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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-B

June 29, 2012

PAGE 1
000 B000000 04/30/2012
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
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001 B000000 811-21321
001 C000000 6177427825
002 A000000 60 STATE STREET
002 B000000 BOSTON
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
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010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
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010 A000002 STATE STREET BANK & TRUST COMPANY
010 C010002 BOSTON
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-41256
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011 C040001 1820
011 A000002 UBS INVESTMENT BANK
011 B000002 8-022651
011 C010002 STAMFORD
011 C020002 CT
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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
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011 A000005 JANNEY MONTGOMERY SCOTT, LLC
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011 C020005 PA
011 C030005 19103
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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
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)
012 B000002 85-00000
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012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)
012 B000003 85-00000
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013 A000001 ERNST & YOUNG LLP
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PAGE 3
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022 B000001 13-3299429
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022 A000002 ZIEGLER SECURITIES
022 B000002 39-1148883
022 C000002 7420
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022 A000003 FIRST MIAMI SECURITIES
022 B000003 59-1842344

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078 000000 N
080 A000000 ICI MUTUAL INSURANCE CO.
080 C000000 45000
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081 B000000 56
082 A000000 N
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087 A020000 723763108
087 A030000 MHI
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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 E. BRADLEY
TITLE TREASURER