

BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND  
Form N-PX  
August 26, 2015

**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**  
**FORM N-PX**  
**ANNUAL REPORT OF PROXY VOTING RECORD 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 Perlowski, Chief Executive Officer, BlackRock MuniHoldings Investment Quality Fund, 55 East 52<sup>nd</sup> Street, New York City, NY 10055.

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

Date of fiscal year end: 08/31

Date of reporting period: 07/01/2014 - 06/30/2015

Item 1 Proxy Voting Record There were no matters relating to a portfolio security considered at any shareholder meeting held during the period ended June 30, 2015 with respect to which the registrant was entitled to vote.

\*\*\*\*\* FORM N-Px REPORT \*\*\*\*\*

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BlackRock MuniHoldings Investment Quality Fund

===== BlackRock MuniHoldings Investment Quality Fund =====

There is no proxy voting activity for the fund, as the fund did not hold any  
votable positions during the reporting period.

===== END NPX REPORT

Pursuant to the requirements of 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 Perlowski  
John Perlowski  
Chief Executive Officer of

BlackRock MuniHoldings Investment  
Quality Fund

Date: August 26, 2015