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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 30, 2008

PAGE 1
000 A000000 10/31/2008
000 C000000 0001223026
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 C000000 6177427825
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
008 B000001 A
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010 A000002 PRINCETON ADMINISTRATORS, LLC
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-12345678
011 C010001 BOSTON
PAGE 2
011 C020001 MA
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011 A000002 UBS INVESTMENT BANK
011 B000002 8-022651
011 C010002 STAMFORD
011 C020002 CT

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011 A000003 RBC CAPITAL MARKETS CORP.
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011 C010003 MINNEAPOLIS
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011 A000004 ADVEST, INC.
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011 C010004 HARTFORD
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011 A000005 JANNEY MONTGOMERY SCOTT, LLC
011 B000005 8-462
011 C010005 PHILADELPHIA
011 C020005 PA
011 C030005 19103
011 C040005 1675
011 A000006 MCDONALD INVESTMENTS, INC.
011 B000006 8-30177
011 C010006 CLEVELAND
011 C020006 OH
011 C030006 44114
011 C040006 2603
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)
012 B000002 85-00000
012 C010002 BROOKLYN
012 C020002 NY
012 C030002 11219
012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)
012 B000003 85-00000
012 C010003 NEW YORK
012 C020003 NY
012 C030003 10005
013 A000001 ERNST & YOUNG LLP
PAGE 3
013 B010001 BOSTON
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015 A000001 BROWN BROTHERS HARRIMAN & CO.
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 022 A000003 LEHMAN BROTHERS, INC.
 022 B000003 13-2518466
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 022 A000004 B.C. ZIEGLER AND CO.
 022 B000004 39-0727640
 022 C000004 6500
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 022 A000005 SOUTHRIDGE INVESTMENT GROUP
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 022 A000007 BARCLAYS CAPITAL, INC.
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087	C010000	PREFERRED STOCK - SERIES B
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SIGNATURE	MARY KELLERMANN	
TITLE	ACCOUNTING MANAGER	