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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 29, 2009

PAGE 1  
000 A000000 10/31/2009  
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  
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  
004 000000 N  
005 000000 N  
006 000000 N  
007 A000000 N  
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007 C010400 4  
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007 C010600 6  
007 C010700 7  
007 C010800 8  
007 C010900 9  
007 C011000 10  
008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
008 B000001 A  
008 C000001 801-8255  
008 D010001 BOSTON  
008 D020001 MA  
008 D030001 02109  
010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
010 B000001 801-8255  
010 C010001 BOSTON  
010 C020001 MA  
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010 A000002 PRINCETON ADMINISTRATORS, LLC  
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  
011 C030001 02109  
011 A000002 UBS INVESTMENT BANK  
011 B000002 8-022651  
011 C010002 STAMFORD  
011 C020002 CT

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011 C030002 06901  
011 A000003 RBC CAPITAL MARKETS CORP.  
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  
011 C030004 06103  
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  
012 C010001 BOSTON  
012 C020001 MA  
012 C030001 02109  
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  
013 B020001 MA  
013 B030001 02116  
013 B040001 5072  
015 A000001 BROWN BROTHERS HARRIMAN & CO.  
015 B000001 C  
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020 C000002 0

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| 022 | A000002 | BARCLAYS CAPITAL, INC.           |
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| 022 | A000003 | FIRST TYRON SECURITIES, LLC      |
| 022 | B000003 | 56-1986792                       |
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| 022 | A000004 | RAYMOND JAMES & ASSOCIATES, INC. |
| 022 | B000004 | 59-1237041                       |
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| 022 | A000005 | MORGAN STANLEY & CO., INC.       |
| 022 | B000005 | 13-2655998                       |
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| 022 | A000006 | BB&T AM DISTRIBUTORS, INC.       |
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| 022 | A000007 | D.A. DAVIDSON & CO.              |
| 022 | B000007 | 81-0139474                       |
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| 022 | A000008 | MCPMAHAN SECURITIES CO., LP      |
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| 026 | G010000 | N                                |
| 026 | G020000 | N                                |
| 026 | H000000 | N                                |
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| 045 | 000000  | Y                                |
| 046 | 000000  | N                                |
| 047 | 000000  | Y                                |
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| 048 | A010000 | 0                                |
| 048 | A020000 | 0.000                            |

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|     |         |       |
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|     | PAGE    | 5     |
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| 054 | B000000 | Y     |
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| 054 | N000000 | N     |
| 054 | O000000 | N     |
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| 055 | B000000 | N     |
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| 062 | L000000 | 0.0   |

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| 066 | A000000 | N      |
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|     | PAGE    | 6      |
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| 070 | A020000 | N      |
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| 070 | B020000 | N      |
| 070 | C010000 | Y      |
| 070 | C020000 | N      |
| 070 | D010000 | N      |
| 070 | D020000 | N      |
| 070 | E010000 | Y      |
| 070 | E020000 | N      |
| 070 | F010000 | N      |
| 070 | F020000 | N      |
| 070 | G010000 | Y      |
| 070 | G020000 | N      |
| 070 | H010000 | N      |
| 070 | H020000 | N      |
| 070 | I010000 | N      |
| 070 | I020000 | N      |
| 070 | J010000 | Y      |
| 070 | J020000 | Y      |
| 070 | K010000 | Y      |
| 070 | K020000 | Y      |
| 070 | L010000 | N      |
| 070 | L020000 | N      |
| 070 | M010000 | N      |
| 070 | M020000 | N      |
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| 070 | P020000 | N      |
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| 072 | B000000 | 14665  |
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072 F000000 1128  
 072 G000000 197  
 072 H000000 0  
 072 I000000 21  
 072 J000000 7

PAGE 7

072 K000000 0  
 072 L000000 15  
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 074 T000000 292072  
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PAGE 8

074 U020000 0  
 074 V010000 13.17  
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|           |                    |                            |
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| 074       | X000000            | 9695                       |
| 074       | Y000000            | 0                          |
| 075       | A000000            | 0                          |
| 075       | B000000            | 272100                     |
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| 078       | 000000             | N                          |
| 080       | A000000            | ICI MUTUAL INSURANCE CO.   |
| 080       | C000000            | 45000                      |
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| 081       | B000000            | 62                         |
| 082       | A000000            | N                          |
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| 087       | A020000            | 723763108                  |
| 087       | A030000            | MHI                        |
| 087       | B010000            | PREFERRED STOCK - SERIES A |
| 087       | B020000            | 723763207                  |
| 087       | C010000            | PREFERRED STOCK - SERIES B |
| 087       | C020000            | 723763306                  |
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| 088       | C000000            | N                          |
| 088       | D000000            | Y                          |
| SIGNATURE | MARY KELLERMANN    |                            |
| TITLE     | ACCOUNTING MANAGER |                            |