

# FUND EVALUATION REPORT

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## District of Columbia Retirement Board

Quarterly Summary  
December 31, 2016



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As of December 31, 2016

## Allocation vs. Targets and Policy

	Current Balance	Current Allocation	Policy	Policy Range
US Equity	\$1,697,156,797	24%	21%	17% - 25%
Developed Market Equity	\$1,424,336,790	20%	18%	14% - 22%
Emerging Market Equity	\$698,702,777	10%	9%	7% - 11%
Investment Grade Bonds	\$852,484,119	12%	12%	7% - 17%
TIPS	\$347,824,024	5%	4%	3% - 5%
Foreign Bonds	\$159,203,530	2%	2%	1% - 3%
Emerging Market Bonds	\$246,527,402	4%	3%	2% - 4%
High Yield Bonds	\$252,254,394	4%	3%	2% - 4%
Bank Loans	\$225,207,598	3%	3%	2% - 4%
Private Equity	\$305,976,993	4%	8%	5% - 11%
Real Estate	\$263,438,097	4%	4%	2% - 6%
Infrastructure / Opportunistic	\$126,132,333	2%	2%	0% - 4%
Energy	\$48,189,341	1%	1%	0% - 3%
Absolute Return	\$295,231,111	4%	10%	8% - 12%
Cash	\$14,754,166	0%	0%	0% - 2%
<b>Total</b>	<b>\$6,957,419,470</b>	<b>100%</b>	<b>100%</b>	

## Total Fund Aggregate

As of December 31, 2016

## Market Value Summary

	Market Value 9/30/16 (\$)	Market Value 12/31/16 (\$)	% of Sector	% of Portfolio
<b>Total Fund Aggregate</b>	<b>6,774,107,054</b>	<b>6,957,419,470</b>	<b>--</b>	<b>100.0</b>
<b>Domestic Equity</b>	<b>1,592,678,726</b>	<b>1,697,156,798</b>	<b>24.4</b>	<b>24.4</b>
Northern Trust Russell 3000 Index	1,322,892,096	1,415,995,093	83.4	20.4
Sands Large Cap Growth Equity	129,679,321	119,951,018	7.1	1.7
Channing Small Cap Value Equity	140,107,309	161,210,686	9.5	2.3
<b>International Developed Market Equity</b>	<b>1,403,815,876</b>	<b>1,424,336,790</b>	<b>20.5</b>	<b>20.5</b>
SSgA MSCI World (ex U.S.) Index - NL	1,134,730,142	1,166,578,096	81.9	16.8
Copper Rock International Small Cap	132,681,483	123,156,085	8.6	1.8
Altrinsic International Equity	136,404,252	134,602,609	9.5	1.9
<b>International Emerging Market Equity</b>	<b>725,123,447</b>	<b>698,702,777</b>	<b>10.0</b>	<b>10.0</b>
SSgA MSCI Emerging Markets Index - NL	608,018,245	582,361,762	83.3	8.4
LSV Emerging Markets Value Equity	117,105,202	116,341,015	16.7	1.7
<b>Fixed Income</b>	<b>2,014,471,162</b>	<b>2,083,501,065</b>	<b>29.9</b>	<b>29.9</b>
BlackRock US Debt Index	843,633,059	852,484,119	40.9	12.3
BlackRock U.S. TIPS	310,708,409	347,824,024	16.7	5.0
DDJ High Yield Bond	242,601,620	252,254,394	12.1	3.6
Stone Harbor Emerging Markets Local Currency Debt	251,877,025	246,527,402	11.8	3.5
Mondrian International Fixed Income	177,797,109	159,203,530	7.6	2.3
Beach Point Loan Fund	187,853,940	225,207,598	10.8	3.2



## Total Fund Aggregate

As of December 31, 2016

	Market Value 9/30/16 (\$)	Market Value 12/31/16 (\$)	% of Sector	% of Portfolio
<b>Absolute Return</b>	<b>269,804,432</b>	<b>295,231,111</b>	<b>4.2</b>	<b>4.2</b>
Bridgewater Pure Alpha	269,804,432	295,231,111	100.0	4.2
<b>Private Equity</b>	<b>303,044,578</b>	<b>305,976,993</b>	<b>4.4</b>	<b>4.4</b>
<b>Real Assets</b>	<b>440,135,857</b>	<b>437,759,771</b>	<b>6.3</b>	<b>6.3</b>
<b>Real Estate</b>	<b>270,112,770</b>	<b>263,438,097</b>	<b>60.2</b>	<b>3.8</b>
Northern Trust Global Real Estate Index Fund NL	152,237,488	143,777,657	54.6	2.1
Private Real Estate	117,875,283	119,660,440	45.4	1.7
<b>Infrastructure/Opportunistic</b>	<b>119,916,590</b>	<b>126,132,333</b>	<b>28.8</b>	<b>1.8</b>
<b>Private Energy</b>	<b>50,106,496</b>	<b>48,189,341</b>	<b>11.0</b>	<b>0.7</b>
<b>Cash</b>	<b>25,032,979</b>	<b>14,754,165</b>	<b>0.2</b>	<b>0.2</b>
Northern Trust STIF	25,032,979	14,754,166	100.0	0.2

As of December 31, 2016

## Asset Class Performance Summary

	Market Value (\$)	% of Portfolio	QTD (%)	YTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Return (%)	Since
<b>Total Fund Aggregate</b>	<b>6,957,419,470</b>	<b>100.0</b>	<b>0.1</b>	<b>7.5</b>	<b>0.1</b>	<b>7.5</b>	<b>3.1</b>	<b>7.0</b>	<b>4.0</b>	<b>8.7</b>	<b>Oct-82</b>
<b>Total Fund Aggregate<sup>1</sup></b>			<b>0.1</b>	<b>7.4</b>	<b>0.1</b>	<b>7.4</b>	<b>2.9</b>	<b>6.9</b>	<b>3.8</b>	<b>--</b>	
<i>Interim Policy Benchmark</i>			<i>0.0</i>	<i>7.9</i>	<i>0.0</i>	<i>7.9</i>	<i>3.2</i>	<i>7.0</i>	<i>4.3</i>	<i>9.7</i>	<i>Oct-82</i>
<i>Long-Term Policy Benchmark</i>			<i>0.2</i>	<i>8.0</i>	<i>0.2</i>	<i>8.0</i>	<i>3.5</i>	<i>7.0</i>	<i>4.1</i>	<i>9.6</i>	<i>Oct-82</i>
<i>60% MSCI ACWI / 40% Barclays Global Aggregate</i>			<i>-2.2</i>	<i>5.7</i>	<i>-2.2</i>	<i>5.7</i>	<i>1.9</i>	<i>5.8</i>	<i>3.8</i>	<i>--</i>	<i>Oct-82</i>
<b>Domestic Equity</b>	<b>1,697,156,798</b>	<b>24.4</b>	<b>4.2</b>	<b>12.4</b>	<b>4.2</b>	<b>12.4</b>	<b>8.1</b>	<b>14.7</b>	<b>6.9</b>	<b>10.5</b>	<b>Oct-82</b>
<i>Russell 3000</i>			<i>4.2</i>	<i>12.7</i>	<i>4.2</i>	<i>12.7</i>	<i>8.4</i>	<i>14.7</i>	<i>7.1</i>	<i>11.6</i>	<i>Oct-82</i>
<b>International Developed Market Equity</b>	<b>1,424,336,790</b>	<b>20.5</b>	<b>-1.1</b>	<b>2.5</b>	<b>-1.1</b>	<b>2.5</b>	<b>-0.9</b>	<b>6.8</b>	<b>1.8</b>	<b>5.5</b>	<b>Apr-87</b>
<i>International Developed Equity Custom Benchmark</i>			<i>-0.4</i>	<i>2.7</i>	<i>-0.4</i>	<i>2.7</i>	<i>-1.6</i>	<i>6.1</i>	<i>1.6</i>	<i>5.2</i>	<i>Apr-87</i>
<b>International Emerging Market Equity</b>	<b>698,702,777</b>	<b>10.0</b>	<b>-3.6</b>	<b>12.0</b>	<b>-3.6</b>	<b>12.0</b>	<b>-2.7</b>	<b>1.3</b>	<b>--</b>	<b>-1.0</b>	<b>Sep-11</b>
<i>MSCI Emerging Markets</i>			<i>-4.2</i>	<i>11.2</i>	<i>-4.2</i>	<i>11.2</i>	<i>-2.6</i>	<i>1.3</i>	<i>1.8</i>	<i>-0.9</i>	<i>Sep-11</i>
<b>Fixed Income</b>	<b>2,083,501,065</b>	<b>29.9</b>	<b>-2.7</b>	<b>5.3</b>	<b>-2.7</b>	<b>5.3</b>	<b>1.5</b>	<b>1.9</b>	<b>3.8</b>	<b>7.4</b>	<b>Dec-82</b>
<i>DCRB Fixed Income Custom Benchmark</i>			<i>-2.7</i>	<i>6.1</i>	<i>-2.7</i>	<i>6.1</i>	<i>2.1</i>	<i>2.0</i>	<i>4.2</i>	<i>7.3</i>	<i>Dec-82</i>
<b>Absolute Return</b>	<b>295,231,111</b>	<b>4.2</b>	<b>9.4</b>	<b>2.3</b>	<b>9.4</b>	<b>2.3</b>	<b>2.9</b>	<b>2.6</b>	<b>7.5</b>	<b>6.7</b>	<b>Jul-06</b>
<i>HFRI Macro (Total) Index</i>			<i>-0.5</i>	<i>1.2</i>	<i>-0.5</i>	<i>1.2</i>	<i>1.8</i>	<i>1.0</i>	<i>2.8</i>	<i>3.1</i>	<i>Jul-06</i>
<i>Spliced Hedge Fund Benchmark</i>			<i>1.5</i>	<i>5.8</i>	<i>1.5</i>	<i>5.8</i>	<i>5.5</i>	<i>3.6</i>	<i>2.7</i>	<i>2.8</i>	<i>Jul-06</i>
<b>Private Equity</b>	<b>305,976,993</b>	<b>4.4</b>	<b>2.4</b>	<b>6.8</b>	<b>2.4</b>	<b>6.8</b>	<b>7.3</b>	<b>9.9</b>	<b>7.7</b>	<b>7.8</b>	<b>Jan-87</b>
<i>Cambridge Spliced US/Global PE &amp; VC Index</i>			<i>3.8</i>	<i>8.6</i>	<i>3.8</i>	<i>8.6</i>	<i>11.0</i>	<i>12.3</i>	<i>9.7</i>	<i>14.0</i>	<i>Jan-87</i>
<i>Russell/MSCI+3% Index (1 Quarter Lagged)</i>			<i>6.1</i>	<i>15.3</i>	<i>6.1</i>	<i>15.3</i>	<i>8.3</i>	<i>13.9</i>	<i>6.8</i>	<i>12.1</i>	<i>Jan-87</i>
<b>Real Assets</b>	<b>437,759,771</b>	<b>6.3</b>	<b>0.6</b>	<b>11.5</b>	<b>0.6</b>	<b>11.5</b>	<b>9.2</b>	<b>9.0</b>	<b>2.3</b>	<b>4.2</b>	<b>Mar-96</b>
<i>CPI + 5.5%</i>			<i>1.5</i>	<i>7.8</i>	<i>1.5</i>	<i>7.8</i>	<i>7.0</i>	<i>7.1</i>	<i>7.2</i>	<i>7.5</i>	<i>Mar-96</i>
<b>Real Estate</b>	<b>263,438,097</b>	<b>3.8</b>	<b>-2.8</b>	<b>6.6</b>	<b>-2.8</b>	<b>6.6</b>	<b>7.6</b>	<b>8.5</b>	<b>0.9</b>	<b>2.1</b>	<b>Apr-88</b>
<i>Real Estate Benchmark</i>			<i>0.4</i>	<i>7.6</i>	<i>0.4</i>	<i>7.6</i>	<i>11.0</i>	<i>10.5</i>	<i>4.3</i>	<i>7.8</i>	<i>Apr-88</i>
<i>Private Real Estate</i>	<i>119,660,440</i>	<i>1.7</i>	<i>0.7</i>	<i>9.0</i>	<i>0.7</i>	<i>9.0</i>	<i>9.7</i>	<i>10.8</i>	<i>3.0</i>	<i>2.4</i>	<i>Apr-88</i>
<i>Cambridge Real Estate (1 Quarter Lagged)</i>			<i>2.0</i>	<i>8.0</i>	<i>2.0</i>	<i>8.0</i>	<i>11.6</i>	<i>10.9</i>	<i>3.9</i>	<i>8.0</i>	<i>Apr-88</i>

<sup>1</sup> Net of fees

## Total Fund Aggregate

As of December 31, 2016

	Market Value (\$)	% of Portfolio	QTD (%)	YTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Return (%)	Since
<b>Infrastructure/Oppportunistic</b>	<b>126,132,333</b>	<b>1.8</b>	<b>2.9</b>	<b>17.8</b>	<b>2.9</b>	<b>17.8</b>	<b>12.6</b>	<b>9.7</b>	<b>--</b>	<b>8.8</b>	<b>Jun-08</b>
<i>Cambridge Infrastructure (1 Quarter Lagged)</i>			1.5	9.7	1.5	9.7	8.2	7.7	6.8	4.6	Jun-08
<b>Private Energy</b>	<b>48,189,341</b>	<b>0.7</b>	<b>13.0</b>	<b>20.1</b>	<b>13.0</b>	<b>20.1</b>	<b>11.4</b>	<b>--</b>	<b>--</b>	<b>10.0</b>	<b>Oct-12</b>
<i>CA Energy Upstream, Royalties, and PE (1 Quarter Lagged)</i>			4.0	-0.8	4.0	-0.8	-14.0	-6.1	2.7	-9.1	Oct-12
<b>Cash</b>	<b>14,754,165</b>	<b>0.2</b>	<b>0.2</b>	<b>0.6</b>	<b>0.2</b>	<b>0.6</b>	<b>0.3</b>	<b>0.2</b>	<b>1.1</b>	<b>4.0</b>	<b>Jul-89</b>
<i>91 Day T-Bills</i>			0.1	0.3	0.1	0.3	0.1	0.1	0.7	2.9	Jul-89