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PIONEER MUNICIPAL HIGH INCOME TRUST
Form NSAR-A
December 29, 2004

PAGE 1
000 A000000 10/31/2004
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
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
008 B000001 A
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010 A000002 PRINCETON ADMINISTRATORS, L.P.
010 C010002 PRINCETON
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-12345678
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PAGE 2
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011 A000004 ADVEST, INC.
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011 A000005 JANNEY MONTGOMERY SCOTT LLC
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011 C010005 PHILADELPHIA
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011 C030005 19103
011 C040005 1675
011 A000006 MCDONALD INVESTMENTS INC.
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011 C020006 OH
011 C030006 44114
011 C040006 2603
011 A000007 STIFEL, NICOLAUS & COMPANY INCORPORATED
011 B000007 8-001447
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012 A000001 PIONEER INV. MGMT. SHAREHOLDER SERVICES, INC.
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012 A000002 MELLON INVESTOR SERVICES LLC (COMMON)
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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
PAGE 3
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SIGNATURE	MARY KELLERMANN	
TITLE	ACCOUNTING MANAGER	