

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST  
Form N-PX  
August 27, 2014

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

FORM N-PX  
ANNUAL REPORT OF PROXY VOTING RECORD OF REGISTERED  
MANAGEMENT INVESTMENT COMPANIES

Investment Company Act file number 811-21409  
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Pioneer Municipal High Income Advantage Trust  
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(Exact name of registrant as specified in charter)

60 State Street Boston, MA 02109  
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(Address of principal executive offices)

Terrence J. Cullen  
60 State Street  
Boston, MA 02109  
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(Name and address of agent for service)

Registrant's telephone number, including area code: (617) 742-7825

Date of fiscal year end: March 31

Date of reporting period: July 1, 2013 to June 30, 2014

SIGNATURES

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.

(Registrant) Pioneer Municipal High Income Advantage Trust

By (Signature and Title) /s/ Mark D. Goodwin  
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Mark D. Goodwin, Executive Vice President

Date August 20, 2014

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===== Pioneer Muni High Income Advantage Trust =====

CASA GRANDE REG. MEDICAL CENTER

Ticker: Security ID: 147073AE0  
Meeting Date: MAY 08, 2014 Meeting Type: Written Consent  
Record Date: APR 01, 2014

#	Proposal	Mgt Rec	Vote Cast	Sponsor
1	The Plan	For	For	Management

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DUTCHESS COUNTY NY INDL DEV AGY

Ticker: Security ID: 267041FF3  
Meeting Date: APR 23, 2014 Meeting Type: Written Consent  
Record Date: MAR 17, 2014

#	Proposal	Mgt Rec	Vote Cast	Sponsor
1	To Accept The Plan	None	For	Management
2	Opt Out Release	None	For	Management

===== END NPX REPORT