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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
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000 H000000 N
000 I000000 6.1
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010 A000002 PRINCETON ADMINISTRATORS, LLC
010 C010002 PRINCETON
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-12345678
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011 C020002 CT

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011 A000005 JANNEY MONTGOMERY SCOTT LLC
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011 C030005 19103
011 C040005 1675
011 A000006 MCDONALD INVESTMENTS INC.
011 B000006 8-30177
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011 C020006 OH
011 C030006 44114
011 C040006 2603
011 A000007 STIFEL, NICOLAUS & COMPANY INCORPORATED
011 B000007 8-001447
011 C010007 ST. LOUIS
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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
PAGE 3
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087	C010000	PREFERRED STOCK - SERIES B
087	C020000	723763306
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SIGNATURE	MARY KELLERMANN	
TITLE	ACCOUNTING MANAGER	