

PERFORMANCE REPORT

MWRA EMPLOYEES' RETIREMENT SYSTEM



April 29, 2021

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BOSTON | ATLANTA | CHARLOTTE | CHICAGO | DETROIT | LAS VEGAS | PORTLAND | SAN FRANCISCO

GOALS & OBJECTIVES

Investment Return Objective

“Its primary goal is to provide promised benefits to participants and beneficiaries of the MWRA Employees’ Retirement system. Plan assets should be equal to or greater than the present value of the projected benefit obligations (“fully funded”). When Plan assets are less than the present value of projected benefit obligations, a schedule will be established and a plan will be in place to meet a fully funded status. When achieving return objectives required to fully fund the system, the Board is intent on controlling risk. Consistency of returns and risk of loss are primary considerations. The Board has also determined that the annual performance of plan assets should not vary substantially from returns achieved by other public pension funds with similar goals and objectives.”

Return Expectations

The investment growth should be maintained in such a manner that the minimum nominal rate of return does not cause a negative real rate of return over a full market cycle:

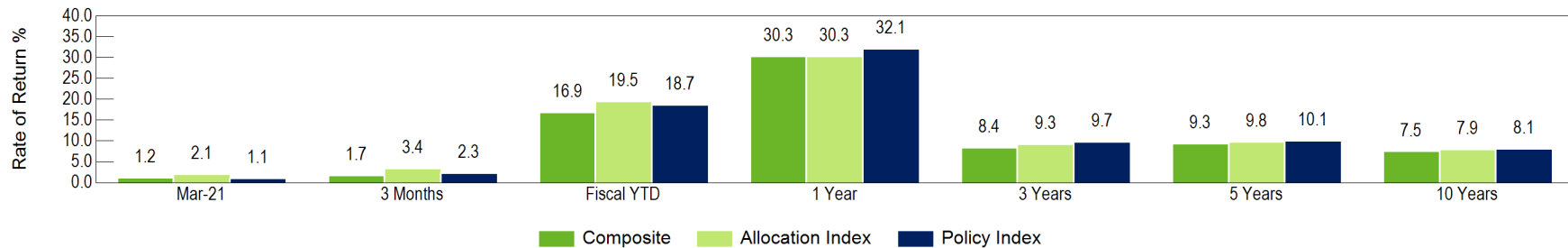
- **Time Horizon:** Return assumptions will be based on a ten year time horizon with a detailed review and analysis to be made at least annually to monitor allocations and assumptions. Should a manager deviate from proscribed mandate or expected risk and return profile by a consequential degree, that manager may be reevaluated at any time.
- **Liquidity Needs:** Presently contributions exceed plan withdrawals to provide benefits, payouts, and/or plan expenses. Portfolio liquidity will be managed based on the cash flow needs of the System.
- **Regulatory Considerations:** Assets of this Fund shall be invested in a manner consistent with the fiduciary standards established under Code of Massachusetts Regulations 840 (“840 CMR”). The Board shall also use as precedent the Employee Retirement Income Security Act (ERISA).



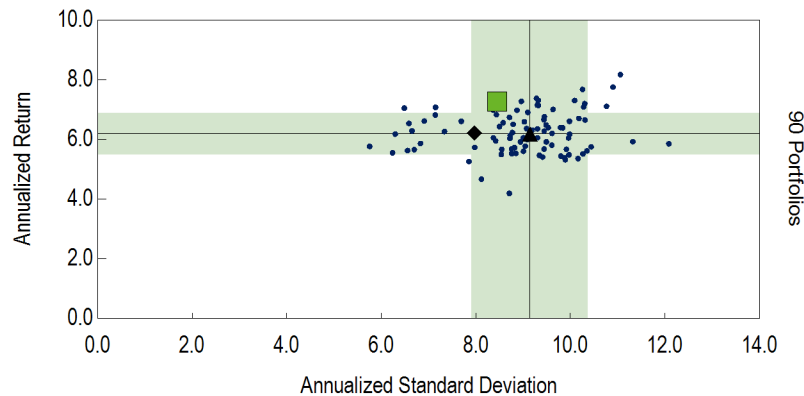
MWRA Employees' Retirement System

EXECUTIVE SUMMARY

Net Return Summary Ending March 31, 2021



20 Years Ending December 31, 2020



Performance

- The Composite returned 1.2% (net) for the month trailing the Allocation Index (2.1%) and outperforming the Policy Index (1.1%).
- Global equities ended the first quarter in the black as ongoing inoculations and fresh fiscal stimulus in the U.S. provided a supportive environment for risk assets. Domestic equities outperformed their global counterparts with the S&P 500 increasing 4.4% in March, while the MSCI ACWI ex USA returned 1.2% and the MSCI Emerging Markets index fell -1.5%. The portfolio's Domestic Equity composite returned 3.9% (net) while the Non-US Equity composite was down -0.3% (net) for the month.
- Within fixed income, yields continued their upward trend in March. The 10- and 30-year Treasury yields increased 28 and 23 basis points, respectively. The Fixed Income composite returned -0.8% (net) for the month while the BC Agg and BC US HY returned -1.2 and 0.1%, respectively.
- This brings the total plan return for the trailing one year period to 30.3% (net), while the Allocation and Policy Index returned 30.3% (net) and 32.1% (net) respectively.

Statistics Summary

	Anlzd Ret	Anlzd Std Dev	Rank
Composite	7.3%	8.4%	17
Allocation Index	6.3%	8.0%	76
Policy Index	6.6%	8.6%	51
InvMetrics Public DB Gross Median	6.7%	9.2%	--

20 years Risk/Return is as of 12/31/2020. Chart reflects universe data on quarter end months only.

Returns for 20 years Risk/Return and Statistics Summary are gross of fees.

Since inception return is 8.6% gross of fees. Prior to 1999, performance history does not capture separate net and gross returns.



MWRA Employees' Retirement System

TOTAL FUND PERFORMANCE DETAIL (NET)

	Market Value (\$)	% of Portfolio	Policy %	1 Mo (%)	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Composite	653,904,726	100.0	100.0	1.2	1.7	16.9	30.3	8.4	9.3	7.5	7.0	Jan-86
Allocation Index				2.1	3.4	19.5	30.3	9.3	9.8	7.9	--	Jan-86
Policy Index				1.1	2.3	18.7	32.1	9.7	10.1	8.1	--	Jan-86
Total Balanced	4,771,067	0.7	0.0	3.1	4.3	21.0	36.2	6.2	7.5	4.6	5.0	Dec-10
PRIT Core Fund	4,771,067	0.7		3.1	4.3	21.3	30.1	9.7	10.5	8.5	7.2	Apr-99
60% S&P 500 / 40% BBgBarc Aggregate				2.1	2.3	16.2	31.7	12.2	11.1	9.9	6.6	Apr-99
Total Domestic Equity	191,815,497	29.3	31.0	3.9	6.3	31.8	60.8	17.3	16.4	13.2	8.1	May-99
Russell 3000				3.6	6.3	33.2	62.5	17.1	16.6	13.8	7.6	May-99
Large Cap	142,544,714	21.8	24.0	4.6	5.0	26.4	52.8	18.4	16.6	13.6	14.5	Dec-10
Rhumblin Advisors S&P 500 Index Fund	61,920,084	9.5	10.0	4.4	6.2	29.7	56.2	16.7	16.2	13.8	9.2	Apr-97
S&P 500				4.4	6.2	29.7	56.4	16.8	16.3	13.9	9.2	Apr-97
Coho Relative Value Equity	41,024,374	6.3	7.0	8.1	6.1	23.9	42.8	13.7	12.4	--	13.0	Mar-16
Russell 1000 Value				5.9	11.3	36.6	56.1	11.0	11.7	11.0	13.1	Mar-16
Polen Focused Growth	39,600,256	6.1	7.0	1.3	1.6	22.9	56.6	25.4	21.1	--	21.2	Feb-16
Russell 1000 Growth				1.7	0.9	27.3	62.7	22.8	21.0	16.6	21.8	Feb-16
Small Cap	49,270,783	7.5	7.0	2.1	10.7	51.9	90.7	15.1	16.5	12.3	13.8	Dec-10
Boston Partners Small Cap Value	26,430,329	4.0	3.5	7.2	18.3	63.8	97.8	10.1	12.0	10.0	11.0	Feb-97
Russell 2000 Value				5.2	21.2	65.7	97.1	11.6	13.6	10.1	9.6	Feb-97
Loomis Sayles Small Cap Growth	22,840,454	3.5	3.5	-3.2	3.0	40.1	82.6	19.4	20.4	14.4	7.8	Jan-97
Russell 2000 Growth				-3.1	4.9	45.7	90.2	17.2	18.6	13.0	8.2	Jan-97
Total Non-US Equity	142,201,766	21.7	19.0	-0.3	0.5	27.9	51.2	6.2	10.3	4.7	5.0	Mar-99
International Equity	123,897,130	18.9	12.0	0.1	1.0	29.2	54.0	8.4	11.3	5.6	4.8	Sep-05
SEG Baxter Street	41,164,845	6.3	5.0	1.5	0.5	24.0	48.2	11.0	--	--	12.4	May-16
MSCI ACWI ex USA				1.3	3.5	28.7	49.4	6.5	9.8	4.9	9.4	May-16
Schroder International Alpha Trust Class 1	52,521,929	8.0	4.0	1.6	3.7	34.4	62.9	11.7	12.7	--	8.6	Mar-12
MSCI ACWI ex USA				1.3	3.5	28.7	49.4	6.5	9.8	4.9	6.1	Mar-12
Baillie Gifford International Growth Fund Class K	30,210,356	4.6	3.0	-4.0	-2.6	--	--	--	--	--	17.6	Oct-20
MSCI ACWI ex USA				1.3	3.5	28.7	49.4	6.5	9.8	4.9	21.1	Oct-20

Since inception return is 8.6% gross of fees. Prior to 1999, performance history does not capture separate net and gross returns.

In November 2019, Loomis Sayles and Schroders transitioned from a mutual fund to a CIT structure. Performance prior to transitioning to the CIT investment vehicle is linked to mutual fund performance history.

SEG Baxter Street and UBS is preliminary as of 03/31/2021 and is subject to change when finalized.



MWRA Employees' Retirement System

TOTAL FUND PERFORMANCE DETAIL (NET)

	Market Value (\$)	% of Portfolio	Policy %	1 Mo (%)	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Emerging Markets Equity	18,304,636	2.8	7.0	-3.2	--	--	--	--	--	--	-3.2	Mar-21
<i>MSCI Emerging Markets</i>				-1.5	2.3	34.1	58.4	6.5	12.1	3.7	-1.5	Mar-21
Axiom Emerging Markets Trust Class 2	18,304,636	2.8	7.0	-3.2	--	--	--	--	--	--	-3.2	Mar-21
<i>MSCI Emerging Markets</i>				-1.5	2.3	34.1	58.4	6.5	12.1	3.7	-1.5	Mar-21
Total Fixed Income	163,072,283	24.9	24.0	-0.8	-2.3	1.8	8.2	5.4	5.0	4.8	6.5	Mar-99
Garcia Hamilton Fixed Income Aggregate	45,302,089	6.9	6.0	-1.1	-3.3	-2.0	2.7	4.2	--	--	4.2	Apr-18
<i>BBgBarc US Aggregate TR</i>				-1.2	-3.4	-2.1	0.7	4.7	3.1	3.4	4.7	Apr-18
Lord Abbett Core Fixed Income	25,909,944	4.0	4.0	-1.1	-2.6	-0.1	4.0	5.0	--	--	5.0	Apr-18
<i>BBgBarc US Aggregate TR</i>				-1.2	-3.4	-2.1	0.7	4.7	3.1	3.4	4.7	Apr-18
Rhumbline TIPS	31,395,484	4.8	4.0	-0.2	-1.5	3.2	7.6	5.7	--	--	4.0	Jun-16
<i>BBgBarc US TIPS TR</i>				-0.2	-1.5	3.2	7.5	5.7	3.9	3.4	4.1	Jun-16
Loomis Sayles Multisector Full Discretion Trust	48,548,262	7.4	8.0	-0.8	-2.4	4.1	14.7	6.6	6.9	5.8	7.8	Mar-99
<i>BBgBarc US Aggregate TR</i>				-1.2	-3.4	-2.1	0.7	4.7	3.1	3.4	4.7	Mar-99
<i>BBgBarc US High Yield TR</i>				0.1	0.8	12.3	23.7	6.8	8.1	6.5	6.9	Mar-99
Octagon Senior Secured Credit Cayman Fund Ltd. - Class L Acc, Series 1	11,861,005	1.8	2.0	0.0	1.4	8.5	17.2	--	--	--	4.4	Aug-19
<i>Credit Suisse Leveraged Loan</i>				0.1	2.0	10.1	20.8	4.1	5.3	4.4	4.0	Aug-19
Invesco Mortgage Recovery Loans Feeder Fund	55,499	0.0		0.0	0.0	0.2	0.1	3.7	0.9	6.2	11.7	Apr-10
<i>BBgBarc US Aggregate TR</i>				-1.2	-3.4	-2.1	0.7	4.7	3.1	3.4	3.6	Apr-10
Total Hedge Fund	39,202,248	6.0	6.0	0.2	2.5	13.4	19.5	5.2	5.3	3.8	3.6	Oct-06
PRIM Portfolio Completion Strategies	14,740,971	2.3		0.6	5.2	14.4	16.8	4.1	5.5	4.4	4.0	Oct-06
Corbin Pinehurst Partners	12,206,557	1.9		-0.2	1.9	17.3	30.5	--	--	--	9.4	Nov-18
<i>HFRI Fund of Funds Composite Index</i>				-0.3	1.9	14.8	23.8	5.4	5.6	3.4	7.8	Nov-18
UBS Neutral Alpha Strategies	11,504,804	1.8		0.0	-0.1	9.0	14.3	--	--	--	6.4	Nov-18
<i>HFRI Fund of Funds Composite Index</i>				-0.3	1.9	14.8	23.8	5.4	5.6	3.4	7.8	Nov-18
Entrust Peru Wind Down	749,916	0.1		-0.1	-0.6	1.1	-0.2	-4.0	--	--	-4.0	Dec-17
<i>HFRI Fund of Funds Composite Index</i>				-0.3	1.9	14.8	23.8	5.4	5.6	3.4	5.2	Dec-17
Other	5,308,300	0.8	0.0	0.0	0.0	0.0	0.2	1.6	1.3	0.7	0.7	Dec-10
Cash Account	5,308,300	0.8		0.0	0.0	0.0	0.2	1.6	1.3	0.7	1.8	Feb-00
<i>91 Day T-Bills</i>				0.0	0.0	0.1	0.1	1.4	1.1	0.6	1.5	Feb-00

Importantly, all returns in this report, including those of the private real estate managers, are based on a time weighted return calculation and not based on IRRs, which can result in return differences.

Corbin Pinehurst Partners, Entrust Peru Wind Down, and UBS Neutral Alpha Strategies are preliminary as of 03/31/2021 and are subject to change when finalized.



MWRA Employees' Retirement System

TOTAL FUND PERFORMANCE DETAIL (NET)

	Market Value (\$)	% of Portfolio	Policy %	1 Mo (%)	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Total Real Estate	50,214,993	7.7	10.0	1.7	1.7	3.9	2.9	5.9	7.1	10.0	7.7	Apr-99
<i>NCREIF Property Index</i>				0.0	0.0	1.9	0.9	4.3	5.4	8.6	8.4	Apr-99
Morgan Stanley Prime Property (\$2.8m commitment in '95)	20,532,911	3.1		1.9	1.9	4.5	2.6	5.0	6.6	10.4	8.4	Sep-95
TA Realty Core Property Fund, LP (\$15m commitment in '19)	20,846,063	3.2		2.3	2.3	6.8	6.3	--	--	--	6.7	Jun-19
Invesco Mortgage Recovery II (\$3M commitment in '15)	705,912	0.1		0.0	0.0	-51.1	-51.5	-12.0	-3.2	--	-3.2	Oct-15
Landmark VI (\$2m commitment in '11)	91,255	0.0		0.0	0.0	-6.6	-11.2	-11.4	-7.1	--	3.4	Jul-11
Landmark VIII (\$4m commitment in '17)	1,391,681	0.2		0.0	0.0	3.6	-2.9	3.4	--	--	12.4	Nov-17
Courtland/Mesirov MFire (\$2m commitment in '11)	628,063	0.1		0.0	0.0	0.5	-1.6	-1.9	1.7	--	2.3	May-12
Cerberus (\$1.5m commitment in '12)	547,738	0.1		0.0	0.0	10.1	10.5	9.6	7.8	--	12.2	May-13
TA Realty Fund X LP (\$3.5m commitment in '12)	368,765	0.1		0.0	0.0	-1.9	-2.6	6.2	6.8	--	8.6	May-13
TerraCap Partners III, LP (\$2.6m commitment in '15)	1,725,435	0.3		0.0	0.0	3.0	3.8	4.4	10.2	--	10.4	Jul-15
TerraCap Partners IV, LP (\$4m commitment in '17)	3,377,170	0.5		0.0	0.0	1.7	2.5	7.9	--	--	8.2	Nov-17
Total Private Equity	57,318,572	8.8	10.0	1.7	1.7	13.7	18.0	8.0	9.3	10.4	9.1	Apr-99
<i>CJA US All PE</i>				0.0	0.0	24.9	36.7	14.7	15.5	13.4	12.7	Apr-99
<i>NASDAQ W/O Income</i>				0.4	2.8	31.7	72.0	23.3	22.2	16.9	8.0	Apr-99
PRIM Vintage Year 2008 (\$3m commitment in '08)	1,036,912	0.2		5.1	5.0	36.6	10.9	11.6	16.5	17.8	8.9	Jun-08
PRIM Vintage Year 2009 (\$1m commitment in '09)	179,421	0.0		21.0	20.9	112.2	87.5	42.7	30.7	23.7	13.9	Nov-09
PRIM Vintage Year 2010 (\$1m commitment in '10)	638,975	0.1		16.0	16.0	60.2	54.3	22.5	20.8	15.5	11.3	Jun-10
PRIM Vintage Year 2011 (\$1.5m commitment in '11)	1,058,280	0.2		14.3	13.9	34.0	23.3	17.9	19.2	5.7	5.7	May-11
PRIM Vintage Year 2012 (\$1m commitment in '12)	792,473	0.1		15.4	15.0	57.2	44.8	24.2	22.4	--	-10.3	Jun-12
PRIM Vintage Year 2014 (\$2m commitment in '14)	2,143,905	0.3		12.9	12.7	43.6	28.3	24.8	22.5	--	5.7	Jun-14
PRIM Vintage Year 2017 (\$2m commitment in '17)	1,701,940	0.3		17.6	18.2	52.4	33.8	15.8	--	--	14.2	May-17
PRIM Vintage Year 2020 (\$5m commitment in '20)	459,552	0.1		9.1	7.6	25.1	15.9	--	--	--	16.0	Mar-20
PRIM Vintage Year 2021 (\$5m commitment in '21)	27,505	0.0		0.0	0.0	--	--	--	--	--	0.0	Dec-20
Alcentra European DLF (\$5m commitment in '14)	921,311	0.1		0.0	0.0	2.7	4.4	-1.0	2.6	--	4.1	Jan-15
Ascent Fund IV (\$2m commitment in '04)	7,413	0.0		0.0	0.0	-2.7	-2.6	-40.7	-43.8	-32.4	-21.2	Jul-04
Ascent Fund IV-B (\$1m commitment in '16)	136,669	0.0		0.0	0.0	-9.5	-11.0	-22.5	--	--	-14.3	Jul-16
Ascent Fund V (\$2m commitment in '08)	1,676,889	0.3		0.0	0.0	5.4	3.8	-4.3	-0.6	5.9	4.3	Oct-08
Ascent VI (\$3m commitment in '15)	2,858,796	0.4		0.0	0.0	2.1	0.4	0.6	3.4	--	0.3	Dec-15
CVI Credit Value Fund IV A LP (\$6m commitment in '17)	6,316,917	1.0		0.0	0.0	10.5	20.1	4.2	--	--	3.8	Dec-17

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MWRA Employees' Retirement System

TOTAL FUND PERFORMANCE DETAIL (NET)

	Market Value (\$)	% of Portfolio	Policy %	1 Mo (%)	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Invesco Fund IV (\$3m commitment in '03)	1,381	0.0		0.0	0.0	-9.9	-12.2	-20.9	-9.8	0.4	--	Feb-04
Invesco Fund VI (\$5m commitment in '13)	6,853,465	1.0		0.0	0.0	14.2	28.7	12.0	13.4	--	14.0	Jul-13
Kayne Energy Fund VII (\$5m commitment in '15)	1,278,252	0.2		0.0	0.0	-12.0	-22.6	-43.4	-19.9	--	-19.3	Jan-16
Foundry 2007 (\$3m commitment in '07)	320,973	0.0		0.0	0.0	61.1	42.0	-12.1	-8.0	4.6	18.4	Dec-07
Foundry 2010 (\$3m commitment in '10)	3,949,779	0.6		0.0	0.0	30.5	30.1	12.5	9.9	10.6	9.9	Jan-11
Foundry 2010 Annex (\$0.4m commitment in '15)	456,811	0.1		0.0	0.0	129.7	129.5	57.5	36.2	--	30.4	Sep-15
Pinebridge PEP V (\$6m commitment in '07)	743,228	0.1		0.0	0.0	4.6	34.0	1.9	2.2	7.9	--	Mar-08
Landmark XV (\$3m commitment in '13)	1,246,194	0.2		0.0	0.0	18.0	0.1	5.1	9.1	--	11.4	Nov-13
JFL Equity Investors IV, L.P. (\$6m commitment in '16)	6,555,172	1.0		0.0	0.0	2.7	11.0	37.0	--	--	30.1	Jan-17
Private Advisors Small Co. Coinvestment Fund, LP (\$4m commitment in '17)	4,254,494	0.7		0.0	0.0	8.9	20.2	20.5	--	--	17.4	Feb-17
Park Square Credit Opportunities III (\$3m commitment in '17)	2,621,126	0.4		0.0	0.0	3.1	4.7	8.1	--	--	5.9	Feb-18
Ironsides Constitution Opportunities (\$3m commitment in '18)	2,478,906	0.4		0.0	0.0	7.4	13.3	--	--	--	9.2	Sep-18
HarbourVest Dover Street X (\$9m commitment in '20)	2,216,423	0.3		0.0	0.0	7.9	--	--	--	--	83.4	Jun-20
Hamilton Lane Secondary Fund V LP (\$9m commitment in '20)	2,098,715	0.3		0.0	0.0	29.0	--	--	--	--	29.0	Jul-20
JFL Equity Investors V, L.P. (\$8m commitment in '20)	2,286,697	0.3		0.0	0.0	--	--	--	--	--	-7.9	Sep-20
<i>Private Equity Benchmark (1 Qtr. Lag)</i>				13.2	13.2	36.7	22.9	15.7	15.5	13.7	36.7	Sep-20

Importantly, all returns in this report, including those of the private markets managers, are based on a time weighted return calculation and not based on IRRs, which can result in return differences.



MWRA Employees' Retirement System

ESTIMATED FEE SCHEDULE

Account	Fee Schedule	Market Value As of 3/31/2021	% of Portfolio	Estimated Annual Fee (\$)	Estimated Annual Fee (%)
PRIT Core Fund	0.49% of Assets	\$4,771,067	0.7%	\$23,378	0.49%
Rhumblin Advisors S&P 500 Index Fund	0.05% of Assets	\$61,920,084	9.5%	\$30,960	0.05%
Coho Relative Value Equity	0.50% of First 75.0 Mil, 0.40% of Next 75.0 Mil, 0.35% Thereafter	\$41,024,374	6.3%	\$205,122	0.50%
Polen Focused Growth	0.65% of Assets	\$39,600,256	6.1%	\$257,402	0.65%
Boston Partners Small Cap Value	1.00% of Assets	\$26,430,329	4.0%	\$264,303	1.00%
Loomis Sayles Small Cap Growth	0.45% of Assets	\$22,840,454	3.5%	\$102,782	0.45%
SEG Baxter Street	1.00% of Assets	\$41,164,845	6.3%	\$411,648	1.00%
Schroder International Alpha Trust Class 1	0.55% of Assets	\$52,521,929	8.0%	\$288,871	0.55%
Baillie Gifford International Growth Fund Class K	0.60% of Assets	\$30,210,356	4.6%	\$181,262	0.60%
Axiom Emerging Markets Trust Class 2	0.73% of Assets	\$18,304,636	2.8%	\$133,624	0.73%
Garcia Hamilton Fixed Income Aggregate	0.25% of First 25.0 Mil, 0.20% Thereafter	\$45,302,089	6.9%	\$103,104	0.23%
Lord Abbett Core Fixed Income	0.19% of Assets	\$25,909,944	4.0%	\$49,229	0.19%
Rhumblin TIPS	0.05% of First 50.0 Mil, 0.04% Thereafter	\$31,395,484	4.8%	\$15,698	0.05%
Loomis Sayles Multisector Full Discretion Trust	0.50% of First 20.0 Mil, 0.40% of Next 20.0 Mil, 0.30% Thereafter	\$48,548,262	7.4%	\$205,645	0.42%
Octagon Senior Secured Credit Cayman Fund Ltd. - Class L Acc, Series 1	0.40% of Assets	\$11,861,005	1.8%	\$47,444	0.40%
Invesco Mortgage Recovery Loans Feeder Fund	No Fee	\$55,499	0.0%	--	--
PRIM Portfolio Completion Strategies	No Fee	\$14,740,971	2.3%	--	--
Corbin Pinehurst Partners	0.85% of Assets	\$12,206,557	1.9%	\$103,756	0.85%
UBS Neutral Alpha Strategies	0.90% of Assets	\$11,504,804	1.8%	\$103,543	0.90%
Entrust Peru Wind Down	0.50% of Assets	\$749,916	0.1%	\$3,750	0.50%
Cash Account	No Fee	\$5,308,300	0.8%	--	--
Morgan Stanley Prime Property (\$2.8m commitment in '95)	No Fee	\$20,532,911	3.1%	--	--
TA Realty Core Property Fund, LP (\$15m commitment in '19)	No Fee	\$20,846,063	3.2%	--	--
Invesco Mortgage Recovery II (\$3M commitment in '15)	No Fee	\$705,912	0.1%	--	--
Landmark VI (\$2m commitment in '11)	No Fee	\$91,255	0.0%	--	--



MWRA Employees' Retirement System

ESTIMATED FEE SCHEDULE

Account	Fee Schedule	Market Value As of 3/31/2021	% of Portfolio	Estimated Annual Fee (\$)	Estimated Annual Fee (%)
Landmark VIII (\$4m commitment in '17)	No Fee	\$1,391,681	0.2%	--	--
Courtland/Mesirow MFire (\$2m commitment in '11)	No Fee	\$628,063	0.1%	--	--
Cerberus (\$1.5m commitment in '12)	No Fee	\$547,738	0.1%	--	--
TA Realty Fund X LP (\$3.5m commitment in '12)	No Fee	\$368,765	0.1%	--	--
TerraCap Partners III, LP (\$2.6m commitment in '15)	No Fee	\$1,725,435	0.3%	--	--
TerraCap Partners IV, LP (\$4m commitment in '17)	No Fee	\$3,377,170	0.5%	--	--
PRIM Vintage Year 2008 (\$3m commitment in '08)	No Fee	\$1,036,912	0.2%	--	--
PRIM Vintage Year 2009 (\$1m commitment in '09)	No Fee	\$179,421	0.0%	--	--
PRIM Vintage Year 2010 (\$1m commitment in '10)	No Fee	\$638,975	0.1%	--	--
PRIM Vintage Year 2011 (\$1.5m commitment in '11)	No Fee	\$1,058,280	0.2%	--	--
PRIM Vintage Year 2012 (\$1m commitment in '12)	No Fee	\$792,473	0.1%	--	--
PRIM Vintage Year 2014 (\$2m commitment in '14)	No Fee	\$2,143,905	0.3%	--	--
PRIM Vintage Year 2017 (\$2m commitment in '17)	No Fee	\$1,701,940	0.3%	--	--
PRIM Vintage Year 2020 (\$5m commitment in '20)	No Fee	\$459,552	0.1%	--	--
PRIM Vintage Year 2021 (\$5m commitment in '21)	No Fee	\$27,505	0.0%	--	--
Alcentra European DLF (\$5m commitment in '14)	No Fee	\$921,311	0.1%	--	--
Ascent Fund IV (\$2m commitment in '04)	No Fee	\$7,413	0.0%	--	--
Ascent Fund IV-B (\$1m commitment in '16)	No Fee	\$136,669	0.0%	--	--
Ascent Fund V (\$2m commitment in '08)	No Fee	\$1,676,889	0.3%	--	--
Ascent VI (\$3m commitment in '15)	No Fee	\$2,858,796	0.4%	--	--
CVI Credit Value Fund IV A LP (\$6m commitment in '17)	No Fee	\$6,316,917	1.0%	--	--
Invesco Partnership Fund IV (\$3m commitment in '03)	No Fee	\$1,381	0.0%	--	--
Invesco Fund VI (\$5m commitment in '13)	No Fee	\$6,853,465	1.0%	--	--
Kayne Energy Fund VII (\$5m commitment in '15)	No Fee	\$1,278,252	0.2%	--	--
Foundry 2007 (\$3m commitment in '07)	No Fee	\$320,973	0.0%	--	--
Foundry 2010 (\$3m commitment in '10)	No Fee	\$3,949,779	0.6%	--	--
Foundry 2010 Annex (\$0.4m commitment in '15)	No Fee	\$456,811	0.1%	--	--
Pinebridge (AIG) PEP V Asia (\$6m commitment in '07)	No Fee	\$59,005	0.0%	--	--
Pinebridge (AIG) PEP V Co-Investment (\$6m commitment in '07)	No Fee	\$61,898	0.0%	--	--
Pinebridge (AIG) PEP V Europe (\$6m commitment in '07)	No Fee	\$27,626	0.0%	--	--



MWRA Employees' Retirement System

ESTIMATED FEE SCHEDULE

Account	Fee Schedule	Market Value As of 3/31/2021	% of Portfolio	Estimated Annual Fee (\$)	Estimated Annual Fee (%)
Pinebridge (AIG) PEP V Large Market US Buyout (\$6m commitment in '07)	No Fee	\$127,137	0.0%	--	--
Pinebridge (AIG) PEP V Preferred Participation Fund (\$6m commitment in '07)	No Fee	\$239,501	0.0%	--	--
Pinebridge (AIG) PEP V Secondary (\$6m commitment in '07)	No Fee	\$34,233	0.0%	--	--
Pinebridge (AIG) PEP V Small-Mid Market US Buyout (\$6m commitment in '07)	No Fee	\$96,198	0.0%	--	--
Pinebridge (AIG) PEP V US Venture (\$6m commitment in '07)	No Fee	\$97,630	0.0%	--	--
Landmark XV (\$3m commitment in '13)	No Fee	\$1,246,194	0.2%	--	--
JFL Equity Investors IV, L.P. (\$6m commitment in '16)	No Fee	\$6,555,172	1.0%	--	--
Private Advisors Small Co. Coinvestment Fund, LP (\$4m commitment in '17)	No Fee	\$4,254,494	0.7%	--	--
Park Square Credit Opportunities III (\$3m commitment in '17)	No Fee	\$2,621,126	0.4%	--	--
Ironsides Constitution Opportunities (\$3m commitment in '18)	No Fee	\$2,478,906	0.4%	--	--
HarbourVest Dover Street X (\$9m commitment in '20)	No Fee	\$2,216,423	0.3%	--	--
Hamilton Lane Secondary Fund V LP (\$9m commitment in '20)	No Fee	\$2,098,715	0.3%	--	--
JFL Equity Investors V, L.P. (\$8m commitment in '20)	No Fee	\$2,286,697	0.3%	--	--
Investment Management Fee		\$653,904,726	100.0%	\$2,531,520	0.39%

Note:

Estimate fee for privates are ~\$1,301,900 annually, which brings the total expense ratio for privates to ~20 bps. This brings the total estimated expense ratio for MWRA to ~58 bps.



MWRA Employees' Retirement System

NOTES

- 1 - Results for periods longer than one year are annualized.
- 2 - Total Balances, Large Cap, Small Cap, and Other Composite performance starts 12/1/2010.
- 3 - Preliminary Total Composite net of fee since inception return is 7.0% for the current month.
- 4 - Preliminary Total Composite gross of fee since inception return is 8.6% for the current month.
- 5 - Targets, Allocation Index, and Policy Index have been updated to reflect new allocation of 06/01/2020.
- 6 - Policy Index changed from Nasdaq to Cambridge All PE to reflect as of 5/1/2012.
- 7 - Policy Index Consists of: 24% S&P 500, 7% Russell 2000, 12% MSCI ACWI IMI , 7% MSCI Emerging Markets, 10% BBgBarc US Aggregate TR, 4% BBgBarc US TIPS TR, 10% BBgBarc US Universal TR, 10% NCREIF Property Index, 10% C|A US All PE , 6% HFRI Fund of Funds Composite Index.
- 8 - Allocation index consists of: Weighted index of underlying managers to their respective benchmark.



DISCLAIMERS & DISCLOSURES

- Past performance is no guarantee of future results.
- Returns for pooled funds, e.g. mutual funds and collective investment trusts, are collected from third parties; they are not generally calculated by NEPC. Returns for separate accounts, with some exceptions, are calculated by NEPC. Returns are reported net of manager fees unless otherwise noted.
- A “since inception” return, if reported, begins with the first full month after funding, although actual inception dates (e.g. the middle of a month) and the timing of cash flows are taken into account in Composite return calculations.
- NEPC’s preferred data source is the plan’s custodian bank or record-keeper. If data cannot be obtained from one of the preferred data sources, data provided by investment managers may be used. Information on market indices and security characteristics is received from additional providers. While NEPC has exercised reasonable professional care in preparing this report, we cannot guarantee the accuracy of all source information contained within. In addition, some index returns displayed in this report or used in calculation of a policy index, allocation index or other custom benchmark may be preliminary and subject to change.
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