

# King County Investment Pool

**Portfolio Review** 

**Quarter Ended March 31, 2021** 



# **Executive Summary**

Purpose, Scope and Approach	<ul> <li>PFM Asset Management LLC ("PFM") prepared this report to update our ongoing analysis and to address any Investment Pool developments since our December 2020 review. Our approach included a detailed portfolio analysis and Investment Policy Compliance review, based on the County's Investment Policy, dated July 26, 2017.</li> <li>Our analysis was based on the Investment Pool's holdings as of March 31, 2021, with reference to holdings in past periods.</li> <li>The review encompasses all current investments in the County's Investment Pool.</li> </ul>
Investment Program and Portfolio Review	<ul> <li>PFM reviewed the County's portfolio with respect to Investment Policy Compliance, Sector Allocation, Issuer Concentration, Credit Quality, Maturity Distribution, and Duration Distribution.</li> <li>The County's Investment Pool appears to provide ample liquidity, is well diversified, and is of sound credit quality. All holdings are investment grade and pose very low risk to principal.</li> </ul>
Market Recap	<ul> <li>U.S. economic conditions are characterized by:</li> <li>A dramatically lower COVID-19 caseload as vaccine inoculations ramped up despite initial logistical challenges.</li> <li>A new administration in Washington pushing new policies and priorities.</li> <li>Improving economic data supported by an additional \$1.9 trillion in relief funds from the American Rescue Plan Act.</li> <li>Increasing inflation expectations fueled by a combination of stronger recovery and additional stimulus.</li> <li>A surge in long-term Treasury yields to pre-pandemic levels.</li> <li>A reaffirmed commitment by the Federal Reserve to keep short-term rates near zero and continue their asset purchase program until the economy is more fully recovered.</li> <li>Rising, but somewhat more volatile, equity markets.</li> </ul>
Observations	<ul> <li>The portfolio is of very high credit quality. The majority of securities (84%) are explicitly guaranteed or carry a high level of support by the U.S. Government (U.S. Treasury, federal agency and U.S. instrumentalities) and/or possess overnight liquidity (Washington State LGIP, bank deposits, and repurchase agreements).</li> <li>The County maintained broad issuer diversification during the quarter.</li> <li>The Portfolio's duration over the quarter was 102% of the benchmark's duration.</li> <li>The County Pool appears to provide adequate liquidity, with 24% (or \$1.8 billion) invested in a combination of the State LGIP, bank deposits, and repurchase agreements (overnight) and 15% of the portfolio invested in U.S. Treasuries.</li> </ul>



#### **Investment Pool Portfolio Review**

#### **Portfolio Review**

- I. Investment Policy Compliance
- II. Sector Allocation
  - U.S. Treasuries
  - Federal Agencies
  - Supranational Agencies
  - Commercial Paper
  - Corporate Notes
  - Repurchase Agreements
  - LGIP and Cash Equivalents
- III. Issuer Concentration
- IV. Overall Credit Quality
- V. Maturity and Duration Distribution

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## **Investment Policy Compliance – Investment Policy Summary**

• The Investment Policy summary is based on the current Investment Policy for the County Investment Pool, dated July 26, 2017.

Туре	Maximum Portfolio Allocation	Issuer Restrictions	Credit Ratings	Maturity Restrictions
U.S. Treasuries	100%	None	N/A	Up to 5 years
U.S. Agencies	100%	35% exposure to any single Agency	5% exposure to any single Agency Senior debt obligations issued by any government sponsored enterprise, agency or instrumentality of the United States.	
Repurchase Agreements – Top Tier Rating (A-1 or P1)	100%	100% for repurchase agreements with the Federal Reserve Bank of New York 25% maximum exposure to any one repo counterparty.  For the purposes of aggregating issuers across sectors, overnight repo counterparties are not included.	1. A rating in the highest short-term credit rating category by at least one Nationally Recognized Statistical Rating Organization (NRSRO) or possess a guarantee by an entity with such a rating; and  2. A minimum asset and capital size of \$5 billion in assets and \$175 million in capital	
Repurchase Agreements – Second Tier Rating (A-2 or P-2)	10%	5% maximum exposure to any one repo counterparty. For the purposes of aggregating issuers across sectors, overnight repo counterparties shall NOT be included.	<ol> <li>A rating in the second highest short-term credit rating category by at least one Nationally Recognized Statistical Rating Organization (NRSRO) or possesses a guarantee by an entity with such a rating; and</li> <li>A minimum asset and capital size of \$5 billion in assets and \$175 million in capital</li> </ol>	Overnight only
Reverse Repurchase Agreement	20%	5% per investment dealer	<ol> <li>Rated in the highest short-term credit rating category by at least one NRSRO or possesses a guarantee by an entity with such a rating; and</li> <li>A minimum asset and capital size of \$5 billion in assets and \$175 million in capital</li> </ol>	6 months or less
Local Government Investment Pool ("LGIP")	25%	State of Washington LGIP	N/A	N/A



## **Investment Policy Compliance – Investment Policy Summary (cont'd)**

Туре	Maximum Portfolio Allocation	Issuer Restrictions	Credit Ratings	Maturity Restrictions
Bankers' Acceptances	When combined with Term Repos (greater than overnight), Certificates of Deposit, Commercial Paper and Corporate Notes not to exceed 50% of the Pool assets.	Must be issued by a bank organized and operating in the U.S.  Maximum 5% per issuer applied across investment types.	Rated in the highest short-term credit rating category by at least two NRSROs.	Up to 180 days
Certificates of Deposit	When combined with Banker's Acceptance, Term Repos (greater than overnight), Commercial Paper and Corporate Notes not to exceed 50% of the Pool assets.	Must be a public depository in the State of Washington.  Maximum 5% per issuer applied across investment types.	See RCW 39.58 of the state Code.  If not 100% collateralized, must be rated in the highest short-term rating category by at least one NRSRO.  Those institutions not meeting the 100% collateralization or minimum credit requirements may receive deposits up to the FDIC or federally guaranteed amounts.	Up to 1 year
Commercial Paper	25% of total market value when combined with Corporate Notes.  When combined with Banker's Acceptance, Certificates of Deposit, Term Repos (greater than overnight) and Corporate Notes not to exceed 50% of the Pool assets.	Secondary market purchases only.  Must be issued by a bank or corporation organized and operating in the U.S.  Maximum 3% per issuer in combined categories of commercial paper and corporate notes.  Maximum 5% per issuer applied across investment types.	Purchases with greater than 100 days maturity must have an issuer long-term rating in one of the three highest credit rating categories by one major NRSRO.  Rated in the highest short-term rating category by at least two major NRSROs. If the commercial paper is rated by more than two major NRSROs, it must have the highest rating from all of the organizations.  State law requires that Commercial Paper be purchased only from dealers.	270 days
General Obligation Municipal Bonds	20%	5% of portfolio: bond issues by pool participants must be purchased on the secondary market only	Rated in at least the highest three long-term rating categories by at least one NRSRO.	5 years



## **Investment Policy Compliance – Investment Policy Summary (cont'd)**

Туре	Maximum Portfolio Allocation	Issuer Restrictions	Credit Ratings	Maturity Restrictions
Mortgage-Backed Securities	25%	Must be issued by Federal Agencies of the United States.  Investments in MBS will count toward the total that can be invested in any one agency as described in U.S. Agencies above.  Full faith and credit MBS are limited to 25%.	Senior debt obligations issued by any government sponsored enterprise, agency or instrumentality of the United States.  The securities must pass the Federal Financial Institutions Examination Council ("FFIEC") suitability test, which banks use to determine lowest risk securities.	5 year average life at time of purchase
Corporate Notes	25% of total market value when combined with commercial paper  When combined with Banker's Acceptance, Certificates of Deposit, Commercial Paper and Term Repos (greater than overnight) not to exceed 50% of the Pool assets.	3% per issuer rated AA or better.  2% per issuer rated in broad single A category.  Split ratings will take most conservative rating.  Maximum 3% per issuer in combined categories of commercial paper and corporate notes.  Maximum 5% per issuer applied across investment types.	Must be rated at least in the broad single A category or better.  Broad single A category with a negative outlook may not be purchased.	5 years  The maximum duration of the corporate notes portfolio shall not exceed 3 years.

#### **Additional Notes to the Investment Policy**

- The Pool will maintain an effective duration of 1.5 years or less.
- The Pool will maintain at least 40% of its total value in securities having a remaining maturity of 12 months or less.
- Floating rate and variable rate securities are permitted subject to the following criteria:
  - 1) The rate on the FRN/VRN resets no less frequently than quarterly; and
  - 2) The FRN/VRN is indexed to a money market rate.
- Major NRSRO is defined as Moody's and Standard & Poor's.
- Purchases prior to 9/15/16 are considered grandfathered in for issuer limit purposes and can be held to maturity.



## I. Investment Policy Compliance – County Investment Pool

Topic	Observations
Sector Allocation	<ul> <li>All sector allocations fall within the limits set forth by the County's Investment Policy Statement. The Pool is predominantly invested in U.S. government securities which are either explicitly guaranteed or carry a high level of support by the U.S. government.</li> <li>The County's Investment Pool balance (market value) as of March 31, 2021 was \$7.6 billion, a decrease of \$0.5 billion from last quarter.</li> <li>The County's investment pool decreased percentage allocations to Federal Agencies (-7.64%), Supranational Agencies (-0.91%), Repurchase Agreements (-0.73%), and Corporates (-0.65%). All sectors remain with applicable policy limits.</li> <li>Sectors that grew over the quarter were the Washington State LGIP (+7.68%), U.S. Treasuries (+1.12%), Commercial Paper (+1.01%), and Cash and Cash equivalents (+0.12%).</li> </ul>
Credit Quality	<ul> <li>Approximately 64% of the County pool's assets are guaranteed or supported by the U.S. government. Furthermore, 20% is invested in the State LGIP, where about 82% of the LGIP is invested directly in U.S. Treasuries, federal agencies, and supranational agencies. Additionally, considering the County pool's holdings of repurchase agreements and bank accounts collateralized by government securities, the overall government-related credit quality exceeds 84%.</li> <li>Combined corporate allocations (both commercial paper and corporate notes) remained at approximately 12% of the portfolio, and all securities remain investment grade. Combined allocations to corporate notes and commercial paper continue to be below the maximum allocation limit of 25%.</li> <li>Total allocations to corporate related issues also do not exceed the 50% allocation limit set forth in the County's Investment Policy.</li> </ul>
Maturity Distribution	<ul> <li>All maturities fall within the limits set forth in the County's Investment Policy.</li> <li>Approximately 60% of the Pool's assets mature in one year or less, above the minimum of 40% that is mandated by the Investment Policy.</li> </ul>

Security Type	Market Value(\$)	Allocation Percentage	Within Policy Limits	Max Maturity Held	Within Policy Limits
U.S. Treasury	1,143,837,260	15.06%	✓	4.17 years	✓
Supranational Agencies	1,675,602,623	22.07%	✓	4.83 years	✓
Corporate Notes	379,996,933	5.00%	✓	4.86 years	✓
Federal Agency	2,072,116,047	27.29%	✓	4.02 years	✓
Washington State LGIP	1,506,698,931	19.84%	✓	1 day	✓
Repurchase Agreement	289,000,000	3.81%	✓	1 day	✓
Commercial Paper	499,811,597	6.58%	✓	236 days	✓
Cash and Equivalents	23,891,155	0.31%	✓	1 day	✓
Agency Mortgages	2,427,461	0.03%	✓	3.1 years (WAL)	✓
TOTAL	7,593,382,006	100.00%			

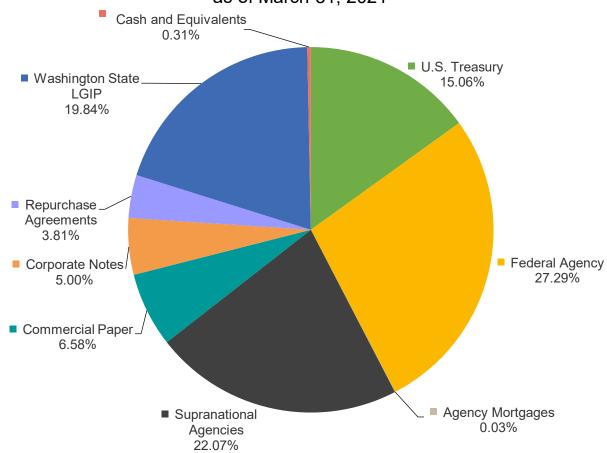
<sup>\*</sup>Percentages may not total to 100% due to rounding.



#### **II. Sector Allocation**

#### **Sector Diversification**





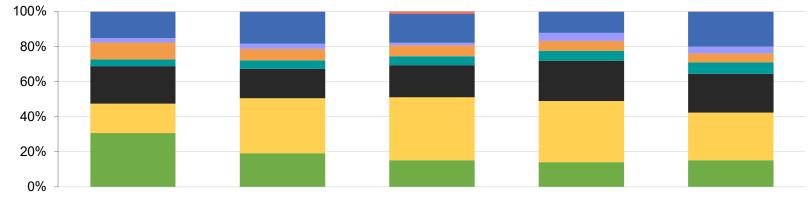
<sup>\*</sup>Percentages may not total to 100% due to rounding.



### II. Changes in Portfolio Sector Allocation over the Past 12 Months

# Changes in Sector Allocation

- The portfolio increased exposure to the Washington State LGIP by +7.68%, U.S. Treasuries by +1.12%, and Commercial Paper by +1.01% while decreasing or maintaining allocations to all other sectors.
- <u>U.S. Treasuries</u> During the first quarter, exposure to U.S. Treasuries increased from 13.95% to 15.06%, yet still remains less than half of the allocation from a year ago.
- <u>Federal Agencies</u> Federal agency allocations, excluding supranationals and mortgage securities, decreased by -7.64% over the period, and including supranationals are up over 10% from a year ago.
- Corporate Notes The allocation to corporate notes decreased over the quarter from 5.65% to 5.00%, continuing a year-long trend of decreases.
- <u>Commercial Paper</u> Commercial paper increased over the period from 5.57% to 6.58% of the portfolio.
- <u>Washington State LGIP</u> Balances invested in the State LGIP increased from 12.16% of the portfolio to 19.84%, reaching its highest allocation over the last year.
- Repurchase Agreements The portfolio's allocation to repurchase agreements decreased from 4.53% to 3.81% of the portfolio.



	March 31, 2020	June 30, 2020	September 30, 2020	December 31, 2020	March 31, 2021
U.S. Treasury	30.58%	19.05%	15.21%	13.95%	15.06%
Federal Agencies	16.78%	31.43%	35.85%	34.93%	27.29%
Agency Mortgages	0.04%	0.04%	0.04%	0.03%	0.03%
Supranational Agencies	21.33%	16.69%	18.16%	22.98%	22.07%
Commercial Paper	3.87%	4.87%	5.24%	5.57%	6.58%
Corporate Notes	9.74%	6.59%	6.09%	5.65%	5.00%
Repurchase Agreements	2.50%	2.80%	1.41%	4.53%	3.81%
Washington State LGIP	14.92%	18.35%	16.43%	12.16%	19.84%
Cash and Equivalents	0.23%	0.18%	1.58%	0.19%	0.31%

<sup>\*</sup>Percentages may not total to 100% due to rounding.



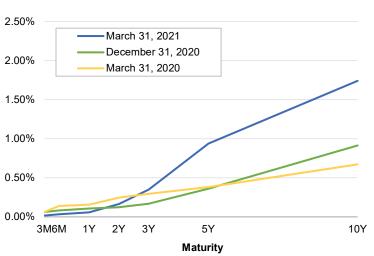
## II. Sector Allocation – U.S. Treasury Securities

Topic	Observations
Observations	<ul> <li>The County's balances held in U.S. Treasuries increased from 13.95% of the total portfolio to 15.06%.</li> <li>Short-term U.S. Treasury yields remained near historical lows, while the curve steepened dramatically with longer-term yields ending the quarter higher as a result of increased inflation expectations and further fiscal and monetary stimulus. <ul> <li>The 10-year Treasury yield increased 83 basis points (+0.83%), while the 2-year yield fell 4 bps (-0.04%).</li> </ul> </li> <li>Roughly thirteen percent of the Pool's Treasury investments (13.26% of all Treasury holdings) have remaining maturities of one year or less.</li> <li>The weighted average maturity (WAM) of the County's Treasury allocation increased over the quarter from 677 days to 868 days as a number of Treasury securities matured, and most purchases were made in the 4-year maturity range.</li> <li>The chart on the left below displays the current maturity distribution of the County's allocations to U.S. Treasuries while the chart on the right compares the current shape of the U.S. Treasury yield curve to the yield curve last quarter, and the yield curve one year ago. The County's Treasury holdings continue to favor the longer-term securities. As the short end of the yield curve remains unchanged, shorter-term Treasuries offer little relative value.</li> </ul>

# U.S. Treasury Maturity Distribution as of March 31, 2021

#### 45% 40% 40.19% 35% 30% 25% 20% 17.92% 15% 10% 15.11% 8.93% 5% 8.81% 4.45% 4.59% 1 day - 1 1-3 3-6 6-9 9-12 12-18 18-24 24-36 36-48 48-60 months months months months months months months months months

# **U.S. Treasury Yield Curve** 3/31/21 vs 12/31/20 vs 3/31/20

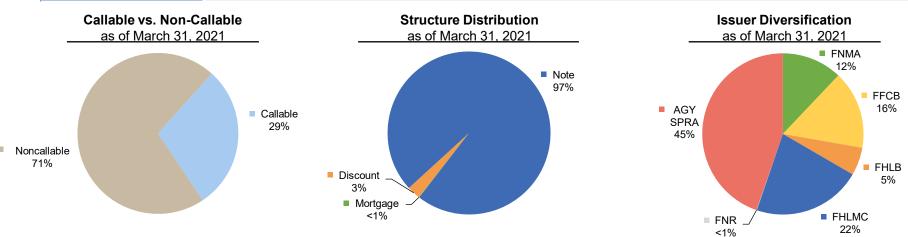


<sup>\*</sup> Source Bloomberg Financial Systems



## II. Sector Allocation – Federal Agencies

Topic	Observations			
Structure (as % of Federal Agency Allocations)	<ul><li>Non-Callable</li><li>Callable</li></ul>	71.1% 28.9%	<ul><li>Discount Notes</li><li>Coupon Bearing Notes</li><li>Agency Mortgage</li></ul>	2.7% 97.3% < 0.1%
<b>Diversification</b> (as % of Federal Agency Allocations)	<ul> <li>Federal Farm Credit Bank (FFCB)***</li> <li>Freddie Mac (FHLMC)</li> <li>Federal Home Loan Bank (FHLB)***</li> <li>Supranational Agencies***</li> </ul>	15.7% 21.9% 5.6% 44.7%	<ul> <li>Fannie Mae (FNMA)***</li> <li>Fannie Mae Mortgage-Backed (FNR)</li> <li>Freddie Mac Mortgage-Backed (FHR)</li> </ul>	12.1% < 0.1% 0.0%
Conclusions	<ul> <li>The County's federal agency holdings continue to be well diversified by issuer. All issuer allocations fall within the issuer guidelines and security structures in the County's investment policy (max per agency issuer 35%).</li> <li>The percentage of the portfolio invested in federal agencies, excluding supranationals and mortgage securities, decreased by -7.64% in the quarter from 34.93% to 27.29%. Within this federal agency allocation, the portion of callable securities has decreased to 28.9% from 31.1% since the end of the fourth quarter.</li> <li>All supranational agency holdings are below the 35% issuer limit and represent approximately 22% of the entire portfolio.</li> <li>The County Pool's only allocation to agency mortgages is in Fannie Mae pools, totaling approximately 0.03% of the total portfolio.</li> </ul>			



<sup>\*</sup>All calculations above are based on total federal agency exposure, not overall Portfolio.

<sup>\*\*</sup>Percentages may not total to 100% due to rounding.

<sup>\*\*\*</sup>Includes discount notes

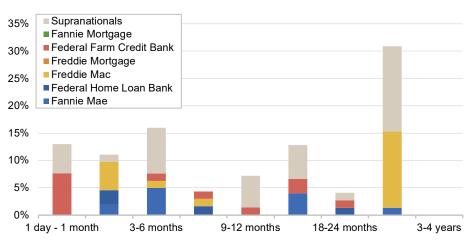


### II. Sector Allocation – Federal Agencies

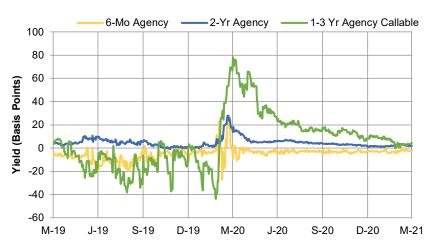
Topic	Observations
Maturity Distribution	<ul> <li>The County's federal agency maturity distribution falls within the limits set forth by the Investment Policy Statement.</li> <li>Over the quarter, the weighted average maturity (WAM) of the County's federal agency holdings increased from 428 days on December 31<sup>st</sup> to 431 days on March 31<sup>st</sup>.</li> <li>The portfolio saw a decrease in activity of new federal agency securities this quarter, with only \$74.4 million in new securities being purchased, compared to \$1.29 billion last quarter, with many securities being sold or called.</li> <li>There is limited room for further spread tightening from current levels. With spreads likely to remain near zero over the coming quarter, the sector offers very little pickup compared to U.S. Treasuries.</li> <li>2-year federal agencies provide little value relative to U.S. Treasuries, with the spread closing the quarter at about 2 bps (0.02%).</li> </ul>
	<ul> <li>When yields of federal agencies and Treasuries are relatively close, the U.S. Treasury security is typically preferred.</li> </ul>

#### Federal Agency Maturity Distribution by Name

as of March 31, 2021



## Federal Agency Yield Spreads to Treasuries Past 24 Months



\* Source Bloomberg Financial Systems

Agency Mortgage maturities are calculated as average life. Average life data taken from Bloomberg Financial Markets

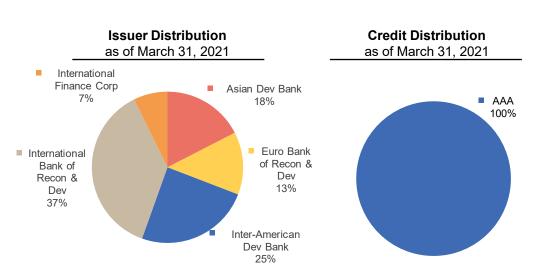
<sup>·</sup> Callable securities are shown to their next call date.

All other Agency maturities are calculated as days to maturity.

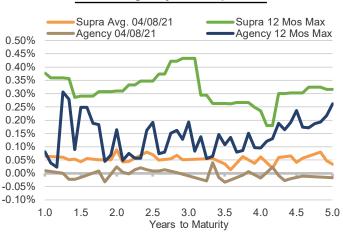


## II. Sector Allocation – Supranational Agencies

Topic	Observations
Credit Distribution	<ul> <li>Based on the holdings as of March 31<sup>st</sup>, four supranational securities will mature over the next quarter.</li> <li>The County maintained exposure to five supranational issuers.         <ul> <li>The U.S. is the largest country from a shareholder perspective for all five Supranational issuers (co-largest with Japan for the Asian Development Bank), meaning the U.S. has the largest decision-making power, and these securities are considered to have been issued by federal instrumentalities.</li> </ul> </li> <li>By continuing to invest in this sector, the County is able to diversify the portfolio and add to its high credit quality, while also capturing additional yield over federal agency and Treasury securities.         <ul> <li>The portfolio's allocation to supranational agencies is well-balanced across maturities, with roughly 53% having a remaining maturity of over 1 year.</li> </ul> </li> </ul>
Spread to Agency Rates	<ul> <li>The chart on the right shows the spread between supranational agencies and federal agency securities.</li> <li>Spreads compared to Treasuries and agencies have widened and now present a reasonable alternative to other government securities. New issues remain as the best entry point.</li> </ul>



# Supranational Agency vs. Federal Agency Yield Spreads

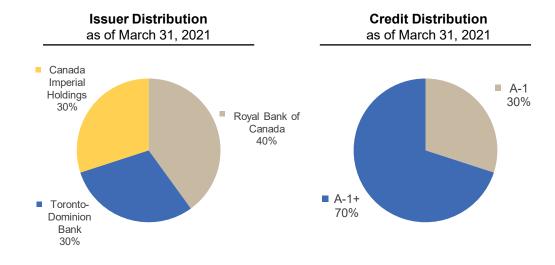


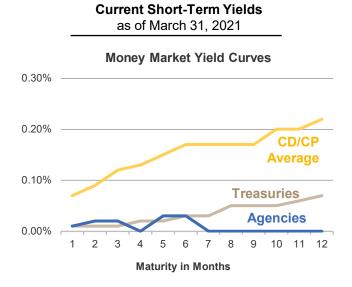
<sup>\*</sup> Source Bloomberg Financial Systems



## II. Sector Allocation – Commercial Paper

Торіс	Observations
Issuer Diversification	<ul> <li>The County's allocation to commercial paper increased by +1.01% over the quarter, ending the period at 6.58% of the total portfolio.</li> <li>The portfolio holds commercial paper from Toronto-Dominion Bank, the Royal Bank of Canada, and Canada Imperial Holdings.</li> <li>Short-term commercial paper spreads stabilized, with some widening in the latter half of the quarter due to increased issuance. Better opportunities became available to pick up incremental yield over short-term Treasuries and agencies.</li> <li>With attractive spreads further out on the yield curve, commercial paper continues to provide incremental returns while allowing the County to tap into a broader universe of issuers compared to the alternative of U.S. T-Bills and federal agency discount notes.</li> </ul>
Credit Distribution	Standard & Poor's rates the short-term credit of Royal Bank of Canada and Toronto-Dominion as A-1+, and Canada Imperial Holdings as A-1.
Conclusions	<ul> <li>From an overall portfolio duration perspective, utilizing short term commercial paper helps the County to offset the purchasing of longer term securities. These commercial paper investments have historically offered greater yields than other short term securities and overnight investments.</li> <li>The Portfolio's total allocation to commercial paper increased over the quarter as the County's previous commercial paper investments matured and the proceeds were reinvested.</li> </ul>





<sup>\*</sup>All calculations above are based on total commercial paper exposure, not overall Portfolio.

<sup>\*\*</sup>Percentages may not total to 100% due to rounding.

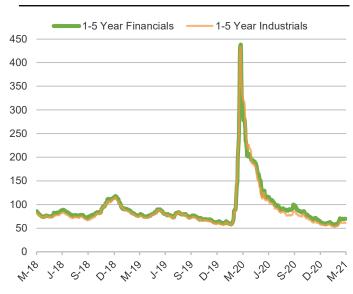


## **II. Sector Allocation – Corporate Notes**

Topic	Observations
Maturity Distribution	<ul> <li>The County's exposure to corporate notes declined by -0.65% over the quarter, from 5.65% to 5.00%. To end the period, the Pool's corporate note holdings were from high quality issuers, with 58% of it's corporate notes carrying a rating of at least AA- by S&amp;P.</li> <li>Callable corporate notes made up 31% of the County's corporate sleeve, with all call dates being about a month before maturity.</li> </ul>
	<ul> <li>Only one corporate note matures beyond 4 years and the weighted average maturity of the corporate note portion of the portfolio is 1.28 years.</li> </ul>
	<ul> <li>The graph on the right below shows the spread for financial corporates and industrial corporates when compared to similar-maturity Treasuries.</li> <li>Investment grade corporate bond spreads trended lower, ending the quarter near historical lows. Financials, which make up a large portion of the county's corporate holdings, closed the quarter slightly wider than industrials.</li> </ul>
	<ul> <li>Continued economic recovery, supportive monetary policy, lower expected supply, and strong global demand for U.S. credit will serve as support for the corporate sector.</li> </ul>

Credit & Issuer Distribution	S&P Short	S&P Long	Moody's Short	Moody's Long	% of Corporate Holdings	% of Portfolio
Apple Inc.	A-1+	AA+	P-1	Aa1	21.5%	1.08%
Bank of Montreal	A-1	A+	P-1	Aa2	27.5%	1.37%
Canadian Imperial Bank	A-1	A+	P-1	Aa2	4.7%	0.24%
Home Depot Inc.	A-1	Α	P-1	A2	2.2%	0.11%
Honeywell International	A-1	Α	P-1	A2	7.6%	0.38%
Microsoft Corp	A-1+	AAA	P-1	Aaa	6.4%	0.32%
Procter & Gamble Co	A-1+	AA-	P-1	Aa3	12.1%	0.61%
Toronto-Dominion Bank	A-1+	AA-	P-1	Aa1	8.6%	0.43%
US Bank	A-1+	AA-	P-1	A1	9.5%	0.47%

#### Corporate/Treasury Yield Spreads March 2018 through March 2021 (in basis points)



\*Source Bloomberg Financial Systems

<sup>\*</sup>Source: Bloomberg Financial Systems as of 4/12/2021

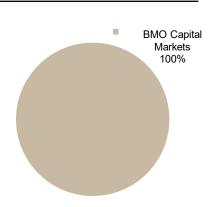


## **II. Sector Allocation – Repurchase Agreements**

Topic	Observations
Issuer Diversification	<ul> <li>The County decreased its tri-party repurchase agreement allocation over the quarter, with 3.81% of the portfolio allocated to the sector at quarter-end, compared to 4.53% at December 31, 2020.</li> <li>At the end of the quarter, the portfolio utilized one repurchase agreement provider, BMO Capital Markets, with an allocation of \$289 million.</li> <li>This allocation falls within the permitted investment guidelines of 25% per issuer and 100% maximum to the sector.</li> </ul>
Credit Distribution	<ul> <li>Standard &amp; Poor's rates BMO's short-term issuer credit as A-1.</li> <li>While this issuer has a high-quality rating from S&amp;P, the ultimate quality of the repurchase agreement depends on the underlying collateral.</li> </ul>
Conclusions	<ul> <li>As of March 31, 2021, the repurchase agreement sector's weighted-average yield was 0.04%, down 3 bps (0.03%) compared to the last quarter. Yields for overnight repurchase agreements remained near zero, in-line with short-term Treasuries, as the Fed funds target rate remains at the zero lower bound.</li> </ul>

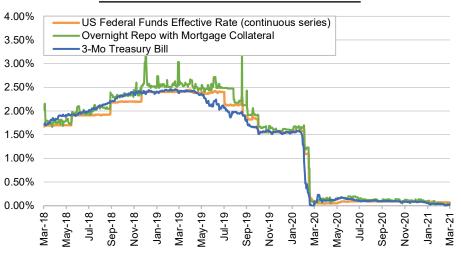
#### Issuer/Credit Distribution

as of March 31, 2021



#### Short-Term Yields

March 2018 through March 2021



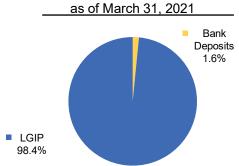
\*Source Bloomberg Financial Systems



## II. Sector Allocation – LGIPs and Cash Equivalents

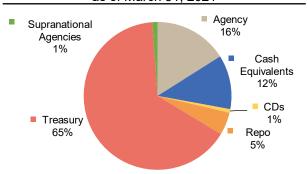
	Underlying Investments	Rating (Short-Term: S&P/ Moody's/Fitch)	Observations
Washington State LGIP	<ul> <li>U.S. Treasuries 65.2%</li> <li>Federal Agencies 16.0%</li> <li>Supranational Agencies 1.2%</li> <li>Repurchase Agreements 5.0%</li> <li>Certificates of Deposit 0.8%</li> <li>Cash Equivalents 11.9%</li> <li>As of March 31, 2021</li> </ul>	• N/A	<ul> <li>The County currently has allocated \$1.5 billion to the Washington State LGIP, an increase from last quarter's \$1.0 billion figure.</li> <li>The County's allocation to the State LGIP continues to serve as the primary source of overnight liquidity for the portfolio.</li> <li>During the first quarter, the State LGIP increased its exposure to federal agencies (+1.9%) cash equivalents (+0.8%), and repurchase agreements (+0.1%), while it decreased its U.S. Treasury, supranational, and certificates of deposit allocations.</li> </ul>
Cash Equivalents	<ul> <li>State LGIP 98.44%</li> <li>U.S. Bank 1.47%</li> <li>Key Bank 0.04%</li> <li>Bank of America 0.05%</li> </ul>	<ul> <li>U.S. Bank:</li></ul>	<ul> <li>The County's deposit accounts at U.S. Bank, Key Bank, and Bank of America are FDIC-insured up to FDIC limits, and are collateralized by the Public Deposit Protection Commission.</li> <li>The portfolio's cash equivalents holdings increased over the quarter, from 0.19% to 0.31% of the total portfolio.</li> </ul>

#### **Cash Equivalents Distribution**



#### Washington State LGIP Sector Distribution





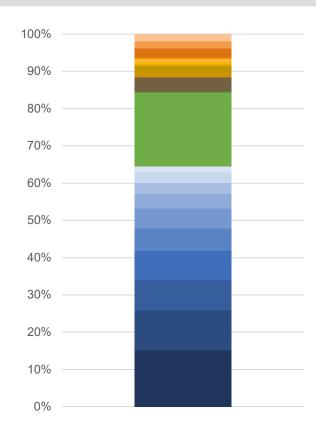


#### **III. Issuer Concentration**

#### **Issuer Exposure**

- The County maintains a well-diversified portfolio by issuer, as shown in the tables and graph below.
- · Approximately 64% of the portfolio is allocated directly to U.S. government guaranteed or government supported entities.
- Of the remaining 36% of the portfolio, 24% is allocated to ultra short-term or overnight investment vehicles, including the State LGIP, repurchase agreements, and bank deposits. The remaining 12% is allocated to credit issuers, including commercial paper and corporate notes.

U.S. Treasury (100% Limit)	15.06%
Agency Issuers	Percentage (35% Limit)
FHLMC	10.81%
Intn'l Bk of Recon & Dev	8.23%
FFCB	7.74%
FNMA	6.00%
Inter-American Dev Bk	5.43%
Asian Dev Bank	3.85%
Euro Bk of Recon & Dev	2.96%
FHLB	2.77%
International Finance Corp	1.60%
Washington State LGIP (25% Limit)	19.84%
Overnight Deposits	Percentage (No Limit)
US Bank	0.30%
Bank of America	<0.01%
Key Bank	<0.01%
Repo Issuers	Percentage (25% Limit)
BMO Capital Markets Corp	3.81%



Corporate Issuers	Percentage (5% Limit)
Bank of Montreal	1.37%
Apple Inc	1.08%
Procter & Gamble Co	0.61%
US Bank	0.47%
Toronto-Dominion Bank	0.43%
Honeywell International	0.38%
Microsoft Corp	0.32%
Canadian Imperial Bank	0.24%
Home Depot Inc	0.11%
CP Issuers	Percentage (5% Limit)
Royal Bank of Canada	2.63%
Toronto-Dominion Bank	1.97%
Canadian Imperial Bank	1.97%

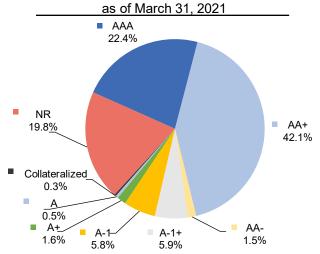


### IV. Overall Credit Quality

#### **County Investment Pool Credit Analysis**

- The County Pool's overall average credit position remains very strong and is primarily concentrated in U.S. government guaranteed and/or supported securities which maintain a long-term credit rating of AA+ by Standard & Poor's and federal agency discount notes, which maintain a short-term credit rating of A-1+ by S&P.
- The County also maintained its holdings of supranational agencies, which are rated AAA.
- The County maintained its credit exposure through commercial paper and corporate notes over the quarter, ending at 11.59% of the portfolio, compared to 11.23% last quarter.
  - Commercial paper accounts for 6.58% of the entire portfolio, while corporate notes account for 5.00%.
- Corporate note allocations held throughout the quarter have ratings of A or higher.
  - Commercial paper allocations are all rated A-1/P-1 or higher.
- The 19.8% NR allocation represents the County's investment in the Washington State LGIP, which is not currently rated by any ratings agency.
- The County's investment in the Washington LGIP includes indirect corporate exposure:
  - Through the LGIP, 1.14% of the County's Pool is allocated indirectly to corporate securities (repurchase agreements and certificates of deposit).

#### **Total Pool Credit Distribution\***



#### Corporate/CP Issuer Ratings Table

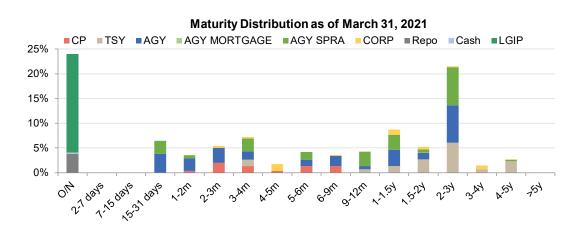
as of March 31, 2021

Issuer Distribution	Sectors Invested	S&P Short*	S&P Long*	Moody's Short**	Moody's Long**
Apple Inc	Corp	A-1+	AA+	P-1	Aa1
Bank of Montreal	Corp	A-1	A+	P-1	Aa2
Bank of Nova Scotia	Corp	A-1	A+	P-1	Aa2
Canadian Imperial Bank	Corp/CP	A-1	A+	P-1	Aa2
Home Depot Inc	Corp	A-1	Α	P-1	A2
Honeywell International	Corp	A-1	Α	P-1	A2
Microsoft Corp	Corp	A-1+	AAA	P-1	Aaa
Procter & Gamble Co/The	Corp	A-1+	AA-	P-1	Aa3
Royal Bank of Canada	CP	A-1+	AA-	P-1	Aa2
Toronto-Dominion Bank	Corp/CP	A-1+	AA-	P-1	Aa1
US Bank	Corp	A-1+	AA-	P-1	A1



## **V. Maturity Distribution**

Maturity Distribution	Observations
Weighted Average Maturity ("WAM")	<ul> <li>The County continues to invest across its permitted maturity range, as seen in the chart below.</li> <li>A majority of the holdings, 60% of the portfolio, are scheduled to mature within the next twelve months, a 2% decrease from the previous quarter-end but well above the 40% mandated by the investment policy.</li> <li>It appears the County's maturity strategies over the past several quarters have included:         <ul> <li>Allowing previously purchased, longer-dated U.S. Treasury investments to naturally shorten in maturity and roll-down the yield curve.</li> <li>Targeting purchases in the following spaces:</li></ul></li></ul>
Liquidity	<ul> <li>The County Pool appears to provide adequate liquidity, both in terms of final maturities and the sectors in which the portfolio has invested. In addition to the 24% of the portfolio invested in a combination of the Washington State LGIP, bank deposits, and repurchase agreements (overnight liquidity), another 10% of the portfolio's holdings are scheduled to mature within the next two months.</li> <li>Given the continued uncertainty regarding revenues and expenditures for governmental budgets, it is important to maintain a generous amount in overnight and short-term funds in case of unforeseen cash flow needs.</li> </ul>

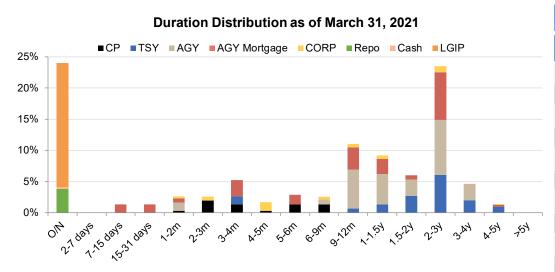


Contribution to Maturity				
Sector	3/31/21	12/31/20		
Supranational Agencies	109.84	118.36		
Cash	0.00	0.00		
Corporate Notes	23.38	25.93		
Commercial Paper	8.99	6.34		
Federal Agencies	102.82	129.59		
The Washington State LGIP	0.20	0.12		
Agency Mortgages	0.37	0.37		
Repurchase Agreements	0.04	0.18		
US Treasuries	130.71	94.36		
Maturity:	376 days	375 days		



#### **V. Duration Distribution**

<b>Duration Distribution</b>	Observations
Definition	<ul> <li>Duration is a measure of the sensitivity of the value of principal of an investment to a change in interest rates. The value of a portfolio with a higher duration is more sensitive to interest rate increases and decreases.</li> <li>Duration is often quoted in years and is commonly used as a measure of the market risk of a security or portfolio. Duration can be derived in a number of ways; please refer to the notes at the bottom of this page for details.</li> </ul>
Duration	<ul> <li>The portfolio's weighted average duration is within the IPS guidelines (no greater than 1.5 years).</li> <li>As of March 31, the duration of the County Investment Pool was 1.18 years, an increase from the previous quarter which ended at 1.11 years.         <ul> <li>The increase in portfolio duration was driven by the County's recent investments in U.S. Treasuries.</li> <li>The portfolio is measured against a blended benchmark consisting of 40% ICE Bank of America Merrill Lynch 3-Month Treasury Index and 60% ICE Bank of America Merrill Lynch 1-3 Year Treasury &amp; Agency Index.</li> <li>The overall portfolio, and the benchmark, duration increased over the quarter. Compared to the benchmark, the portfolio's duration increased from 96% to 102% of the benchmark duration for the period ending March 31.</li> </ul> </li> </ul>



Contribution to Duration				
Sector	3/31/21	12/31/20		
Supranational Agencies	0.29	0.32		
Cash	0.00	0.00		
Corporate Notes	0.05	0.06		
Commercial Paper	0.02	0.02		
Federal Agencies	0.46	0.47		
The Washington State LGIP	0.00	0.00		
Agency Mortgages	0.00	0.00		
Repurchase Agreements	0.00	0.00		
US Treasuries	0.35	0.25		
Duration:	1.18 years	1.11 years		

Agency Mortgage durations are shown as effective duration taken from Bloomberg Financial Markets.

Duration for Federal Agency Discount Notes and Repurchase Agreements are calculated as days to maturity. WA LGIP and bank deposits considered to have a one day duration.

All other security durations are calculated as effective duration as given by Bloomberg Financial Markets.



### V. Changes in Portfolio Maturity Distribution

# **Changes in Portfolio Maturity Distribution**

- When viewing the current maturity distribution (red bars) in relation to previous periods, a few primary observations are noted:
  - It appears the County targeted increased allocations in the 2-to-3 year portion, and the 4-to-5 year portion of the yield curve during the first quarter of 2021.
    - The increase in allocation to overnight securities is primarily due to the increased allocations in the State LGIP, and the
      repurchase agreements being classified in the overnight bucket, correcting the anomaly from the last quarter.
    - The increase in the 2-to-3 year portion of the curve is primarily due to roll down from the 3-to-4 year bucket. The 4-to-5 year maturity bucket also increased as a result of newly purchased U.S. Treasury and supranational securities.
- Compared to the fourth quarter, the yield curve steepened significantly and therefore offers increased value to invest farther out in the 1-5 year space.
  - Locking in yields in the 1-5 year area of the curve and finding relative value within sectors may allow the portfolio to benefit from incremental income as short-term interest rates are expected to remain near zero for the foreseeable future.

#### Maturity Distribution March 31, 2020 to March 31, 2021 35% March 31, 2020 ■June 30, 2020 30% ■ September 30, 2020 25% ■ December 31, 2020 ■March 31, 2021 20% 15% 10% 5% 0% O/N 0-3M 3-6M 6-9M 9-12M 1-2Y 2-3Y 3-4Y 4-5Y >5y



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