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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 28, 2012

PAGE 1
000 A000000 10/31/2012
000 C000000 0001223026
000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
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010 C010002 BOSTON
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-41256
PAGE 2
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011 A000002 UBS INVESTMENT BANK
011 B000002 8-022651

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011 C010002 STAMFORD
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011 B000003 8-045411
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011 C030003 55402
011 C040003 4422
011 A000004 ADVEST, INC.
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011 C010004 HARTFORD
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011 C030004 06103
011 A000005 JANNEY MONTGOMERY SCOTT, LLC
011 B000005 8-462
011 C010005 PHILADELPHIA
011 C020005 PA
011 C030005 19103
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011 A000006 MCDONALD INVESTMENTS, INC.
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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
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)
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012 C030002 11219
012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF)
012 B000003 85-00000
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020 A000001 SANFORD C. BERNSTEIN & CO., INC.
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PAGE 8

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| SIGNATURE | MARK BRADLEY | |
| TITLE | TREASURER | |