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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 30, 2011

PAGE 1
000 A000000 10/31/2011
000 C000000 1223026
000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
000 I000000 6.1
000 J000000 A
001 A000000 PIONEER MUNICIPAL HIGH INCOME TRUST
001 B000000 811-21321
001 C000000 6177427825
002 A000000 60 STATE STREET
002 B000000 BOSTON
002 C000000 MA
002 D010000 02109
003 000000 N
004 000000 N
005 000000 N
006 000000 N
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007 B000000 0
007 C010100 1
008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
008 B000001 A
008 C000001 801-8255
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008 D020001 MA
008 D030001 02109
010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
010 B000001 801-8255
010 C010001 BOSTON
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010 C030001 02109
010 A000002 STATE STREET BANK & TRUST COMPANY
010 C010002 BOSTON
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
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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
011 C030002 06901
011 A000003 RBC CAPITAL MARKETS CORP.
011 B000003 8-045411
PAGE 2
011 C010003 MINNEAPOLIS
011 C020003 MN
011 C030003 55402
011 C040003 4422
011 A000004 ADVEST, INC.
011 B000004 8-21409

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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
012 C020001 MA
012 C030001 02109
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
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013 A000001 ERNST & YOUNG LLP
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013 B030001 02116
013 B040001 5072
015 A000001 BROWN BROTHERS HARRIMAN & CO.
015 B000001 C
015 C010001 BOSTON
015 C020001 MA
015 C030001 02109
PAGE 3
015 E010001 X
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019 B000000 55
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021 000000 0
022 A000001 DEUTSCHE BANK
022 B000001 13-2730828
022 C000001 20222
022 D000001 303
022 A000002 SOCIETE GENERALE
022 C000002 16250
022 D000002 0
022 A000003 MORGAN STANLEY & CO., INC.
022 B000003 13-2655998
022 C000003 4919

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| 022 | D000003 | 418 |
| 022 | A000004 | GOLDMAN SACHS & CO. |
| 022 | B000004 | 13-5108880 |
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| 022 | A000005 | AON SECURITIES |
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| 022 | A000006 | J.P. MORGAN SECURITIES INC. |
| 022 | B000006 | 13-3299429 |
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| 054 | B000000 | Y |
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054 E000000 N
 054 F000000 N
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 057 000000 N
 PAGE 6
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 070 G010000 Y

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| 072DD | 010000 | | 12775 |
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| 074 | R030000 | 0 |
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| 074 | T000000 | 307749 |
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| 087 | A020000 | 723763108 |
| 087 | A030000 | MHI |
| 087 | B010000 | PREFERRED STOCK - SERIES A |
| 087 | B020000 | 723763207 |

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087 C010000 PREFERRED STOCK - SERIES B
087 C020000 723763306
088 A000000 N
088 B000000 N
088 C000000 N
088 D000000 Y
SIGNATURE MARK E. BRADLEY
TITLE TREASURER