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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 27, 2013

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000 A000000 10/31/2013
000 C000000 0001223026
000 D000000 N
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000 I000000 6.1
000 J000000 A
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001 B000000 811-21321
001 C000000 6177427825
002 A000000 60 STATE STREET
002 B000000 BOSTON
002 C000000 MA
002 D010000 02109
003 000000 N
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010 A000002 BROWN BROTHERS HARRIMAN & CO.
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-41256
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PAGE 2
011 C030001 02109
011 C040001 1820
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
011 C020004 CT
011 C030004 06103
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.
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)
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012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF)
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013 A000001 ERNST & YOUNG LLP
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015 D010002 ARGENTINA
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015 A000003 HSBC BANK AUSTRALIA LIMITED

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015 B000003 S
015 C010003 SYDNEY
015 D010003 AUSTRALIA
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015 A000004 UNICREDIT BANK AUSTRIA AG
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015 A000012 STANDARD CHARTERED BANK (CHINA) LIMITED
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015 A000015 CITIBANK EUROPE PLC, ORGANIZACNI SLOZKA
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015 A000016 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)DAN

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015 B000016 S
015 C010016 COPENHAGEN
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015 A000017 CITIBANK, N.A., CAIRO BRANCH
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015 A000018 NORDEA BANK FINLAND PLC
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015 A000019 BNP PARIBAS SECURITIES SERVICES
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015 A000020 BNP PARIBAS SECURITIES SERVICES, FRANKFURT
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015 A000021 STANDARD CHARTERED BANK GHANA LTD.
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015 A000022 HSBC BANK PLC, ATHENS BRANCH
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015 E040026 X
015 A000027 CITIBANK, N.A., LONDON BRANCH
015 B000027 S
015 C010027 LONDON
015 D010027 IRELAND
015 E040027 X
015 A000028 BANK HAPOALIM BM
015 B000028 S

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015 C010028 TEL AVIV
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015 A000030 SUMITOMO MITSU BANKING CORPORATION
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015 A000031 HSBC BANK MIDDLE EAST LIMITED, JORDAN BRANCH
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PAGE 6

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015 E040031 X
015 A000032 CFC STANBIC BANK LIMITED
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015 A000034 KBL EUROPEAN PRIVATE BANKERS SA
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015 C010034 LUXEMBOURG
015 D010034 LUXEMBOURG
015 E040034 X
015 A000035 HSBC BANK MALAYSIA BERHAD
015 B000035 S
015 C010035 KUALA LUMPUR
015 D010035 MALAYSIA
015 E040035 X
015 A000036 BANCO NACIONAL DE MEXICO, S.A. (BANAMEX)
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015 A000037 CITIBANK MAGHREB
015 B000037 S
015 C010037 CASABLANCA
015 D010037 MOROCCO
015 E040037 X
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015 A000040 STANBIC IBTC BANK PLC
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015 C010040 LAGOS

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015 D010040 NIGERIA
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PAGE 7
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015 A000044 BANK HANDLOWY W WARSZAWIE SA
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015 C010044 WARSAW
015 D010044 POLAND
015 E040044 X
015 A000045 BNP PARIBAS SECURITIES SERVICES
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015 A000047 ING BANK N.V., BUCHAREST BRANCH
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015 A000048 ZAO CITIBANK
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015 C010048 MOSCOW
015 D010048 RUSSIA
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015 A000049 HSBC SAUDI ARABIA LIMITED
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015 D010051 SLOVAKIA
PAGE 8
015 E040051 X
015 A000052 STANDARD BANK OF SOUTH AFRICA LIMITED
015 B000052 S
015 C010052 JOHANNESBURG

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015 D010052 SOUTH AFRICA
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015 B000055 S
015 C010055 COLOMBO
015 D010055 SRI LANKA
015 E040055 X
015 A000056 SKANDINAVISKA ENSKILDA BANKEN AB(PUB)
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015 D010056 SWEDEN
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015 A000057 CREDIT SUISSE AG
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SIGNATURE MARK BRADLEY
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