BLACKROCK MUNIHOLDINGS FUND II , INC Form N-PX August $28,\,2013$

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 811-08215

Name of Fund: BlackRock MuniHoldings Fund II, Inc. (MUH)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: John Perlowski, Chief Executive Officer, BlackRock MuniHoldings Fund II, Inc.,

55 East 52nd Street, New York City, NY 10055.

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

Date of fiscal year end: 04/30

Date of reporting period: 07/01/2012 06/30/2013

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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, 2013 with respect to which the registrant was entitled to vote.

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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 Fund II, Inc.

By: /s/ John Perlowski John Perlowski Chief Executive Officer of BlackRock MuniHoldings Fund II, Inc.

Date: August 27, 2013