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PIONEER MUNICIPAL HIGH INCOME TRUST  
Form N-Q  
September 29, 2014

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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 811-21321

Pioneer Pioneer Municipal High Income Trust  
(Exact name of registrant as specified in charter)

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

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

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

Date of fiscal year end: April 30

Date of reporting period: July 31, 2014

Form N-Q is to be used by management investment companies, other than small business investment companies registered on Form N-5 (239.24 and 274.5 of this chapter), to file reports with the Commission, not later than 60 days after close of the first and third fiscal quarters, pursuant to Rule 30b1-5 under the Investment Company Act of 1940 (17 CFR 270.30b1-5). The Commission may use the information provided on Form N-Q in its regulatory, disclosure review, inspection, and policymaking roles.

A registrant is required to disclose the information specified by Form N-Q, and the Commission will make this information public. A registrant is not required to respond to the collection of information contained in Form N-Q unless the Form displays a currently valid Office of Management and Budget ("OMB") control number. Please direct comments concerning the accuracy of the information collection burden estimate and any suggestions for reducing the burden to Secretary, Securities and Exchange Commission, 450 Fifth Street, NW, Washington, DC 20549-0609. The OMB has reviewed this collection of information under the clearance requirements of 44 U.S.C. ss. 3507.

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ITEM 1. Schedule of Investments.

File the schedules as of the close of the reporting period as set forth in ss. 210.12-12 12-14 of Regulation S-X [17 CFR 210.12-12 12-14]. The schedules need not be audited.

Pioneer Municipal  
High Income Trust  
NQI July 31, 2014

Ticker Symbol: MHI

Principal Amount USD (\$)	S&P/Moody's Ratings	Value
	TAX EXEMPT OBLIGATIONS - 130.4% of Net Assets	
	Alabama - 1.4%	
4,500,000	NR/NRHuntsville-Redstone Village Special Care Facilities Financing Authority Nursing Home Revenue, 5.5%, 1/1/43	\$ 4,223,745
	Arizona - 0.0%†	
24,000	NR/Baa3Pima County Industrial Development Authority Education Revenue, 6.75%, 7/1/31	\$ 24,062
	California - 10.5%	
3,000,000(a)	NR/A1Abag Finance Authority for Nonprofit Corp., Revenue, 5.75%, 7/1/37	\$ 3,213,450
1,450,000	NR/NRCalifornia Enterprise Development Authority Recovery Zone Facility Revenue, 8.5%, 4/1/31	1,607,151
1,000,000	BB/NR	1,022,250

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	California Municipal Finance Authority, 5.75%, 7/1/30	
5,000,000	NR/Baa3California Pollution Control Financing Authority, 5.0%, 7/1/37 (144A)	5,074,950
1,740,000	BB+/NRCalifornia School Finance Authority, 7.375%, 10/1/43	1,916,662
1,400,000	NR/NRCalifornia Statewide Communities Development Authority, 5.625%, 11/1/33	1,442,098
568,006(b)(c)	NR/NRCalifornia Statewide Communities Development Authority Environmental Facilities Revenue, 9.0%, 12/1/38	6
15,000,000(d)	NR/NRInland Empire Tobacco Securitization Authority Revenue, 0.0%, 6/1/36	2,991,750
7,885,000(e)	AA/WRLehman Municipal Trust Receipts Revenue, RIB, 0.0%, 9/20/28 (144A)	10,419,397
2,000,000	B-/B3Tobacco Securitization Authority of Northern California Revenue, 5.375%, 6/1/38	1,604,060
3,000,000	BB+/B2Tobacco Securitization Authority of Southern California Revenue, 5.0%, 6/1/37	2,373,150
		\$ 31,664,924
	Colorado - 1.5%	
1,500,000	B+/NRColorado Educational & Cultural Facilities Authority, 8.0%, 9/1/43	\$ 1,526,910
2,000,000	A-/NRColorado Health Facilities Authority Revenue, 5.25%, 5/15/42	2,040,860
1,000,000	NR/NRKremmling Memorial Hospital District Certificate of Participation, 7.125%, 12/1/45	833,190
		\$ 4,400,960
	Connecticut - 6.1%	
1,000,000	NR/NRHamden Connecticut Facility Revenue, 7.75%, 1/1/43	\$ 1,043,740
10,335,000(e)	AAA/WRLehman Municipal Trust Receipts Revenue, 0.0%, 8/21/35	12,401,793
5,000,000	B/NRMohegan Tribe of Indians Gaming Authority, 6.25%, 1/1/31	5,003,550

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Principal Amount USD (\$)	S&P/Moody's Ratings	Value
		\$ 18,449,083
5,000,000	BBB/Baa1 District of Columbia - 3.8% District of Columbia Tobacco Settlement Financing Corp., 6.5%, 5/15/33	\$ 5,531,350
6,000,000	BBB/Baa1 District of Columbia Tobacco Settlement Financing Corp., 6.75%, 5/15/40	5,999,700 \$ 11,531,050
1,500,000	NR/NRA Florida - 6.6% Alachua County Health Facilities Authority Revenue, 8.125%, 11/15/41	\$ 1,720,545
1,500,000	NR/NRA Alachua County Health Facilities Authority Revenue, 8.125%, 11/15/46	1,717,440
500,000	NR/B1 Capital Trust Agency Revenue Bonds, 7.75%, 1/1/41	515,670
5,000,000	AA-/Aa3 Florida's Turnpike Enterprise Revenue Bonds, 4.0%, 7/1/34	5,169,650
1,000,000(a)	NR/WR Hillsborough County Industrial Development Authority Revenue, 8.0%, 8/15/32	1,326,920
2,260,000(b)	NR/NR Florida - (continued) Liberty County Subordinate Revenue, 8.25%, 7/1/28	\$ 678,407
2,500,000	A/A2 Miami-Dade County Florida Aviation Revenue, 5.5%, 10/1/41	2,780,200
2,250,000(e)	NR/NR St. Johns County Industrial Development Authority Revenue, 1.344%, 1/1/49	897,480
832,581	NR/NR St. Johns County Industrial Development Authority Revenue, 2.5%, 1/1/49	8
5,000,000	NR/Baa1 Tallahassee Health Facilities Revenue, 6.375%, 12/1/30	5,014,900 \$ 19,821,220
4,240,000(e)	AA/WR Georgia - 5.2% Atlanta Georgia Water and Wastewater Revenue, RIB, 0.0%, 11/1/43 (144A)	\$ 4,349,943
2,500,000	B+/B1 Clayton County Development Authority Revenue, 8.75%, 6/1/29	3,105,550

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	3,445,000	B+/B1 Clayton County Development Authority Revenue, 9.0%, 6/1/35	3,612,289
	4,000,000	AA/Aa2 Private Colleges & Universities Authority Revenue, 5.0%, 10/1/43	4,470,160
		Idaho - 1.7%	\$ 15,537,942
	5,000,000	A-/Baa1 Power County Industrial Development Corp., Revenue, 6.45%, 8/1/32	\$ 5,007,900
		Illinois - 15.2%	
-	1,827,000(d)	NR/NR Illinois Finance Authority Revenue, 0.0%, 11/15/52	\$ 160,408
	2,087,000(e)	NR/NR Illinois Finance Authority Revenue, 4.0%, 11/15/52	1,352,585
	3,865,000	BBB+/NR Illinois Finance Authority Revenue, 6.0%, 8/15/38	4,140,497
	2,000,000	AA+/Aa2 Illinois Finance Authority Revenue, 6.0%, 8/15/39	2,308,960
	1,140,000	NR/NR Illinois Finance Authority Revenue, 6.375%, 5/15/17	1,140,502
	2,500,000	NR/Baa3 Illinois Finance Authority Revenue, 6.5%, 4/1/39	2,671,025
	240,000	NR/NR Illinois Finance Authority Revenue, 7.0%, 11/15/17	232,402
	500,000	NR/NR Illinois Finance Authority Revenue, 7.0%, 5/15/18	500,155
	345,000	NR/NR Illinois Finance Authority Revenue, 7.0%, 11/15/27	311,807
	1,700,000	NR/NR Illinois Finance Authority Revenue, 7.625%, 5/15/25	1,753,669
	600,000	NR/NR Illinois Finance Authority Revenue, 7.75%, 5/15/30	610,626
	2,000,000	NR/NR Illinois Finance Authority Revenue, 8.0%, 5/15/40	2,022,600
	3,200,000	NR/NR Illinois Finance Authority Revenue, 8.0%, 5/15/46	3,230,240
	2,000,000	NR/NR Illinois Finance Authority Revenue, 8.125%, 2/15/40	2,063,000
	4,000,000	NR/NR Illinois Finance Authority Revenue, 8.25%, 5/15/45	2,649,840
	2,500,000	NR/NR Illinois Finance Authority Revenue, 8.25%, 2/15/46	2,585,875
	16,880,000(d)	AAA/A3 Metropolitan Pier & Exposition Authority Dedicated State Tax Revenue, 0.0%, 6/15/22	16,965,244
	1,325,000	NR/NR Southwestern Illinois Development Authority	1,061,749

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	Revenue, 5.625%, 11/1/26	\$ 45,761,184
250,000	Indiana - 1.7% NR/NRCity of Carmel Indiana Nursing Home Revenue, 7.0%, 11/15/32	\$ 266,613

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Schedule of Investments | 7/31/14 (unaudited) (continued)

750,000	NR/NR	City of Carmel Indiana Nursing Home Revenue, 7.125%, 11/15/42	796,335
Principal Amount USD (\$)	S&P/Moody's Ratings		Value
		Indiana - (continued)	
500,000	NR/NR	City of Carmel Indiana Nursing Home Revenue, 7.125%, 11/15/47	\$ 529,230
3,570,000	NR/NR	Vigo County Hospital Authority Revenue, 5.8%, 9/1/47 (144A)	3,520,091 \$ 5,112,269
5,000,000	NR/Baa2	Kentucky - 1.9% Kentucky Economic Development Finance Authority Revenue, 6.375%, 6/1/40	\$ 5,598,250
2,260,000	BB+/Ba1	Louisiana - 3.1% Jefferson Parish Hospital Service District No. 2, 6.375%, 7/1/41	\$ 2,439,015
1,500,000	BBB/Baa3	Louisiana Local Government Environmental Facilities & Community Development Authority Revenue, 6.75%, 11/1/32	1,668,675
5,000,000	NR/Baa1	Louisiana Public Facilities Authority Revenue, 5.5%, 5/15/47	5,230,700 \$ 9,338,390
1,500,000	NR/Ba1	Maine - 1.9% Maine Health & Higher Educational Facilities Authority Revenue, 7.5%, 7/1/32	\$ 1,732,080
3,500,000	AA-/Aa3	Maine Turnpike Authority Revenue, 5.0%, 7/1/42	3,852,555