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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 29, 2005

PAGE 1  
000 A000000 10/31/2005  
000 C000000 1223026  
000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
000 H000000 N  
000 I000000 6.1  
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001 A000000 PIONEER MUNICIPAL HIGH INCOME TRUST  
001 B000000 811-21321  
001 C000000 6177427825  
002 A000000 60 STATE STREET  
002 B000000 BOSTON  
002 C000000 MA  
002 D010000 02109  
003 000000 N  
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007 C010400 4  
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007 C010700 7  
007 C010800 8  
007 C010900 9  
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
008 B000001 A  
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008 D020001 MA  
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010 C020001 MA  
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010 A000002 PRINCETON ADMINISTRATORS, L.P.  
010 C010002 PRINCETON  
010 C020002 NJ  
010 C030002 08543  
010 C040002 9095  
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 WARBURG  
011 B000002 8-022651  
011 C010002 STAMFORD  
011 C020002 CT

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011 C030002 06901  
011 A000003 RBC CAPITAL MARKETS  
011 B000003 8-045411  
011 C010003 MINNEAPOLIS  
011 C020003 MN  
011 C030003 55402  
011 C040003 4422  
011 A000004 ADVEST, INC.  
011 B000004 8-21409  
011 C010004 HARTFORD  
011 C020004 CT  
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011 A000005 JANNEY MONTGOMERY SCOTT LLC  
011 B000005 8-462  
011 C010005 PHILADELPHIA  
011 C020005 PA  
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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 & COMPANY INCORPORATED  
011 B000007 8-001447  
011 C010007 ST. LOUIS  
011 C020007 MO  
011 C030007 63102  
012 A000001 PIONEER INV. MGMT. SHAREHOLDER SERVICES, INC.  
012 B000001 85-00000  
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012 A000002 MELLON INVESTOR SERVICES LLC (COMMON)  
012 B000002 85-00000  
012 C010002 RIDGEFIELD PARK  
012 C020002 NJ  
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012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)  
012 B000003 85-00000  
012 C010003 NEW YORK  
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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 | WACHOVIA SECURITIES, LLC      |
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| 022 | B000005 | 11-2418191                    |
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| 022 | A000007 | STERNE, AGEE & LEACH, INC.    |
| 022 | B000007 | 63-0463600                    |
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| 026 | G020000 | N                             |
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| 045 | 000000  | Y                             |
| 046 | 000000  | N                             |
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| 048 | A020000 | 0.000                         |
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     PAGE 5  
 054 B000000 Y  
 054 C000000 Y  
 054 D000000 N  
 054 E000000 N  
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 054 H000000 Y  
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 062 N000000 0.0

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| 062 | O000000 | 126.6  |
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| 067 | 000000  | N      |
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| 068 | B000000 | N      |
| 069 | 000000  | N      |
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| 070 | B010000 | N      |
| 070 | B020000 | N      |
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| 070 | C020000 | N      |
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| 070 | F020000 | N      |
| 070 | G010000 | Y      |
| 070 | G020000 | N      |
| 070 | H010000 | N      |
| 070 | H020000 | N      |
| 070 | I010000 | N      |
| 070 | I020000 | N      |
| 070 | J010000 | N      |
| 070 | J020000 | N      |
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| 070 | K020000 | Y      |
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| 070 | M010000 | N      |
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| 070 | N010000 | N      |
| 070 | N020000 | N      |
| 070 | O010000 | Y      |
| 070 | O020000 | N      |
| 070 | P010000 | Y      |
| 070 | P020000 | N      |
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| 072 K000000 | 0   |
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|             |        |
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| 074 S000000 | 101000 |
| 074 T000000 | 327792 |
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| 074 U020000 | 0      |
| 074 V010000 | 14.82  |

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|             |        |
|-------------|--------|
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| 074 W000000 | 0.0000 |
| 074 X000000 | 11187  |
| 074 Y000000 | 0      |

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|           |                    |                            |
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| 075       | A000000            | 0                          |
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| 086       | A020000            | 0                          |
| 086       | B010000            | 0                          |
| 086       | B020000            | 0                          |
| 086       | C010000            | 0                          |
| 086       | C020000            | 0                          |
| 086       | D010000            | 0                          |
| 086       | D020000            | 0                          |
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| 086       | E020000            | 0                          |
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| 087       | B010000            | PREFERRED STOCK - SERIES A |
| 087       | B020000            | 723763207                  |
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| 087       | C020000            | 723763306                  |
| 088       | A000000            | N                          |
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| 088       | C000000            | N                          |
| 088       | D000000            | Y                          |
| SIGNATURE | MARY KELLERMANN    |                            |
| TITLE     | ACCOUNTING MANAGER |                            |