

PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-B

June 29, 2011

PAGE 1
000 B000000 04/30/2011
000 C000000 0001223026
000 D000000 N
000 E000000 NF
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000 I000000 6.1
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001 B000000 811-21321
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
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010 A000002 STATE STREET BANK & TRUST COMPANY
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-12345678
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PAGE 2
011 C030001 02109
011 A000002 UBS INVESTMENT BANK
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011 A000003 RBC CAPITAL MARKETS CORP.
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011 A000005 JANNEY MONTGOMERY SCOTT, LLC
011 B000005 8-462
011 C010005 PHILADELPHIA
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011 A000006 MCDONALD INVESTMENTS, INC.
011 B000006 8-30177
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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.
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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015 A000001 BROWN BROTHERS HARRIMAN & CO.
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 022 B000003 95-2622900
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 022 B000004 56-1986792
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 022 B000008 56-1237041
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088 B000000 N

088 C000000 N

088 D000000 Y

SIGNATURE MARK E. BRADLEY

TITLE TREASURER