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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 22, 2006

PAGE 1
000 A000000 10/31/2006
000 C000000 0001223026
000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-12345678
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PAGE 2
011 C020001 MA
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011 C010003 MINNEAPOLIS
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011 C010004 HARTFORD
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011 A000005 JANNEY MONTGOMERY SCOTT LLC
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011 C010005 PHILADELPHIA
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011 C040005 1675
011 A000006 MCDONALD INVESTMENTS INC.
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011 A000007 STIFEL, NICOLAUS & COMPANY INCORPORATED
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012 A000001 PIONEER INV. MGMT. SHAREHOLDER SERVICES, INC.
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)
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012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)
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013 A000001 ERNST & YOUNG LLP
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022 A000004 HERBERT J. SIMS & CO., INC.
022 B000004 13-2513180
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SIGNATURE	MARY KELLERMANN	
TITLE	ACCOUNTING MANAGER	