BLACKROCK MUNIHOLDINGS FUND, INC. Form N-Q September 25, 2012 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 811-08081

Name of Fund: BlackRock MuniHoldings Fund, Inc. (MHD)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: John M. Perlowski, Chief Executive Officer, BlackRock MuniHoldings Fund, Inc., 55 East 52nd Street, New York, NY 10055

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

Date of fiscal year end: 04/30/2013

Date of reporting period: 07/31/2012

Item 1 - Schedule of Investments

Schedule of Investments July 31, 2012 (Unaudited)

BlackRock MuniHoldings Fund, Inc. (MHD)

(Percentages shown are based on Net Assets)

Municipal Bonds (000 Value Albanam 185% County of Jefferson Alabama, RB, Series A. 50%, 10/24 \$ 4.550 \$ 4.451,129 Musica Discon Securitization Curp., Refunding RB, Tobacco Securitization Curp., Refunding RB, Tobacco Securitization Curp., Refunding RB, Tobacco Securitization Curp., Refunding RB, Arcon 45% 1.660 1.302,154 Arizona 45% 1.660 1.302,154 Arizona 45% 4.451,129 Arizona 45% 3.190 4.085,975 Marcing Curp., RB, 2000 1.542,552 Phoenix UA Arizona, Refunding RB, Arcon RB, 2.200 1.542,552 1.952,944 Arizona Versi Arifines, Inc., Project, 3.190 4.085,507 3.000 2.080,560 Store, 12/0172 2.000 2.080,560 5.00%, 1201/132 2.000 2.080,560 Store, 12/0172 2.000 2.080,560 5.008, 120/173 2.508, 2.208,231 2.080,208,203 2.041,279,788 5.008,201 2.080,200 2.080,2601 5.008,1120,175 1.55 1.56,482 2.000 2.041,798 5.008,201 2.020,200,204,213,798 5.008,201 2.000,200,560		Par	
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Stanford Hospital and Clinics, 825 904,811 Steries A, 5.00%, 8/15/51 825 904,811 Sutter Health, Series B, 2,200 2,642,200 California Health Facilities Financing 2,200 2,642,200 Authority, Refunding RB, St. Joseph 1,530 1,767,242 California State Public Works Board, RB, 701/39 1,530 1,767,242 California State Public Works Board, RB, 820 996,095 California Statewide Communities 2 2 Development Authority, RB, John Muir 1,510 1,622,087 Health, 5,13%, 7/01/39 1,510 1,622,087 City of Los Angeles Department of 3 3 Airports, Refunding RB, Series A, 5.55 625,346 Montebello Unified School District 2 4.38%, 8/01/22 California, State Sciegord Colici 2 4.38%, 8/01/23 California, State School District 2,405 1,559,065 <	California Health Facilities Financing		
Series A, 5.00%, 8/15/51 825 904,811 Sutter Health, Series B,	Authority, RB:		
Sutter Health, Series B, 2,200 2,642,200 California Health Facilities Financing 4uthority, Refunding RB, St. Joseph 1,530 1,767,242 Health System, Series A, 5.75%, 7/01/39 1,530 1,767,242 California State Public Works Board, RB, 820 996,095 Various Capital Projects, Sub-Series I-1, 820 996,095 California Statewide Communities 96,095 1,510 1,622,087 Development Authority, RB, John Muir 1,510 1,622,087 City of Los Angeles Department of 555 625,346 Airports, Refunding RB, Series A, 5,25%, 5/15/39 555 625,346 Montebello Unified School District 2,405 1,559,065 California, GO, CAB (NPFGC) (b): 2,405 1,502,951 San Diego Unified School District 3,475 1,623,381			
6.00%, 8/15/42 2,200 2,642,200 California Health Facilities Financing Authority, Refunding RB, St. Joseph Health System, Series A, 5.75%, 7/01/39 1,530 1,767,242 California State Public Works Board, RB, 7/01/39 1,530 1,767,242 California State Public Works Board, RB, 820 996,095 Various Capital Projects, Sub-Series I-1, 820 996,095 California Statewide Communities 820 996,095 Development Authority, RB, John Muir 1,510 1,622,087 City of Los Angeles Department of 1,510 1,622,087 City of Los Angeles Department of 555 625,346 Montebello Unified School District 2,405 1,559,065 California, GO, CAB (NPFGC) (b): 2,405 1,559,065 4,51%, 8/01/23 2,455 1,502,951 San Diego Unified School District 3,475 1,623,381		825	904,811
California Health Facilities Financing Authority, Refunding RB, St. Joseph Health System, Series A, 5.75%, 7/01/391,5301,767,242California State Public Works Board, RB, Various Capital Projects, Sub-Series I-1, $6.38\%, 11/01/34$ 820996,095California Statewide Communities Development Authority, RB, John Muir Health, 5.13%, 7/01/39820996,095City of Los Angeles Department of Airports, Refunding RB, Series A, $5.25\%, 5/15/39$ 555625,346Montebello Unified School District California, GO, CAB (NPFGC) (b): $4.38\%, 8/01/23$ 2,4051,559,0654.51%, 8/01/232,4551,502,951San Diego Unified School District3,4751,623,381			
Authority, Refunding RB, St. Joseph Health System, Series A, 5.75%, 7/01/391,5301,767,242California State Public Works Board, RB, Various Capital Projects, Sub-Series I-1, $6.38\%, 11/01/34$ 820996,095California Statewide Communities Development Authority, RB, John Muir Health, 5.13%, 7/01/39820996,095City of Los Angeles Department of Airports, Refunding RB, Series A, $5.25\%, 5/15/39$ 1,5101,622,087Montebello Unified School District California, GO, CAB (NPFGC) (b):555625,3464.38%, 8/01/222,4051,559,0654.51%, 8/01/232,4551,502,951San Diego Unified School District3,4751,623,381		2,200	2,642,200
Health System, Series A, 5.75%, 1,530 1,767,242 7/01/39 1,530 1,767,242 California State Public Works Board, RB, 2 996,095 Various Capital Projects, Sub-Series I-1, 820 996,095 California Statewide Communities 820 996,095 California Statewide Communities 1,510 1,622,087 City of Los Angeles Department of 1,510 1,622,087 Airports, Refunding RB, Series A, 555 625,346 Montebello Unified School District 555 625,346 California, GO, CAB (NPFGC) (b): 2,405 1,559,065 4.51%, 8/01/23 2,455 1,502,951 San Diego Unified School District 3,475 1,623,381			
7/01/39 1,530 1,767,242 California State Public Works Board, RB, Various Capital Projects, Sub-Series I-1, 820 996,095 6.38%, 11/01/34 820 996,095 996,095 California Statewide Communities Various Capital Projects, Sub-Series I-1, 820 996,095 California Statewide Communities Various Capital Projects, Sub-Series I, 820 996,095 Development Authority, RB, John Muir 1,510 1,622,087 1,510 1,622,087 City of Los Angeles Department of Airports, Refunding RB, Series A, 555 625,346 S.25%, 5/15/39 555 625,346 Montebello Unified School District California, GO, CAB (NPFGC) (b): 2,405 1,559,065 4.38%, 8/01/22 2,405 1,559,065 4.51%, 8/01/23 2,455 1,502,951 San Diego Unified School District 3,475 1,623,381			
California State Public Works Board, RB, 1000 Various Capital Projects, Sub-Series I-1, 820 996,095 6.38%, 11/01/34 820 996,095 California Statewide Communities 2000 2000 Development Authority, RB, John Muir 1,510 1,622,087 City of Los Angeles Department of 3,175 1,510 1,622,087 Signed State		1.520	1 7 (7 0 10
Various Capital Projects, Sub-Series I-1, 820 996,095 6.38%, 11/01/34 820 996,095 California Statewide Communities 906,095 Development Authority, RB, John Muir 1,510 1,622,087 Health, 5.13%, 7/01/39 1,510 1,622,087 City of Los Angeles Department of 4.irports, Refunding RB, Series A, 5.25%, 5/15/39 625,346 Montebello Unified School District 555 625,346 California, GO, CAB (NPFGC) (b): 2,405 1,559,065 4.38%, 8/01/22 2,405 1,559,065 4.51%, 8/01/23 2,455 1,502,951 San Diego Unified School District 3,475 1,623,381		1,530	1,/6/,242
6.38%, 11/01/34 820 996,095 California Statewide Communities Development Authority, RB, John Muir Health, 5.13%, 7/01/39 1,510 1,622,087 City of Los Angeles Department of Airports, Refunding RB, Series A, 555 625,346 Montebello Unified School District 555 625,346 California, GO, CAB (NPFGC) (b): 2,405 1,559,065 4.38%, 8/01/22 2,405 1,559,065 4.51%, 8/01/23 2,455 1,502,951 San Diego Unified School District 3,475 1,623,381			
California Statewide Communities Development Authority, RB, John Muir Health, 5.13%, 7/01/39 1,510 1,622,087 City of Los Angeles Department of Airports, Refunding RB, Series A, 5.25%, 5/15/39 555 625,346 Montebello Unified School District California, GO, CAB (NPFGC) (b): 2,405 1,559,065 4.38%, 8/01/22 2,455 1,502,951 San Diego Unified School District 3,475 1,623,381		820	006 005
Development Authority, RB, John Muir 1,510 1,622,087 Health, 5.13%, 7/01/39 1,510 1,622,087 City of Los Angeles Department of 525%, 5/15/39 555 625,346 Airports, Refunding RB, Series A, 555 625,346 Montebello Unified School District 2,405 1,559,065 California, GO, CAB (NPFGC) (b): 2,455 1,502,951 4.38%, 8/01/23 2,455 1,502,951 San Diego Unified School District 3,475 1,623,381		820	990,093
Health, 5.13%, 7/01/39 1,510 1,622,087 City of Los Angeles Department of Airports, Refunding RB, Series A, 5.25%, 5/15/39 555 625,346 Montebello Unified School District California, GO, CAB (NPFGC) (b): 2,405 1,559,065 4.38%, 8/01/22 2,455 1,559,065 4.51%, 8/01/23 2,455 1,502,951 San Diego Unified School District 3,475 1,623,381			
City of Los Angeles Department of Airports, Refunding RB, Series A, 5.25%, 5/15/39 555 625,346 Montebello Unified School District California, GO, CAB (NPFGC) (b): 2,405 1,559,065 4.38%, 8/01/22 2,455 1,502,951 San Diego Unified School District 3,475 1,623,381		1 510	1 622 087
Airports, Refunding RB, Series A, 555 625,346 5.25%, 5/15/39 555 625,346 Montebello Unified School District 2 2 California, GO, CAB (NPFGC) (b): 2,405 1,559,065 4.38%, 8/01/22 2,455 1,502,951 San Diego Unified School District 3,475 1,623,381		1,510	1,022,007
5.25%, 5/15/39 555 625,346 Montebello Unified School District 60, CAB (NPFGC) (b): 2,405 1,559,065 4.38%, 8/01/23 2,455 1,502,951 3,475 1,623,381			
Montebello Unified School District California, GO, CAB (NPFGC) (b): 4.38%, 8/01/22 2,405 4.51%, 8/01/23 2,455 San Diego Unified School District 3,475		555	625 346
California, GO, CAB (NPFGC) (b): 2,405 1,559,065 4.38%, 8/01/22 2,405 1,559,065 4.51%, 8/01/23 2,455 1,502,951 San Diego Unified School District 3,475 1,623,381		555	025,510
4.38%, 8/01/222,4051,559,0654.51%, 8/01/232,4551,502,951San Diego Unified School District3,4751,623,381			
4.51%, 8/01/232,4551,502,951San Diego Unified School District3,4751,623,381		2.405	1.559.065
San Diego Unified School District 3,475 1,623,381			

Series A, 4.55%, 7/01/29 (b)

Municipal Bonds		'ar 00)	V	alue
California (concluded)	(0	00)	۷ د	nue
State of California, GO, Various Purpose,				
6.50%, 4/01/33	\$	8,370	\$ 1	0,454,632
State of California, GO, Refunding,	φ	8,570	φ 1	0,434,032
Various Purpose, 5.00%, 10/01/41		1,015		1,107,659
various 1 alpose, 5.00 %, 10/01/41		1,015		4,929,842
Colorado 2.4%			2	+,929,0+2
Colorado Educational & Cultural				
Facilities Authority, RB, Charter				
School, Colorado Springs, 5.50%,				
7/01/40		1,455		1,512,618
Colorado Health Facilities Authority,		1,155		1,512,010
Refunding RB, The Evangelical				
Lutheran Good Samaritan Society				
Project, 5.00%, 12/01/42		1,230		1,303,443
Plaza Metropolitan District No. 1		1,200		1,505,115
Colorado, Tax Allocation Bonds, Public				
Improvement Fee, Tax Increment,				
Subordinate, 8.13%, 12/01/25		1.000		999,900
Regional Transportation District, COP,		1,000		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Refunding, Series A, 5.38%, 6/01/31		710		809,357
University of Colorado, RB, Series A,		/10		009,557
5.38%, 6/01/38		1,250		1,465,838
5.56 %, 6/01/56		1,230		6,091,156
Connecticut 4.0%				0,071,150
Connecticut State Development				
Authority, RB, AFCO Cargo BDL LLC				
Project, AMT, 8.00%, 4/01/30 (c)(d)		2,700		1,663,902
Connecticut State Health & Educational		2,700		1,005,702
Facility Authority, RB, Ascension				
Health Senior Credit, 5.00%,				
11/15/40		955		1,051,570
Connecticut State Health & Educational				-,
Facility Authority, Refunding RB,				
Wesleyan University, 5.00%, 7/01/35		2,515		2,865,163
State of Connecticut, GO, Refunding,)		,,
Series C:				
5.00%, 6/01/23		2,195		2,769,607
5.00%, 6/01/24		1,395		1,743,973
				0,094,215
Delaware 1.4%				
County of Sussex Delaware, RB, NRG				
Energy, Inc., Indian River Project,				
6.00%, 10/01/40		790		897,069
Delaware State EDA, RB, Exempt				
Facilities, Indian River Power, 5.38%,				
10/01/45		2,430		2,630,426
				3,527,495
District of Columbia 3.2%				
District of Columbia, Tax Allocation				
Bonds, City Market O Street Project,				
5.13%, 6/01/41		1,520		1,637,435

BLACKROCK MUNIHOLDINGS FUND, INC.

JULY 31, 2012

Municipal Bonds	Par (000)	Value
District of Columbia (concluded)	((()))	
Metropolitan Washington Airports		
Authority, Refunding RB:		
CAB, Second Senior Lien,		
Series B (AGC), 5.07%,		
10/01/35 (b)	\$ 13,485	\$ 4,228,761
First Senior Lien, Series A,		
5.00%, 10/01/39	505	554,637
First Senior Lien, Series A,		
5.25%, 10/01/44	1,470	1,627,819
		8,048,652
Florida 8.3%		
Broward County Water & Sewer Utility		
Revenue, Refunding RB, Series A,		
5.25%, 10/01/34	750	895,552
Citizens Property Insurance Corp., RB,		
Senior Secured, Series A-1:		
5.00%, 6/01/19	2,015	2,314,147
5.00%, 6/01/21	1,185	1,367,063
City of Clearwater Florida, RB, Series A,		
5.25%, 12/01/39	2,375	2,710,896
County of Miami-Dade Florida, RB, CAB,		
Sub-Series A (NPFGC), 5.48%,		
10/01/37 (b)	2,340	599,953
County of Miami-Dade Florida,		
Refunding RB, Miami International		
Airport, Series A-1, 5.38%, 10/01/41	2,620	2,976,163
Greater Orlando Aviation Authority		
Florida, RB, Special Purpose, JetBlue		
Airways Corp., AMT, 6.50%, 11/15/36	2,095	2,117,437
Hillsborough County IDA, RB, National		
Gypsum Co., Series B, AMT, 7.13%,		
4/01/30	1,900	1,900,570
Mid-Bay Bridge Authority, RB, Series A,		
7.25%, 10/01/40	1,570	1,981,670
Midtown Miami Community		
Development District, Special		
Assessment Bonds, Series B, 6.50%,		
5/01/37	2,345	2,408,151
Palm Coast Park Community		
Development District, Special		
Assessment Bonds, 5.70%, 5/01/37	660	448,642
Preserve at Wilderness Lake Community		
Development District, Special		
Assessment Bonds, Series A, 5.90%,		
5/01/34	1,445	1,447,384
		21,167,628
Georgia 1.3%		
DeKalb Private Hospital Authority,		
Refunding RB, Children s Healthcare,		
5.25%, 11/15/39	585	647,156

Municipal Bonds	Par (000)	Value
Georgia (concluded)		
Metropolitan Atlanta Rapid Transit		
Authority, RB, Sales Tax Revenue,		
Third Indenture Series A, 5.00%,		
7/01/39	\$ 2,410	\$ 2,691,440
		3,338,596
Hawaii 0.4%		
State of Hawaii, Harbor System, RB,		
Series A, 5.25%, 7/01/30	945	1,106,888
Illinois 11.7%		
Chicago Board of Education Illinois, GO	1.460	1 502 005
Series A, 5.50%, 12/01/39	1,460	1,702,097
City of Chicago Illinois, GO, Project,	2.160	2 525 2/5
Series A, 5.00%, 1/01/34	3,160	3,537,367
City of Chicago Illinois, Refunding RB,	570	(54.240
Series A, 5.25%, 1/01/38	570	654,349
City of Chicago Illinois, Special		
Assessment Bonds, Lake Shore East,	000	022 507
6.75%, 12/01/32	900	933,507
City of Chicago Illinois O Hare		
International Airport, GARB:	3 000	2 257 490
Series A, 5.75%, 1/01/39	2,000	2,357,480
O Hare International Airport,		
General, Third Lien, Series C	4.055	1 079 242
(AGM), 6.50%, 1/01/41 City of Chicago Illingia Transit Authority	4,055	4,978,242
City of Chicago Illinois Transit Authority,		
RB, Sales Tax Receipts Revenue,	730	022 006
5.25%, 12/01/40 Illinois Finance Authority, Refunding RB:	730	832,806
Central DuPage Health,		
Series B, 5.50%, 11/01/39	1,115	1,255,122
Series A, 5.00%, 11/15/37	675	751,835
Series A, 5.00%, 11/15/37 Series A, 5.00%, 11/15/42	1,230	1,361,795
Illinois HDA, RB, Homeowner Mortgage,	1,230	1,501,795
Sub-Series C2, AMT, 5.35%, 2/01/27	2,525	2,525,000
Metropolitan Pier & Exposition Authority,	2,323	2,525,000
Refunding RB, McCormick Place		
Expansion Project:		
CAB, Series B-1, (AGM),		
5.19%, 6/15/47 (b)	13,220	2,214,350
Series B-1, (AGM), 5.00%,	15,220	2,214,550
6/15/50	2,190	2,369,580
Series B-2, 5.00%, 6/15/50	1,740	1,882,071
Railsplitter Tobacco Settlement	1,7+0	1,002,071
Authority, RB:		
5.50%, 6/01/23	930	1,085,236
6.00%, 6/01/28	800	930,968
State of Illinois, RB, Build Illinois,	000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Series B, 5.25%, 6/15/34	440	499,884
5 1 1 5 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	TTU	29,871,689
Indiana 1.7%		_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Indiana Finance Authority, RB:		
Sisters of St. Francis Health,		
5.25%, 11/01/39	585	642,944
···· , ··· ···	505	0.2,2.1

BLACKROCK MUNIHOLDINGS FUND, INC.

JULY 31, 2012

	n		
Municipal Bonds		'ar 00)	Value
Indiana (concluded)	(0	00)	value
Indiana Finance Authority, RB (concluded):			
Wastewater Utility, CWA Authority Project, First Lien, Series A,			
5.25%, 10/01/38	\$	1,090	\$ 1,261,566
Indiana Finance Authority, Refunding RB, Parkview Health System, Series A, 5.75%, 5/01/31		1,300	1,497,184
Indiana Municipal Power Agency, RB,		775	903,867
Series B, 6.00%, 1/01/39		115	4,305,561
Iowa 0.6%			.,
Iowa Student Loan Liquidity Corp., Refunding RB, Senior Series A-1, AMT,			
5.15%, 12/01/22		1,435	1,619,125
Kansas 1.2% Kansas Development Finance Authority,			
Refunding RB:			
Adventist Health, 5.75%, 11/15/38		1,520	1,781,987
Sisters of Leavenworth, Series			
A, 5.00%, 1/01/40		1,155	1,260,186 3,042,173
Kentucky 0.3%			
Kentucky Economic Development Finance Authority, RB, Owensboro Medical Health System, Series A,			
6.38%, 6/01/40		700	823,683
Louisiana 3.0%			
East Baton Rouge Sewerage			
Commission, RB, Series A, 5.25%, 2/01/39		570	640,219
Louisiana Local Government Environmental Facilities & Community Development Authority, RB, Westlake Chemical Corp. Projects, 6.75%,			
11/01/32		3,500	3,933,825
New Orleans Aviation Board, ARB, Passenger Facility Charge, Series A,		,	
5.25%, 1/01/41		430	472,286
State of Louisiana Gasoline & Fuels Tax Revenue, RB, Second Lien, Series B,			
5.00%, 5/01/45		2,270	2,553,364 7,599,694
Maine 0.4% Maine Health & Higher Educational Facilities Authority, RB, Series A,			7,399,094
5.00%, 7/01/39		210	227,986
Maine State Turnpike Authority, RB, Series A, 5.00%, 7/01/42		615	707,287

Municipal Bonds	Par (000)	Value
Maryland 1.1%		
Maryland EDC, RB, Transportation		
Facilities Project, Series A, 5.75%,		
6/01/35	\$ 30	0 \$ 327,090
Maryland EDC, Refunding RB, CNX		
Marine Terminals, Inc., 5.75%,	50	0 607.922
9/01/25 Maryland Health & Higher Educational	58	0 627,833
Facilities Authority, Refunding RB,		
Charlestown Community, 6.25%,		
1/01/41	1,52	0 1,735,475
	1,52	2,690,398
Massachusetts 2.8%		,,
Massachusetts Development Finance		
Agency, RB, Wellesley College,		
Series J, 5.00%, 7/01/42	1,26	0 1,472,386
Massachusetts Development Finance		
Agency, Refunding RB, Boston		
University, Series P, 5.45%, 5/15/59	1,16	5 1,378,509
Massachusetts Health & Educational		
Facilities Authority, Refunding RB,		
Partners Healthcare, Series J1,		
5.00%, 7/01/39	1,25	5 1,368,113
Massachusetts HFA, HRB, M/F Housing,		
Series A, AMT, 5.25%, 12/01/48	2,90	
Mishimu 250		7,163,813
Michigan 2.5% City of Detroit Michigan, RB, Senior Lien		
Senior Lien:		
Series A, 5.25%, 7/01/41	2,14	5 2,250,748
Series B (AGM), 7.50%,	2,17	5 2,250,740
7/01/33	63	5 798,259
Kalamazoo Hospital Finance Authority,		
Refunding RB, Bronson Methodist		
Hospital, 5.50%, 5/15/36	95	5 1,060,117
Michigan State Hospital Finance		
Authority, Refunding RB, Henry Ford		
Health, 5.75%, 11/15/39	2,10	5 2,364,062
		6,473,186
Minnesota 3.0%		
City of Minneapolis Minnesota,		
Refunding RB, Fairview Health		
Services, Series A, 6.75%, 11/15/32	2,13	5 2,552,777
Tobacco Securitization Authority		
Minnesota, Refunding RB:	0.11	0 00 54
5.25%, 3/01/25	3,11	
5.25%, 3/01/31	1,31	
Mississinni 0.3%		7,634,999
Mississippi 0.3% University of Southern Mississippi, RB,		
Campus Facilities Improvements		
Project, 5.38%, 9/01/36	67	5 768,292
110,000, 5.50 /0, 7/01/50	07	5 100,292

BLACKROCK MUNIHOLDINGS FUND, INC.

JULY 31, 2012

Municipal Bonds Nebraska 0.6%	Par (000)	Value
Central Plains Energy Project Nebraska,		
RB, Gas Project No. 3: 5.25%, 9/01/37	\$ 575	\$ 610,150
5.00%, 9/01/42	^{\$} 575 1,005	1,033,833
		1,643,983
New Hampshire 1.4%		
New Hampshire Health & Education Facilities Authority, Refunding RB, Dartmouth-Hitchcock, 6.00%,	2 0 2 5	2.557.0(1
8/01/38 New Jersey 4.4%	3,035	3,557,961
New Jersey EDA, RB, Continental Airlines Inc. Project, AMT:		
6.63%, 9/15/12 (e)	1,000	1,005,110
6.25%, 9/15/29	2,950	2,961,770
New Jersey EDA, Refunding RB, Cigarette Tax, 5.00%, 6/15/25	680	762,205
New Jersey Transportation Trust Fund	080	702,205
Authority, RB:		
Series A, 5.50%, 6/15/41	1,575	1,840,892
Series B, 5.25%, 6/15/36	1,705	1,964,518
Port Authority of New York & New Jersey, RB, JFK International Air Terminal, 6.00%, 12/01/42	875	990,964
Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A,	010	<i>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</i>
4.50%, 6/01/23	1,725	1,640,941
N N I 40%		11,166,400
New York 4.8%		
Dutchess County Industrial Development Agency New York, Refunding RB, St. Francis Hospital,		
Series A, 7.50%, 3/01/29	890	916,834
Long Island Power Authority, Refunding RB, Series A, 5.75%, 4/01/39	1,450	1,692,106
Metropolitan Transportation Authority, RB, Series E, 5.00%, 11/15/42	375	421,504
Metropolitan Transportation Authority, Refunding RB:		
Series B, 5.00%, 11/15/34	1,740	1,963,816
Series D, 5.25%, 11/15/40	840	949,444
New York City Industrial Development Agency, RB:		
British Airways Plc Project,		
AMT, 7.63%, 12/01/32	1,500	1,541,685

Continental Airlines Inc. Project, Mandatory Put		
Bonds, AMT, 8.38%,		
11/01/16 Series C, 6.80%, 6/01/28	725 535	732,424 546,363
Series C, 0.60 %, 0/01/26	555	540,505
	Par	X 7 X
Municipal Bonds New York (concluded)	(000)	Value
New York Liberty Development Corp., Refunding RB, Second Priority, Bank of America Tower at One Bryant Park Project, 6.38%, 7/15/49	\$ 850	\$ 969,553
New York State Thruway Authority, RB, Series I, 5.00%, 1/01/42	1,235	1,391,993
Port Authority of New York & New Jersey, RB, JFK International Air Terminal, 6.00%, 12/01/36	900	1,022,679
		12,148,401
North Carolina 0.4%		
North Carolina Medical Care Commission, RB, Duke University Health System, Series A, 5.00%, 6/01/42	970	1,071,355
Oregon 0.1%	970	1,071,555
City of Tigard Washington County Oregon, Refunding RB, Water System, 5.00%, 8/01/37	175	203,075
Pennsylvania 4.8%		
Allegheny County Hospital Development Authority, Refunding RB, Health System, West Penn, Series A, 5.38%,	1.105	010 (75
11/15/40 Bucks County IDA, RB, Ann s Choice Inc.	1,125	918,675
Facility, Series A, 6.25%, 1/01/35	1,700	1,719,941
Pennsylvania Economic Development Financing Authority, RB:		
American Water Co. Project, 6.20%, 4/01/39	2,520	2,953,995
National Gypsum Co., Series B, AMT, 6.13%, 11/01/27	3,500	3,400,110
Philadelphia Authority for Industrial Development, RB:		
Arbor House Inc. Project, Series E, 6.10%, 7/01/33	1,105	1,130,934
Commercial Development, AMT, 7.75%, 12/01/17	725	726,138
Saligman House Project, Series C, 6.10%, 7/01/33	1,245	1,274,220
	1,213	12,124,013
Puerto Rico 3.4%		
Puerto Rico Sales Tax Financing Corp., RB, First Sub-Series A, 6.50%, 8/01/44	3,860	4,607,798
Puerto Rico Sales Tax Financing Corp., RB, CAB, Series A, 5.57%, 8/01/35 (b)	4,000	1,131,080
Puerto Rico Sales Tax Financing Corp., Refunding RB, CAB (b):	.,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

First Sub-Series C, 5.73%, 8/01/38			2,975	684,815
	BLACKROCK MUNIHOLDINGS FUND, INC.	JULY 31, 2012	4	

	D	
Municipal Bonds	Par (000)	Value
Puerto Rico (concluded)	(000)	v aluc
Puerto Rico Sales Tax Financing Corp.,		
Refunding RB, CAB (b) (concluded):		
Senior Series C, 5.43%,		
8/01/39	\$ 9,665	\$ 2,274,948
		8,698,641
South Carolina 1.0%		
South Carolina State Ports Authority, RB,		
5.25%, 7/01/40	2,285	2,571,105
Tennessee 1.0%		
Hardeman County Correctional Facilities		
Corp. Tennessee, RB, 7.75%,		
8/01/17	2,320	2,320,557
Rutherford County Health & Educational		
Facilities Board, RB, 5.00%,		
11/15/47	150	168,972
		2,489,529
Texas 10.5%		
Brazos River Harbor Navigation District,		
Refunding RB, Dow Chemical Co.		
Project, Series A7, AMT, 6.63%, 5/15/33	3,655	3,699,079
Central Texas Regional Mobility	3,035	3,099,079
Authority, Refunding RB, Senior Lien,		
6.25%, 1/01/46	1,480	1,715,927
City of Austin Texas, Refunding RB,	1,100	1,713,727
Water & Wastewater System		
Revenue, 5.00%, 11/15/37	440	513,568
City of Dallas Texas, Refunding RB,		,
Waterworks & Sewer System, 5.00%,		
10/01/35	1,050	1,210,923
City of Houston Texas, Refunding RB,		
Senior Lien, Series A, 5.50%,		
7/01/39	1,070	1,201,664
Harris County Health Facilities		
Development Corp., Refunding RB,		
Memorial Hermann Healthcare		
System, Series B, 7.25%, 12/01/35	1,910	2,319,638
La Vernia Higher Education Finance		
Corp., RB, KIPP Inc. Series A, 6.38%,	4.50	
8/15/44	450	525,204
North Texas Tollway Authority, RB, CAB,		
Special Projects System, Series B,	1 400	260 208
5.39%, 9/01/37 (b) North Texas Tollway Authority,	1,400	369,208
Refunding RB, Toll, Second Tier,		
Series F, 6.13%, 1/01/31	4,190	4,633,595
San Antonio Energy Acquisition Public	7,170	+,055,575
Facility Corp., RB, Gas Supply:		
5.50%, 8/01/24	1,100	1,227,226
5.50%, 8/01/25	1,100	1,251,712
	-,	-, 1,, 12

Aunicipal Bonds	Par (000)	Value
Texas (concluded)		
Pexas Private Activity Bond Surface		
Transportation Corp., RB, Senior Lien:		
.BJ Infrastructure Group LLC,		
BJ Freeway Managed		
Lanes Project, 7.00%, //30/40	\$ 2,000	\$ 2,441,600
VTE Mobility Partners LLC,	\$ 2,000	\$ 2,441,000
North Tarrant Express		
Aanaged Lanes Project,		
.88%, 12/31/39	1,700	2,041,122
Sexas State Public Finance Authority,		
Refunding ERB, KIPP Inc., Series A		
ACA), 5.00%, 2/15/36	875	896,595
Jniversity of Texas System, Refunding		
RB, Revenue Financing System,		
Series B, 5.00%, 8/15/43	2,145	2,520,568
T		26,567,629
Vermont 0.4% Vermont Educational & Health Buildings		
Financing Agency, RB, Developmental		
& Mental Health, Series A, 6.00%,		
/15/17	890	902,825
/irginia 1.6%		
Fairfax County EDA, Refunding RB,		
Goodwin House Inc., 5.13%,		
0/01/42	1,000	1,024,300
/irginia Small Business Financing		
Authority, RB, AMT:		
.25%, 1/01/32	550	595,034
5.00%, 1/01/37 5.50%, 1/01/42	1,275 805	1,456,190 887,078
.30%, 1/01/42	805	3,962,602
Vashington 1.5%		5,902,002
Seattle Housing Authority Washington,		
RB, Replacement Housing Projects,		
5.13%, 12/01/32	1,225	1,227,523
Vashington Health Care Facilities		
Authority, RB, Swedish Health Services,		
Series A, 6.75%, 5/15/21 (e)	1,375	1,917,795
Vashington Health Care Facilities		
Authority, Refunding RB, Providence		
Health & Services, Series A, 5.00%,	505	507 150
0/01/42	705	786,470
Visconsin 4.1%		3,931,788
State of Wisconsin, Refunding RB,		
Series A, 6.00%, 5/01/36	4,980	6,189,094
Visconsin Health & Educational	1,200	0,100,001
Facilities Authority, RB:		
Ascension Health Senior Credit		
Group, 5.00%, 11/15/33	1,710	1,895,723
BLACKROCK MUNIHOLDINGS FUND, INC.	JULY 31, 2012	

	Par	
Municipal Bonds	(000)	Value
Wisconsin (concluded)	(000)	, uruv
Wisconsin Health & Educational		
Facilities Authority, RB (concluded):		
New Castle Place Project,		
Series A, 7.00%, 12/01/31	\$ 825	\$ 606,293
SynergyHealth Inc., 6.00%,	¢ 0 <u>-0</u>	¢ 000,270
11/15/32	1,755	1,836,028
1110/02	1,755	10,527,138
Wyoming 0.1%		10,527,150
Wyoming Municipal Power Agency, RB,		
Series A, 5.00%, 1/01/42	210	227,329
Total Municipal Bonds 106.6%	210	271,047,726
		271,017,720
Municipal Bonds Transferred to		
Tender Option Bond (TOB) Trusts (f)		
Arizona 0.7%		
Salt River Project Agricultural		
Improvement & Power District, RB,		
Series A, 5.00%, 1/01/38	1,690	1,878,167
California 9.9%		
Bay Area Toll Authority, Refunding RB,		
San Francisco Bay Area, Series F-1,		
5.63%, 4/01/44	2,270	2,627,929
California Educational Facilities		
Authority, RB, University of Southern		
California, Series B, 5.25%, 10/01/39	1,845	2,159,665
City of Los Angeles California		
Department of Airports, Refunding RB,		
Senior, Los Angeles International		
Airport, Series A, 5.00%, 5/15/40	4,120	4,623,991
Los Angeles Community College District		
California, GO, Election of 2001,		
Series A (AGM), 5.00%, 8/01/32	1,620	1,826,291
San Diego Community College District		
California, GO, Election of 2002,		
5.25%, 8/01/33	748	877,041
San Francisco City & County Public		
Utilities Commission, RB, Series B,		
5.00%, 11/01/39	6,600	7,422,030
Sequoia Union High School District		
California, GO, Refunding, Election of		
2004, Series B (AGM) (AGO), 5.50%,		
7/01/35	3,494	3,824,335
University of California, RB, Limited		
Project, Series B, 4.75%, 5/15/13 (e)	1,670	1,745,724
		25,107,006
Colorado 2.5%		
Colorado Health Facilities Authority, RB,		
Catholic Health (AGM):		
Series C-3, 5.10%, 10/01/41	2,580	2,755,595

Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts	(f)	P: (00		Value
Colorado (concluded)				
Colorado Health Facilities Author	-			
Catholic Health (AGM) (conclude	ed):	¢	1 (50 0	17(4510
Series C-7, 5.00%, 9/01/36		\$	1,650 \$	1,764,510
Colorado Health Facilities Author	nty,			
Refunding RB, Catholic Health,			1 400	1 702 674
Series A, 5.50%, 7/01/34			1,490	1,702,674
Commentions 200				6,222,779
Connecticut 2.9% Connecticut State Health & Educa	ational			
Facility Authority, RB, Yale Univ	ersny:		2 190	2 (20 71)
Series T-1, 4.70%, 7/01/29			3,180	3,629,716
Series X-3, 4.85%, 7/01/37			3,270	3,741,534
Florida 1.7%				7,371,250
	D			
County of Miami-Dade Florida, R	АВ,			
Water & Sewer System, 5.00%,			2.020	4 422 202
10/01/34			3,939	4,433,292
Georgia 1.0%	and a mitter			
Private Colleges & Universities A				
Refunding RB, Emory University	,		2.250	2 506 172
Series C, 5.00%, 9/01/38			2,259	2,506,172
Illinois 0.9%				
City of Chicago Illinois Waterwoo	rks,		2 070	2 2 ((700
Refunding RB, 5.00%, 11/01/42			2,079	2,366,798
Maryland 1.3%				
Maryland Health & Higher Educa				
Facilities Authority, Refunding R				
Ascension Health, Series B, 5.009	/о,		2 0 2 0	
11/15/51			2,920	3,244,557
Massachusetts 3.6%				
Massachusetts School Building				
Authority, RB:				
Sales Tax Revenue, Series A, (AC	ĴΜ),		4.004	5 527 100
5.00%, 8/15/30			4,994	5,527,109
Senior Series B, 5.00%, 10/15/41			3,150	3,639,636
Mishimon 0.99				9,166,745
Michigan 0.8%				
Detroit Water and Sewerage				
Department, Refunding RB,				
Senior Lien, Series A:			1.000	1 1 4 2 0 0 7
5.00%, 7/01/32			1,088	1,143,907
5.25%, 7/01/39			937	988,184
New Hampshire 0.7%				2,132,091
New Hampshire U.1% New Hampshire Health & Educat	ion			
•				
Facilities Authority, RB, Dartmou	1(11		1 400	1 601 060
College, 5.25%, 6/01/39			1,409	1,681,862
	BLACKROCK MUNIHOLDINGS FUND, INC.	J	ULY 31, 2012	6

Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts (f)	Pa (00		Value
New York 10.8%	(00	0)	value
Hudson New York Yards Infrastructure			
Corp., RB, 5.75%, 2/15/47	\$	1,110 \$	1,300,887
New York City Municipal Water Finance	÷	1,110 ¢	1,000,007
Authority, Refunding RB, Water &			
Sewer, Series FF-2, 5.50%, 6/15/40		1,110	1,307,217
New York City Transitional Finance		,	, ,
Authority, RB, Future Tax Secured,			
Sub-Series E-1, 5.00%, 2/01/42		1,720	1,985,221
New York Liberty Development Corp.,			
RB, 1 World Trade Center, Port			
Authority Construction, 5.25%,			
12/15/43		7,440	8,581,668
New York Liberty Development Corp.,			
Refunding RB, 4 World Trade Center,			
Project, 5.75%, 11/15/51		4,460	5,276,849
New York State Dormitory Authority,			
ERB, Series F, 5.00%, 3/15/35		4,034	4,389,570
Sales Tax Asset Receivable Corp.,			
Refunding RB, Series A (AMBAC),			
5.25%, 10/15/27		4,240	4,647,680
			27,489,092
North Carolina 0.5%			
North Carolina Capital Facilities Finance			
Agency, Refunding RB, Wake Forest		1.000	1 200 001
University, 5.00%, 1/01/38		1,080	1,209,881
Ohio 4.3%			
State of Ohio, Refunding RB, Cleveland			
Clinic Health, Series A, 5.50%, 1/01/39		9,644	10,825,509
Tennessee 1.0%		9,044	10,825,509
Shelby County Health Educational &			
Housing Facilities Board, Refunding			
RB, St. Jude s Children s Research			
Hospital, 5.00%, 7/01/31		2,250	2,470,927
Texas 3.1%		2,230	2,110,921
County of Harris Texas, RB, Senior Lien,			
Toll Road, Series A, 5.00%, 8/15/38		4,620	5,202,351
Harris County Texas Metropolitan		.,	
Transit Authority, Refunding RB,			
Series A, 5.00%, 11/01/41		2,350	2,690,303
		,	7,892,654
Utah 1.1%			
City of Riverton Utah Hospital, RB, IHC			
Health Services Inc., 5.00%, 8/15/41		2,519	2,753,310
Virginia 2.6%			
University of Virginia, Refunding RB,			
General, 5.00%, 6/01/40		3,749	4,312,818
Virginia Small Business Financing			
Authority, Refunding RB, Sentara			
Healthcare, 5.00%, 11/01/40		2,094	2,311,932

Municipal Bonds Transferred to		Par	X7.1
Tender Option Bond (TOB) Trusts (f) Washington 0.8%		(000)	Value
Central Puget Sound Regional Transit			
Authority, RB, Series A (AGM), 5.00%,			
11/01/32	\$	1,860	\$ 2,120,416
Wisconsin 1.7%			
Wisconsin Health & Educational			
Facilities Authority, Refunding RB,			
Froedtert & Community Health Inc.,			
5.25%, 4/01/39		3,959	4,392,565
Total Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts 51.9%			131,889,823
Total Long-Term Investments			151,009,025
(Cost \$363,638,691) 158.5%			402,937,549
Short-Term Securities		Shares	
FFI Institutional Tax-Exempt Fund,		Shares	
0.01% (g)(h)		20,463	20,463
		,	_ • , • • •
		Par	
Commonwealth of Massachusetts, GO,		(000)	
VRDN, Consolidated Loan, Series B,			
0.17%, 8/01/12 (i)	\$	200	200,000
Connecticut Housing Finance Authority,	Ψ	200	200,000
Refunding RB, VRDN, Housing Mortgage			
Finance Program, Sub-Series A-2			
(JPMorgan Chase Bank NA SBPA),			
0.17%, 8/01/12 (i)		1,300	1,300,000
			1,500,000
Total Short-Term Securities			1,520,463
(Cost \$1,520,463) 0.6% Total Investments (Cost - \$365,159,154*) 159.1%			404,458,012
Other Assets Less Liabilities 1.3%			3,371,956
Liability for TOB Trust Certificates, Including Interest			5,571,750
Expense and Fees Payable (27.5)%			(69,846,691)
VMTP Shares, at Liquidation Value (32.9)%			(83,700,000)
Net Assets Applicable to Common Shares 100.0%			\$ 254,283,277

BLACKROCK MUNIHOLDINGS FUND, INC.	JULY 31, 2012	7
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Schedule of Investments (continued)

BlackRock MuniHoldings Fund, Inc. (MHD)

* As of July 31, 2012, gross unrealized appreciation and gross unrealized depreciation based on cost for federal income tax purposes were as follows:

Tax cost	\$ 295,121,937
Gross unrealized appreciation	\$ 41,806,990
Gross unrealized depreciation	(2,281,629)
Net unrealized appreciation	\$ 39,525,361

- (a) Security exempt from registration pursuant to Rule 144A under the Securities Act of 1933, as amended. These securities may be resold in transactions exempt from registration to qualified institutional investors.
- (b) Represents a zero-coupon bond. Rate shown reflects the current yield as of report date.
- (c) Issuer filed for bankruptcy and/or is in default of principal and/or interest payments.
- (d) Non-income producing security.
- (e) US 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.
- (f) Securities represent bonds transferred to a TOB in exchange for which the Fund acquired residual interest certificates. These securities serve as collateral in a financing transaction.
- (g) Investments in companies considered to be an affiliate of the Fund during the period, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

	Shares		Shares		
	Held at	Net	Held at		
Affiliate	April 30, 2012	Activity	July 31, 2012	Income	
FFI Institutional Tax-Exempt Fund	22,614	(2,151)	20,463	\$	9

- (h) Represents the current yield as of report date.
- (i) Variable rate security. Rate shown is as of report date and maturity shown is the date the principal owed can be recovered through demand.

Portfolio Abbreviations

To simplify the listings of portfolio holdings in the Schedule of Investments, the names and descriptions of many of the securities have been abbreviated according to the following list:

ACA American Capital Access Corp. Assured Guaranty Corp. AGC Assured Guaranty Municipal Corp. AGM AMBAC American Municipal Bond Assurance Corp. Alternative Minimum Tax (subject to) AMT Airport Revenue Bonds ARB CAB Capital Appreciation Bonds COP Certificates of Participation EDA Economic Development Authority EDC Economic Development Corp. ERB Education Revenue Bonds General Airport Revenue Bonds GARB

GO	General Obligation Bonds
HDA	Housing Development Authority
HFA	Housing Finance Agency
HRB	Housing Revenue Bonds
IDA	Industrial Development Authority
M/F	Multi-Family
NPFGC	National Public Finance Guarantee Corp.
RB	Revenue Bonds
SBPA	Stand-by Bond Purchase Agreements
VRDN	Variable Rate Demand Notes

Fair Value Measurements - Various inputs are used in determining the fair value of investments. These inputs to valuation techniques are categorized into a disclosure hierarchy consisting of three broad levels for financial reporting purposes as follows:

Level 1 unadjusted price quotations in active markets/exchanges for identical assets and liabilities

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 Fund s own assumptions used in determining the fair value of investments)

Changes in valuation techniques may result in transfers into or out of an assigned level within the disclosure hierarchy. In accordance with the Fund's policy, transfers between different levels of the fair value disclosure hierarchy are deemed to have occurred as of the beginning of the reporting period. The categorization of a value determined for investments is based on the pricing transparency of the investment and is not necessarily an indication of the risks associated with investing in those securities. For information about the Fund's policy regarding valuation of investments and other significant accounting policies, please refer to the Fund's most recent financial statements as contained in its annual report.

BLACKROCK MUNIHOLDINGS FUND, INC.

JULY 31, 2012

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Schedule of Investments (concluded)

BlackRock MuniHoldings Fund, Inc. (MHD)

The following table summarizes the Fund s investments categorized in the disclosure hierarchy as of July 31, 2012:

	Le	vel 1	Level 2	Level 3	Total
Assets:					
Investments:					
Long Term Investments ¹			\$ 402,937,549		\$ 402,937,549
Short-Term Securities	\$	20,463	1,500,000		1,520,463
Total	\$	20,463	\$ 404,437,549		\$ 404,458,012

¹ See above Schedule of Investments for values in each state or political subdivision.

Certain of the Fund s liabilities are held at carrying amount, which approximates fair value for financial reporting purposes. As of July 31, 2012, such liabilities are categorized within the disclosure hierarchy as follows:

	Level 1	Level 2	Level 3	Total
Liabilities:				
TOB trust certificates	\$	(69,810,714)		\$ (69,810,714)
VMTP shares		(83,700,000)		(83,700,000)
Total	\$	(153,510,714)		\$ (153,510,714)
There were no transfers between levels during the period ended July 3	1 2012			

There were no transfers between levels during the period ended July 31, 2012.

BLACKROCK MUNIHOLDINGS FUND, INC. JULY 31, 2012	BLACKROCK MUNIHOLDINGS FUND, INC.	JULY 31, 2012	
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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 Fund, Inc.

By: /s/ John M. Perlowski John M. Perlowski Chief Executive Officer (principal executive officer) of BlackRock MuniHoldings Fund, Inc.

Date: September 25, 2012

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 Fund, Inc.

Date: September 25, 2012

By: /s/ Neal J. Andrews Neal J. Andrews Chief Financial Officer (principal financial officer) of BlackRock MuniHoldings Fund, Inc.

Date: September 25, 2012