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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-B

June 27, 2008

PAGE 1
000 B000000 04/30/2008
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000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
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PAGE 2
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011 C010005 PHILADELPHIA
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011 C030005 19103
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011 A000006 MCDONALD INVESTMENTS, INC.
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011 A000007 STIFEL, NICOLAUS & CO., INC.
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012 A000001 PIONEER INVEST. MGT. SHAREHOLDER SVCS., INC.
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013 A000001 ERNST & YOUNG LLP
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 022 A000007 HERBERT J. SIMS & CO., INC.
 022 B000007 13-5213180
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 022 B000008 11-2418191
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087	C010000	PREFERRED STOCK - SERIES B
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088 A000000 N

088 B000000 N

088 C000000 N

088 D000000 Y

SIGNATURE MARY KELLERMANN

TITLE ACCOUNTING MANAGER