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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 29, 2015

PAGE 1  
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000 E000000 NF  
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000 J000000 U  
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001 B000000 811-21321  
001 C000000 6177427825  
002 A000000 60 STATE STREET  
002 B000000 BOSTON  
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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  
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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  
011 C040006 2603  
011 A000007 STIFEL, NICOLAUS & CO., INC.  
011 B000007 8-001447  
011 C010007 ST. LOUIS  
011 C020007 MO  
011 C030007 63102  
012 A000001 PIONEER INVEST. MGT. SHAREHOLDER SVCS., INC.  
012 B000001 85-01359  
012 C010001 BOSTON  
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)  
012 B000002 85-00000  
012 C010002 BROOKLYN  
012 C020002 NY  
012 C030002 11219  
012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF)  
012 B000003 85-00000  
012 C010003 NEW YORK  
012 C020003 NY  
012 C030003 10005  
013 A000001 DELOITTE & TOUCHE LLP  
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013 B010001 BOSTON  
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015 D010002 ARGENTINA  
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015 A000003 HSBC BANK AUSTRALIA LIMITED  
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015 C010003 SYDNEY  
015 D010003 AUSTRALIA  
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015 A000007 NORDEA BANK FINLAND PLC  
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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 D010015 CZECH REPUBLIC  
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015 C010016 COPENHAGEN  
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015 A000021 STANDARD CHARTERED BANK GHANA LTD.  
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015 E040021 X  
015 A000022 HSBC BANK PLC, ATHENS BRANCH  
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015 C010022 ATHENS  
015 D010022 GREECE  
015 E040022 X  
015 A000023 STANDARD CHARTERED BANK (HONG KONG) LIMITED  
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015 A000024 CITIBANK EUROPE PLC, HUNGARIAN BRANCH OFFICE  
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015 A000025 CITIBANK, N.A.-MUMBAI BRANCH  
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015 C010025 MUMBAI  
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015 A000026 CITIBANK, N.A., JAKARTA BRANCH  
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015 A000027 CITIBANK, N.A., LONDON BRANCH  
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015 D010027 IRELAND

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015 E040027 X  
015 A000028 BANK HAPOALIM BM  
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015 E040034 X  
015 A000035 HSBC BANK MALAYSIA BERHAD  
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015 D010035 MALAYSIA  
015 E040035 X  
015 A000036 BANCO NACIONAL DE MEXICO, S.A. (BANAMEX)  
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015 D010036 MEXICO  
015 E040036 X  
015 A000037 CITIBANK MAGHREB  
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015 C010037 CASABLANCA  
015 D010037 MOROCCO  
015 E040037 X  
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015 E040038 X  
015 A000039 HSBC LIMITED, NEW ZEALAND BRANCH  
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015 A000040 STANBIC IBTC BANK PLC  
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015 C010040 LAGOS  
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015 E040040 X  
015 A000041 NORDEA BANK NORGE ASA  
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015 D010041 NORWAY  
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015 A000042 CITIBANK DEL PERU S.A.  
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PAGE 7  
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015 C010043 TAGUIG CITY  
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015 E040043 X  
015 A000044 BANK HANDLOWY W WARSZAWIE SA  
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015 D010044 POLAND  
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015 E040046 X  
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015 E040048 X  
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015 E040050 X  
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015 C010055 COLOMBO  
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015 A000056 SKANDINAVISKA ENSKILDA BANKEN AB (PUB)  
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015 A000066 CITIBANK EUROPE PLC, DUBLIN-SUCURSALA ROMANIA  
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015 D010066 ROMANIA  
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015 A000067 CITIBANK EUROPE PLC, POBOCKA ZAHRANICNEJ BANKY  
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| 072 | E000000 | 0      |
| 072 | F000000 | 1208   |
|     | PAGE    | 14     |
| 072 | G000000 | 125    |
| 072 | H000000 | 0      |

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|             |        |
|-------------|--------|
| 072 I000000 | 8      |
| 072 J000000 | 3      |
| 072 K000000 | 0      |
| 072 L000000 | 5      |
| 072 M000000 | 7      |
| 072 N000000 | 0      |
| 072 O000000 | 0      |
| 072 P000000 | 0      |
| 072 Q000000 | 0      |
| 072 R000000 | 34     |
| 072 S000000 | 20     |
| 072 T000000 | 0      |
| 072 U000000 | 0      |
| 072 V000000 | 0      |
| 072 W000000 | 184    |
| 072 X000000 | 1594   |
| 072 Y000000 | 0      |
| 072 Z000000 | 9646   |
| 072AA000000 | 0      |
| 072BB000000 | 219    |
| 072CC010000 | 0      |
| 072CC020000 | 383    |
| 072DD010000 | 9550   |
| 072DD020000 | 0      |
| 072EE000000 | 0      |
| 073 A010000 | 0.4200 |
| 073 A020000 | 0.0000 |
| 073 B000000 | 0.0000 |
| 073 C000000 | 0.0000 |
| 074 A000000 | 20001  |
| 074 B000000 | 0      |
| 074 C000000 | 0      |
| 074 D000000 | 379296 |
| 074 E000000 | 0      |
| 074 F000000 | 0      |
| 074 G000000 | 0      |
| 074 H000000 | 0      |
| 074 I000000 | 0      |
| 074 J000000 | 131    |
| 074 K000000 | 0      |
| 074 L000000 | 7192   |
| 074 M000000 | 5      |
| 074 N000000 | 406625 |
| 074 O000000 | 3082   |
| 074 P000000 | 203    |
| 074 Q000000 | 0      |
| 074 R010000 | 0      |
| 074 R020000 | 0      |
| 074 R030000 | 0      |
| PAGE 15     |        |
| 074 R040000 | 215    |
| 074 S000000 | 101001 |
| 074 T000000 | 302124 |
| 074 U010000 | 22739  |
| 074 U020000 | 0      |
| 074 V010000 | 13.29  |
| 074 V020000 | 0.00   |
| 074 W000000 | 0.0000 |
| 074 X000000 | 4718   |
| 074 Y000000 | 0      |
| 075 A000000 | 0      |
| 075 B000000 | 299363 |

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|           |              |                            |
|-----------|--------------|----------------------------|
| 076       | 000000       | 13.14                      |
| 077       | A000000      | N                          |
| 078       | 000000       | N                          |
| 080       | C000000      | 0                          |
| 081       | A000000      | N                          |
| 081       | B000000      | 0                          |
| 082       | A000000      | N                          |
| 082       | B000000      | 0                          |
| 083       | A000000      | N                          |
| 083       | B000000      | 0                          |
| 084       | A000000      | N                          |
| 084       | B000000      | 0                          |
| 085       | A000000      | N                          |
| 085       | B000000      | N                          |
| 086       | A010000      | 0                          |
| 086       | A020000      | 0                          |
| 086       | B010000      | 0                          |
| 086       | B020000      | 0                          |
| 086       | C010000      | 0                          |
| 086       | C020000      | 0                          |
| 086       | D010000      | 0                          |
| 086       | D020000      | 0                          |
| 086       | E010000      | 0                          |
| 086       | E020000      | 0                          |
| 086       | F010000      | 0                          |
| 086       | F020000      | 0                          |
| 087       | A010000      | COMMON STOCK               |
| 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    |                            |