

Kayne Anderson MLP Investment Company Provides Unaudited Balance Sheet Information and Announces its Net Asset Value and Asset Coverage Ratios at August 31, 2017

Houston, TX – September 6, 2017 – Kayne Anderson MLP Investment Company (the “Company”) (NYSE: KYN) today provided a summary unaudited statement of assets and liabilities and announced its net asset value and asset coverage ratios under the Investment Company Act of 1940 (the “1940 Act”) as of August 31, 2017.

As of August 31, 2017, the Company’s net assets were \$2.0 billion, and its net asset value per share was \$17.26. As of August 31, 2017, the Company’s asset coverage ratio under the 1940 Act with respect to senior securities representing indebtedness was 404% and the Company’s asset coverage ratio under the 1940 Act with respect to total leverage (debt and preferred stock) was 290%.

Kayne Anderson MLP Investment Company Statement of Assets and Liabilities August 31, 2017 (Unaudited)

	(in millions)	Per Share
Investments	\$ 3,547.4	\$ 30.96
Cash and cash equivalents	39.7	0.35
Deposits	0.3	0.00
Accrued income	1.1	0.01
Receivable for securities sold	5.3	0.05
Other assets	1.6	0.01
Total assets	<u>3,595.4</u>	<u>31.38</u>
Notes	747.0	6.52
Unamortized notes issuance costs	(3.0)	(0.03)
Preferred stock	292.0	2.55
Unamortized preferred stock issuance costs	(2.4)	(0.02)
Total leverage	<u>1,033.6</u>	<u>9.02</u>
Payable for securities purchased	2.7	0.02
Other liabilities	21.1	0.19
Deferred tax liability	560.8	4.89
Total liabilities	<u>584.6</u>	<u>5.10</u>
Net assets	<u>\$ 1,977.2</u>	<u>\$ 17.26</u>

The Company had 114,575,715 common shares outstanding as of August 31, 2017.

Long-term investments were comprised of Midstream MLP (86%), Midstream Company (12%) and Shipping MLP (2%).

The Company's ten largest holdings by issuer at August 31, 2017 were:

		Units / Shares (in thousands)	Amount (\$ millions)	Percent of Long-Term Investments
1.	Enterprise Products Partners L.P. (Midstream MLP)	19,680	\$513.1	14.5%
2.	Energy Transfer Partners, L.P. (Midstream MLP)	19,879	377.9	10.7%
3.	Williams Partners L.P. (Midstream MLP)	8,421	331.8	9.4%
4.	MPLX LP (Midstream MLP)*	7,009	249.8	7.0%
5.	ONEOK, Inc. (Midstream Company)	4,433	240.1	6.8%
6.	Western Gas Partners, LP (Midstream MLP)	3,841	196.2	5.5%
7.	Plains All American Pipeline, L.P. (Midstream MLP)	8,962	194.1	5.5%
8.	Buckeye Partners, L.P. (Midstream MLP)	2,875	164.4	4.6%
9.	DCP Midstream, LP (Midstream MLP)	5,010	160.9	4.5%
10.	Targa Resources Corp. (Midstream Company)	3,137	139.8	3.9%

* Includes 4,753 common units (\$163.1 million) and 2,256 preferred units (\$86.7 million).

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Kayne Anderson MLP Investment Company is a non-diversified, closed-end management investment company registered under the Investment Company Act of 1940, whose common stock is traded on the NYSE. The Company's investment objective is to obtain a high after-tax total return by investing at least 85% of its total assets in energy-related master limited partnerships and their affiliates (collectively, "MLPs"), and in other companies that, as their principal business, operate assets used in the gathering, transporting, processing, storing, refining, distributing, mining or marketing natural gas, natural gas liquids (including propane), crude oil, refined petroleum products or coal.

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS: This press release contains "forward-looking statements" as defined under the U.S. federal securities laws. Generally, the words "believe," "expect," "intend," "estimate," "anticipate," "project," "will" and similar expressions identify forward-looking statements, which generally are not historical in nature. Forward-looking statements are subject to certain risks and uncertainties that could cause actual results to differ from the Fund's historical experience and its present expectations or projections indicated in any forward-looking statements. These risks include, but are not limited to, changes in economic and political conditions; regulatory and legal changes; MLP industry risk; leverage risk; valuation risk; interest rate risk; tax risk; and other risks discussed in the Fund's filings with the SEC. You should not place undue reliance on forward-looking statements, which speak only as of the date they are made. The Fund undertakes no obligation to publicly update or revise any forward-looking statements made herein. There is no assurance that the Fund's investment objective will be attained.

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