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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 27, 2007

PAGE 1  
000 A000000 10/31/2007  
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000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
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000 J000000 A  
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001 B000000 811-21321  
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002 A000000 60 STATE STREET  
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002 C000000 MA  
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008 B000001 A  
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010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
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010 A000002 PRINCETON ADMINISTRATORS, LLC  
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.  
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011 C020001 MA  
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011 A000002 UBS WARBURG  
011 B000002 8-022651  
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 C010005 PHILADELPHIA  
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011 A000006 MCDONALD INVESTMENTS, INC.  
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011 C010007 ST. LOUIS  
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013 A000001 ERNST & YOUNG LLP  
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PAGE 6

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SIGNATURE	MARY KELLERMANN	
TITLE	ACCOUNTING MANAGER	