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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 27, 2007

PAGE 1
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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 A000002 UBS WARBURG
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011 C010002 STAMFORD
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011 A000004 ADVEST, INC.
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011 A000005 JANNEY MONTGOMERY SCOTT, LLC
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011 A000006 MCDONALD INVESTMENTS, INC.
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012 A000001 PIONEER INVESTMENT MGT. SHAREHOLDER SERVICES
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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
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022 A000004 UBS SECURITIES, LLC
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022 A000009 BEAR, STEARNS & CO., INC.
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PAGE 6

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| | PAGE | 9 |
| 088 | D000000 | Y |
| SIGNATURE | MARY KELLERMANN | |
| TITLE | ACCOUNTING MANAGER | |