



**PIONEER MUNICIPAL HIGH INCOME OPPORTUNITIES FUND, INC.
REQUIRED NOTICE TO SHAREHOLDERS
SOURCES OF DISTRIBUTION UNDER SECTION 19(a)**

FOR IMMEDIATE RELEASE
August 31, 2022

Boston, Massachusetts – Pioneer Municipal High Income Opportunities Fund, Inc. (NYSE: MIO) today reported sources of distribution for August and for distributions this fiscal year to date.

Distribution Period	August 2022
Distribution Amount Per Share	\$0.0630

The following table sets forth estimates of the character of the current distribution and the cumulative distributions paid this fiscal year to date from the following sources: Net Investment Income; Net Realized Short-Term Capital Gains; Net Realized Long-Term Capital Gains or Return of Capital. All amounts are expressed per common share.

	Current Distribution	Percentage Make up of Current Distribution	Total Cumulative Distributions Fiscal Year to Date	Percentage Make up of Total Cumulative Distributions Fiscal Year to Date
Net Investment Income	\$0.04190	66.5%	\$0.17690	72.8%
Net Realized Short-Term Capital Gains	\$0.00000	0.0%	\$0.00000	0.0%
Net Realized Long-Term Capital Gains	\$0.00000	0.0%	\$0.00000	0.0%
Return of Capital	\$0.02110	33.5%	\$0.06610	27.2%
Total per Common Share	\$0.06300	100.0%	\$0.24300	100.0%

Note

Investors should not necessarily draw any conclusions about the fund's investment performance from the amount of this distribution.

The fund estimates that a portion of the distribution does not represent income or realized capital gains. Therefore, such portion of the distribution may be a return of capital. A return of capital may occur when some or all of the money invested in the fund is returned to the investor. A return of capital distribution does not necessarily reflect the fund's investment performance and should not be considered "yield" or "income."

The amounts and sources of distributions reported under the notice are only estimates and are not being provided for tax reporting purposes. The actual amounts and sources for tax reporting purposes will depend upon the fund's investment experience during the remainder of its fiscal year and may be subject to change based on tax regulations. The fund will provide investors with a Form(s) 1099 for the calendar year that explains how to report these distributions for federal income tax purposes.

Pioneer Municipal High Income Opportunities Fund, Inc. is a closed-end investment company trading on the NYSE under the symbol MIO.

Keep in mind, distribution rates are not guaranteed. A fund's distribution rate may be affected by numerous factors, including changes in actual or projected investment income, the level of undistributed net investment income, if any, and other factors. Closed-end funds, unlike open-end funds, are not continuously offered. Once issued, common shares of closed-end funds are bought and sold in the open market through a stock exchange and frequently trade at prices lower than their net asset value. Net Asset Value (NAV) is total assets less total liabilities divided by the number of common shares outstanding. For performance data on Amundi US' closed-end funds, please call 800-225-6292 or visit our [closed-end pricing](#) page.

About Amundi US

Amundi US is the US business of Amundi, Europe's largest asset manager by assets under management and ranked among the ten largest globally^[1]. Boston is one of Amundi's six main global investment hubs^[2] and offers a broad range of fixed-income, equity, and multi-asset investment solutions in close partnership with wealth management firms, distribution platforms, and institutional investors across the Americas, Europe, and Asia-Pacific.

With our financial and extra-financial research capabilities and long-standing commitment to responsible investment, Amundi is a key player in the asset management landscape. Amundi clients benefit from the expertise and advice of 5,400^[3] employees in 35 countries^[4]. A subsidiary of the Crédit Agricole group and listed on the Paris stock exchange, Amundi currently manages approximately \$2.01 trillion of assets^[4].

Amundi, a Trusted Partner, working every day in the interest of our clients and society

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¹ Source: IPE "Top 500 Asset Managers" published in June 2022, based on assets under management as of 12/31/2021

² Boston, Dublin, London, Milan, Paris, and Tokyo

³ Consolidated internal Amundi and Lyxor workforce as at 6/30/2022

⁴ Amundi data as of 6/30/22

Shareholder Inquiries: Please contact your financial advisor or visit www.amundi.com/us.

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Amundi Distributor US, Inc., Member [SIPC](#)

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