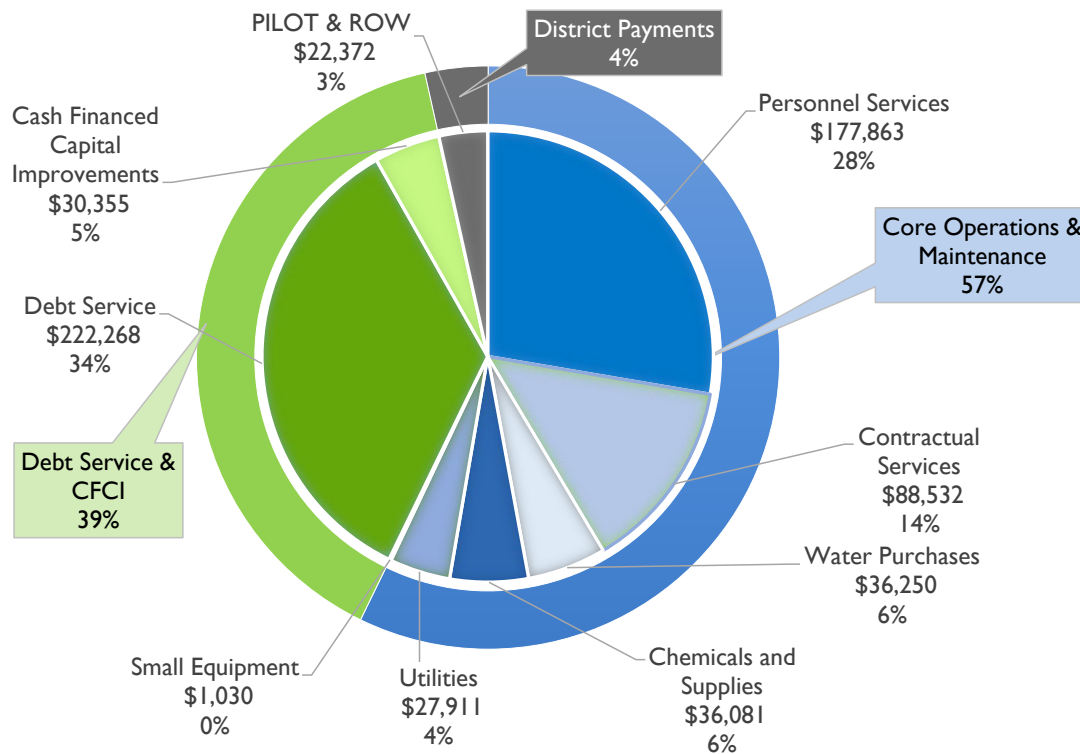




# Approved FY 2021 Operating Budget

\$ in thousands

- DC Water’s operating budget includes the operations & maintenance (O&M), debt service & Pay-Go and District payments
- Spending forecasts are \$20 million below the Board-approved budget due to reduced revenues forecast



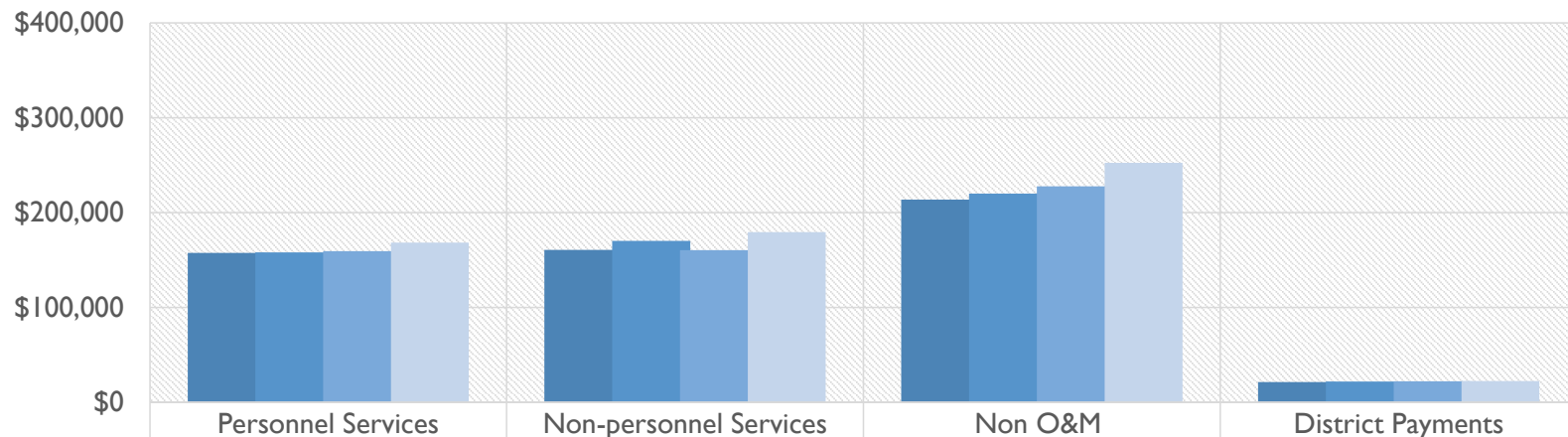


# Operating Budget Trends

- Core Operations & maintenance (O&M) costs for personnel and non-personnel services have been consistently stable with average growth of 3% - 4% per year
- Debt service continues to be the largest driver of the operating budget, at 35% of the overall FY 2020 expenditures and 36% of the FY 2021 forecast

\$ in thousands

Annual Operating Expenditures



	Personnel Services	Non-personnel Services	Non O&M	District Payments
■ FY 2018 Actual	\$157,635	\$160,611	\$213,659	\$21,379
■ FY 2019 Actual	\$157,979	\$170,125	\$220,034	\$21,702
■ FY 2020 Actual	\$159,244	\$160,369	\$227,612	\$22,034
■ FY 2021 Forecast	\$168,209	\$179,299	\$252,623	\$22,372



## Fixed and Variable Cost Drivers

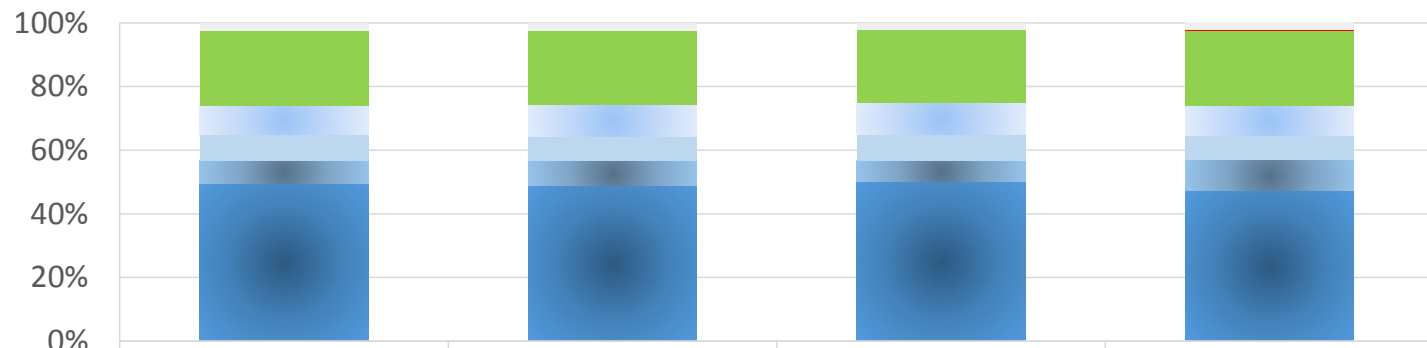
- Fixed costs are considered non discretionary in nature and mainly for unavoidable and uncontrollable services such as
  - Union agreement – salaries and benefits for approx. 67% of DC Water’s workforce
  - Market Driven – Chemicals and energy costs
  - Purchase of water from the Aqueduct
  - Debt service and fees required for capital investments
- Variable costs are based on operational business needs, strategic priorities and other discretionary items such as
  - Overtime used for emergency repairs
  - Contractual services for operations and maintenance of equipment, vehicles, buildings; software maintenance, employee training, etc.
  - Small tools and equipment



## O&M: Fixed and Variable Costs

- Approximately 75% of core operations and maintenance (O&M) costs is fixed, including personnel costs

BREAKDOWN OF FIXED AND VARIABLE COSTS



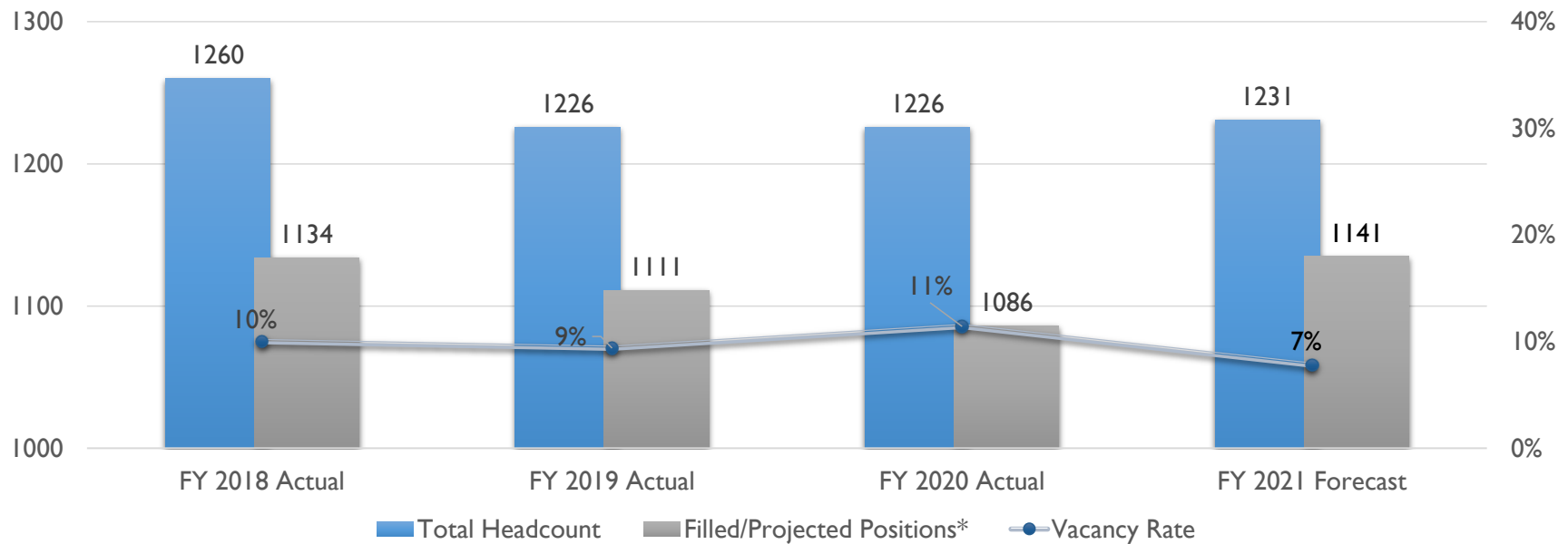
	FY 2018 Actual	FY 2019 Actual	FY 2020 Actual	FY 2021 Forecast
Variable: Supplies	2%	2%	2%	2%
Variable: Small Equipment	0%	0%	0%	0%
Variable: Contracts	24%	24%	23%	24%
Fixed: Water Purchase	9%	10%	10%	10%
Fixed: Utilities	8%	8%	8%	8%
Fixed: Chemicals	7%	8%	7%	10%
Fixed: Personnel	50%	50%	50%	48%



# Personnel - Headcount

- 🔹 FY 2021 Board-approved headcount of 1231 includes the five new positions
- 🔹 FY 2021 forecast reflects position reclassifications to date, current recruitment efforts and anticipated hiring process for critical positions, with an overall vacancy rate of 7% compared to historical average of 10%

**Historical & Projected Headcount**

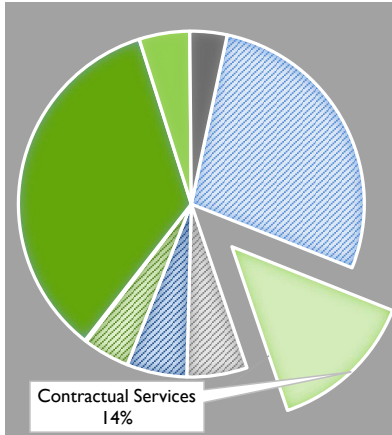


\* The projected positions for the FY 2021 forecast excludes unfunded vacancies

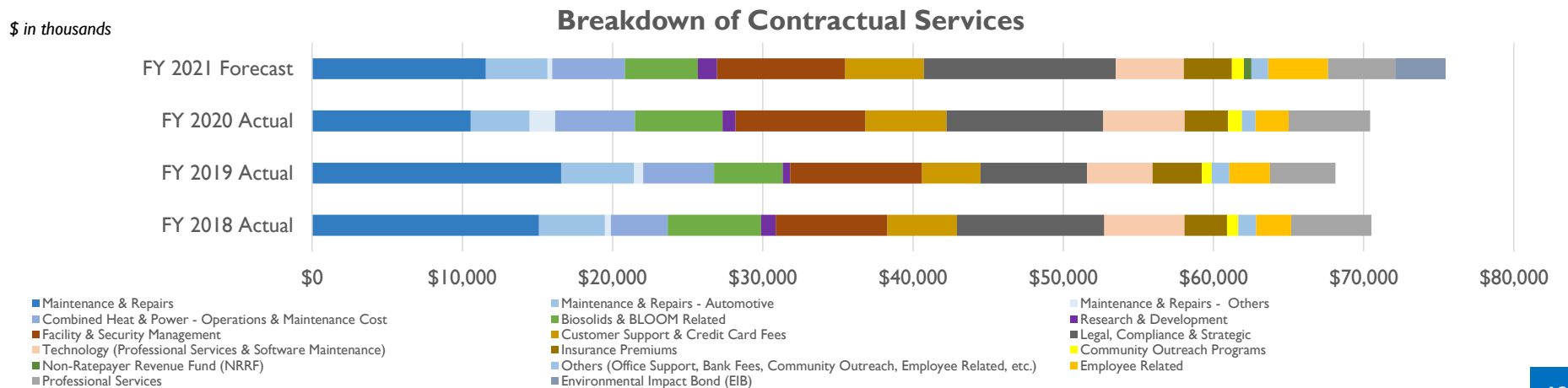




# Contractual Services



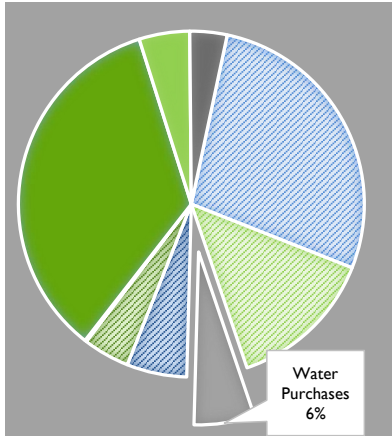
- Approximately 62 percent of the contractual services budget is for infrastructure maintenance, legal and compliance requirements
- FY 2020 expenditures were lower than prior years due actions taken in response to the COVID impacts such as deferred proactive inspections, repairs and maintenance on equipment and reduced hours for professional services e.g. field controllers, calibration & instrumentation, and low voltage services
- FY 2021 forecast reflects continued focus on spending reductions to align with reduced revenue forecasts and funding requirements to cover new, high priority and compliance programs





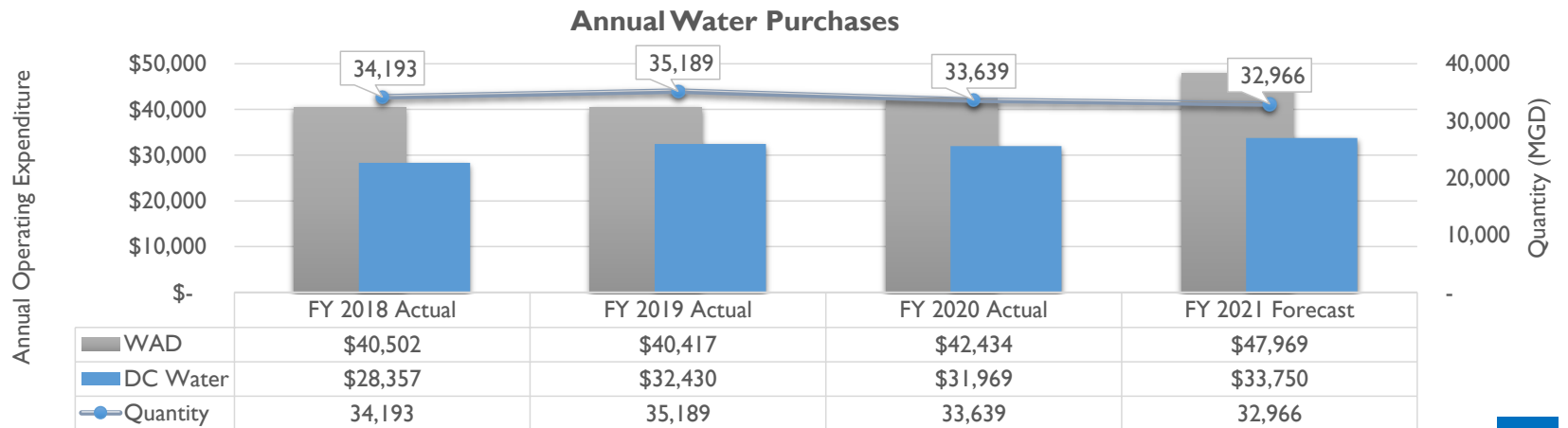


# Water Purchases



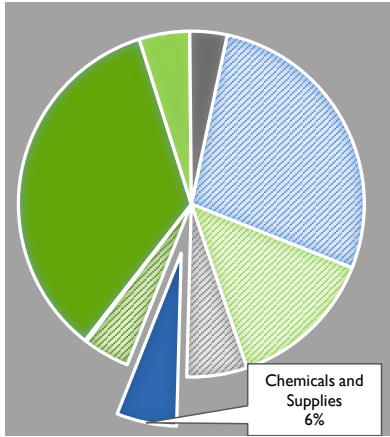
- DC Water purchases water from the Washington Aqueduct (WAD)
  - Responsible for approximately 75% of the Aqueduct’s operating costs based on proportionate share of water sold
  - Annual water rates are set based on the approved budget, including historical budget performance and consumption trends
- Water purchases reduced by 4.8% or 1,550 MGD during the last 6 months of FY 2020 due to the COVID pandemic, with an overall decline of 4.4% for the year
- FY 2021 forecast assumes continued decline in water demand

\$ in thousands





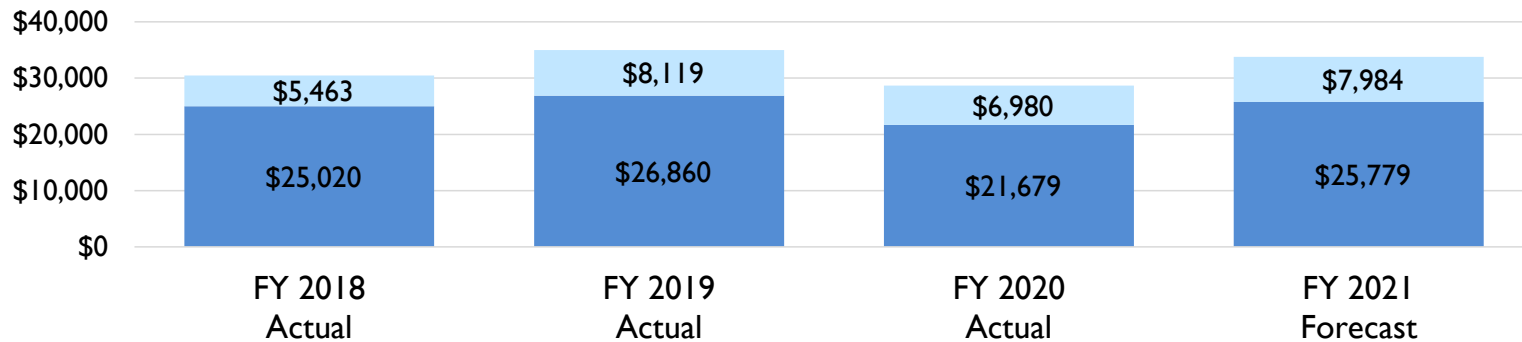
# Chemicals & Supplies



- Chemicals are used in the treatment processes at the Plant and various pumping facilities
  - Impacts include market volatilities of major chemicals (methanol, sodium bisulfite and ferric chlorite), utilization in the Tunnel Dewatering Pump Station (TDPS), and concentration of the influent
  - The lower expenditure in FY 2020 was mainly due to lower prices for major chemicals and reduced load based on less tourists visiting the District during the pandemic
  - FY 2021 forecast assumes slight increases in the unit prices of some chemicals (e.g. methanol increased from \$0.1528 per pound in October 2020 to \$0.2088 per pound in December 2020)
- Supplies include the purchases of parts for water lines, mains and pumping station repairs; and pays for the uniforms and shoes for our working crews as required by the union agreement

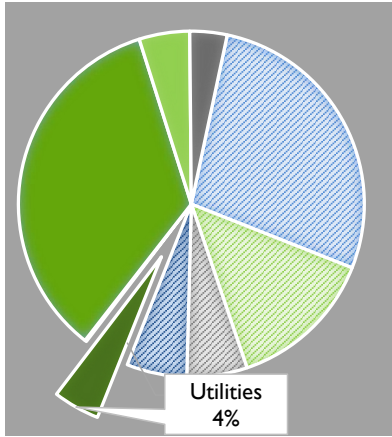
\$ in thousands

Annual Chemicals & Supplies Expenditures



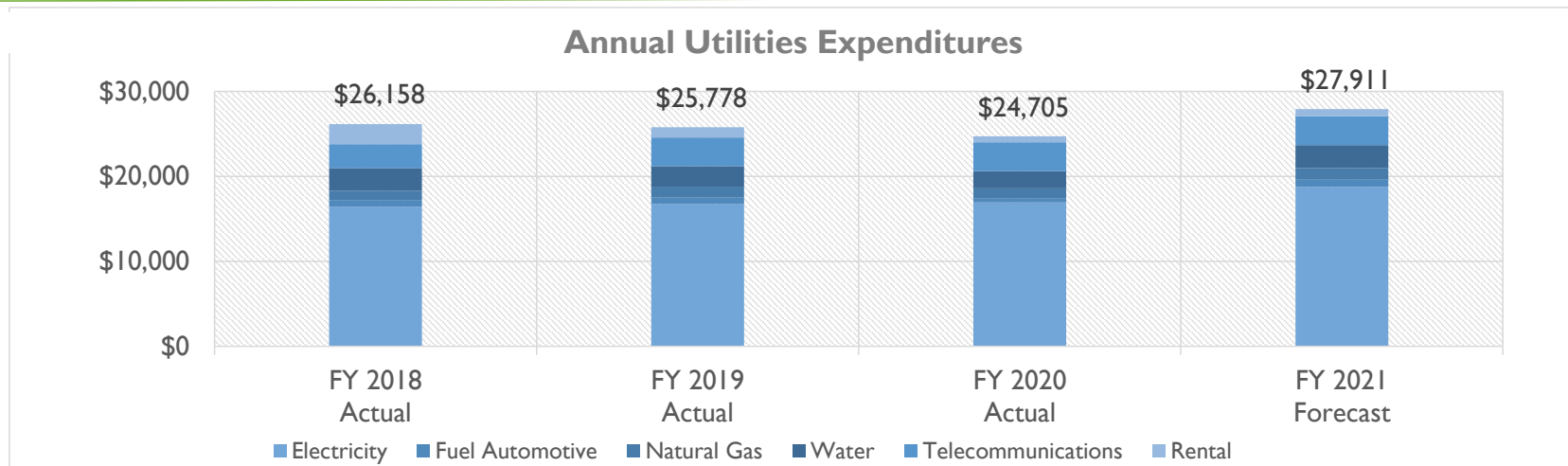


# Utilities



- 💧 One of the largest drivers of the operating budget is electricity costs
  - Onsite electric generation from the Combined Heat & Power facility continues to reduce costs and DC Water’s reliance on the power grid (6MW in FY 2020)
  - DCWater also hedges blocks of its electric load to mitigate the price volatility in energy markets (5MW in FY 2021)
- 💧 Reduced costs in water usage on the Plant was from changes made in the treatment process and comparatively reduced flow on the Plant
- 💧 FY 2021 forecasts remain at the approved level as we continue to monitor the impacts of the energy market and hedge additional electric loads

\$ in thousands



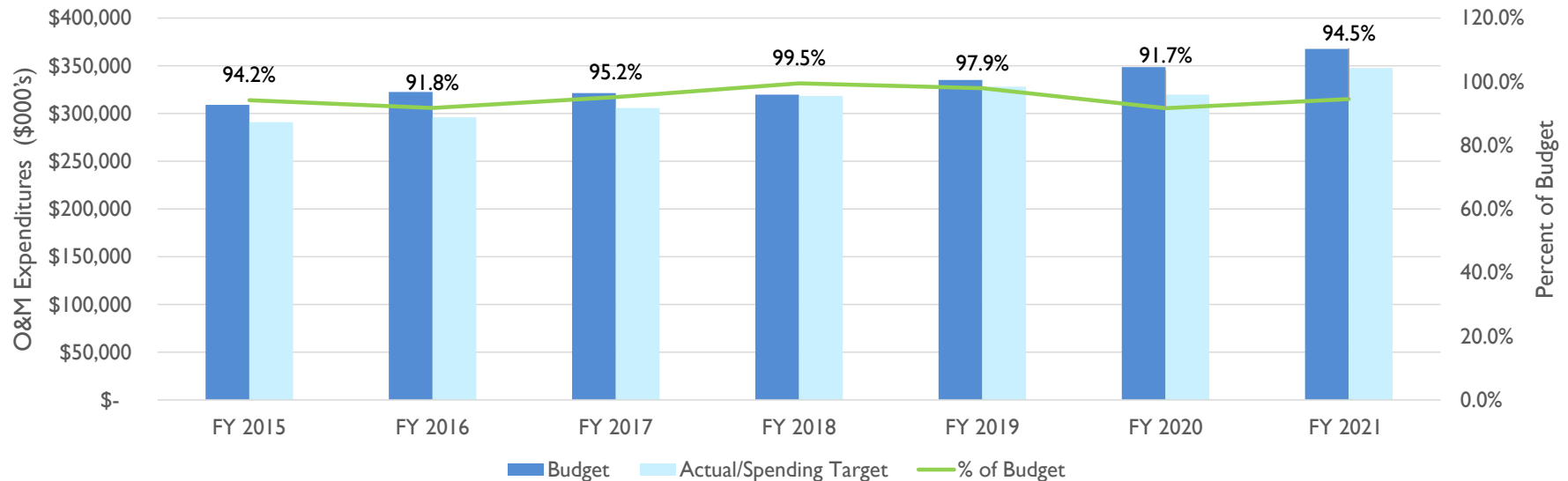


# Historical Budget Performance

\$ in thousands

- DC Water is committed to tightening its budget in an effort to reduce significant budget surpluses and better align with historical cost trends
- DC Water maintains strong financial management and continues to prioritize and fund new programs to improve operational efficiencies within overall Board-approved budgets

Budget vs. Actual O&M Expenditures





## Budget Risks and Mitigation Strategy

- As with any operational business and DC Water's budgets developed almost two years in advance of the fiscal year, inherent risks include -
  - Crude oil and energy market volatilities (energy and chemicals)
  - New requirements (regulatory, technology, tunnels and operational facilities)
  - Aging infrastructure (repairs, overtime for water main breaks and sewer backups)
  - Litigations for unanticipated large legal cases
  - Claims and insurance premiums
  - Increase in employee medical benefits based on industry trends and regulations
- Mitigation Strategy –
  - Monthly reviews with departments to gain insight into budget pressures
  - Mid-year projections and periodic forecasts for monitoring spending
  - Implement strategic spending restrictions and redirect funds to prioritized needs
  - Cash Financed Capital Improvement Fund is also available as contingency for emergencies, with unutilized funds transferred to pay-go at the end of the year



## Next Steps

- 💧 Deliver the proposed FY 2022 budgets in February 2021
  - Revenue – Cost recovery within approved rate proposals
  - Expenditure - Funds operating budget priorities consistent with the financial plan goals
  - Capital Program - Address system infrastructure priorities
- 💧 Conduct reviews and recommendations with the various Board Committees and Wholesale Customer in February and March 2021
- 💧 Budget Adoption in April 2021



ATTACHMENT 3

District of Columbia Water and Sewer Authority  
David L. Gadis, CEO and General Manager

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*Briefing on:*  
***Environmental Impact Bond Final Report***

*Briefing for:*  
***Finance and Budget Committee***

January 28, 2021



# Agenda

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- Background
- Pre-construction predictions from 2016
- Construction of Rock Creek Project (RC-A)
- Post-Construction Assessment
- Findings and Lessons Learned

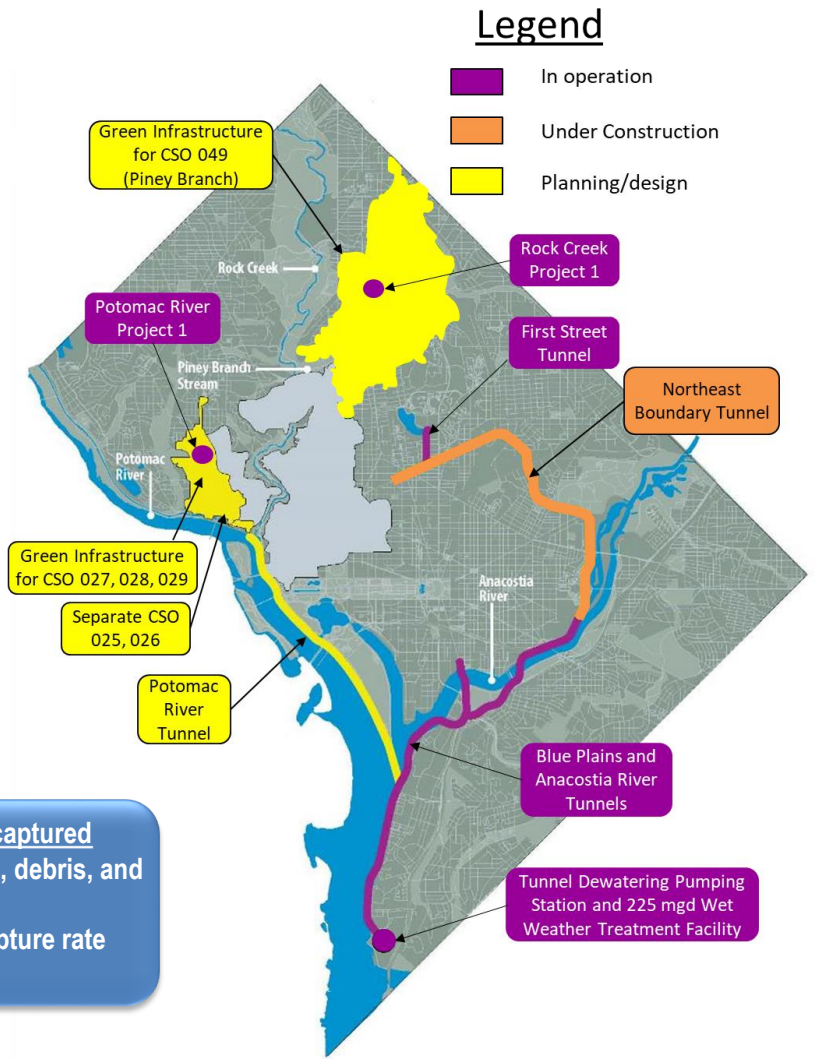




# Background DC Clean Rivers Background

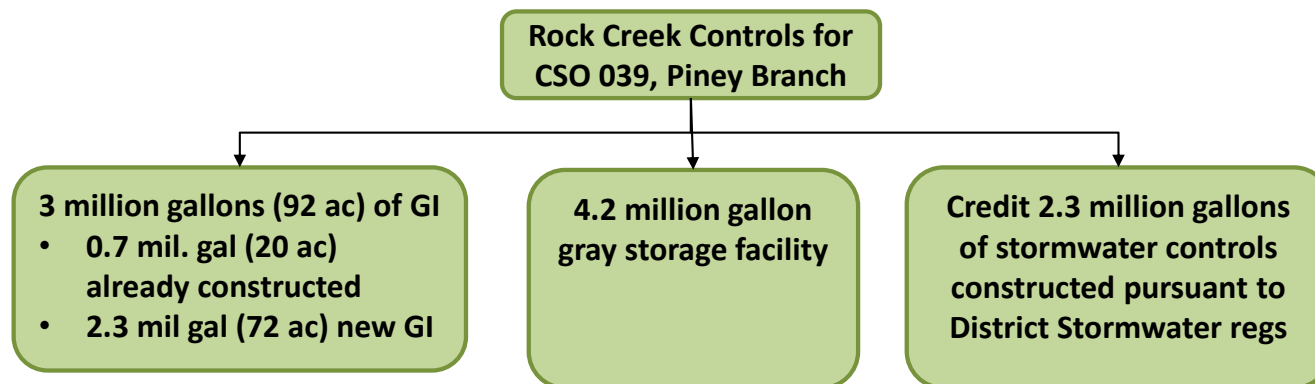
Month	Rainfall, DCA Gauge (in)	Volume Captured by Tunnel (MG)	Measured Overflow (MG)	% captured
March 20 -31, 2018	1.48	20	0	100%
April 2018	3.59	249	10	96.0%
May 2018	8.73	860	13	98.5%
June 2018	5.21	265	47	85.0%
July 2018	9.73	679	260	72.3%
August 2018	5.19	334	14	95.9%
September 2018	9.73	784	116	87.1%
October 2018	3.06	164	0	100%
November 2018	7.57	777	5	99.3%
December 2018	5.82	468	100	82.3%
January 2019	3.30	259	0	100%
February 2019	3.52	74	0	100%
March 2019	4.00	337	46	87.9%
April 2019	2.24	77	0.1	99.9%
May 2019	4.97	311	1	99.7%
June 2019	4.27	134	0.1	100%
July 2019	6.49	339	77	81.4%
August 2019	1.99	186	22	89.3%
September 2019	0.25	19	0	100%
October 2019	6.66	450	18	96.2%
November 2019	1.37	55	0	100%
December 2019	2.80	80	0	100%
January 2020	2.79	150	0	100%
February 2020	3.21	143	0.6	99.6%
March 2020	2.31	38	0	100.0%
April 2020	6.30	338	127	72.7%
May 2020	2.49	169	0	100.0%
June 2020	3.51	205	0	99.9%
July 2020	6.51	265	2	99.2%
August 2020	8.73	463	52	89.8%
September 2020	5.53	267	186	59.0%
October 2020	4.86	264	6	97.6%
November 2020	6.14	456	25	94.7%
December 2020 (DRAFT)	4.96	430	1	99.8%
<b>Total</b>	<b>159.31</b>	<b>10,106</b>	<b>1131</b>	<b>89.9%</b>

- Over 10 billion gallons captured
- Over 4,500 tons of trash, debris, and other solids captured
- Exceeding predicted capture rate (>80%)



## Completed: Rock Creek GI Practicability Assessment Per Consent Decree

- ✓ Board approved approach in June 2020
- ✓ Approved by EPA 11/23/20
- ✓ Non-material Consent Decree Modification filed in Federal Court on 12/22/20
- Provides for hybrid approach:

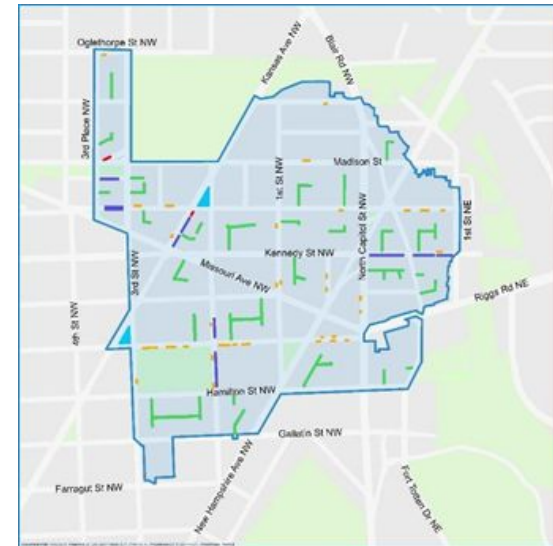


*DC Water will be implementing next GI projects in Rock Creek*



## Background Environmental Impact Bond

- DC Water issued EIB with a principal of \$25M
  - Purchasers of the bond are Goldman Sachs Urban Investment Group (GSUIG) Real Estate Member LLC and Calvert Social Investment Foundation Inc.
  - EIB is “*Public Utility Subordinate Lien Multimodal Revenue Bonds Series 2016B*”
- Financed first GI Project in Rock Creek (RC-A)
  - Modeled after “Pay for Success” Social Impact Bonds
  - Investors repaid based upon the effectiveness of GI in managing the volume of stormwater runoff
    - Greater volume managed will result in a larger repayment to investors
    - Lower volume managed will result in a smaller repayment to investors
- GI has never been constructed on a large scale in the District, so the EIB served as a hedge for the effectiveness of GI in managing stormwater



## 2016 Preconstruction Predictions Monitoring and Modeling

- Documented in
  - “*Environmental Impact Bond Technical Evaluation Memorandum, dated September 13, 2016*”
  - Included in Exhibit D of the Private Placement Agreement
- Flow and rainfall monitoring & modeling to predict performance of GI
- Pre-construction monitoring period:
  - March 1, 2016 – June 2, 2016, used for EIB calibration



## 2016 Preconstruction Predictions Sensitivity Analysis Results

- Best- and worst-case scenarios evaluated using range of GI performance parameters
- Performed Monte Carlo analysis with 1000 simulations

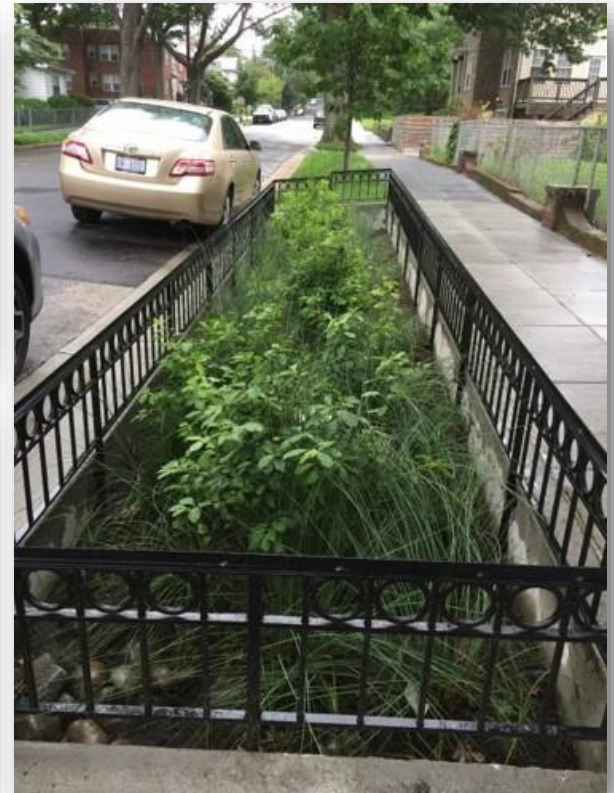
Percentile	Percent Reduction	Range
Adjusted 95 <sup>th</sup> Percentile	41.3%	} 23%
Adjusted 5 <sup>th</sup> Percentile	18.6%	

- EIB Outcome Range

Tier	Runoff Reduction	Payments
1	Greater than 41.3%	DC Water pays Outcome Payment of \$3,300,319.00 to Purchasers
2	18.6% to 41.3%	No Outcome Payment or Risk Share Payment
3	Less than 18.6%	Purchasers pay Risk Share Payment of \$3,300,319.00 to DC Water



## RC-A Construction Examples of Constructed Facilities



**109 facilities in metered area managing more than 19 impervious acres**

## RC-A Construction Retrofits Made During Post-construction Monitoring

- Underdrain Gate
  - Observation: Excessive leaking around seal on flapper-style gates resulted in GI practices releasing flows at a higher rate than design draw downtime of 48 hours
  - Retrofit: Flow Restriction Device (FRD) flapper gates were replaced with either a mechanical plug or a straight fit gate
  - Result: Improved the stormwater capture
- Alleys
  - Observation: During high intensity storms, flow by-pass occurred for Alley Permeable Pavement facilities (APP), while facility has storage
  - Retrofit: FRD access solid cast iron lid covers were replaced with slotted cast iron grate covers, and a stainless-steel filter basket inserted into the riser pipe to protect the facility from sedimentation and debris.
  - Result: Increased the volume of water reaching the aggregate storage, similar to the Enhanced Infiltration Risers (EIRs) in the bioretention practices,
- Retrofits were implemented between November 1, 2019 and January 31, 2020.



FRD – Mechanical Plug



FRD - Straight Fit Gate

## RC-A Construction Maintenance

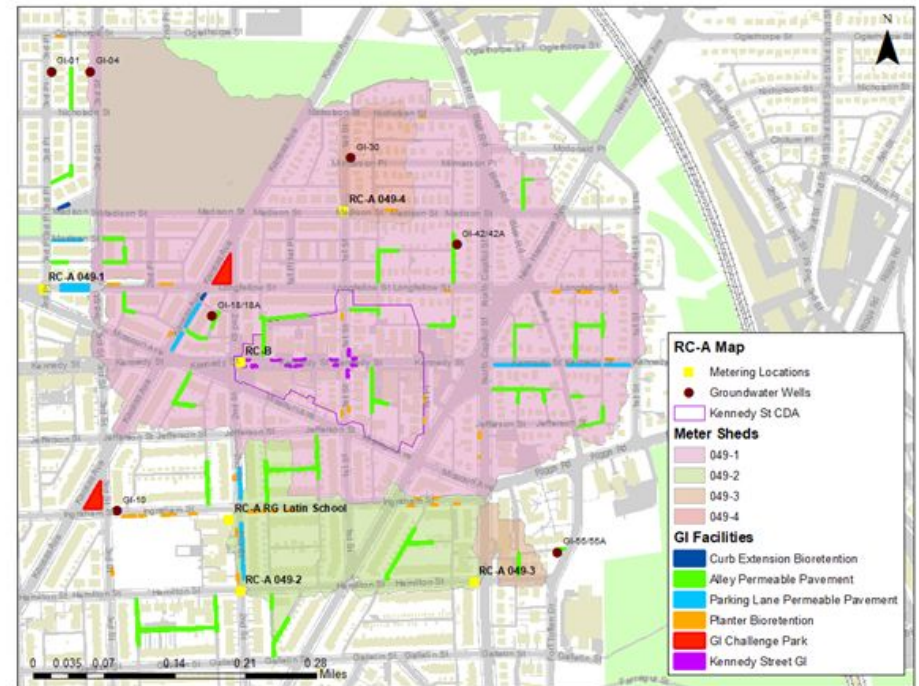
- Facilities were properly maintained throughout monitoring period
  - Preventative maintenance
  - Corrective maintenance

Facility Type	Frequency	Maintenance Activities
Curb Extension Bioretention (CBR) & Planter Bioretention (PBR)	Monthly	Trash, weed, leaves, debris, and dead plant removal. Inspect for erosion. Check for missing signs. Remove sediment. Inspect cleanout, underdrains, and dry well grate inlets and note any standing water.
	Quarterly	Inspection of system for hydraulic function, mitigation of clogging. Replace gravel or river rock in eroded areas.
	Annually	Trim grasses and perennials, prune shrubs.
Alley Permeable Pavement (APP) & Parking Lane Permeable Pavement (PPP)	Monthly	Vacuum sweep and remove debris from enhanced infiltration baskets. Inspection and removal of trash, leaves, sediment, and weeds.
	Quarterly	Inspect structures for blockages and sediment and inspection and correction of settlement or heaving.
	Annually	Inspect the surface and underdrain system by flushing to verify flow and exfiltration. Repair any damaged or displaced pavers.



## Post-Construction Assessment Post-Construction Monitoring

- Sewershed, rainfall & groundwater – 19 months (Mar 1, 2019 – Sep 30, 2020)
  - Sewershed and rainfall monitoring locations unchanged for Pre- and Post- monitoring periods
  - Three groundwater monitoring wells (RCAGI-18, RCAGI-42, and RCAGI-55) were relocated in the immediate vicinity as they were sited within the footprint of the GI facilities constructed
  
- GI practice level monitoring
  - More than 70 GI practices monitored for 6.5 months (Mar 12, 2020 – Sep 30, 2020)
  - Representative practices monitored for 17.5 months (Apr 19, 2019 – Sep 30, 2020)



## Post-Construction Assessment Summary of Monitoring Observations

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- Sewer meters cannot be used to fairly compare pre- and post-construction
  - Increase wet weather response in 2019/2020 compared to 2016, based on:
    - Extreme rainfall data
    - RC-A metering data
    - DOEE control shed data
    - Anacostia River Tunnel response data
  - Increase in peak flow rate for large storms after 2019/2020
    - Possible change in flow bypassing
    - Also reflective of increase wet weather response
  
- As a result, DC Water assessed performance using the GI practice monitoring. It's practical to calibrate filling/ emptying of GI practices to observed data and then use this to calculate reduction in wet weather volume.

Use of sewer meters is not a technically sound method of calculating performance given weather conditions & data set

GI practice level data more representative of actual conditions

## Post-Construction Assessment Results

### Average Year Rainfall Conditions (1988, 1989, 1990)

Sewershed	Wet Weather Volume (mg)		% reduction normalized to Impervious Acres Treated (%)
	Pre-Construction	Post-Construction	
Using Sewershed Meters	26.66	24.78	8.10%
Using GI Practice Meters	26.66	22.12	19.56%

Not representative given weather conditions and data set

Technically sound



## Findings

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- Calculating wet weather reduction using the water levels in the GI practices is a more technically sound and representative approach. It is our recommended approach for assessing performance.
- Predicted runoff reduction is estimated at 19.56%, which falls within Tier 2 outcome range established in the EIB

Tier	Runoff Reduction	Payments
1	Greater than 41.3%	DC Water pays Outcome Payment of \$3,300,319.00 to Purchasers
2	18.6% to 41.3%	No Outcome Payment or Risk Share Payment
3	Less than 18.6%	Purchasers pay Risk Share Payment of \$3,300,319.00 to DC Water

## Lessons Learned – Adaptive Management

All facilities

- Improve valves/orifices at underdrain outlets
- Select monitoring sites to reduce stormwater flow bypassing inlets and exiting the monitored shed
- Place practices in series to promote sediment removal
- Monitor at site-level instead of at sewershed level to measure performance



## Lessons Learned – Adaptive Management

### Porous Pavement

- Maximize the space between the pavers to reduce clogging.
- Install sediment traps upstream of alley to remove sediment and distribute clean flow
- Flatten the “V” shape in the alley center to increase surface area for infiltration
- Provide maintenance access to access underdrain & orifice
- Reduce number of checkdams



## Lessons Learned – Adaptive Management

### Bioretention

- Pursue open space facilities that allow for more economical construction
- Install bioretention facilities closer to intersections instead of midblock to limit parking impacts
- Construct high slope or long gutter inlets to reduce flow bypassing along the gutter



### Knowledge gained was extremely beneficial:

- Incorporated into first Potomac GI Project (PR-A)
- Will be applied to subsequent GI projects
- Lessons learned will be shared with industry partners
- Can benefit District's stormwater programs – 2/3 of land area in District

**EXTRA**





## Post-Construction Assessment Extreme Rainfall Data

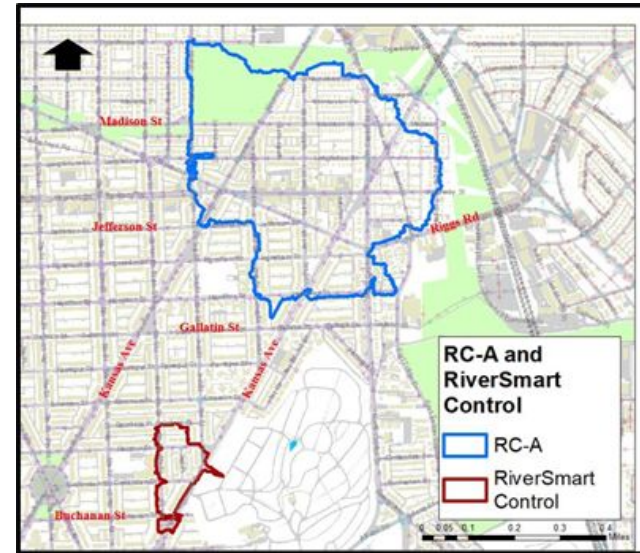
- Post-construction period observed large, intense rain events compared to pre-construction period
- Number of events with peak intensity > 2"/hr is four times greater in post-construction period

Sewershed	RC-A	
Monitoring Period	1/1/2016-1/1/2017 (Pre-Construction)	3/1/2019-9/30/2020 (Post-Construction)
Duration (months)	12	19
No. of Events	70	118
Total Rainfall (inches)	34.5	70.28
Avg rainfall/mo	2.8"/month	3.7"/month
Events < 0.25"	3.76" (25 events)	5.88" (36 events)
Events between 0.25" - 0.5"	7.8" (23 events)	12.34" (34 events)
Events between 0.5" - 1.0"	19.82" (14 events)	17.31" (27 events)
Events between 1.0" - 1.5"	3.4" (3 events)	12.19" (11 events)
Events between 1.5" - 2.0"	5.57" (3 events)	8.38" (5 events)
Events > 2.0"	4.15" (2 events)	14.18" (5 events)
Max intensity between 1.0"/hr – 2.0"/hr	7 events	20 events
Max intensity > 2.0"/hr	7 events	28 events



## Post-Construction Assessment DOEE Control Shed Data

- Control shed from DOEE’s Riversmart LID Program.
- Located in the Piney Branch sewershed about 2,400 feet southwest of the RC-A shed
- Control shed is unchanged for the period evaluated
- Increased wet weather volume from 2015/2016 to 2019/2020 for all rainfall event sizes.

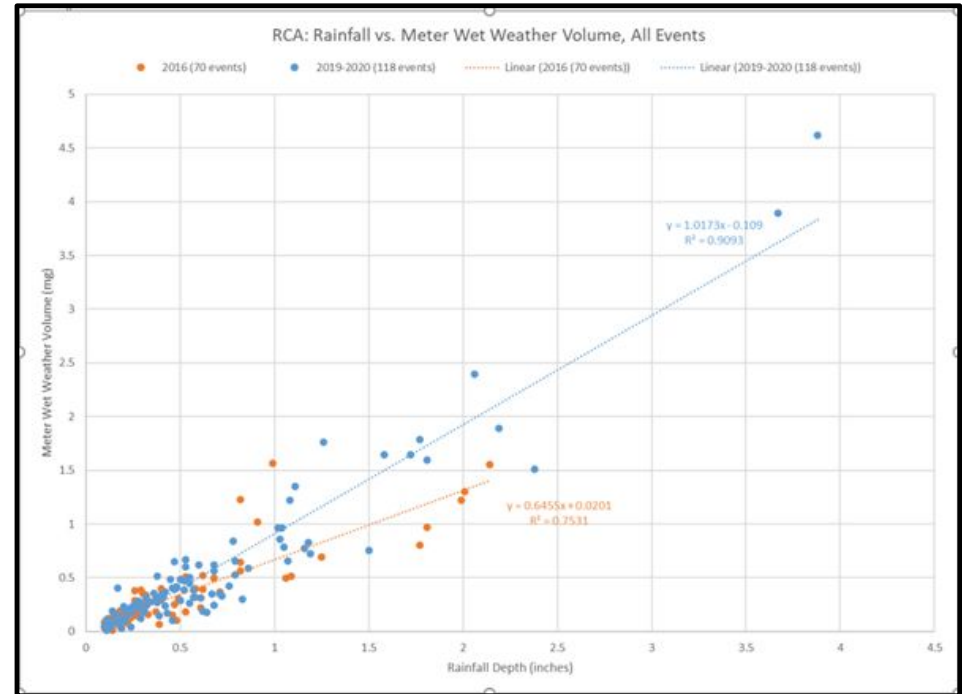


Sewershed	DOEE RiverSmart - Control	
	6/1/2015 – 5/31/2016	6/1/2019 – 6/30/2020
Monitoring Period	6/1/2015 – 5/31/2016	6/1/2019 – 6/30/2020
No. of Events	20	64
Total Rainfall (inches)	6.55	29.81
Events < 0.25"	1.63" (1 event)	4.6" (27 events)
Events between 0.25" - 0.5"	1.58" (4 events)	5.63" (16 events)
Events between 0.5" - 1.0"	2.32" (4 events)	9.24" (14 events)
Events between 1.0" - 1.5"	1.02" (1 event)	4.83" (4 events)
Events between 1.5" - 2.0"	0" (0 events)	3.19" (2 events)
Events > 2.0"	0" (0 events)	2.32" (1 event)
Max intensity between 1.0"/hr – 2.0"/hr	1	6
Min max intensity > 2.0"/hr	0	7
MG WWF per inch of rain (all events)	0.12	0.15
MG WWF per inch of rain (events < 1")	0.12	0.14
MG WWF per inch of rain (events ≥ 1")	0.09	0.17



## Post-Construction Assessment RC-A Metering Data

- Increased wet weather volumes, for all events.
- Events less than 1":
  - Decreased from 0.75 mg/inch pre to 0.73 mg/inch post
  - GI practices are having an impact, even during an overall wetter period
- Events greater than 1":
  - Increased from 0.58 mg/inch pre to 0.94 mg/inch post
  - Flow bypassing may be reduced by GI

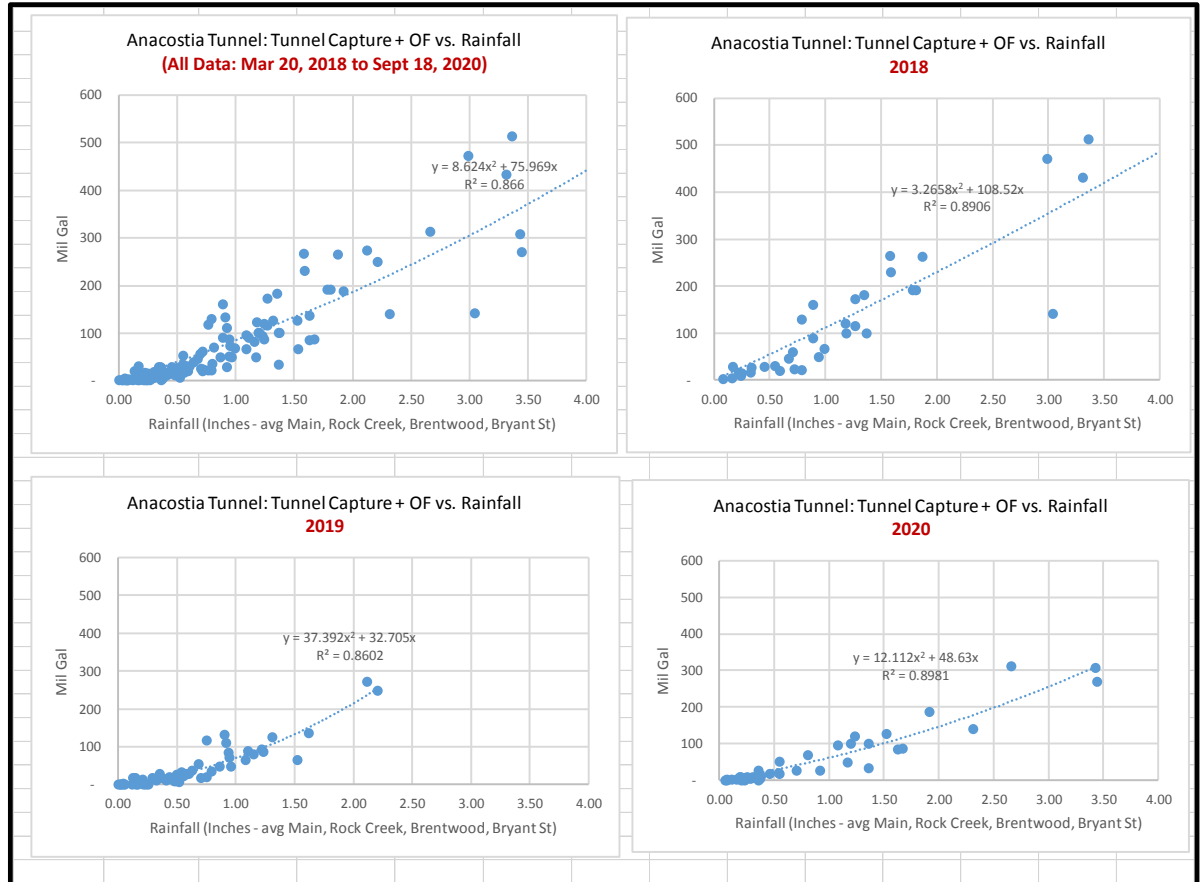


Sewershed	RC-A	
Monitoring Period	1/1/2016-1/1/2017 (Pre-Construction)	3/1/2019-9/30/2020 (Post-Construction)
No. of Events	70	118
Total Rainfall (inches)	34.5	70.28
MG WW volume per inch of rain (all events)	0.69	0.83
MG WW volume per inch of rain (events < 1")	0.75	0.73
MG WW volume per inch of rain (events >= 1")	0.58	0.94

# Post Construction Assessment Anacostia River Tunnel Response Data

- Tunnel capture (mg/inch of rain) varies depending on rainfall period chosen
- Selection of different model calibration periods for pre- and post-construction monitoring can yield different results based on relative difference in rainfall conditions during that period
- Indicates importance of model calibration period on its applicability to the future predictions.

Parameter	Rainfall (in/yr)	Total Capture, Q (MG) for Rain Events (0.5" thru 2.0")			
		0.5"	0.75"	1.0"	2.0"
Rainfall					
2018-2020	47	40	62	85	186
2018	62	55	83	112	230
2019	42	26	46	70	215
2020	52	27	43	61	146





**ATTACHMENT 4**

**D.C. WATER AND SEWER AUTHORITY  
BOARD OF DIRECTORS  
FINANCE & BUDGET  
FEBRUARY COMMITTEE MEETING**

**Thursday, February 25, 2021; 11:00 a.m.**

**DC Water Headquarters  
1385 Canal Street, SE, DC**

**AGENDA**

<b>Call to Order</b>	Chairperson
<b>January 2021 Financial Report</b>	Chief Financial Officer
<b>Agenda for March Committee Meeting</b>	Chairperson
<b>Adjournment</b>	Chairperson

\*Detailed agenda can be found on DC Water’s website at [www.dewater.com/about/board\\_agendas.cfm](http://www.dewater.com/about/board_agendas.cfm)