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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 29, 2015

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000 A000000 10/31/2015  
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000 E000000 NF  
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001 B000000 811-21321  
001 C000000 6177427825  
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010 A000002 BROWN BROTHERS HARRIMAN & CO.  
010 C010002 BOSTON  
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.  
011 B000001 8-41256  
011 C010001 BOSTON  
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011 C030001 02109  
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011 A000002 UBS INVESTMENT BANK  
011 B000002 8-022651  
011 C010002 STAMFORD  
011 C020002 CT

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011 C030002 06901  
011 A000003 RBC CAPITAL MARKETS CORP.  
011 B000003 8-045411  
011 C010003 MINNEAPOLIS  
011 C020003 MN  
011 C030003 55402  
011 C040003 4422  
011 A000004 ADVEST, INC.  
011 B000004 8-21409  
011 C010004 HARTFORD  
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011 A000005 JANNEY MONTGOMERY SCOTT, LLC  
011 B000005 8-462  
011 C010005 PHILADELPHIA  
011 C020005 PA  
011 C030005 19103  
011 C040005 1675  
011 A000006 MCDONALD INVESTMENTS, INC.  
011 B000006 8-30177  
011 C010006 CLEVELAND  
011 C020006 OH  
011 C030006 44114  
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011 A000007 STIFEL, NICOLAUS & CO., INC.  
011 B000007 8-001447  
011 C010007 ST. LOUIS  
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012 A000001 PIONEER INVEST. MGT. SHAREHOLDER SVCS., INC.  
012 B000001 85-01359  
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)  
012 B000002 85-00000  
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012 C020002 NY  
012 C030002 11219  
012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF)  
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012 C010003 NEW YORK  
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012 C030003 10005  
013 A000001 DELOITTE & TOUCHE LLP  
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013 B010001 BOSTON  
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015 A000002 CITIBANK, N.A. BUENOS AIRES BRANCH  
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015 D010002 ARGENTINA  
015 E040002 X  
015 A000003 HSBC BANK AUSTRALIA LIMITED  
015 B000003 S

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015 C010003 SYDNEY  
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015 A000004 UNICREDIT BANK AUSTRIA AG  
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015 A000015 CITIBANK EUROPE PLC, ORGANIZACNI SLOZKA  
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015 D010015 CZECH REPUBLIC  
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015 D010017 EGYPT  
015 E040017 X  
015 A000018 NORDEA BANK FINLAND PLC  
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015 A000022 HSBC BANK PLC, ATHENS BRANCH  
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015 D010022 GREECE  
015 E040022 X  
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015 A000025 CITIBANK, N.A.-MUMBAI BRANCH  
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015 A000027 CITIBANK, N.A., LONDON BRANCH  
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015 E040027 X  
015 A000028 BANK HAPOALIM BM  
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015 E040036 X  
015 A000037 CITIBANK MAGHREB  
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015 C010037 CASABLANCA  
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015 E040037 X  
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015 A000056 SKANDINAVISKA ENSKILDA BANKEN AB (PUB)  
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087	A020000	723763108
087	A030000	MHI
087	B010000	PREFERRED STOCK - SERIES A
087	B020000	723763207
087	C010000	PREFERRED STOCK - SERIES B
087	C020000	723763306
088	A000000	N
088	B000000	N
088	C000000	N
088	D000000	Y
SIGNATURE	MARK BRADLEY	
TITLE	TREASURER	