### BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND

Form N-Q January 22, 2018

#### **UNITED STATES**

#### SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

#### **FORM N-Q**

# QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED

### MANAGEMENT INVESTMENT COMPANY

Investment Company Act file number: 811-08349

Name of Fund: BlackRock MuniHoldings Investment Quality Fund (MFL)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: John M. Perlowski, Chief Executive Officer, BlackRock

MuniHoldings Investment Quality Fund, 55 East 52<sup>nd</sup> Street, New York, NY 10055

Registrant s telephone number, including area code: (800) 882-0052, Option 4

Date of fiscal year end: 08/31/2018

Date of reporting period: 11/30/2017

Item 1 Schedule of Investments

Schedule of Investments (unaudited)

## BlackRock MuniHoldings Investment Quality Fund (MFL)

November 30, 2017

(Percentages shown are based on Net Assets)

Security Municipal Bonds 126.3%	Par (000)	Value
Alabama 3.4% City of Birmingham Alabama Special Care Facilities Financing Authority, RB, Children s		
Hospital (AGC) <sup>(a)</sup> : 6.00%, 06/01/19 6.13%, 06/01/19 City of Selma Alabama IDB, RB, Gulf Opportunity Zone, International Paper Co. Project,	\$ 10,995 4,980	\$ 11,708,685 5,312,365
Series A, 5.38%, 12/01/35	1,745	1,948,537
Arizona 1.5%		18,969,587
County of Maricopa Arizona IDA, RB, Banner Health, Series A, 5.00%, 01/01/41 Salt River Project Agricultural Improvement & Power District, Refunding RB, Series A,	3,750	4,348,350
5.00%, 01/01/38	900	1,056,897
University of Arizona Board of Regents, Refunding RB, Series A, 5.00%, 06/01/40	2,300	2,639,825
California 24.2%		8,045,072
California Educational Facilities Authority, RB, University of Southern California, Series A,		
5.25%, 10/01/18 <sup>(a)</sup>	4,000	4,130,840
California Health Facilities Financing Authority, RB, Sutter Health, Series B, 6.00%, 08/15/42	5,370	6,022,992
City & County of San Francisco California Airports Commission, Refunding ARB, AMT, Series A:		
2nd, 5.50%, 05/01/28	3,330	3,896,633
2nd, 5.25%, 05/01/33	2,600	2,972,268
5.00%, 05/01/44	3,430	3,856,932
City of Los Angeles California Department of Airports, ARB:		
Sub-Series A, AMT, 5.00%, 05/15/42	4,500	5,231,520
Sub-Series B, 5.00%, 05/15/42	2,500	2,937,850
Subordinate, Los Angeles International Airport, Series B, AMT, 5.00%, 05/15/46 City of Los Angeles California Department of Water & Power, RB, Power System,	4,000	4,580,120
Sub-Series A-1, 5.25%, 07/01/38	5,000	5,115,650
City of Manteca California Financing Authority, RB, Manteca Sewer (AGC):		
5.63%, 12/01/33	2,450	2,642,031
	Par	17.1
Security California (continued)	(000)	Value
City of Manteca California Financing Authority, RB, Manteca Sewer (AGC) (continued):		
·	\$ 3,285	\$ 3,547,800
Airport SJC, Series A-1, AMT, 5.75%, 03/01/34	4,450	4,950,358

County of Sacramento California, ARB, Senior Series A (AGC), 5.50%, 07/01/18 <sup>(a)</sup> Irvine Ranch Water District, Special Assessment Bonds, 5.25%, 02/01/46	5,600 7,000	5,736,528 8,399,580
Kern Community College District, GO, Safety, Repair & Improvement, Series C, 5.50%, 11/01/33  Meteopolitan Water District of Southern Collifornia, Refunding RP, Series A, 5.00%	4,365	5,225,734
Metropolitan Water District of Southern California, Refunding RB, Series A, 5.00%, 07/01/32	5,625	6,710,906
Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 08/01/21(a)	3,110	3,541,637
San Diego Public Facilities Financing Authority Water, Refunding RB, Series B (AGC), 5.38%, 08/01/19 <sup>(a)</sup>	2,000	2,124,380
Santa Clara Unified School District, GO, Refunding, 3.00%, 07/01/36	5,580	5,378,953
State of California, GO, Various Purposes (AGC), 5.50%, 11/01/39	15,000	16,127,400
State of California Public Works Board, LRB, Various Capital Projects, Series I: 5.50%, 11/01/30	4,500	5,312,970
5.50%, 11/01/31	2,615	3,082,667
5.50%, 11/01/33	2,000	2,345,600
State of California Public Works Board, RB, Department of Corrections & Rehabilitation,	2 240	2 741 911
Series F, 5.25%, 09/01/33 Township of Washington California Health Care District, GO, Election of 2004, Series B,	3,240	3,741,811
5.50%, 08/01/40	1,685	2,005,757
University of California, Refunding RB, The Regents of Medical Center,	12.250	14 217 227
Series J, 5.25%, 05/15/38	12,250	14,217,227
		133,836,144
Colorado 2.2%		
City & County of Denver Colorado Airport System, ARB, Series A, AMT: 5.50%, 11/15/28 5.50%, 11/15/30 5.50%, 11/15/31	2,700 1,040 1,250	3,132,054 1,198,985 1,437,388
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SCHEDULES OF INVESTMENTS

Schedule of Investments (unaudited) (continued) BlackRock MuniHoldings Investment Quality Fund (MFL)

November 30, 2017

(Percentages shown are based on Net Assets)

Security Colorado (continued)	Par (000)	Value
Colorado Health Facilities Authority, RB, Hospital, NCMC, Inc. Project, Series B (AGM), 6.00%, 05/15/19 <sup>(a)</sup>	\$ 5,925	\$ 6,289,387
		12,057,814
<b>District of Columbia 0.6%</b> District of Columbia Water & Sewer Authority, Refunding RB, Series A, 6.00%, 10/01/18 <sup>(a)</sup>	3,000	3,115,770
Florida 7.3% City of Jacksonville Florida, Refunding RB, Series A, 5.25%, 10/01/33 County of Hillsborough Florida Aviation Authority, Refunding ARB, Tampa International Airport, Series A, AMT:	1,250	1,438,875
5.50%, 10/01/29	5,360	6,201,252
5.25%, 10/01/30	3,255	3,710,798
County of Lee Florida, Refunding ARB, Series A, AMT, 5.38%, 10/01/32	7,100	7,850,754
County of Lee Florida HFA, RB, S/F Housing, Multi-County Program, Series A-2, AMT		
(Ginnie Mae), 6.00%, 09/01/40	420	423,637
County of Manatee Florida HFA, RB, S/F Housing, Series A, AMT (Ginnie Mae, Fannie		
Mae & Freddie Mac), 5.90%, 09/01/40	220	223,247
County of Miami-Dade Florida, RB, Seaport Department:		
Series A, 5.38%, 10/01/33	3,145	3,557,498
Series B, AMT, 6.25%, 10/01/38	1,405	1,671,276
Series B, AMT, 6.00%, 10/01/42	1,885	2,189,446
County of Miami-Dade Florida, Refunding RB, Water & Sewer System, Series B,		
5.25%, 10/01/29	2,870	3,335,801
County of Miami-Dade Florida Aviation, Refunding ARB, Series A, AMT, 5.00%, 10/01/31	5,465	6,063,800
Reedy Creek Florida Improvement District, GO, Series A, 5.25%, 06/01/32	3,225	3,720,360
		40,386,744
Hawaii 2.0%		
State of Hawaii, Department of Transportation, COP, AMT:		
5.25%, 08/01/25	1,350	
5.25%, 08/01/26	2,500	2,803,075
	Par	
Security	(000)	Value
Hawaii (continued) State of Hawaii, Department of Transportation, RB, Series A, AMT, 5.00%, 07/01/45	\$ 5,985	\$ 6,743,060
		11,066,546
Illinois 18.2% City of Chicago Illinois Midway International Airport, Refunding ARB, 2nd Lien,		
Series A, AMT: 5.50%, 01/01/30	6,500	7,387,315

5.50%, 01/01/32	6,275	7,096,586
City of Chicago Illinois Midway International Airport, Refunding GARB, 2nd Lien, Series		
A, AMT, 5.00%, 01/01/41	8,020	8,871,724
City of Chicago Illinois O Hare International Airport, ARB, Senior Lien, Series D, 5.25%,		
01/01/42	2,630	3,106,188
City of Chicago Illinois O Hare International Airport, GARB, 3rd Lien:		
Series A, 5.75%, 01/01/21 <sup>(a)</sup>	6,210	6,960,292
Series A, 5.75%, 01/01/39	1,185	1,313,122
Series C, 6.50%, 01/01/21 <sup>(a)</sup>	16,800	19,205,760
City of Chicago Illinois O Hare International Airport, Refunding ARB, Series C,		
5.00%, 01/01/37	1,000	1,136,320
City of Chicago Illinois Transit Authority, RB:		
Federal Transit Administration, Section 5309, Series A (AGC), 6.00%, 12/01/18 <sup>(a)</sup>	6,000	6,278,160
Sales Tax Receipts, 5.25%, 12/01/40	10,960	11,748,901
City of Chicago Illinois Transit Authority, Refunding RB, Federal Transit Administration,		
Section 5309 (AGM), 5.00%, 06/01/28	7,735	8,124,612
Illinois Finance Authority, RB, Carle Foundation, Series A, 6.00%, 08/15/41	4,000	4,515,800
Railsplitter Tobacco Settlement Authority, RB:		
5.50%, 06/01/23	4,365	4,924,986
6.00%, 06/01/28	1,245	1,399,591

2

BlackRock MuniHoldings Investment Quality Fund (MFL)

Schedule of Investments (unaudited) (continued)

Schedule of investments (unaddited) (continued)	estilicht Quan	ty Fund (MFL)
November 30, 2017 (Percentages sl	nown are based	l on Net Assets)
Security Illinois (continued)	Par (000)	Value
State of Illinois Finance Authority, RB, University of Chicago, Series B, 5.50%, 07/01/	/18 <sup>(a)</sup> \$ 8,000	\$ 8,191,280
		100,260,637
Indiana 4.2%		100,200,007
Indiana Finance Authority, Refunding RB, Stadium Project, Series A, 5.25%, 02/01/37 Indiana Municipal Power Agency, Refunding RB, Series A <sup>(a)</sup> :	3,130	3,659,878
5.25%, 07/01/23	1,500	1,768,080
5.25%, 07/01/23	1,500	1,768,080
Indianapolis Local Public Improvement Bond Bank, Refunding RB, Waterworks Proje Series A (AGC):	ci,	
5.50%, 01/01/19 <sup>(a)</sup>	2,760	2,876,362
5.50%, 01/01/38	11,345	11,802,090
State of Indiana Finance Authority, RB, Private Activity Bond, Ohio River Bridges, Se A, AMT, 5.00%, 07/01/40	ries 1,240	1,339,299
		23,213,789
Kansas 0.9%		-, -,
County of Wyandotte Kansas Unified School District, GO, Series A, 5.50%, 09/01/47	4,000	4,856,320
<b>Kentucky 0.0%</b> Kentucky State Property & Building Commission, Refunding RB, Project No. 93 (AGC 5.25%, 02/01/19 <sup>(a)</sup>	C),	46,861
<b>Louisiana 0.9%</b> City of New Orleans Louisiana Aviation Board, Refunding GARB, Restructuring (AGe Series A-1, 6.00%, 01/01/19 Series A-2, 6.00%, 01/01/19	C) <sup>(a):</sup> 500 720	523,460 753,782
Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, Series A, 5.50%, 05/15/29	3,735	3,922,161
		5,199,403
Massachusetts 1.6% Massachusetts Bay Transportation Authority, Refunding RB, Sub Series A-2, 5.00%, 07/01/40	2,000	2,348,900
Massachusetts Development Finance Agency, Refunding RB, Partners Healthcare Syst 5.00%, 07/01/41	•	5,367,799
Security	(000)	
Massachusetts (continued) Massachusetts Educational Financing Authority, RB, Education Loan, Issue I, AMT, 5.00%, 01/01/27	\$ 1,000	) \$ 1,114,470

Michigan 3.5%		8,831,169
City of Detroit Michigan Water Supply System Revenue, RB, 2nd Lien, Series B (AGM):		
6.25%, 07/01/19 <sup>(a)</sup>	6,310	6,765,456
6.25%, 07/01/36	10	10,622
Hudsonville Michigan Public Schools, GO, School Building & Site (Q-SBLF), 5.25%,		
05/01/21 <sup>(a)</sup>	6,015	6,702,153
Royal Oak Hospital Finance Authority Michigan, Refunding RB, William Beaumont Hospital, Series V, 8.25%, 09/01/18 (a)	5,780	6,074,029
		19,552,260
Minnesota 1.6%  City of Minnesota Defunding DR. Friming Health Services Series R (ACC)		
City of Minneapolis Minnesota, Refunding RB, Fairview Health Services, Series B (AGC), 6.50%, 11/15/38	8,375	8,763,181
0.50 %, 11/15/56	0,373	6,705,161
Mississippi 2.8%		
Mississippi Development Bank, RB, Jackson Water & Sewer System Project (AGM):		
6.88%, 12/01/40	6,405	7,999,781
Special Obligation, 6.75%, 12/01/31	3,775	4,688,739
Special Obligation, 6.75%, 12/01/33	2,350	2,918,817
		15,607,337
Nevada 2.2%  Country of Clork Nevada ABB Lee Veges McCouran International Airmort Society A		
County of Clark Nevada, ARB, Las Vegas-McCarran International Airport, Series A (AGM), 5.25%, 07/01/39	11,175	12,025,529
(11614), 5.25 %, 67761155	11,175	12,023,327
New Jersey 6.9%		
New Jersey EDA, RB, Goethals Bridge Replacement Project, AMT, Private Activity Bond:		
5.38%, 01/01/43	7,000	7,789,390
(AGM), 5.00%, 01/01/31	2,425	2,728,295
New Jersey EDA, Refunding RB, Series B, 5.50%, 06/15/30 New Jersey Health Care Facilities Financing Authority, RB, Virtua Health, Series A (AGC),	2,330	2,699,841
5.50%, 07/01/38	6,500	6,909,630
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SCHEDULES OF INVESTMENTS 3

Schedule of Investments (unaudited) (continued) BlackRock MuniHoldings Investment Quality Fund (MFL)

November 30, 2017

(Percentages shown are based on Net Assets)

Security		Par (000)	Value
New Jersey (continued) New Jersey Higher Education Student Assistance Authority, Refunding RB, Series 1, AMT, 5.75%, 12/01/28 New Jersey Transportation Trust Fund Authority, RB, Transportation System:	\$	2,795	\$ 3,040,401
Series A, 5.50%, 06/15/41 Series AA, 5.50%, 06/15/39		5,410 8,175	5,803,523 8,930,370
			37,901,450
New York 10.1% City of New York New York Municipal Water Finance Authority, Refunding RB, 2nd General Resolution, Series EE:			
Fiscal 2009, 5.25%, 06/15/40 Water & Sewer System, 5.38%, 06/15/43		7,500 3,475	7,900,500 3,831,118
City of New York New York Water & Sewer System, Refunding RB, 2nd General Resolution, Series FF-2, 5.50%, 06/15/40		4,000	4,233,040
Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/21 <sup>(a)</sup> Series A-1, 5.25%, 11/15/39		4,000 4,490	4,538,200 5,238,528
Metropolitan Transportation Authority, Refunding RB:		6,140	
Series B, 5.00%, 11/15/37 Series C-1, 5.25%, 11/15/56 Port Authority of New York & New Jersey, Refunding ARB, Consolidated:		4,000	7,092,068 4,677,640
166th Series, 5.25%, 07/15/36 206th Series, AMT, 5.00%, 11/15/37	-	10,000 850	11,014,400 988,108
Port Authority of New York & New Jersey, Refunding RB, Consolidated, 205th Series, 5.25%, 05/15/42 Triborough Bridge & Tunnel Authority, Refunding RB, General, Series B, 5.00%, 11/15/38		900 4,500	1,080,747 5,280,030
Theoreugh Bridge & Tulmer Huthority, Retunding RB, General, Genes B, 3.00%, Th 13/30		1,500	55,874,379
Ohio 1.5% State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects, Series A-1:		E 145	
5.25%, 02/15/31 Security		5,145 <i>Par</i> (000)	5,927,915 <i>Value</i>
Ohio (continued) State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects, Series A-1		(****)	
(continued): 5.25%, 02/15/32	\$	2,250	\$ 2,587,590
Ponncylvonio 46%			8,515,505
Pennsylvania 4.6% Pennsylvania Turnpike Commission, RB, Sub-Series A, 5.50%, 12/01/46 Township of Bristol Pennsylvania School District, GO, 5.25%, 06/01/37	-	18,570 3,000	21,805,080 3,386,370

		25,191,450
South Carolina 6.8%		
County of Charleston South Carolina, RB, Special Source, 5.25%, 12/01/38	6,735	7,832,940
County of Charleston South Carolina Airport District, ARB, Series A, AMT:		
5.25%, 07/01/25	4,490	5,171,627
5.50%, 07/01/38	3,000	3,395,490
6.00%, 07/01/38	5,270	6,119,998
5.50%, 07/01/41	4,170	4,715,144
State of South Carolina Ports Authority, RB, AMT, 5.25%, 07/01/50	3,445	3,852,750
State of South Carolina Public Service Authority, Refunding RB, Series E, 5.25%, 12/01/55	5,500	6,219,125
		37,307,074
Texas 14.8%		37,307,074
City of Beaumont Texas, GO, Certificates of Obligation, 5.25%, 03/01/37	4,190	4,759,211
City of Houston Texas, GO, Certificates of Configurion, 3.25%, 03/01/37  City of Houston Texas Combined Utility System Revenue, Refunding RB, Combined 1st	4,190	4,739,211
Lien, Series A (AGC):		
6.00%, 05/15/19 <sup>(a)</sup>	12,030	12,778,747
6.00%, 05/15/19 <sup>(a)</sup>	8,940	9,496,425
6.00%, 11/15/35	670	714,093
6.00%, 11/15/36	495	527,576
5.38%, 11/15/38	265	278,510
County of Tarrant Texas Cultural Education Facilities Finance Corp., Refunding RB,	203	270,310
Christus Health, Series A (AGC), 6.50%, 07/01/37	1,450	1,519,832
Dallas-Fort Worth Texas International Airport, ARB, Joint Improvement, AMT:	1,430	1,319,632
<u>.</u>	5,580	5,983,434
Series A, 5.00%, 11/01/38 Series H, 5.00%, 11/01/37	3,380 4,575	5,985,434
	3,735	4,351,910
Lower Colorado River Authority, Refunding RB, 5.50%, 05/15/33	3,133	4,331,910

4

Schedule of Investments (unaudited) (continued)  Blace	kRock MuniHoldings Investment Quali	ty Fund (MFL)
November 30, 2017	(Percentages shown are based	on Net Assets)
Security Texas (continued) No all Trans Tellers Anthonics Beforeline BB, 144 Time(s)	Par (000)	Value
North Texas Tollway Authority, Refunding RB, 1st Tier (a): (AGM), 6.00%, 01/01/21 Series K-1 (AGC), 5.75%, 01/01/19 Red River Texas Education Financing Corp., RB, Texas Chr	\$ 5,555 12,150	\$ 6,276,539 12,687,759
5.25%, 03/15/38 Texas Water Development Board, RB:	7,170	8,143,256
Series A, 5.00%, 10/15/40 State Water Implementation Revenue, 5.25%, 10/15/46	3,170 4,780	3,671,209 5,693,458
T. 1. 4.69		81,883,761
Utah 1.6% County of Utah Utah, RB, IHC Health Services, Inc., Series	B, 5.00%, 05/15/46 7,500	8,613,450
Virginia 1.2% City of Lexington Virginia IDA, RB, Washington & Lee Un State of Virginia Public School Authority, RB, Fluvanna Co		1,923,460
6.50%, 12/01/18 <sup>(a)</sup>	4,300	4,518,268
Weshington 170		6,441,728
Washington 1.7% City of Richland Washington, GO, Refunding, 5.00%, 12/01 City of Seattle Washington Municipal Light & Power, Refundation		1,368,910
5.25%, 02/01/21 <sup>(a)</sup> State of Washington, GO, Various Purposes, Series B, 5.25%	4,200 6, 02/01/21 <sup>(a)</sup> 3,290	4,655,112 3,651,900
		9,675,922
Total Municipal Bonds 126.3% (Cost \$649,127,851)		697,238,882
Municipal Bonds Transferred to Tender Option Bond Tr	rusts <sup>(b)</sup>	
Alabama 8.2% City of Birmingham Alabama Special Care Facilities Finance Senior Credit:	ing Authority, Refunding RB,	
Ascension Health, Series C, 5.00%, 11/15/46	11,920 <i>Par</i>	13,563,112
Security Alabama (continued) City of Birmingham Alabama Special Care Facilities Finance Senior Credit (continued):	(000)	

Ascension Group, Series B, 5.00%, 11/15/46		\$31,630,231
		45,193,343
California 2.6% Los Angeles Unified School District California, GO, Series I, 5.00%, 01/01/34 University of California, Refunding RB, Series AR, 5.00%, 05/15/38	2,400 10,000	2,522,412 11,759,750
		14,282,162
<b>Florida 2.0%</b> County of Hillsborough Florida Aviation Authority, ARB, Tampa International Airport, Series A, AMT (AGC), 5.50%, 10/01/38	10,657	10,937,277
Indiana 1.8%		
Indiana Health & Educational Facilities Financing Authority, Refunding RB, St. Francis, Series E (AGM), 5.25%, 05/01/18	9,850	10,006,319
Massachusetts 2.9%		
Commonwealth of Massachusetts, GO, Series G, 4.00%, 09/01/42	15,000	15,860,950
Nevada 2.4%		
County of Clark Nevada Water Reclamation District, GO: Limited Tax, 6.00%, 07/01/18	8,000	8,214,120
Series B, 5.50%, 07/01/19	5,008	5,309,720
		13,523,840

SCHEDULES OF INVESTMENTS 5

Schedule of Investments (unaudited) (continued) BlackRock MuniHoldings Investment Quality Fund (MFL)

November 30, 2017

(Percentages shown are based on Net Assets)

Security New Jersey 3.3%	Par (000)	Value
New Jersey Housing & Mortgage Finance Agency, RB, S/F Housing, Series CC, 5.25%, 10/01/29	\$ 7,038	\$ 7,228,327
New Jersey Transportation Trust Fund Authority, RB, Transportation System: Series A (AMBAC), 5.00%, 12/15/32	8,000	8,017,920
Series B, 5.25%, 06/15/36 <sup>(c)</sup>	2,961	3,158,426
New York 12.0%		18,404,673
Hudson Yards Infrastructure Corp., RB, Fiscal 2012, Series A, 5.75%, 02/15/47 <sup>(c)</sup> New York Liberty Development Corp., RB, 1 World Trade Center Port Authority	9,249	10,353,220
Consolidated Bonds, 5.25%, 12/15/43 <sup>(c)</sup>	13,950	15,554,278
City of New York New York Transitional Finance Authority, BARB, Fiscal 2009, Series S-3, 5.25%, 01/15/39	5,619	5,839,235
New York City Transitional Finance Authority Future Tax Secured Revenue, RB, Fiscal 2017, Sub-Series B-1, 5.00%, 08/01/40	5,000	5,807,000
New York State Dormitory Authority, ERB, Personal Income Tax, Series B, 5.25%, 03/15/19	13,500	14,124,982
New York Liberty Development Corp., Refunding RB, 4 World Trade Center Project, 5.75%, 11/15/51	8,200	9,279,772
City of New York New York Municipal Water Finance Authority, Refunding RB, Water & Sewer System, 2nd General Resolution, Series FF-2, 5.50%, 06/15/40	4,995	5,280,298
		66,238,785
<b>Texas</b> 7.5%  North Texas Tollway Authority, RB, Special Projects System, Series A, 5.50%, 09/01/21	9,640	10,923,277
Security	ar/Shares (000)	Value
<b>Texas (continued)</b> State of Texas, GO, Texas Transportation Commission, Highway Improvement,		
5.00%, 04/01/43 City of San Antonia Tayas Public Sarviga Poord, Refunding RP, Sarias A	15,550 \$	18,049,040
City of San Antonio Texas Public Service Board, Refunding RB, Series A, 5.25%, 02/01/19 <sup>(c)</sup>	12,027	12,521,017
Tu 1 1 20		41,493.334
Utah 1.2% City of Riverton Utah, RB, IHC Health Services, Inc., 5.00%, 08/15/41	6,373	6,699,077
Total Municipal Bonds Transferred to Tender Option Bond Trusts 43.9% (Cost \$237,398,906)		242,639,760

939,878,642

**Total Investments** 170.2%

(Cost \$886,526,757)

Other Assets Less Liabilities 1.8% 9,699,178

**Liability for TOB Trust Certificates, Including Interest Expense and Fees Payable** (22.3)% (123,284,499)

VRDP Shares at Liquidation Value, Net of Deferred Offering Costs (49.7)%

(274,200,434)

**Net Assets Applicable to Common** 

**Shares** 100.0%

6

\$ 552,092,887

Schedule of Investments (unaudited) (continued)

BlackRock MuniHoldings Investment Quality Fund (MFL)

November 30, 2017

(Percentages shown are based on Net Assets)

- (a) U.S. Government securities, held in escrow, are used to pay interest on this security, as well as to retire the bond in full at the date indicated, typically at a premium to par.
- (b) Represent bonds transferred to a TOB Trust in exchange of cash and residual certificates received by the Trust. These bonds serve as collateral in a secured borrowing.
- (c) All or a portion of security is subject to a recourse agreement. The aggregate maximum potential amount the Trust could ultimately be required to pay under the agreement, which expire between September 6, 2018 to November 15, 2019 is \$19,874,974.

During the period ended November 30, 2017, investments in issuers considered to be an affiliate of the Trust for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

						Change
	Shares		Shares			in
	Held		Held	Value		Net Unrealized
	at	Net	at	at		Realized Appreciation
Affiliate	08/31/17	Activity	11/30/17	11/30/17	Income	$Gain^{(a)}(Depreciation)$
BlackRock Liquidity						
Funds, MuniCash,						
<b>Institutional Class</b>					\$ 1,903	\$ 7

<sup>(</sup>a) Includes net capital gain distributions, if applicable.

For Trust compliance purposes, the Trust s sector classifications refer to one or more of the sector sub-classifications used by one or more widely recognized market indexes or rating group indexes, and/or as defined by the investment adviser. These definitions may not apply for purposes of this report, which may combine such sector sub-classifications for reporting ease

#### **Derivative Financial Instruments Outstanding as of Period End**

### **Futures Contracts**

					Value /
	Number of	Expiration	Notional Amount		Inrealized preciation
Description	Contracts	Date	(000)	(Depreciation)	
Short Contracts					
5-Year U.S. Treasury Note	104	03/29/18	\$ 12,100	\$	45,951
10-Year U.S. Treasury Note	66	03/20/18	8,187		58,986
Long U.S. Treasury Bond	68	03/20/18	10,317		108,184
Total				\$	213,121

### **Portfolio Abbreviations**

AGC Assured Guarantee Corp.

AGM Assured Guaranty Municipal Corp.

AMBAC American Municipal Bond Assurance Corp.
AMT Alternative Minimum Tax (subject to)

ARB Airport Revenue Bonds
BARB Building Aid Revenue Bonds
COP Certificates of Participation

EDA Economic Development Authority

ERB Education Revenue Bonds

GARB General Airport Revenue Bonds GO General Obligation Bonds HFA Housing Finance Agency

Schedules of Investments 7

Schedule of Investments (unaudited) (continued)

BlackRock MuniHoldings Investment Quality Fund (MFL)

November 30, 2017

(Percentages shown are based on Net Assets)

#### Portfolio Abbreviations (continued)

IDA Industrial Development Authority
IDB Industrial Development Board

LRB Lease Revenue Bonds

RB Revenue Bonds

### Fair Value Hierarchy as of Period End

Various inputs are used in determining the fair value of investments and derivative financial instruments. These inputs to valuation techniques are categorized into a fair value hierarchy consisting of three broad levels for financial reporting purposes as follows:

Level 1 unadjusted price quotations in active markets/exchanges for identical assets or liabilities that the Trust has the ability to access

Level 2 other observable inputs (including, but not limited to, quoted prices for similar assets or liabilities in markets that are active, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the assets or liabilities (such as interest rates, yield curves, volatilities, prepayment speeds, loss severities, credit risks and default rates) or other market corroborated inputs)

Level 3 unobservable inputs based on the best information available in the circumstances, to the extent observable inputs are not available (including the Trust s own assumptions used in determining the fair value of investments and derivative financial instruments)

The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). Accordingly, the degree of judgment exercised in determining fair value is greatest for instruments categorized in Level 3. The inputs used to measure fair value may fall into different levels of the fair value hierarchy. In such cases, for disclosure purposes, the fair value hierarchy classification is determined based on the lowest level input that is significant to the fair value measurement in its entirety. Investments classified within Level 3 have significant unobservable inputs used by the BlackRock Global Valuation Methodologies Committee (the Global Valuation Committee ) in determining the price for Fair Valued Investments. Level 3 investments include equity or debt issued by privately held companies or funds. There may not be a secondary market, and/or there are a limited number of investors. Level 3 investments may also be adjusted to reflect illiquidity and/or non-transferability, with the amount of such discount estimated by the Global Valuation Committee in the absence of market information.

Changes in valuation techniques may result in transfers into or out of an assigned level within the hierarchy. In accordance with the Trust s policy, transfers between different levels of the fair value hierarchy are deemed to have occurred as of the beginning of the reporting period. The categorization of a value determined for investments and derivative financial instruments is based on the pricing transparency of the investments and derivative financial instruments and is not necessarily an indication of the risks associated with investing in those securities. For information about the Trust s policy regarding valuation of investments and derivative financial instruments, refer to

the Trust s most recent financial statements as contained in its semi-annual report.

The following tables summarize the Trust s investments and derivative financial instruments categorized in the disclosure hierarchy:

	Level 1	Level 2	Level 3		Total
Assets: Investments: Long-Term Investments <sup>(a)</sup>	\$	\$ 939,878,642	\$	\$ 939,	878,642
Derivative Financial Instruments <sup>(b)</sup> Assets:					
Interest rate contracts	\$ 213,121			\$ 2	213,121

<sup>(</sup>a) See above Schedule of Investments for values in each state or political subdivision.

8

<sup>(</sup>b) Derivative financial instruments are futures contracts which are valued at the unrealized appreciation (depreciation) on the instrument.

Schedule of Investments (unaudited) (continued)

BlackRock MuniHoldings Investment Quality Fund (MFL)

November 30, 2017

(Percentages shown are based on Net Assets)

The Trust may hold assets and/or liabilities in which the fair value approximates the carrying amount for financial reporting purposes. As of period end, such assets and/or liabilities are categorized within the disclosure hierarchy as follows:

Liabilities: TOB Trust Certificates VRDP Shares at Liquidation Value	Level 1	Level 2	Level 3	Total
	\$	\$ (123,070,585) (274,600,000)	\$	\$ (123,070,585) (274,600,000)
	\$	\$ (397,670,585)	\$	\$ (397,670,585)

During the period ended November 30, 2017, there were no transfers between levels.

Schedules of Investments 9

#### Item 2 Controls and Procedures

- 2(a) The registrant s principal executive and principal financial officers, or persons performing similar functions, have concluded that the registrant s disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940, as amended (the 1940 Act )) are effective as of a date within 90 days of the filing of this report based on the evaluation of these controls and procedures required by Rule 30a-3(b) under the 1940 Act and Rule 13a-15(b) under the Securities Exchange Act of 1934, as amended.
- 2(b) There were no changes in the registrant s internal control over financial reporting (as defined in Rule 30a-3(d) under the 1940 Act) that occurred during the registrant s last fiscal quarter that have materially affected, or are reasonably likely to materially affect, the registrant s internal control over financial reporting.

Item 3 **Exhibits** 

> Certifications Attached hereto

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

BlackRock MuniHoldings Investment Quality Fund

By: /s/ John M. Perlowski

John M. Perlowski

Chief Executive Officer (principal executive officer) of BlackRock MuniHoldings Investment Quality Fund

Date: January 22, 2018

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

By: /s/ John M. Perlowski

John M. Perlowski

Chief Executive Officer (principal executive officer) of BlackRock MuniHoldings Investment Quality Fund

Date: January 22, 2018

By: /s/ Neal J. Andrews

Neal J. Andrews

Chief Financial Officer (principal financial officer) of BlackRock MuniHoldings Investment Quality Fund

Date: January 22, 2018