

KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.

Form N-CSRS

July 30, 2014

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**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**

**Washington, D.C. 20549**

**FORM N-CSR**

**CERTIFIED SHAREHOLDER REPORT OF REGISTERED**  
**MANAGEMENT INVESTMENT COMPANIES**

**Investment Company Act file number 811-22467**

**Kayne Anderson Midstream/Energy Fund, Inc.**

(Exact name of registrant as specified in charter)

811 Main Street, 14th Floor, Houston, Texas  
(Address of principal executive offices)

77002  
(Zip code)

David Shladovsky, Esq.

KA Fund Advisors, LLC, 811 Main Street, 14th Floor, Houston, Texas 77002

(Name and address of agent for service)

Registrant's telephone number, including area code: (713) 493-2020

Date of fiscal year end: November 30, 2014

Date of reporting period: May 31, 2014

Form N-CSR is to be used by management investment companies to file reports with the Commission not later than 10 days after the transmission to stockholders of any report that is required to be transmitted to stockholders under Rule 30e-1 under the Investment Company Act of 1940 (17 CFR 270.30e-1). The Commission may use the information provided on Form N-CSR in its regulatory, disclosure review, inspection, and policymaking roles.

A registrant is required to disclose the information specified by Form N-CSR, and the Commission will make this information public. A registrant is not required to respond to the collection of information contained in Form N-CSR unless the Form displays a currently valid Office

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of Management and Budget ( OMB ) control number. Please direct comments concerning the accuracy of the information collection burden estimate and any suggestions for reducing the burden to Secretary, Securities and Exchange Commission, 450 Fifth Street, NW, Washington, DC 20549-0609. The OMB has reviewed this collection of information under the clearance requirements of 44 U.S.C. § 3507.

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**Item 1. Reports to Stockholders.**

The report of Kayne Anderson Midstream/Energy Fund, Inc. (the Registrant ) to stockholders for the semi-annual period ended May 31, 2014 is attached below.

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*Midstream/Energy Fund*

**KMF Semi-Annual Report**

May 31, 2014

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**CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS:** This report of Kayne Anderson Midstream/Energy Fund, Inc. (the Fund) 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 materially differ from the Fund's historical experience and its present expectations or projections indicated in any forward-looking statement. 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 Securities and Exchange Commission (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 objectives will be attained.

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**KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.**

**MANAGEMENT DISCUSSION**

**(UNAUDITED)**

**Fund Overview**

Kayne Anderson Midstream/Energy Fund, Inc. is a non-diversified, closed-end fund. We commenced operations on November 24, 2010. Our shares of common stock are listed on the New York Stock Exchange under the symbol KMF.

Our investment objective is to provide a high level of total return with an emphasis on making quarterly cash distributions to our stockholders. We seek to achieve that investment objective by investing at least 80% of our total assets in the securities of companies in the Midstream/Energy Sector, consisting of (a) Midstream MLPs, (b) Midstream Companies, (c) Other MLPs and (d) Other Energy Companies. We anticipate that the majority of our investments will consist of investments in Midstream MLPs and Midstream Companies. Please see the Glossary of Key Terms on page 38 for a description of these investment categories and for the meaning of capitalized terms not otherwise defined herein.

As of May 31, 2014, we had total assets of \$1.3 billion, net assets applicable to our common stock of \$893 million (net asset value of \$40.78 per share), and 21.9 million shares of common stock outstanding. As of May 31, 2014, we held \$1.2 billion in equity investments and \$127 million in debt investments.

**Recent Events**

On July 25, 2014, we entered into a \$50 million unsecured revolving credit agreement ( Bank Facility ). The Bank Facility has a five-year commitment, and borrowings under the Bank Facility will bear interest at a rate of 1-month LIBOR plus 1.30%. We pay a fee of 0.25% per annum on any unused amount of the Bank Facility.

**Results of Operations For the Three Months Ended May 31, 2014**

*Investment Income.* Investment income totaled \$8.3 million for the quarter and consisted primarily of net dividends and distributions and interest income on our investments. We received \$11.8 million of dividends and distributions, of which \$6.0 million was treated as return of capital. Interest and other income was \$2.5 million. We received \$2.9 million of paid-in-kind dividends during the quarter, which are not included in investment income, but are reflected as an unrealized gain.

*Operating Expenses.* Operating expenses totaled \$7.7 million, including \$3.8 million of investment management fees, \$2.6 million of interest expense (including non-cash amortization of debt issuance costs of \$0.2 million), \$0.4 million of other operating expenses and \$1.0 million of preferred stock distributions.

*Net Investment Income.* Our net investment income totaled \$0.6 million.

*Net Realized Gains.* We had net realized gains of \$16.5 million, which includes \$0.7 million of net realized gains from option activity and \$0.4 million of net realized losses on interest rate swap contracts.

*Net Change in Unrealized Gains.* We had a net increase in unrealized gains of \$63.9 million. The net increase consisted of \$64.3 million of unrealized gains from investments and \$0.4 million of net unrealized losses from option activity.

*Net Increase in Net Assets Resulting from Operations.* We had an increase in net assets resulting from operations of \$81.0 million. This increase was comprised of net investment income of \$0.6 million, net realized gains of \$16.5 million and net increase in unrealized gains of \$63.9 million, as noted above.

**Distribution to Common Stockholders**

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We pay quarterly distributions to our common stockholders, funded generally by net distributable income ( NDI ) generated from our portfolio investments. NDI is the amount of income received by us from our

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portfolio investments less operating expenses, subject to certain adjustments as described below. NDI is not a financial measure under the accounting principles generally accepted in the United States of America ( GAAP ). Refer to the Reconciliation of NDI to GAAP section below for a reconciliation of this measure to our results reported under GAAP.

Income from portfolio investments includes (a) cash dividends and distributions, (b) paid-in-kind dividends received (*i.e.*, stock dividends), (c) interest income from debt securities and commitment fees from private investments in public equity ( PIPE investments ) and (d) net premiums received from the sale of covered calls.

Operating expenses include (a) investment management fees paid to our investment adviser, (b) other expenses (mostly comprised of fees paid to other service providers), (c) an accrual for estimated excise taxes and (d) interest expense and preferred stock distributions.

**Net Distributable Income (NDI)**

(amounts in millions, except for per share amounts)

	<b>Three Months Ended May 31, 2014</b>
<b>Distributions and Other Income from Investments</b>	
Dividends <sup>(1)</sup>	\$ 11.8
Paid-In-Kind Dividends and Distributions <sup>(1)</sup>	2.9
Interest and Other Income	2.5
Net Premiums Received from Call Options Written	2.4
<b>Total Distributions and Other Income from Investments</b>	<b>19.6</b>
<b>Expenses</b>	
Investment Management Fee	(3.8)
Other Expenses	(0.4)
Excise Taxes <sup>(2)(3)</sup>	
Interest Expense	(2.4)
Preferred Stock Distributions	(1.0)
<b>Net Distributable Income (NDI)</b>	<b>\$ 12.0</b>
Weighted Shares Outstanding	22.1
<b>NDI per Weighted Share Outstanding</b>	<b>\$ 0.545</b>
<b>Adjusted NDI per Weighted Share Outstanding<sup>(4)</sup></b>	<b>\$ 0.545</b>
<b>Distributions paid per Common Share<sup>(5)</sup></b>	<b>\$ 0.480</b>

(1)



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See Note 2 (Investment Income) to the Financial Statements for additional information regarding paid-in-kind and non-cash dividends and distributions.

- (2) During the six months ended May 31, 2014, we paid \$0.76 million of excise taxes related to undistributed income during 2013. At November 30, 2013, we accrued \$0.75 million in excise taxes and increased this accrual by \$0.01 million during first quarter of fiscal 2014 to true-up to the actual amount of taxes paid. As of May 31, 2014, for GAAP purposes, we did not accrue any excise taxes related to undistributed income for 2014 because the liability was not probable and estimable.
- (3) Our Board of Directors currently intends to declare a special distribution prior to the end of calendar 2014 to eliminate our potential excise tax liability. The amount of the special distribution, if any, will depend on many factors, including the amount of our undistributed income at year end (if any), as well as our leverage

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**KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.**

**MANAGEMENT DISCUSSION**

**(UNAUDITED)**

levels at such time. Based on the current intentions of our Board of Directors, we have assumed no excise tax expense for purposes of calculating NDI for fiscal 2014.

(4) There were no adjustments during the quarter.

(5) The distribution of \$0.48 per share for the second quarter of fiscal 2014 was paid on July 18, 2014. Payment of future distributions is subject to Board of Directors approval, as well as meeting the covenants of our debt agreements and terms of our preferred stock. In determining our quarterly distribution to common stockholders, our Board of Directors considers a number of factors that include, but are not limited to:

NDI and Adjusted NDI generated in the current quarter;

Expected NDI over the next twelve months; and

Realized and unrealized gains generated by the portfolio.

On June 25, 2014, we declared a quarterly distribution of \$0.48 per common share for the second quarter of fiscal 2014 (a total distribution of \$10.5 million). The distribution represents an increase of 1.6% from the prior quarter's distribution and an increase of 5.5% from the distribution for the quarter ended May 31, 2013. The distribution was paid on July 18, 2014.

**Reconciliation of NDI to GAAP**

The difference between distributions and other income from investments in the NDI calculation and total investment income as reported in our Statement of Operations is reconciled as follows:

GAAP recognizes that a significant portion of the cash distributions received from MLPs is characterized as a return of capital and therefore excluded from investment income, whereas the NDI calculation includes the return of capital portion of such distributions.

NDI includes the value of paid-in-kind dividends and distributions whereas such amounts are not included as investment income for GAAP purposes, but rather are recorded as unrealized gains upon receipt.

NDI includes commitment fees from PIPE investments, whereas such amounts are generally not included in investment income for GAAP purposes, but rather are recorded as a reduction to the cost of the investment.

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Certain of our investments in debt securities were purchased at a discount or premium to the par value of such security. When making such investments, we consider the security's yield to maturity, which factors in the impact of such discount (or premium). Interest income reported under GAAP includes the non-cash accretion of the discount (or amortization of the premium) based on the effective interest method. When we calculate interest income for purposes of determining NDI, in order to better reflect the yield to maturity, the accretion of the discount (or amortization of the premium) is calculated on a straight-line basis to the earlier of the expected call date or the maturity date of the debt security.

We may sell covered call option contracts to generate income or to reduce our ownership of certain securities that we hold. In some cases, we are able to repurchase these call option contracts at a price less than the call premium that we received, thereby generating a profit. The premium we receive from selling call options, less (i) the amount that we pay to repurchase such call option contracts and (ii) the amount by which the market price of an underlying security is above the strike price at the time a new call option is written (if any), is included in NDI. For GAAP purposes, premiums received from call option contracts sold are not included in investment income. See Note 2 Significant Accounting Policies for a full discussion of the GAAP treatment of option contracts.

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**MANAGEMENT DISCUSSION**

**(UNAUDITED)**

The treatment of expenses included in NDI also differs from what is reported in the Statement of Operations as follows:

The non-cash amortization or write-offs of capitalized debt issuance costs and preferred stock offering costs related to our financings is included in interest expense and distributions on preferred stock for GAAP purposes, but is excluded from our calculation of NDI.

NDI also includes recurring payments (or receipts) on interest rate swap contracts (excluding termination payments) whereas for GAAP purposes, these amounts are included in the realized gains/losses section of the Statement of Operations.

Under GAAP, excise taxes are accrued when probable and estimable. For NDI, we have assumed that the annual excise tax expense will equal the amount paid for the prior year's undistributed income and have ratably allocated the expense over four quarters.

**Liquidity and Capital Resources**

Total leverage outstanding at May 31, 2014 of \$390 million was comprised of \$235 million of senior unsecured notes ( Notes ), \$50 million outstanding under our unsecured revolving credit facility (the Credit Facility ) and \$105 million of mandatory redeemable preferred stock ( MRP Shares ). Total leverage represented 30% of total assets at May 31, 2014. As of July 24, 2014, we had \$56 million borrowed under our Credit Facility, and we had \$2.4 million of cash.

Our Credit Facility has a total commitment of \$105 million and matures on November 21, 2016. The interest rate varies between LIBOR plus 1.50% and LIBOR plus 2.15%, depending on our asset coverage ratios. Outstanding loan balances accrue interest daily at a rate equal to one-month LIBOR plus 1.50% based on current asset coverage ratios. We pay a fee of 0.25% per annum on any unused amounts of the Credit Facility.

On July 25, 2014, we entered into a \$50 million unsecured revolving credit agreement ( Bank Facility ). The Bank Facility has a five-year commitment, and borrowings under the Bank Facility will bear interest at a rate of 1-month LIBOR plus 1.30%. We pay a fee of 0.25% per annum on any unused amount of the Bank Facility.

On April 30, 2014, we completed a private placement of \$30 million of Notes and \$40 million of MRP Shares that mature in 2021. Net proceeds from the offerings were used to make new portfolio investments, to refinance existing indebtedness and for general corporate purposes. As a result, at May 31, 2014, we had \$235 million of Notes outstanding which mature between 2016 and 2023, and we had \$105 million of MRP Shares outstanding, which are subject to mandatory redemption in 2018, 2020 and 2021.

At May 31, 2014, our asset coverage ratios under the Investment Company Act of 1940, as amended (the 1940 Act ), were 450% for debt and 329% for total leverage (debt plus preferred stock). Our long-term target asset coverage ratio with respect to our debt is 400%, but at times we may be above or below our target depending on market conditions.

As of May 31, 2014, our total leverage consisted of both fixed rate (87%) and floating rate (13%) obligations. At such date, the weighted average interest/dividend rate on our total leverage was 3.89%.

On April 15, 2014, we announced that our Board of Directors approved a program to purchase up to \$20 million of our common stock. The repurchase program will continue until the earlier of (i) the repurchase of \$20 million of common stock or (ii) September 30, 2014. We will authorize our agents to make purchases in the open market when shares are trading at a discount of at least 8% to our NAV per share and we have sufficient borrowing capacity relative to our target leverage ratios. As of July 24, 2014, the Fund had repurchased 382,961 shares of its common stock at an average price of \$37.61 (total cost of \$14.4 million), which represented an average discount to the Fund's NAV per share of

approximately 9.3%.

**Table of Contents****KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.****PORTFOLIO SUMMARY****(UNAUDITED)****Portfolio of Long-Term Investments by Category<sup>(1)</sup>****May 31, 2014****November 30, 2013****Top 10 Holdings by Issuer**

<b>Holding</b>	<b>Sector<sup>(1)</sup></b>	<b>Percent of Long-Term Investments as of</b>	
		<b>May 31, 2014</b>	<b>November 30, 2013</b>
1. The Williams Companies, Inc.	Midstream Company	7.6%	7.7%
2. Kinder Morgan Management, LLC	Midstream MLP	6.7	7.5
3. ONEOK, Inc.	Midstream Company	5.9	6.9
4. Enbridge Energy Management, L.L.C.	Midstream MLP	5.9	5.8
5. Plains GP Holdings, L.P.	Midstream Company	4.3	3.7
6. Kinder Morgan, Inc.	Midstream Company	3.7	5.3
7. Golar LNG Partners LP	Midstream Company	3.1	3.1
8. Regency Energy Partners LP <sup>(3)</sup>	Midstream MLP	2.9	2.3
9. Enbridge, Inc.	Midstream Company	2.2	1.7
10. Crestwood Midstream Partners LP	Midstream MLP	2.0	2.4

(1) See Glossary of Key Terms for Definitions.

(2) Includes MLP affiliates.

(3) As of November 30, 2013, our investments in Regency Energy Partners LP ( Regency ) and PVR Partners, L.P. ( PVR ) represented 2.3% of total investments. On March 21, 2014, PVR completed its merger with Regency.

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Description	No. of Shares/Units	Value
<b>Long-Term Investments 144.1%</b>		
<b>Equity Investments<sup>(1)</sup> 129.9%</b>		
<b>United States 120.0%</b>		
<b>Midstream Company<sup>(2)</sup> 53.5%</b>		
Capital Product Partners L.P. <sup>(3)</sup>	1,354	\$ 14,515
Capital Products Partners L.P. Class B Units <sup>(3)(4)(5)</sup>	606	6,503
CenterPoint Energy, Inc.	599	14,436
Dynagas LNG Partners LP <sup>(3)</sup>	862	20,707
GasLog Partners LP <sup>(3)(6)</sup>	27	727
Golar LNG Partners LP <sup>(3)</sup>	1,202	39,619
Kinder Morgan, Inc.	1,436	47,952
KNOT Offshore Partners LP <sup>(3)</sup>	665	18,258
National Fuel Gas Company <sup>(7)</sup>	222	16,612
NiSource Inc. <sup>(7)</sup>	441	16,476
ONEOK, Inc. <sup>(7)</sup>	1,180	76,112
Plains GP Holdings, L.P. <sup>(3)(8)</sup>	248	6,856
Plains GP Holdings, L.P. Unregistered <sup>(3)(4)(8)(9)</sup>	1,836	48,103
SemGroup Corporation <sup>(7)</sup>	50	3,397
Spectra Energy Corp. <sup>(7)</sup>	524	21,260
Targa Resources Corp. <sup>(7)</sup>	36	4,111
Teekay Offshore Partners L.P. <sup>(3)(7)</sup>	483	17,245
Teekay Offshore Partners L.P. Series A Preferred Unit <sup>(8)</sup>	300	7,671
The Williams Companies, Inc. <sup>(7)</sup>	2,083	97,810
		478,370
<b>Midstream MLP<sup>(2)(10)</sup> 52.3%</b>		
Access Midstream Partners, L.P. <sup>(7)</sup>	115	7,231
Arc Logistics Partners LP	82	1,937
Atlas Pipeline Partners, L.P. <sup>(7)</sup>	75	2,435
Buckeye Partners, L.P. <sup>(7)</sup>	268	21,062
Crestwood Midstream Partners LP	1,190	25,935
DCP Midstream Partners, LP <sup>(7)</sup>	356	19,112
El Paso Pipeline Partners, L.P.	146	5,013
Enable Midstream Partners, LP <sup>(6)</sup>	37	950
Enbridge Energy Management, L.L.C. <sup>(7)(11)(12)</sup>	2,535	75,622
Energy Transfer Partners, L.P. <sup>(13)</sup>	309	17,421
EnLink Midstream Partners, LP	498	15,167
Enterprise Products Partners L.P. <sup>(7)(13)</sup>	252	18,879
Exterran Partners, L.P.	297	8,301
Global Partners LP <sup>(7)</sup>	326	13,363
Holly Energy Partners, L.P.	87	3,082

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Kinder Morgan Management, LLC <sup>(11)(12)</sup>	1,193	85,984
MarkWest Energy Partners, L.P. <sup>(7)(8)</sup>	399	24,695
Midcoast Energy Partners, L.P.	60	1,321
Niska Gas Storage Partners LLC	87	1,235
ONEOK Partners, L.P.	213	11,709
PBF Logistics LP <sup>(6)</sup>	37	982
Plains All American Pipeline, L.P. <sup>(8)</sup>	459	25,914
QEP Midstream Partners, LP	37	895
Regency Energy Partners LP	1,338	37,174
Sprague Resources LP	26	636
Summit Midstream Partners, LP <sup>(7)</sup>	119	5,352

See accompanying notes to financial statements.



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<b>Description</b>	<b>No. of Shares/Units</b>	<b>Value</b>
<b>Midstream MLP<sup>(2)(10)</sup> (continued)</b>		
Targa Resources Partners LP	89	\$ 6,048
Western Gas Partners, LP <sup>(7)</sup>	88	6,299
Williams Partners L.P.	438	23,262
		467,016
<b>Other Energy 11.9%</b>		
CONSOL Energy Inc. <sup>(7)</sup>	220	9,722
Enduro Royalty Trust	320	4,041
EnSCO plc	123	6,451
HollyFrontier Corporation <sup>(7)</sup>	125	6,161
Marathon Petroleum Corporation <sup>(7)</sup>	133	11,907
NRG Yield, Inc. Class A	28	1,299
Pacific Coast Oil Trust	376	5,005
PBF Energy Inc.	83	2,636
Phillips 66 <sup>(7)</sup>	177	14,991
Seadrill Limited	246	9,359
Seadrill Partners LLC <sup>(3)</sup>	402	13,189
Tesoro Corporation <sup>(7)</sup>	79	4,451
The Southern Company	105	4,575
Transocean Ltd.	185	7,852
Valero Energy Corporation <sup>(7)</sup>	45	2,522
VOC Energy Trust	141	2,149
		106,310
<b>Other 1.2%</b>		
Seaspan Corporation 7.95% Series D Preferred Shares	200	5,154
Seaspan Corporation 8.25% Series E Preferred Shares	200	5,170
		10,324
<b>Other MLP<sup>(10)</sup> 1.1%</b>		
Alliance Holdings GP, L.P.	14	913
BreitBurn Energy Partners L.P.	119	2,558
Legacy Reserves LP	8	229
LRR Energy LP	22	375
Northern Tier Energy LP	54	1,509
Suncoke Energy Partners, L.P.	158	4,524

		10,108
<b>Total United States (Cost \$761,351)</b>		1,072,128
<b>Canada 9.9%</b>		
<b>Midstream Company<sup>(2)</sup> 8.0%</b>		
AltaGas Ltd.	348	15,472
Enbridge Inc. <sup>(13)</sup>	598	28,413
Gibson Energy Inc. <sup>(13)</sup>	145	4,186
Inter Pipeline Ltd.	199	5,840
Keyera Corp.	77	5,228
Pembina Pipeline Corporation	206	8,282
TransCanada Corporation	82	3,830
		71,251

See accompanying notes to financial statements.

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Description	No. of Shares/Units	Value		
<b>Other Energy 1.9%</b>				
ARC Resources Ltd.	159	\$ 4,574		
Baytex Energy Corp.	118	4,929		
Bonavista Energy Corporation <sup>(13)</sup>	153	2,280		
Crescent Point Energy Corp. <sup>(7)</sup>	123	5,026		
		16,809		
<b>Total Canada (Cost \$76,513)</b>		<b>88,060</b>		
<b>Total Equity Investments (Cost \$837,864)</b>		<b>1,160,188</b>		
	Interest Rate	Maturity Date	Principal Amount	Value
<b>Debt Instruments 14.2%</b>				
<b>Upstream 12.8%</b>				
BlackBrush Oil & Gas, L.P.	(14)	6/3/19	\$ 8,623	8,666
Chief Oil & Gas LLC	(15)	5/15/21	4,000	4,013
CrownRock, L.P.	7.125%	4/15/21	2,500	2,637
Goodrich Petroleum Corporation	8.875	3/15/19	7,500	7,913
Halcón Resources Corporation	9.750	7/15/20	15,250	16,775
Jonah Energy LLC	(16)	5/29/21	3,000	3,030
Jones Energy, Inc.	6.750	4/1/22	1,500	1,586
Midstates Petroleum Company, Inc.	10.750	10/1/20	3,850	4,312
Midstates Petroleum Company, Inc.	9.250	6/1/21	7,800	8,424
Parsley Energy, Inc.	7.500	2/15/22	6,025	6,402
Penn Virginia Corporation	8.500	5/1/20	6,300	7,001
Resolute Energy Corporation	8.500	5/1/20	3,775	3,935
Rex Energy Corporation	8.875	12/1/20	9,700	10,816
RKI Exploration & Production, LLC	8.500	8/1/21	12,500	13,625
Sanchez Energy Corporation	7.750	6/15/21	7,750	8,331
Vantage Energy, LLC	(17)	12/31/18	6,485	6,534
				114,000
<b>Other Energy 0.7%</b>				
Arch Coal, Inc.	7.250	6/15/21	9,500	6,816
<b>Midstream Company<sup>(2)</sup> 0.7%</b>				
Kinder Morgan, Inc.	7.750	1/15/32	5,875	6,433

<b>Total Debt Investments (Cost \$121,638)</b>	127,249
<b>Total Long-Term Investments (Cost \$959,502)</b>	1,287,437

	Strike Price	Expiration Date	No. of Contracts	Value
<b>Liabilities</b>				
<b>Call Option Contracts Written<sup>(18)</sup></b>				
<b>United States</b>				
<b>Midstream Company</b>				
National Fuel Gas Company	\$ 75.00	6/20/14	500	(53)
NiSource Inc.	36.00	6/20/14	300	(43)
NiSource Inc.	37.00	6/20/14	300	(24)
NiSource Inc.	38.00	7/18/14	800	(48)
ONEOK, Inc.	62.50	6/20/14	350	(84)
ONEOK, Inc.	65.00	6/20/14	700	(47)
SemGroup Corporation	65.00	6/20/14	250	(80)

See accompanying notes to financial statements.

**Table of Contents****KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.****SCHEDULE OF INVESTMENTS****MAY 31, 2014****(amounts in 000 s, except number of option contracts)****(UNAUDITED)**

<b>Description</b>	<b>Strike Price</b>	<b>Expiration Date</b>	<b>No. of Contracts</b>	<b>Value</b>
<b>Midstream Company (continued)</b>				
SemGroup Corporation	\$ 70.00	6/20/14	250	\$ (14)
Spectra Energy Corp.	40.00	6/20/14	900	(83)
Spectra Energy Corp.	40.00	7/18/14	600	(69)
Targa Resources Corp.	115.00	7/18/14	350	(106)
Teekay Offshore Partners L.P.	35.00	6/20/14	190	(19)
The Williams Companies, Inc.	44.00	6/20/14	700	(204)
The Williams Companies, Inc.	45.00	6/20/14	700	(139)
				(1,013)
<b>Midstream MLP</b>				
Access Midstream Partners, L.P.	60.00	6/20/14	500	(159)
Atlas Pipeline Partners, L.P.	33.00	7/18/14	200	(13)
Buckeye Partners, L.P.	80.00	6/20/14	500	(23)
Buckeye Partners, L.P.	80.00	7/18/14	270	(26)
DCP Midstream Partners, LP	55.00	7/18/14	450	(17)
Enbridge Energy Management, L.L.C.	30.00	7/18/14	300	(14)
Enterprise Products Partners L.P.	75.00	6/20/14	500	(35)
Enterprise Products Partners L.P.	75.00	7/18/14	500	(40)
Global Partners LP	40.00	7/18/14	600	(89)
MarkWest Energy Partners, L.P.	65.00	6/20/14	450	(11)
MarkWest Energy Partners, L.P.	67.50	6/20/14	450	(6)
Summit Midstream Partners, LP	45.00	7/18/14	400	(66)
Western Gas Partners, LP	70.00	6/20/14	400	(92)
				(591)
<b>Other Energy</b>				
CONSOL Energy Inc.	45.00	6/20/14	200	(13)
CONSOL Energy Inc.	46.00	7/18/14	250	(20)
HollyFrontier Corporation	53.50	6/20/14	170	(1)
HollyFrontier Corporation	54.50	6/20/14	150	(1)
Marathon Petroleum Corporation	97.50	6/20/14	155	(3)
Marathon Petroleum Corporation	100.00	6/20/14	200	(3)
Marathon Petroleum Corporation	105.00	6/20/14	150	(1)
Marathon Petroleum Corporation	92.50	7/18/14	250	(52)
Marathon Petroleum Corporation	95.00	7/18/14	325	(41)
Marathon Petroleum Corporation	97.50	7/18/14	250	(20)
Phillips 66	85.00	6/20/14	400	(58)
Phillips 66	85.00	7/18/14	200	(46)
Phillips 66	87.50	6/20/14	530	(27)

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Phillips 66	87.50	7/18/14	200	(24)
Phillips 66	90.00	6/20/14	120	(2)
Tesoro Corporation	55.00	6/20/14	250	(53)
Tesoro Corporation	60.00	6/20/14	250	(7)
Valero Energy Corporation	60.00	6/20/14	450	(11)
				(383)
<b>Total United States (Premium Received \$1,724)</b>				<b>(1,987)</b>

See accompanying notes to financial statements.

**Table of Contents****KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.****SCHEDULE OF INVESTMENTS****MAY 31, 2014****(amounts in 000 s, except number of option contracts)****(UNAUDITED)**

Description	Strike Price	Expiration Date	No. of Contracts	Value
<b>Canada</b>				
<b>Other Energy</b>				
Crescent Point Energy Corp. (Premium Received \$10)	\$ 44.00	6/20/14	200	\$ (8)
<b>Total Call Option Contracts Written (Premiums Received \$1,734)</b>				(1,995)
<b>Credit Facility</b>				(50,000)
<b>Notes</b>				(235,000)
<b>Mandatory Redeemable Preferred Stock at Liquidation Value</b>				(105,000)
<b>Other Liabilities</b>				(14,410)
<b>Total Liabilities</b>				(406,405)
<b>Other Assets</b>				12,291
<b>Total Liabilities in Excess of Other Assets</b>				(394,114)
<b>Net Assets Applicable to Common Stockholders</b>				\$ 893,323

- (1) Unless otherwise noted, equity investments are common units/common shares.
- (2) Refer to the Glossary of Key Terms (page 38) for the definition of Midstream Companies and Midstream MLPs.
- (3) This company is structured like an MLP, but is not treated as a publicly-traded partnership for RIC qualification purposes.
- (4) Fair valued security, restricted from public sale. See Notes 2, 3 and 7 in Notes to Financial Statements.
- (5) Class B Units are convertible on a one-for-one basis into common units of Capital Product Partners L.P. (CPLP) and are senior to the common units in terms of liquidation preference and priority of distributions. The Class B Units pay quarterly cash distributions of \$0.21375 per unit and are convertible at any time at the option of the holder. If CPLP increases the quarterly cash distribution per common unit, the distribution per Class B Unit will increase by an equal amount. If CPLP does not redeem the Class B Units by May 2022, then the distribution increases by 25% per quarter to a maximum of \$0.33345 per unit. CPLP may require that the Class B Units convert into common units after May 2015 if the common unit price exceeds \$11.70 per unit, and the Class B Units are callable after May 2017 at a price of \$9.27 per unit and after May 2019 at \$9.00 per unit.

- (6) Security is not currently paying cash distributions but is expected to pay cash distributions within the next 12 months.
- (7) Security or a portion thereof is segregated as collateral on option contracts written.
- (8) The Fund believes that it is an affiliate of MarkWest Energy Partners, L.P., Plains All American Pipeline, L.P. and Plains GP Holdings, L.P. ( Plains GP ). See Note 5 Agreements and Affiliations.
- (9) The Fund holds an interest in Plains AAP, L.P. ( PAA GP ), which controls the general partner of Plains All American, L.P. The Fund s ownership of PAA GP is exchangeable into shares of Plains GP (which trades on the NYSE under the ticker PAGP ) on a one-for-one basis at the Fund s option. See Note 3 Fair Value.
- (10) Unless otherwise noted, securities are treated as a publicly-traded partnership for regulated investment company ( RIC ) qualification purposes. To qualify as a RIC for tax purposes, the Fund may directly invest up to 25% of its total assets in equity and debt securities of entities treated as publicly-traded partnerships. The Fund had 24.3% of its total assets invested in publicly-traded partnerships at May 31, 2014. It is the Fund s intention to be treated as a RIC for tax purposes.

See accompanying notes to financial statements.



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**KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.**

**SCHEDULE OF INVESTMENTS**

**MAY 31, 2014**

**(amounts in 000 s, except number of option contracts)**

**(UNAUDITED)**

- (11) Dividends are paid-in-kind.
- (12) Security is not treated as a publicly-traded partnership for RIC qualification purposes.
- (13) In lieu of cash distributions, the Fund has elected to receive distributions in additional units/stock through the issuer's dividend reinvestment program.
- (14) Floating rate first lien secured term loan. Security pays interest at a rate of LIBOR + 650 basis points with a 1.25% LIBOR floor (7.75% as of May 31, 2014).
- (15) Floating rate second lien secured term loan. Security pays interest at a rate of LIBOR + 650 basis points with a 1.00% LIBOR floor (7.50% as of May 31, 2014).
- (16) Floating rate second lien secured term loan. Security pays interest at a rate of LIBOR + 650 basis points with a 1.00% LIBOR floor (7.50% as of May 31, 2014).
- (17) Floating rate second lien secured term loan. Security pays interest at a rate of LIBOR + 750 basis points with a 1.00% LIBOR floor (8.50% as of May 31, 2014).
- (18) Security is non-income producing.

See accompanying notes to financial statements.

**Table of Contents****KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.****STATEMENT OF ASSETS AND LIABILITIES****MAY 31, 2014****(amounts in 000 s, except share and per share amounts)****(UNAUDITED)****ASSETS**

Investments, at fair value:	
Non-affiliated (Cost \$911,113)	\$ 1,181,869
Affiliated (Cost \$48,389)	105,568
Total investments (Cost \$959,502)	1,287,437
Cash	2,568
Deposits with brokers	229
Receivable for securities sold	683
Interest, dividends and distributions receivable	4,252
Deferred debt and preferred stock offering costs and other assets	4,559
<b>Total Assets</b>	<b>1,299,728</b>

**LIABILITIES**

Payable for securities purchased	8,960
Investment management fee payable	1,325
Call option contracts written (Premiums received \$1,734)	1,995
Accrued directors' fees and expenses	50
Accrued expenses and other liabilities	4,075
Credit facility	50,000
Notes	235,000
Mandatory redeemable preferred stock, \$25.00 liquidation value per share (4,200,000 shares issued and outstanding)	105,000
<b>Total Liabilities</b>	<b>406,405</b>

**NET ASSETS APPLICABLE TO COMMON STOCKHOLDERS** \$ 893,323**NET ASSETS APPLICABLE TO COMMON STOCKHOLDERS CONSIST OF**

Common stock, \$0.001 par value (22,141,297 shares issued, 21,907,097 shares outstanding and 195,800,000 shares authorized)	\$ 22
Paid-in capital	519,344
Accumulated net investment income less distributions not treated as tax return of capital	(30,353)
Accumulated net realized gains less distributions not treated as tax return of capital	76,639
Net unrealized gains	327,671

**NET ASSETS APPLICABLE TO COMMON STOCKHOLDERS** \$ 893,323**NET ASSET VALUE PER COMMON SHARE** \$ 40.78

See accompanying notes to financial statements.

**Table of Contents****KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.****STATEMENT OF OPERATIONS**

(amounts in 000 s)

(UNAUDITED)

	For the Three Months Ended May 31, 2014	For the Six Months Ended May 31, 2014
<b>INVESTMENT INCOME</b>		
<b>Income</b>		
Dividends and distributions:		
Non-affiliated investments	\$ 10,911	\$ 20,645
Affiliated investments	872	1,669
Total dividends and distributions (after foreign taxes withheld of \$94 and \$170, respectively)	11,783	22,314
Return of capital	(6,022)	(11,694)
Net dividends and distributions	5,761	10,620
Interest and other income	2,551	5,145
Total Investment Income	8,312	15,765
<b>Expenses</b>		
Investment management fees	3,788	7,281
Professional fees	121	245
Administration fees	71	154
Directors' fees and expenses	52	93
Insurance	38	76
Reports to stockholders	32	71
Custodian fees	19	35
Other expenses	62	114
Total Expenses before interest expense, preferred distributions and excise taxes	4,183	8,069
Interest expense and amortization of offering costs	2,576	5,038
Distributions on mandatory redeemable preferred stock and amortization of offering costs	986	1,821
Excise taxes		10
Total Expenses	7,745	14,938
<b>Net Investment Income</b>	<b>567</b>	<b>827</b>
<b>REALIZED AND UNREALIZED GAINS (LOSSES)</b>		
<b>Net Realized Gains</b>		
Investments non-affiliated	16,265	48,792
Foreign currency transactions	(22)	(15)
Options	688	1,542
Interest rate swap contracts	(431)	(431)
Net Realized Gains	16,500	49,888

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<b>Net Change in Unrealized Gains</b>		
Investments non-affiliated	62,759	69,506
Investments affiliated	1,502	11,132
Foreign currency translations	16	6
Options	(364)	(74)
Net Change in Unrealized Gains	63,913	80,570
<b>Net Realized and Unrealized Gains</b>	<b>80,413</b>	<b>130,458</b>
<b>NET INCREASE IN NET ASSETS APPLICABLE TO COMMON STOCKHOLDERS RESULTING FROM OPERATIONS</b>	<b>\$ 80,980</b>	<b>\$ 131,285</b>

See accompanying notes to financial statements.

**Table of Contents****KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.****STATEMENT OF CHANGES IN NET ASSETS APPLICABLE TO COMMON STOCKHOLDERS**

(amounts in 000 s, except share amounts)

	For the Six Months Ended May 31, 2014 (Unaudited)	For the Fiscal Year Ended November 30, 2013
<b>OPERATIONS</b>		
Net investment income (loss) <sup>(1)</sup>	\$ 827	\$ (2,315)
Net realized gains	49,888	43,922
Net change in unrealized gains	80,570	146,243
<b>Net Increase in Net Assets Resulting from Operations</b>	<b>131,285</b>	<b>187,850</b>
<b>DIVIDENDS AND DISTRIBUTIONS TO COMMON STOCKHOLDERS<sup>(1)</sup></b>		
Dividends	(20,712) <sup>(2)</sup>	(25,108) <sup>(3)</sup>
Distributions net long-term capital gains	(2)	(14,572) <sup>(3)</sup>
<b>Dividends and Distributions to Common Stockholders</b>	<b>(20,712)</b>	<b>(39,680)</b>
<b>CAPITAL STOCK TRANSACTIONS</b>		
Issuance of 97,252 and 148,803 shares of common stock from reinvestment of dividends and distributions, respectively	3,220	4,661
Common stock purchased under the share repurchase program (234,200 shares)	(8,527)	
<b>Net Increase (Decrease) in Net Assets Applicable to Common Stockholders from Capital Stock Transactions</b>	<b>(5,307)</b>	<b>4,661</b>
<b>Total Increase in Net Assets Applicable to Common Stockholders</b>	<b>105,266</b>	<b>152,831</b>
<b>NET ASSETS APPLICABLE TO COMMON STOCKHOLDERS</b>		
Beginning of period	788,057	635,226
End of period	\$ 893,323	\$ 788,057

(1) Distributions on the Fund's mandatory redeemable preferred stock (MRP Shares) are treated as an operating expense under GAAP and are included in the calculation of net investment loss. See Note 2 Significant Accounting Policies. The distributions in the amount of \$1,750 paid to MRP shareholders during the six months ended May 31, 2014 are characterized as dividend income (a portion of which may be eligible to be treated as qualified dividend income) until after the end of the fiscal year when the Fund can determine its earnings and profits for the full year, which includes gains and losses on the sale of securities for the remainder of the fiscal year. The final tax character may differ substantially from this preliminary information. The tax character for each distribution paid during the year will be the same as the tax character of the total distributions paid during the full year. Distributions in the amount of \$3,212 paid to MRP shareholders for the fiscal year ended November 30, 2013 were characterized as dividend income (\$2,007) and as long-term capital gains (\$1,205). A portion of the distributions characterized as dividend income was eligible to be treated as qualified dividend income. This characterization is based on the Fund's earnings and profits.

(2)

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The distributions paid to common stockholders for the six months ended May 31, 2014 are characterized as dividend income (a portion of which may be eligible to be treated as qualified dividend income) until after the end of the fiscal year when the Fund can determine its earnings and profits for the full year, which includes gains and losses on the sale of securities for the remainder of the fiscal year. The final tax character may differ substantially from this preliminary information. The tax character for each distribution paid during the year will be the same as the tax character of the total distributions paid during the full year.

- (3) Distributions paid to common stockholders for the fiscal year ended November 30, 2013 are characterized as either dividends (a portion was eligible to be treated as qualified dividend income) or distributions (long-term capital gains or return of capital). This characterization is based on the Fund's earnings and profits. The tax character for each distribution paid during the year was the same as the tax character of the total distributions paid during the full year.

See accompanying notes to financial statements.

**Table of Contents****KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.****STATEMENT OF CASH FLOWS****FOR THE SIX MONTHS ENDED MAY 31, 2014****(amounts in 000 s)****(UNAUDITED)**

<b>CASH FLOWS FROM OPERATING ACTIVITIES</b>	
Net increase in net assets resulting from operations	\$ 131,285
Adjustments to reconcile net increase in net assets resulting from operations to net cash used in operating activities:	
Return of capital distributions	11,694
Net realized gains (excluding foreign currency transactions)	(49,903)
Net unrealized gains (excluding foreign currency translations)	(80,564)
Accretion of bond discounts, net	(11)
Purchase of long-term investments	(329,740)
Proceeds from sale of long-term investments	266,817
Decrease in deposits with brokers	289
Decrease in receivable for securities sold	3,784
Increase in interest, dividends and distributions receivable	(195)
Amortization of deferred debt offering costs	295
Amortization of mandatory redeemable preferred stock offering costs	71
Increase in other assets	(705)
Increase in payable for securities purchased	3,501
Increase in investment management fee payable	212
Decrease in call option contracts written	(16)
Decrease in accrued excise taxes	(750)
Increase in accrued expenses and other liabilities	726
<b>Net Cash Used in Operating Activities</b>	<b>(43,210)</b>
<b>CASH FLOWS FROM FINANCING ACTIVITIES</b>	
Proceeds from offering of notes	30,000
Proceeds from offering of mandatory redeemable preferred stock	40,000
Shares of common stock repurchased	(8,527)
Costs associated with offering of notes	(276)
Costs associated with offering of mandatory redeemable preferred stock	(585)
Cash distributions paid to common stockholders	(17,492)
<b>Net Cash Provided by Financing Activities</b>	<b>43,120</b>
<b>NET DECREASE IN CASH</b>	<b>(90)</b>
<b>CASH BEGINNING OF PERIOD</b>	<b>2,658</b>
<b>CASH END OF PERIOD</b>	<b>\$ 2,568</b>

Supplemental disclosure of cash flow information:



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Non-cash financing activities not included herein consisted of reinvestment of distributions of \$3,220 pursuant to the Fund's dividend reinvestment plan.

During the six months ended May 31, 2014, interest paid was \$4,623 and federal excise tax paid was \$760.

During the six months ended May 31, 2014, the Fund received \$6,789 of paid-in-kind and non-cash dividends and distributions. See Note 2 Significant Accounting Policies.

See accompanying notes to financial statements.

**Table of Contents****KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.****FINANCIAL HIGHLIGHTS**

(amounts in 000 s, except share and per share amounts)

	For the Six Months Ended May 31, 2014 (Unaudited)	For the Fiscal Year Ended November 30,			For the Period November 24, 2010 <sup>(1)</sup> through November 30, 2010
		2013	2012	2011	
<b>Per Share of Common Stock<sup>(2)</sup></b>					
Net asset value, beginning of period	\$ 35.75	\$ 29.01	\$ 25.94	\$ 23.80	\$ 23.83 <sup>(3)</sup>
Net investment income (loss) <sup>(4)</sup>	0.04	(0.06)	0.17	0.29	(0.02)
Net realized and unrealized gains (losses)	5.90	8.61	4.64	3.12	(0.01)
Total income (loss) from operations	5.94	8.55	4.81	3.41	(0.03)
Common dividends dividend income <sup>(5)</sup>	(0.94)	(1.15)	(1.30)	(1.20)	
Common distributions long-term capital gain <sup>(5)</sup>		(0.66)	(0.41)		
Common distributions return of capital <sup>(1)</sup>					
Total dividends and distributions common	(0.94)	(1.81)	(1.71)	(1.20)	
Effect of shares issued in reinvestment of distributions	(0.01)		(0.03)	(0.04)	
Effect of issuance of common stock				(0.03)	
Effect of common stock repurchased	0.04				
Net asset value, end of period	\$ 40.78	\$ 35.75	\$ 29.01	\$ 25.94	\$ 23.80
Market value per share of common stock, end of period	\$ 37.85	\$ 32.71	\$ 28.04	\$ 22.46	\$ 25.00
Total investment return based on common stock market value <sup>(6)</sup>	18.9% <sup>(7)</sup>	23.5%	33.3%	(5.5)%	0.0% <sup>(7)</sup>

See accompanying notes to financial statements.

**Table of Contents****KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.****FINANCIAL HIGHLIGHTS**

(amounts in 000 s, except share and per share amounts)

	For the Six Months Ended May 31, 2014 (Unaudited)	For the Fiscal Year Ended November 30,			For the Period November 24, 2010 <sup>(1)</sup> through November 30, 2010
		2013	2012	2011	
<b>Supplemental Data and Ratios<sup>(8)</sup></b>					
Net assets applicable to common stockholders, end of period	\$ 893,323	\$ 788,057	\$ 635,226	\$ 562,044	\$ 452,283
Ratio of expenses to average net assets					
Management fees <sup>(9)</sup>	1.8%	1.8%	1.7%	1.6%	1.3%
Other expenses	0.2	0.2	0.3	0.3	0.3 <sup>(10)</sup>
Subtotal	2.0	2.0	2.0	1.9	1.6
Interest expense and distributions on mandatory redeemable preferred stock <sup>(4)</sup>	1.6	1.8	1.8	1.3	
Management fee waiver				(0.3)	(0.3)
Excise taxes		0.1			
Total expenses	3.6%	3.9%	3.8%	2.9%	1.3%
Ratio of net investment income (loss) to average net assets <sup>(4)</sup>	0.2%	(0.2)%	0.6%	1.1%	(1.3)% <sup>(10)</sup>
Net increase (decrease) in net assets applicable to common stockholders resulting from operations to average net assets	15.8% <sup>(7)</sup>	25.9%	16.8%	13.4%	(0.1)% <sup>(7)</sup>
Portfolio turnover rate	22.7% <sup>(7)</sup>	49.1%	67.6%	74.1%	0.0% <sup>(7)</sup>
Average net assets	\$ 829,346	\$ 726,248	\$ 620,902	\$ 537,044	\$ 452,775
Notes outstanding, end of period	235,000	205,000	165,000	115,000	
Credit facility outstanding, end of period	50,000	50,000	48,000	45,000	
Mandatory redeemable preferred stock, end of period	105,000	65,000	65,000	35,000	
Average shares of common stock outstanding	22,093,712	21,969,288	21,794,596	21,273,512	19,004,000
Asset coverage of total debt <sup>(11)</sup>	450.3%	434.5%	428.7%	473.2%	
Asset coverage of total leverage (debt and preferred stock) <sup>(12)</sup>	329.1%	346.3%	328.5%	388.2%	
Average amount of borrowings per share of common stock during the period <sup>(2)</sup>	\$ 11.91	\$ 10.51	\$ 8.85	\$ 6.50	

See accompanying notes to financial statements.

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**KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.**

**FINANCIAL HIGHLIGHTS**

**(amounts in 000 s, except share and per share amounts)**

- (1) Commencement of operations.
- (2) Based on average shares of common stock outstanding.
- (3) Initial public offering price of \$25.00 per share less underwriting discounts of \$1.125 per share and offering costs of \$0.05 per share.
- (4) Distributions on the Fund's MRP Shares are treated as an operating expense under GAAP and are included in the calculation of net investment income (loss). See Note 2 Significant Accounting Policies.
- (5) The actual characterization of the distributions made during the six months ended May 31, 2014 will not be determinable until after the end of the fiscal year when the Fund can determine its actual earnings and profits for the full year (including gains and losses on the sale of securities for the remainder of the fiscal year) and may differ substantially from this preliminary information. The information presented for each of the other periods is a characterization of the total distributions paid to the preferred stockholders and common stockholders as either a dividend (a portion was eligible to be treated as qualified dividend income) or a distribution (capital gains or return of capital) and is based on the Fund's earnings and profits.
- (6) Total investment return is calculated assuming a purchase of common stock at the market price on the first day and a sale at the current market price on the last day of the period reported. The calculation also assumes reinvestment of distributions at actual prices pursuant to the Fund's dividend reinvestment plan.
- (7) Not annualized.
- (8) Unless otherwise noted, ratios are annualized.
- (9) Ratio reflects total management fee before waiver.
- (10) For purposes of annualizing other expenses of the Fund, professional fees and reports to stockholders are fees associated with the annual audit and annual report and therefore have not been annualized.
- (11)

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Calculated pursuant to section 18(a)(1)(A) of the 1940 Act. Represents the value of total assets less all liabilities not represented by senior unsecured notes ( Notes ) or any other senior securities representing indebtedness and MRP Shares divided by the aggregate amount of Notes and any other senior securities representing indebtedness. Under the 1940 Act, the Fund may not declare or make any distribution on its common stock nor can it incur additional indebtedness if at the time of such declaration or incurrence its asset coverage with respect to senior securities representing indebtedness would be less than 300%. For purposes of this test, the Credit Facility is considered a senior security representing indebtedness.

- (12) Calculated pursuant to section 18(a)(2)(A) of the 1940 Act. Represents the value of total assets less all liabilities not represented by Notes, any other senior securities representing indebtedness and preferred stock divided by the aggregate amount of Notes, any other senior securities representing indebtedness and preferred stock. Under the 1940 Act, the Fund may not declare or make any distribution on its common stock nor can it issue additional preferred stock if at the time of such declaration or issuance, its asset coverage with respect to all senior securities would be less than 200%. In addition to the limitations under the 1940 Act, the Fund, under the terms of its MRP Shares, would not be able to declare or pay any distributions on its common stock if such declaration would cause its asset coverage with respect to all senior securities to be less than 225%. For purposes of these asset coverage ratio tests, the Credit Facility is considered a senior security representing indebtedness.

See accompanying notes to financial statements.

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**KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.**

**NOTES TO FINANCIAL STATEMENTS**

**(amount in 000 s, except number of option contracts, share and per share)**

**(UNAUDITED)**

**1. Organization**

Kayne Anderson Midstream/Energy Fund, Inc. (the Fund) was organized as a Maryland corporation on August 26, 2010 and commenced operations on November 24, 2010. The Fund is registered under the Investment Company Act of 1940, as amended (the 1940 Act), as a non-diversified, closed-end investment management company. The Fund's investment objective is to provide a high level of return with an emphasis on making quarterly cash distributions to its stockholders. The Fund seeks to achieve that investment objective by investing at least 80% of its total assets in the securities of companies in the Midstream/Energy Sector, consisting of (a) Midstream MLPs, (b) Midstream Companies, (c) Other MLPs and (d) Other Energy Companies. The Fund's shares of common stock are listed on the New York Stock Exchange, Inc. ( NYSE ) under the symbol KMF.

**2. Significant Accounting Policies**

**A. Use of Estimates** The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America ( GAAP ) requires management to make estimates and assumptions that affect the reported amount of assets and liabilities and disclosure of contingent assets and liabilities as of the date of the financial statements and the reported amounts of revenue and expenses during the period. Actual results could differ materially from those estimates.

**B. Cash and Cash Equivalents** Cash and cash equivalents include short-term, liquid investments with an original maturity of three months or less and include money market fund accounts.

**C. Calculation of Net Asset Value** The Fund determines its net asset value no less frequently than as of the last day of each month based on the most recent close of regular session trading on the NYSE, and makes its net asset value available for publication monthly. Currently, the Fund calculates its net asset value on a weekly basis. Net asset value is computed by dividing the value of the Fund's assets (including accrued interest and distributions), less all of its liabilities (including accrued expenses, distributions payable and any indebtedness) and the liquidated value of any outstanding preferred stock, by the total number of common shares outstanding.

**D. Investment Valuation** Readily marketable portfolio securities listed on any exchange other than the NASDAQ Stock Market, Inc. ( NASDAQ ) are valued, except as indicated below, at the last sale price on the business day as of which such value is being determined. If there has been no sale on such day, the securities are valued at the mean of the most recent bid and ask prices on such day. Securities admitted to trade on the NASDAQ are valued at the NASDAQ official closing price. Portfolio securities traded on more than one securities exchange are valued at the last sale price on the business day as of which such value is being determined at the close of the exchange representing the principal market for such securities.

Equity securities traded in the over-the-counter market, but excluding securities admitted to trading on the NASDAQ, are valued at the closing bid prices. Debt securities that are considered bonds are valued by using the mean of the bid and ask prices provided by an independent pricing service. For debt securities that are considered bank loans, the fair market value is determined by using the mean of the bid and ask prices provided by the agent or syndicate bank or principal market maker. When price quotes are not available, fair market value will be based on prices of comparable securities. In certain cases, the Fund may not be able to purchase or sell debt securities at the quoted prices due to the lack of liquidity for these securities.

Exchange-traded options and futures contracts are valued at the last sales price at the close of trading in the market where such contracts are principally traded or, if there was no sale on the applicable exchange on such day, at the mean between the quoted bid and ask price as of the close of such exchange.

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The Fund holds securities that are privately issued or otherwise restricted as to resale. For these securities, as well as any other portfolio security held by the Fund for which reliable market quotations are not readily available,

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valuations are determined in a manner that most accurately reflects fair value of the security on the valuation date. Unless otherwise determined by the Board of Directors, the following valuation process is used for such securities:

**Investment Team Valuation.** The applicable investments are valued by senior professionals of KA Fund Advisors, LLC ( KAFAs or the Adviser ) who are responsible for the portfolio investments. The investments will be valued monthly, with new investments valued at the time such investment was made.

**Investment Team Valuation Documentation.** Preliminary valuation conclusions will be determined by senior management of KAFAs. Such valuations and supporting documentation is submitted to the Valuation Committee (a committee of the Fund's Board of Directors) and the Board of Directors on a quarterly basis.

**Valuation Committee.** The Valuation Committee meets to consider the valuations submitted by KAFAs at the end of each quarter. Between meetings of the Valuation Committee, a senior officer of KAFAs is authorized to make valuation determinations. All valuation determinations of the Valuation Committee are subject to ratification by the Board of Directors at its next regular meeting.

**Valuation Firm.** Quarterly, a third-party valuation firm engaged by the Board of Directors reviews the valuation methodologies and calculations employed for these securities, unless the aggregate fair value of such security is less than 0.1% of total assets.

**Board of Directors Determination.** The Board of Directors meets quarterly to consider the valuations provided by KAFAs and the Valuation Committee and ratify valuations for the applicable securities. The Board of Directors considers the report provided by the third-party valuation firm in reviewing and determining in good faith the fair value of the applicable portfolio securities.

As of May 31, 2014, the Fund held 6.1% of its net assets applicable to common stockholders (4.2% of total assets) in securities that were fair valued pursuant to the procedures adopted by the Board of Directors. The aggregate fair value of these securities at May 31, 2014 was \$54,606. See Note 3 Fair Value and Note 7 Restricted Securities.

**E. Repurchase Agreements** From time to time, the Fund has agreed to purchase securities from financial institutions subject to the seller's agreement to repurchase them at an agreed-upon time and price ( repurchase agreements ). The financial institutions with whom the Fund enters into repurchase agreements are banks and broker/dealers which KAFAs considers creditworthy. The seller under a repurchase agreement is required to maintain the value of the securities as collateral, subject to the agreement, at not less than the repurchase price plus accrued interest. KAFAs monitors daily the mark-to-market of the value of the collateral, and, if necessary, requires the seller to maintain additional securities, so that the value of the collateral is not less than the repurchase price. Default by or bankruptcy of the seller would, however, expose the Fund to possible loss because of adverse market action or delays in connection with the disposition of the underlying securities. As of May 31, 2014, the Fund did not have any repurchase agreements.

**F. Short Sales** A short sale is a transaction in which the Fund sells securities it does not own (but has borrowed) in anticipation of or to hedge against a decline in the market price of the securities. To complete a short sale, the Fund may arrange through a broker to borrow the securities to be delivered to the buyer. The proceeds received by the Fund for the short sale are retained by the broker until the Fund replaces the borrowed securities. In borrowing the securities to be delivered to the buyer, the Fund becomes obligated to replace the securities borrowed at their market price at the time of replacement, whatever the price may be.



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The Fund's short sales, if any, are fully collateralized. The Fund is required to maintain assets consisting of cash or liquid securities equal in amount to the liability created by the short sale. These assets are adjusted daily to reflect changes in the value of the securities sold short. The Fund is liable for any dividends or distributions paid on securities sold short.

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The Fund may also sell short against the box (*i.e.*, the Fund enters into a short sale as described above while holding an offsetting long position in the security which it sold short). If the Fund enters into a short sale against the box, the Fund would segregate an equivalent amount of securities owned as collateral while the short sale is outstanding. During the three and six months ended May 31, 2014, the Fund did not engage in any short sales.

*G. Derivative Financial Instruments* The Fund may utilize derivative financial instruments in its operations.

**Interest rate swap contracts.** The Fund may use hedging techniques such as interest rate swaps to mitigate potential interest rate risk on a portion of the Fund's leverage. Such interest rate swaps would principally be used to protect the Fund against higher costs on its leverage resulting from increases in interest rates. The Fund does not hedge any interest rate risk associated with portfolio holdings. Interest rate transactions the Fund uses for hedging purposes expose it to certain risks that differ from the risks associated with its portfolio holdings. A decline in interest rates may result in a decline in the value of the swap contracts, which, everything else being held constant, would result in a decline in the net assets of the Fund. In addition, if the counterparty to an interest rate swap defaults, the Fund would not be able to use the anticipated net receipts under the interest rate swap to offset its cost of financial leverage.

Interest rate swap contracts are recorded at fair value with changes in value during the reporting period, and amounts accrued under the agreements, included as unrealized gains or losses in the Statement of Operations. Monthly cash settlements under the terms of the interest rate swap agreements or termination payments are recorded as realized gains or losses in the Statement of Operations. The Fund generally values its interest rate swap contracts based on dealer quotations, if available, or by discounting the future cash flows from the stated terms of the interest rate swap agreement by using interest rates currently available in the market. See Note 8 Derivative Financial Instruments.

**Option contracts.** The Fund is also exposed to financial market risks including changes in the valuations of its investment portfolio. The Fund may purchase or write (sell) call options. A call option on a security is a contract that gives the holder of the option, in return for a premium, the right to buy from the writer of the option the security underlying the option at a specified exercise price at any time during the term of the option.

The Fund would realize a gain on a purchased call option if, during the option period, the value of such securities exceeded the sum of the exercise price, the premium paid and transaction costs; otherwise the Fund would realize either no gain or a loss on the purchased call option. The Fund may also purchase put option contracts. If a purchased put option is exercised, the premium paid increases the cost basis of the securities sold by the Fund.

The Fund may also write (sell) call options with the purpose of generating realized gains or reducing its ownership of certain securities. If the Fund writes a call option on a security, the Fund has the obligation upon exercise of the option to deliver the underlying security upon payment of the exercise price. The Fund will only write call options on securities that the Fund holds in its portfolio (*i.e.*, covered calls).

When the Fund writes a call option, an amount equal to the premium received by the Fund is recorded as a liability and is subsequently adjusted to the current fair value of the option written. Premiums received from writing options that expire unexercised are treated by the Fund on the expiration date as realized gains from investments. If the Fund repurchases a written call option prior to its exercise, the difference between the premium received and the amount paid to repurchase the option is treated as a realized gain or loss. If a call option is exercised, the premium is added to the proceeds from the sale of the underlying security in determining whether the Fund has realized a gain or loss. The Fund, as the writer of an option, bears the market risk of an unfavorable change in the price of the security underlying the written option. See Note 8 Derivative Financial Instruments.

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H. *Security Transactions* Security transactions are accounted for on the date these securities are purchased or sold (trade date). Realized gains and losses are reported on an identified cost basis.

I. *Return of Capital Estimates* Dividends and distributions received from the Fund's investments are comprised of income and return of capital. The payments made by MLPs (and other entities treated as partnerships for federal income tax purposes) are categorized as distributions and payments made by corporations are categorized as dividends. At the time such dividends and distributions are received, the Fund estimates the amount of such payments that is considered investment income and the amount that is considered a return of capital. The Fund estimates that 90% of the MLP distributions received will be treated as a return of capital. Such estimates for MLPs and other investments are based on historical information available from each investment and other industry sources. These estimates may subsequently be revised based on information received from investments after their tax reporting periods are concluded.

The following table sets forth (i) the components of total dividends and distributions, (ii) the percentage of return of capital attributable to each category and (iii) the estimated total return of capital portion of the dividends and distributions received that are attributable to net realized gains (losses) and net change in unrealized gains (losses). The return of capital portion of the dividends and distributions received is a reduction to investment income, results in an equivalent reduction in the cost basis of the associated investments, and increases net realized gains (losses) and net change in unrealized gains (losses). In accordance with GAAP, the return of capital cost basis reductions for the Fund's MLP investments are limited to the total amount of the cash distributions received from such investments. For income tax purposes, the cost basis reductions for the Fund's MLP investments typically exceed cash distributions received from such investments due to allocated losses from these investments.

	<b>For the Three Months Ended May 31, 2014</b>	<b>For the Six Months Ended May 31, 2014</b>
Dividends from investments	\$ 6,901	\$ 12,798
Distributions from investments	4,976	9,686
<b>Total dividends and distributions from investments (before foreign taxes withheld of \$94 and \$170, respectively)</b>	<b>\$ 11,877</b>	<b>\$ 22,484</b>
Dividends % return of capital	23%	24%
Distributions % return of capital	89%	89%
Total dividends and distributions % return of capital	51%	52%
Return of capital attributable to net realized gains (losses)	\$ 1,374	\$ 2,014
Return of capital attributable to net change in unrealized gains (losses)	4,648	9,680
<b>Total return of capital</b>	<b>\$ 6,022</b>	<b>\$ 11,694</b>

J. *Investment Income* The Fund records dividends and distributions on the ex-dividend date. Interest income is recognized on the accrual basis, including amortization of premiums and accretion of discounts. When investing in securities with payment in-kind interest, the Fund will accrue interest income during the life of the security even though it will not be receiving cash as the interest is accrued. To the extent that interest income to be received is not expected to be realized, a reserve against income is established. During the three and six months ended May 31,

2014, the Fund did not have a reserve against interest income, since all interest income accrued is expected to be received.

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Many of the debt securities that the Fund holds were purchased at a discount or premium to the par value of the security. The non-cash accretion of a discount to par value increases interest income while the non-cash amortization of a premium to par value decreases interest income. The accretion of a discount and amortization of a premium are based on the effective interest method. The amount of these non-cash adjustments can be found in the Fund's Statement of Cash Flows. The non-cash accretion of a discount increases the cost basis of the debt security, which results in an offsetting unrealized loss. The non-cash amortization of a premium decreases the cost basis of the debt security, which results in an offsetting unrealized gain. To the extent that par value is not expected to be realized, the Fund discontinues accruing the non-cash accretion of the discount to par value of the debt security.

The Fund receives paid-in-kind and non-cash dividends and distributions in the form of additional units or shares from the investments listed in the table below. For paid-in-kind dividends, the additional units are not reflected in investment income during the period received but are recorded as unrealized gains upon receipt. Non-cash distributions are reflected in investment income because the Fund has the option to receive its distribution in cash or in additional units of the security. During the three and six months ended May 31, 2014, the Fund received the following paid-in-kind and non-cash dividends and distributions.

	<b>For the Three Months Ended May 31, 2014</b>	<b>For the Six Months Ended May 31, 2014</b>
<b><u>Paid-in-kind dividends</u></b>		
Enbridge Energy Management, L.L.C.	\$ 1,244	\$ 2,463
Kinder Morgan Management, LLC	1,616	3,137
	2,860	5,600
<b><u>Non-cash dividends and distributions</u></b>		
Bonavista Energy Corporation	38	38
Enbridge, Inc.	148	148
Energy Transfer Partners, L.P.	284	545
Enterprise Products Partners L.P.	206	441
Gibson Energy Inc.	17	17
	693	1,189
Total paid-in-kind and non-cash dividends and distributions	\$ 3,553	\$ 6,789

*K. Distributions to Stockholders* Distributions to common stockholders are recorded on the ex-dividend date. Distributions to MRP shareholders are accrued on a daily basis as described in Note 12 Preferred Stock. As required by the Distinguishing Liabilities from Equity topic of the Financial Accounting Standards Board (FASB) Accounting Standards Codification (ASC 480), the Fund includes the accrued distributions on its MRP Shares as an operating expense due to the fixed term of this obligation. For tax purposes the payments made to the holders of the Fund's MRP Shares are treated as dividends or distributions.

The distributions paid to preferred and common stockholders for the six months ended May 31, 2014 are characterized as dividend income until after the end of the fiscal year when the Fund can determine its actual earnings and profits for the full year (including gains and losses on the

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sale of securities for the remainder of the fiscal year). The final tax character may differ substantially from this preliminary information. The tax character for each distribution paid during the year will be the same as the tax character of the total distributions paid during the full year.

L. *Partnership Accounting Policy* The Fund records its pro-rata share of the income (loss) and capital gains (losses), to the extent of distributions it has received, allocated from the underlying partnerships and adjusts the cost basis of the underlying partnerships accordingly. These amounts are included in the Fund's Statement of Operations.

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*M. Taxes* It is the Fund's intention to continue to be treated as and to qualify each year for special tax treatment afforded a regulated investment company (RIC) under Subchapter M of the Internal Revenue Code of 1986, as amended. As long as the Fund meets certain requirements that govern its source of income, diversification of assets and timely distribution of earnings to stockholders, the Fund will not be subject to U.S. federal income tax. See Note 6 Taxes.

All RICs are subject to a non-deductible 4% excise tax on income that is not distributed on a timely basis in accordance with the calendar year distribution requirements. To avoid the tax, the Fund must distribute during each calendar year an amount at least equal to the sum of (i) 98% of its ordinary income for the calendar year, (ii) 98.2% of its net capital gains for the one-year period ending on November 30, the last day of our taxable year, and (iii) undistributed amounts from previous years on which the Fund paid no U.S. federal income tax. A distribution will be treated as paid during the calendar year if it is paid during the calendar year or declared by the Fund in October, November or December of the year, payable to stockholders of record on a date during such a month and paid by the Fund during January of the following year. Any such distributions paid during January of the following year will be deemed to be received by stockholders on December 31 of the year the distributions are declared, rather than when the distributions are actually received.

There can be no assurance that sufficient amounts of the Fund's taxable income and capital gains will be distributed in future periods to avoid the imposition of the 4% excise tax. In that event, the Fund will be liable for the excise tax on the amount by which it does not meet the distribution requirement and will accrue an excise tax liability at the time that the liability is estimable and probable. In each of the past two years, the Board of Directors has determined not to make a special distribution of income in order to avoid the excise tax. The Fund's Board of Directors continues to review the merits of making a special distribution of undistributed income or paying the excise tax on such undistributed income. Currently, the Board of Directors intends to declare a special distribution prior to the end of calendar 2014 to eliminate the Fund's potential excise tax liability. The amount of the special distribution, if any, will depend on many factors, including the amount of the Fund's undistributed income at year end (if any) as well as the Fund's leverage levels relative to its stated target levels and financial covenants at such time. The Fund's Board of Directors may come to a different conclusion at the end of the year based on the facts and circumstances at such time. See Note 6 Taxes.

Dividend income received by the Fund from sources within Canada is subject to a 15% foreign withholding tax. For non-cash dividends from Bonavista Energy Corporation and Gibson Energy Inc. received during the three months ended May 31, 2014, there was no foreign withholding tax. Interest income on Canadian corporate obligations may be subject to a 10% withholding tax unless an exemption is met. The most common exemption available is for corporate bonds that have a tenor of at least 5 years, provided that not more than 25% of the principal is repayable in the first 5 years and provided that the borrower and lender are not associated. Further, interest is exempt if derived from debt obligations guaranteed by the Canadian government.

The Accounting for Uncertainty in Income Taxes Topic of the FASB Accounting Standards Codification (ASC 740) defines the threshold for recognizing the benefits of tax-return positions in the financial statements as more-likely-than-not to be sustained by the taxing authority and requires measurement of a tax position meeting the more-likely-than-not criterion, based on the largest benefit that is more than 50% likely to be realized.

The Fund's policy is to classify interest and penalties associated with underpayment of federal and state income taxes, if any, as income tax expense on its Statement of Operations. For the three and six months ended May 31, 2014, the Fund did not have any interest or penalties associated with the underpayment of any income taxes. All tax years since inception remain open and subject to examination by federal and state tax authorities.

*N. Foreign Currency Translations* The books and records of the Fund are maintained in U.S. dollars. Foreign currency amounts are translated into U.S. dollars on the following basis: (i) market value of investment





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securities, assets and liabilities at the rate of exchange as of the valuation date; and (ii) purchases and sales of investment securities, income and expenses at the relevant rates of exchange prevailing on the respective dates of such transactions.

The Fund does not isolate that portion of gains and losses on investments in equity and debt securities which is due to changes in the foreign exchange rates from that which is due to changes in market prices of equity and debt securities. Accordingly, realized and unrealized foreign currency gains and losses with respect to such securities are included in the reported net realized and unrealized gains and losses on investment transactions balances.

Net realized foreign exchange gains or losses represent gains and losses from transactions in foreign currencies and foreign currency contracts, foreign exchange gains or losses realized between the trade date and settlement date on security transactions, and the difference between the amounts of interest and dividends recorded on the Fund's books and the U.S. dollar equivalent of such amounts on the payment date.

Net unrealized foreign exchange gains or losses represent the difference between the cost of assets and liabilities (other than investments) recorded on the Fund's books from the value of the assets and liabilities (other than investments) on the valuation date.

*O. Indemnifications* Under the Fund's organizational documents, its officers and directors are indemnified against certain liabilities arising out of the performance of their duties to the Fund. In addition, in the normal course of business, the Fund enters into contracts that provide general indemnification to other parties. The Fund's maximum exposure under these arrangements is unknown, as this would involve future claims that may be made against the Fund that have not yet occurred, and may not occur. However, the Fund has not had prior claims or losses pursuant to these contracts and expects the risk of loss to be remote.

**3. Fair Value**

The Fair Value Measurement Topic of the FASB Accounting Standards Codification ( ASC 820 ) defines fair value as the price at which an orderly transaction to sell an asset or to transfer a liability would take place between market participants under current market conditions at the measurement date. As required by ASC 820, the Fund has performed an analysis of all assets and liabilities measured at fair value to determine the significance and character of all inputs to their fair value determination. Inputs are the assumptions, along with considerations of risk, that a market participant would use to value an asset or a liability. In general, observable inputs are based on market data that is readily available, regularly distributed and verifiable that the Fund obtains from independent, third-party sources. Unobservable inputs are developed by the Fund based on its own assumptions of how market participants would value an asset or a liability.

Accounting Standards Update ( ASU ) No. 2011-04 Amendments to Achieve Common Fair Value Measurement and Disclosure Requirements in U.S. GAAP and IFRSs amends ASC 820. The amended guidance clarifies the wording used to describe many requirements in accounting literature for fair value measurement and disclosure to establish consistency between U.S. GAAP and International Financial Reporting Standards ( IFRSs ).

ASU No. 2011-04 requires the inclusion of additional disclosures on assumptions used by the Fund to determine fair value. Specifically, for assets measured at fair value using significant unobservable inputs (Level 3), ASU No. 2011-04 requires that the Fund (i) describe the valuation process, (ii) disclose quantitative information about unobservable inputs and (iii) provide a qualitative discussion about the sensitivity of the fair value measurement to changes in the unobservable inputs and inter-relationships between the inputs.

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The fair value hierarchy prioritizes the inputs to valuation techniques used to measure fair value into the following three broad categories.

*Level 1* Valuations based on quoted unadjusted prices for identical instruments in active markets traded on a national exchange to which the Fund has access at the date of measurement.

*Level 2* Valuations based on quoted prices for similar instruments in active markets; quoted prices for identical or similar instruments in markets that are not active; and model-derived valuations in which all significant inputs and significant value drivers are observable in active markets. Level 2 inputs are those in markets for which there are few transactions, the prices are not current, little public information exists or instances where prices vary substantially over time or among brokered market makers.

*Level 3* Model derived valuations in which one or more significant inputs or significant value drivers are unobservable. Unobservable inputs are those inputs that reflect the Fund's own assumptions that market participants would use to price the asset or liability based on the best available information.

The following table presents the Fund's assets and liabilities measured at fair value on a recurring basis at May 31, 2014, and the Fund presents these assets and liabilities by security type and description on its Schedule of Investments or on its Statement of Assets and Liabilities. Note that the valuation levels below are not necessarily an indication of the risk or liquidity associated with the underlying investment.

	Total	Quoted Prices in Active Markets (Level 1)	Prices with Other Observable Inputs (Level 2)	Unobservable Inputs (Level 3)
<b>Assets at Fair Value</b>				
Equity investments	\$ 1,160,188	\$ 1,105,582	\$	\$ 54,606
Debt investments	127,249		127,249	
Total assets at fair value	\$ 1,287,437	\$ 1,105,582	\$ 127,249	\$ 54,606
<b>Liabilities at Fair Value</b>				
Call option contracts written	\$ 1,995	\$	\$ 1,995	\$

For the six months ended May 31, 2014, there were no transfers between Level 1 and Level 2.

As of May 31, 2014, the Fund had Notes outstanding with aggregate principal amount of \$235,000 and 4,200,000 shares of MRP Shares outstanding with a total liquidation value of \$105,000. The Notes and MRP Shares were issued in private placements to institutional investors and are not listed on any exchange or automated quotation system. See Note 11 Notes and Note 12 Preferred Stock. As a result, the Fund categorizes the Notes and MRP Shares as Level 3 and determines the fair value of these instruments based on estimated market yields and credit spreads for comparable instruments with similar maturity, terms and structure.

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The Fund records these securities on its Statement of Assets and Liabilities at principal amount or liquidation value. As of May 31, 2014, the estimated fair values of these leverage instruments are as follows.

<b>Security</b>	<b>Principal Amount/ Liquidation Value</b>	<b>Fair Value</b>
Notes	\$ 235,000	\$ 244,600
MRP Shares	\$ 105,000	\$ 109,200

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The following tables present the Fund's assets measured at fair value on a recurring basis using significant unobservable inputs (Level 3) for the three and six months ended May 31, 2014.

<b>Three Months Ended May 31, 2014</b>		<b>Equity Investments</b>
Balance	February 28, 2014	\$ 54,303
Purchases		
Issuances		
Transfers out to Level 1 and 2		
Realized gains (losses)		
Unrealized gains, net		303
Balance	May 31, 2014	\$ 54,606

<b>Six Months Ended May 31, 2014</b>		<b>Equity Investments</b>
Balance	November 30, 2013	\$ 45,096
Purchases		
Issuances		
Transfers out to Level 1 and 2		
Realized gains (losses)		
Unrealized gains, net		9,510
Balance	May 31, 2014	\$ 54,606

The \$303 and \$9,510 of unrealized gains presented in the tables above for the three and six months ended May 31, 2014 relate to investments that were still held at May 31, 2014, and the Fund includes these unrealized gains on the Statement of Operations - Net Change in Unrealized Gains.

**Valuation Techniques and Unobservable Inputs**

Unless otherwise determined by the Board of Directors, the Fund values its private investments in public equity ( PIPE ) investments that are convertible into or otherwise will become publicly-tradeable (e.g., through subsequent registration or expiration of a restriction on trading) based on the market value of the publicly-traded security less a discount. This discount is initially equal to the discount negotiated at the time the Fund agrees to a purchase price. To the extent that such securities are convertible or otherwise become publicly traded within a time frame that may be reasonably determined, this discount will be amortized on a straight line basis over such estimated time frame.

The Fund's investment in Plains AAP, L.P. ( PAA GP ), which controls the general partner of Plains All American, L.P., is valued as a PIPE investment. The Fund's ownership of PAA GP is exchangeable into shares of Plains GP Holdings, L.P. ( Plains GP ) on a one-for-one basis at the Fund's option. Plains GP completed its initial public offering in October 2013 and in connection with the offering, the Fund agreed to a 15-month lock-up on any Plains GP shares it receives in exchange for its ownership in PAA GP (lock-up expires in January 2015). During the 15-month

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lock-up period, the Fund is valuing its investment in PAA GP on an as exchanged basis based on the public market value of Plains GP less a discount because of the lack of liquidity.

One of the Fund's private investments is Class B Units of Capital Product Partners L.P. (CPLP). The Class B Units are convertible units (convertible on a one-for-one basis into common units) and are senior to CPLP's common units in terms of liquidation preference and priority of distributions. The Fund's Board of Directors has determined that it is appropriate to value the Class B Units using a convertible pricing model. This model takes into account the attributes of the Class B Units, including the preferred dividend, conversion ratio and call features to determine the estimated value of such units. In using this model, the Fund estimates (i) the

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credit spread for CPLP's Class B Units, which is based on credit spreads for companies in a similar line of business as CPLP and (ii) the expected volatility for CPLP's common units, which is based on CPLP's historical volatility. The Fund applies a discount to the value derived from the convertible pricing model to account for an expected discount in market prices for convertible securities relative to the values calculated using pricing models. To the extent this resulting price per Class B Unit is less than the public market price for CPLP's common units at such time, the public market price is used for the Class B Units.

Due to the inherent uncertainty of determining the fair value of investments that do not have a readily available market value, the fair value of the Fund's investments may fluctuate from period to period. Additionally, the fair value of the Fund's investments may differ from the values that would have been used had a ready market existed for such investments and may differ materially from the values that the Fund may ultimately realize.

The following table summarizes the significant unobservable inputs that the Fund used to value its portfolio investments categorized as Level 3 as of May 31, 2014:

**Quantitative Table for Valuation Techniques**

Assets at Fair Value	Fair Value	Valuation Technique	Unobservable Inputs	Range		
				Low	High	Average
Equity securities of public companies (PIPE) valued based on a discount to market value	\$ 48,103	- Discount to publicly-traded securities	- Current discount	5.1%	5.1%	5.1%
Equity securities of public companies not valued based on a discount to market value	6,503	- Convertible pricing model	- Credit spread - Volatility	6.3% 25.0%	6.8% 30.0%	6.5% 27.5%
			- Discount for marketability	8.0%	8.0%	8.0%
<b>Total</b>	<b>\$ 54,606</b>					

**4. Concentration of Risk**

The Fund's investments are concentrated in the Energy Sector. The focus of the Fund's portfolio within the Energy Sector may present more risks than if the Fund's portfolio were broadly diversified across numerous sectors of the economy. A downturn in the Energy Sector would have a larger impact on the Fund than on an investment company that does not concentrate in energy. The performance of securities in the Energy Sector may lag the performance of other industries or the broader market as a whole. Additionally, to the extent that the Fund invests a relatively

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high percentage of its assets in the securities of a limited number of issuers, the Fund may be more susceptible than a more widely diversified investment company to any single economic, political or regulatory occurrence. At May 31, 2014, the Fund had the following investment concentrations.

<b>Category</b>	<b>Percent of Long-Term Investments</b>
Securities of Energy Companies <sup>(1)</sup>	99.2%
Equity securities	90.1%
Debt securities	9.9%
MLP securities <sup>(1)</sup>	37.1%
Largest single issuer	7.6%
Restricted securities	8.5%

(1) Refer to the Glossary of Key Terms (page 38) for the definition of Energy Companies and MLPs.

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**KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.**

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**(UNAUDITED)**

**5. Agreements and Affiliations**

**A. Administration Agreement** The Fund has an administration and accounting agreement with Ultimus Fund Solutions, LLC ( Ultimus ) that may be amended from time to time. Pursuant to the agreement, Ultimus will provide certain administrative and accounting services for the Fund. The agreement has an initial term of two years (expiring on November 14, 2015) and has automatic one-year renewals unless earlier terminated by either party as provided under the terms of the agreement.

**B. Investment Management Agreement** The Fund has entered into an investment management agreement with KAFA under which KAFA, subject to the overall supervision of the Fund's Board of Directors, manages the day-to-day operations of, and provides investment advisory services to, the Fund. For providing these services, KAFA receives an investment management fee from the Fund. On September 25, 2013, the Fund renewed its agreement with KAFA for a period of one year, which expires on October 19, 2014. The agreement may be renewed annually upon the approval of the Fund's Board of Directors (including a majority of the Fund's directors who are not interested persons of the Fund, as such term is defined in the 1940 Act). For the six months ended May 31, 2014, the Fund paid management fees at an annual rate of 1.25% of the average monthly total assets of the Fund.

For purposes of calculating the management fee, the average total assets for each monthly period are determined by averaging the total assets at the last business day of that month with the total assets at the last business day of the prior month. The total assets of the Fund shall be equal to its average monthly gross asset value (which includes assets attributable to the Fund's use of debt and preferred stock, minus the sum of the Fund's accrued and unpaid dividends and distributions on any outstanding common stock and accrued and unpaid dividends and distributions on any outstanding preferred stock and accrued liabilities (other than liabilities associated with borrowing or leverage by the Fund). Liabilities associated with borrowing or leverage include the principal amount of any debt issued by the Fund, the liquidation preference of any outstanding preferred stock, and other liabilities from other forms of borrowing or leverage such as short positions and put or call options held or written by the Fund.

**C. Portfolio Companies** From time to time, the Fund may control or may be an affiliate of one or more of its portfolio companies, as each of these terms is defined in the 1940 Act. In general, under the 1940 Act, the Fund would be presumed to control a portfolio company if the Fund and its affiliates owned 25% or more of its outstanding voting securities and would be an affiliate of a portfolio company if the Fund and its affiliates owned 5% or more of its outstanding voting securities. The 1940 Act contains prohibitions and restrictions relating to transactions between investment companies and their affiliates (including the Fund's investment adviser), principal underwriters and affiliates of those affiliates or underwriters.

The Fund believes that there are several factors that determine whether or not a security should be considered a voting security in complex structures such as limited partnerships of the kind in which the Fund invests. The Fund also notes that the Securities and Exchange Commission (the SEC) staff has issued guidance on the circumstances under which it would consider a limited partnership interest to constitute a voting security. Under most partnership agreements, the management of the partnership is vested in the general partner, and the limited partners, individually or collectively, have no rights to manage or influence management of the partnership through such activities as participating in the selection of the managers or the board of the limited partnership or the general partner. As a result, the Fund believes that many of the limited partnership interests in which it invests should not be considered voting securities. However, it is possible that the SEC staff may consider the limited partner interests the Fund holds in certain limited partnerships to be voting securities. If such a determination were made, the Fund may be regarded as a person affiliated with and controlling the issuer(s) of those securities for purposes of Section 17 of the 1940 Act.

In making such a determination as to whether to treat any class of limited partnership interests the Fund holds as a voting security, the Fund considers, among other factors, whether or not the holders of such limited partnership interests have the right to elect the board of directors of the limited partnership or the general partner.





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If the holders of such limited partnership interests do not have the right to elect the board of directors, the Fund generally has not treated such security as a voting security. In other circumstances, based on the facts and circumstances of those partnership agreements, including the right to elect the directors of the general partner, the Fund has treated those securities as voting securities. If the Fund does not consider the security to be a voting security, it will not consider such partnership to be an affiliate unless the Fund and its affiliates own more than 25% of the outstanding securities of such partnership. Additionally, certain partnership agreements give common unitholders the right to elect the partnership's board of directors, but limit the amount of voting securities any limited partner can hold to no more than 4.9% of the partnership's outstanding voting securities (*i.e.*, any amounts held in excess of such limit by a limited partner do not have voting rights). In such instances, the Fund does not consider itself to be an affiliate if it owns more than 5% of such partnership's common units.

There is no assurance that the SEC staff will not consider that other limited partnership securities that the Fund owns and does not treat as voting securities are, in fact, voting securities for the purposes of Section 17 of the 1940 Act. If such determination were made, the Fund will be required to abide by the restrictions on control or affiliate transactions as proscribed in the 1940 Act. The Fund or any portfolio company that it controls, and its affiliates, may from time to time engage in certain of such joint transactions, purchases, sales and loans in reliance upon and in compliance with the conditions of certain exemptive rules promulgated by the SEC. The Fund cannot make assurances, however, that it would be able to satisfy the conditions of these rules with respect to any particular eligible transaction, or even if the Fund were allowed to engage in such a transaction, that the terms would be more or as favorable to the Fund or any company that it controls as those that could be obtained in an arm's length transaction. As a result of these prohibitions, restrictions may be imposed on the size of positions that may be taken for the Fund or on the type of investments that it could make.

As of May 31, 2014, the Fund believes that MarkWest Energy Partners, L.P. meets the criteria described above and is therefore considered an affiliate of the Fund.

*Plains GP Holdings, L.P., Plains AAP, L.P. and Plains All American Pipeline, L.P.* Robert V. Sinnott is Chief Executive Officer of Kayne Anderson Capital Advisors, L.P. ( KACALP ), the managing member of KAFA. Mr. Sinnott also serves as a director of (i) PAA GP Holdings LLC, which is the general partner of Plains GP Holdings, L.P. ( Plains GP ) and (ii) Plains All American GP LLC ( Plains All American GP ), which controls the general partner of Plains All American Pipeline, L.P. ( PAA ). Members of senior management of KACALP and KAFA and various affiliated funds managed by KACALP, including the Fund, own shares of Plains GP as well as interests in Plains AAP, L.P. ( PAA GP ) (which are exchangeable into shares of Plains GP as described in Note 3 Fair Value). The Fund believes that it is an affiliate of Plains GP and PAA under the 1940 Act by virtue of (i) the Fund's and other affiliated Kayne Anderson funds' ownership interest in Plains GP and PAA GP and (ii) Mr. Sinnott's participation on the boards of Plains GP and Plains All American GP.

**6. Taxes**

Income and capital gain distributions made by RICs often differ from GAAP basis net investment income (loss) and any net realized gains (losses). For the Fund, the principal reason for these differences is the return of capital treatment of dividends and distributions from MLPs and certain other of its investments. Net investment income and net realized gains for GAAP purposes may differ from taxable income for federal income tax purposes due to wash sales, disallowed partnership losses from MLPs and foreign currency transactions.

As of May 31, 2014, the principal temporary differences were (a) realized losses that were recognized for book purposes, but disallowed for tax purposes due to wash sale rules; (b) disallowed partnership losses related to the Fund's MLP investments; and (c) other basis adjustments in the Fund's MLPs and other investments. For purposes of characterizing the nature of the dividends/distributions to investors, the amounts in excess of the Fund's earnings and profits for federal income tax purposes are treated as a return of capital. Earnings and profits differ from taxable income due principally to adjustments related to the Fund's investments in MLPs.



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For the fiscal year ended November 30, 2013, the tax character of the total \$39,680 distributions paid to common stockholders was \$25,108 of dividend income and \$14,572 of long-term capital gains, and the tax character of the total \$3,212 distributions paid to MRP shareholders was \$2,007 of dividend income and \$1,205 of long-term capital gains.

The Fund is subject to a non-deductible 4% excise tax on income that is not distributed in accordance with the calendar year distribution requirements. See Note 2 Significant Accounting Policies. As of November 30, 2013, the Fund accrued \$750 for excise taxes related to estimated undistributed income of \$18,800 for the calendar year ended December 31, 2013. The Fund's Board of Directors elected not to distribute the Fund's undistributed income and incur this excise tax. During the six months ended May 31, 2014, the Fund paid \$760 in estimated excise taxes attributable to the Fund's activities during calendar 2013. The incremental amount paid (\$10) is reflected as an expense on the Fund's Statement of Operations. As of May 31, 2014, the Fund did not accrue any excise taxes related to undistributed income for 2014 because the liability was not probable and estimable.

The Fund's Board of Directors continues to review the merits of making a special distribution of undistributed income or paying the excise tax on such undistributed income. Currently, the Board of Directors intends to declare a special distribution prior to the end of calendar 2014 to eliminate the Fund's potential excise tax liability. The amount of the special distribution, if any, will depend on many factors, including the amount of the Fund's undistributed income at year end (if any) as well as the Fund's leverage levels relative to its stated target levels and financial covenants at such time. The Fund's Board of Directors may come to a different conclusion at the end of the year based on the facts and circumstances at such time.

Under the Regulated Investment Company Modernization Act of 2010, any net capital losses recognized after December 31, 2010 may be carried forward indefinitely, and their character is retained as short-term and/or long-term losses.

At May 31, 2014, the cost basis of investments for federal income tax purposes was \$973,183, and the net cash received on option contracts written was \$1,734. At May 31, 2014, gross unrealized appreciation and depreciation of investments and options for federal income tax purposes were as follows:

Gross unrealized appreciation of investments (including options)	\$ 321,658
Gross unrealized depreciation of investments (including options)	(7,666)
Net unrealized appreciation of investments before foreign currency related translations	313,992
Unrealized depreciation on foreign currency related translations	(3)
Net unrealized appreciation of investments	\$ 313,989

**7. Restricted Securities**

From time to time, certain of the Fund's investments may be restricted as to resale. For instance, private investments that are not registered under the Securities Act of 1933, as amended, cannot be offered for public sale in a non-exempt transaction without first being registered. In other cases, certain of the Fund's investments have restrictions such as lock-up agreements that preclude the Fund from offering these securities for public sale.



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At May 31, 2014, the Fund held the following restricted investments:

Investment	Acquisition Date	Type of Restriction	Number of Units, Principal (\$) (in 000s)	Cost Basis (GAAP)	Fair Value	Fair Value Per Unit	Percent of Net Assets	Percent of Total Assets
<b>Level 2 Investments<sup>(1)</sup></b>								
Senior Notes and Secured Term Loans								
BlackBrush Oil & Gas, L.P.	(2)	(3)	\$ 8,623	\$ 8,587	\$ 8,666	n/a	1.0%	0.7%
Chief Exploration & Development LLC	05/12/14	(3)	4,000	3,960	4,013	n/a	0.5	0.3
CrownRock, L.P.	(2)	(3)	2,500	2,500	2,637	n/a	0.3	0.2
Jonah Energy LLC	5/08/14	(3)	3,000	2,955	3,030	n/a	0.3	0.2
Jones Energy, Inc.	3/27/14	(4)	1,500	1,500	1,586	n/a	0.2	0.1
Parsley Energy, Inc.	(2)	(4)	6,025	6,147	6,402	n/a	0.7	0.5
RKI Exploration & Production, LLC	7/15/13	(3)	12,500	12,689	13,625	n/a	1.5	1.0
Sanchez Energy Corporation	(2)	(4)	7,750	7,750	8,331	n/a	0.9	0.7
Vantage Energy, LLC	12/19/13	(3)	6,485	6,434	6,534	n/a	0.7	0.5
Total				\$ 52,522	\$ 54,824		6.1%	4.2%
<b>Level 3 Investments<sup>(5)</sup></b>								
Capital Products Partners L.P.								
Class B Units	(2)	(4)	606	\$ 4,362	\$ 6,503	\$ 10.73	0.7%	0.5%
Plains GP Holdings, L.P.								
Common Units	(2)	(6)	1,836	6,755	48,103	26.20	5.4	3.7
Total				\$ 11,117	\$ 54,606		6.1%	4.2%
Total of all restricted securities				\$ 63,639	\$ 109,430		12.2%	8.4%

(1) These securities have a fair market value determined by the mean of the bid and ask prices provided by an agent or a syndicate bank, principal market maker or an independent pricing service as more fully described in Note 2 Significant Accounting Policies. These securities have limited trading volume and are not listed on a national exchange.

(2) Security was acquired at various dates during the six months ended May 31, 2014 and/or in prior fiscal years.

(3) Unregistered security of a private company.

- (4) Unregistered or restricted security of a publicly-traded company.
- (5) Securities are valued using inputs reflecting the Fund's own assumptions as more fully described in Note 2 Significant Accounting Policies and Note 3 Fair Value.
- (6) The Fund holds an interest in PAA GP, which controls the general partner of Plains All American, L.P. The Fund's ownership of PAA GP is exchangeable into shares of Plains GP (which trades on the NYSE under the ticker PAGP ) on a one-for-one basis at the Fund's option. The Fund agreed to a 15-month lock-up on any Plains GP shares it receives in exchange for its ownership in PAA GP (lock-up expires in January 2015). See Note 3 Fair Value.

#### **8. Derivative Financial Instruments**

As required by the Derivatives and Hedging Topic of the FASB Accounting Standards Codification (ASC 815), the following are the derivative instruments and hedging activities of the Fund. The total number of outstanding options at May 31, 2014 is indicative of the volume of this type of option activity during the period. See Note 2 Significant Accounting Policies.

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**Option Contracts** Transactions in option contracts for the three and six months ended May 31, 2014 were as follows:

<b>Three Months Ended May 31, 2014</b>	<b>Number of Contracts</b>	<b>Premium</b>
<b>Call Options Written</b>		
Options outstanding at February 28, 2014	12,182	\$ 1,201
Options written	24,880	2,735
Options subsequently repurchased <sup>(1)</sup>	(5,625)	(637)
Options exercised	(10,632)	(1,283)
Options expired	(3,695)	(282)
Options outstanding at May 31, 2014 <sup>(2)</sup>	17,110	\$ 1,734

(1) The price at which the Fund subsequently repurchased the options was \$235, which resulted in a net realized gains of \$402.

(2) The percentage of total investments subject to call options written was 8.1% at May 31, 2014.

<b>Six Months Ended May 31, 2014</b>	<b>Number of Contracts</b>	<b>Premium</b>
<b>Call Options Written</b>		
Options outstanding at November 30, 2013	19,189	\$ 1,750
Options written	45,327	4,854
Options subsequently repurchased <sup>(1)</sup>	(7,475)	(882)
Options exercised	(28,915)	(2,959)
Options expired	(11,016)	(1,029)
Options outstanding at May 31, 2014	17,110	\$ 1,734

(1) The price at which the Fund subsequently repurchased the options was \$373, which resulted in net realized gains of \$509.

**Interest Rate Swap Contracts** The Fund may enter into interest rate swap contracts to partially hedge itself from increasing expense on its leverage resulting from increasing interest rates. At the time the interest rate swap contracts reach their scheduled termination, there is a risk that the Fund would not be able to obtain a replacement transaction or that the terms of the replacement transaction would not be as favorable as on the expiring transaction. In addition, if the Fund is required to terminate any swap contract early, then the Fund could be required to make a termination payment.



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During the fiscal second quarter of 2014, the Fund entered into interest rate swap contracts (\$30,000 notional amount) in anticipation of a private placement of Notes and MRP Shares. On April 14, 2014, the interest rate swap contracts were terminated and resulted in a \$431 realized loss. As of May 31, 2014, the Fund did not have any interest rate swap contracts outstanding.

The following table sets forth the fair value of the Fund's derivative instruments on the Statement of Assets and Liabilities:

<b>Derivatives Not Accounted for as Hedging Instruments</b>	<b>Statement of Assets and Liabilities Location</b>	<b>Fair Value as of May 31, 2014</b>
Call options	Call option contracts written	\$ (1,995)

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The following tables set forth the effect of the Fund's derivative instruments on the Statement of Operations:

Derivatives Not Accounted for as Hedging Instruments	Location of Gains/(Losses) on Derivatives Recognized in Income	For the Three Months Ended May 31, 2014	
		Net Realized Gains/(Losses) on Derivatives Recognized in Income	Change in Unrealized Gains/(Losses) on Derivatives Recognized in Income
Call options	Options	\$ 688	\$ (364)
Interest rate swap contracts	Interest rate swap contracts	(431)	
		\$ 257	\$ (364)

Derivatives Not Accounted for as Hedging Instruments	Location of Gains/(Losses) on Derivatives Recognized in Income	For the Six Months Ended May 31, 2014	
		Net Realized Gains/(Losses) on Derivatives Recognized in Income	Change in Unrealized Gains/(Losses) on Derivatives Recognized in Income
Call options	Options	\$ 1,542	\$ (74)
Interest rate swap contracts	Interest rate swap contracts	(431)	
		\$ 1,111	\$ (74)

**9. Investment Transactions**

For the six months ended May 31, 2014, the Fund purchased and sold securities in the amounts of \$329,740 and \$266,817 (excluding short-term investments and options).

**10. Credit Facility and Bank Facility**

At May 31, 2014, the Fund had a \$105,000 unsecured revolving credit facility (the Credit Facility) with a syndicate of lenders. The Credit Facility has a three-year commitment, maturing on November 21, 2016. The interest rate varies between LIBOR plus 1.50% and LIBOR plus 2.15%, depending on the Fund's asset coverage ratios. Outstanding loan balances accrue interest daily at a rate equal to one-month LIBOR plus 1.50%, based on current asset coverage ratios. The Fund pays a fee of 0.25% per annum on any unused amounts of the Credit Facility. See Financial Highlights for the Fund's asset coverage ratios under the 1940 Act.

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For the six months ended May 31, 2014, the average amount outstanding under the Credit Facility was \$52,758 with a weighted average interest rate of 1.66%. As of May 31, 2014, the Fund had \$50,000 outstanding under the Credit Facility at an interest rate of 1.78%.

On July 25, 2014, the Fund entered into an additional \$50,000 unsecured credit agreement ( Bank Facility ). See Note 14 Subsequent Events.

### **11. Notes**

At May 31, 2014, the Fund had \$235,000 aggregate principal amount of Notes outstanding. On April 30, 2014, the Fund completed a \$30,000 private placement of Notes. Net proceeds from the Notes offering were used to make new portfolio investments, to refinance existing indebtedness and for general corporate purposes.

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The table below sets forth the key terms of each series of the Notes at May 31, 2014.

Series	Principal Outstanding, November 30, 2013	Principal Issued	Principal Outstanding, May 31, 2014	Estimated Fair Value May 31, 2014	Fixed Interest Rate	Maturity
A	\$ 55,000	\$	\$ 55,000	\$ 57,600	3.93%	3/3/16
B	60,000		60,000	65,300	4.62%	3/3/18
C	50,000		50,000	52,200	4.00%	3/22/22
D	40,000		40,000	39,300	3.34%	5/1/23
E		30,000	30,000	30,200	3.46%	7/30/21
	\$ 205,000	\$ 30,000	\$ 235,000	\$ 244,600		

Holders of the Notes are entitled to receive cash interest payments semi-annually (on September 3 and March 3) at the fixed rate. During the six months ended May 31, 2014, the weighted average interest rate on the outstanding Notes was 4.02%.

As of May 31, 2014, each series of Notes were rated AAA by FitchRatings. In the event the credit rating on any series of Notes falls below A-, the interest rate on such series will increase by 1% during the period of time such series is rated below A-. The Fund is required to maintain a current rating from one rating agency with respect to each series of Notes.

The Notes were issued in private placement offerings to institutional investors and are not listed on any exchange or automated quotation system. The Notes contain various covenants related to other indebtedness, liens and limits on the Fund's overall leverage. Under the 1940 Act and the terms of the Notes, the Fund may not declare dividends or make other distributions on shares of its common stock or make purchases of such shares if, at any time of the declaration, distribution or purchase, asset coverage with respect to the outstanding Notes would be less than 300%.

The Notes are redeemable in certain circumstances at the option of the Fund. The Notes are also subject to a mandatory redemption to the extent needed to satisfy certain requirements if the Fund fails to meet an asset coverage ratio required by law and is not able to cure the coverage deficiency by the applicable deadline, or fails to cure a deficiency as stated in the Fund's rating agency guidelines in a timely manner.

The Notes are unsecured obligations of the Fund and, upon liquidation, dissolution or winding up of the Fund, will rank: (1) senior to all of the Fund's outstanding preferred shares; (2) senior to all of the Fund's outstanding common shares; (3) on a parity with any unsecured creditors of the Fund and any unsecured senior securities representing indebtedness of the Fund; and (4) junior to any secured creditors of the Fund.

At May 31, 2014, the Fund was in compliance with all covenants under the agreements of the Notes.

**12. Preferred Stock**

At May 31, 2014, the Fund had 4,200,000 shares of MRP Shares outstanding, with a total liquidation value of \$105,000 (\$25.00 per share). On April 30, 2014, the Fund completed a \$40,000 private placement MRP Shares. Net proceeds from the MRP Shares offering were used to make new portfolio investments, to refinance existing indebtedness and for general corporate purposes.



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The table below sets forth the key terms of each series of the MRP Shares at May 31, 2014.

Series	Liquidation Value		Estimated Fair Value		Rate	Maturity
	November 30, 2013	Shares Issued	May 31, 2014	May 31, 2014		Redemption Date
A	\$ 35,000	\$	\$ 35,000	\$ 37,800	5.32%	3/3/18
B	30,000		30,000	31,300	4.50%	3/22/20
C		40,000	40,000	40,100	4.06%	7/30/21
	\$ 65,000	\$ 40,000	\$ 105,000	\$ 109,200		

Holders of the MRP Shares are entitled to receive cumulative cash dividend payments on the first business day following each quarterly period (February 28, May 31, August 31 and November 30).

As of May 31, 2014, each series of the Fund's MRP Shares was rated AA by FitchRatings. The dividend rate on the Fund's MRP Shares will increase between 0.5% and 4.0% if the credit rating is downgraded below A by FitchRatings. Further, the annual dividend rate for all series of MRP Shares will increase by 4.0% if no ratings are maintained, and the annual dividend rate will increase by 5.0% if the Fund fails to make quarterly dividend or certain other payments. The Fund is required to maintain a current rating from one rating agency with respect to each series of MRP Shares.

The MRP Shares rank senior to all of the Fund's outstanding common shares and on parity with any other preferred stock. The MRP Shares are redeemable in certain circumstances at the option of the Fund and is also subject to a mandatory redemption if the Fund fails to meet a total leverage (debt and preferred stock) asset coverage ratio of 225% or fails to maintain its basic maintenance amount as stated in the Fund's rating agency guidelines.

Under the terms of the MRP Shares, the Fund may not declare dividends or make other distributions on shares of its common stock or make purchases of such shares if, at any time of the declaration, distribution or purchase, asset coverage with respect to total leverage would be less than 225%.

The holders of the MRP Shares have one vote per share and will vote together with the holders of common stock as a single class except on matters affecting only the holders of MRP Shares or the holders of common stock. The holders of the MRP Shares, voting separately as a single class, have the right to elect at least two directors of the Fund.

At May 31, 2014, the Fund was in compliance with the asset coverage and basic maintenance requirements of its MRP Shares.

**13. Common Stock**

At May 31, 2014, the Fund had 195,800,000 shares of common stock authorized and 21,907,097 shares outstanding. As of that date, KAFA owned 4,000 shares. On April 15, 2014, the Fund announced that its Board of Directors approved a program to purchase up to \$20,000 of the

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Fund's common stock. The repurchase program will continue until the earlier of (i) the repurchase of \$20,000 of common stock or (ii) September 30, 2014. The Fund will authorize its agents to make purchases in the open market when shares are trading at a discount of at least 8% to the Fund's NAV per share and the Fund has sufficient borrowing capacity relative to its target leverage ratios. As of May 31, 2014, the Fund had repurchased 234,200 shares of its common stock at an average price of

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\$36.41 (total cost of \$8,527) which represented an average discount to the Fund's NAV per share of approximately 8.7%. Transactions in common shares for the six months ended May 31, 2014 were as follows:

Shares outstanding at November 30, 2013	22,044,045
Shares issued through reinvestment of distributions	97,252
Shares repurchased	(234,200)
Shares outstanding at May 31, 2014	21,907,097

**14. Subsequent Events**

On June 25, 2014, the Fund declared its quarterly distribution of \$0.48 per common share for the second quarter of fiscal 2014 for a total quarterly distribution payment of \$10,463. The distribution was paid on July 18, 2014 to common stockholders. Of this total, pursuant to the Fund's dividend reinvestment plan, \$1,117 was reinvested into the Fund through the open market purchases of common stock.

On July 25, 2014, the Fund entered into a \$50,000 Bank Facility. The Bank Facility has a five-year commitment, and borrowings under the Bank Facility will bear interest at a rate of 1-month LIBOR plus 1.30%. The Fund pays a fee of 0.25% per annum on any unused amount of the Bank Facility.

The Fund has performed an evaluation of subsequent events through the date the financial statements were issued and has determined that no additional items require recognition or disclosure.



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**GLOSSARY OF KEY TERMS**

**(UNAUDITED)**

This glossary contains definitions of certain key terms, as they are used in our investment objective and policies and as described in this Semi-Annual Report. These definitions may not correspond to standard sector definitions.

*Energy Assets* means assets that are used in the energy sector, including assets used in exploring, developing, producing, generating, transporting, transmitting, storing, gathering, processing, refining, distributing, mining or marketing of natural gas, natural gas liquids, crude oil, refined products, coal or electricity.

*Energy Companies* means companies that own and operate Energy Assets or provide energy-related services. For purposes of this definition, this includes companies that (i) derive at least 50% of their revenues or operating income from operating Energy Assets or providing services for the operation of such Energy Assets or (ii) have Energy Assets that represent the majority of their assets.

*General Partner MLPs* means Master Limited Partnerships whose assets consist of ownership interests of an affiliated Master Limited Partnership (which may include general partnership interests, incentive distribution rights, common units and subordinated units).

*Master Limited Partnerships* means limited partnerships and limited liability companies that are publicly traded and are treated as partnerships for federal income tax purposes.

*Midstream Assets* means assets used in energy logistics, including, but not limited to, assets used in transporting, storing, gathering, processing, distributing, or marketing of natural gas, natural gas liquids, crude oil or refined products.

*Midstream Companies* means companies, other than Midstream MLPs, that own and operate Midstream Assets and are taxed as corporations for federal income tax purposes. This includes companies structured like MLPs, but not treated as a publicly-traded partnership for RIC qualification purposes. For purposes of this definition, this includes companies that (i) derive at least 50% of their revenue or operating income from operating Midstream Assets or (ii) have Midstream Assets that represent the majority of their assets.

*Midstream/Energy Sector* consists of (a) Midstream MLPs, (b) Midstream Companies, (c) Other MLPs and (d) Other Energy Companies.

*Midstream Sector* consists of (a) Midstream MLPs and (b) Midstream Companies.

*Midstream MLPs* means MLPs that principally own and operate Midstream Assets. Midstream MLPs also include (a) MLPs that provide transportation and distribution services of energy related products through the ownership of marine transportation vessels, (b) General Partner MLPs whose assets consist of ownership interests of an affiliated Midstream MLP and (c) MLP Affiliates of Midstream MLPs.

*MLPs* means entities that are structured as Master Limited Partnerships and their affiliates and includes Midstream MLPs, Other MLPs and MLP Affiliates.

*MLP Affiliates* means affiliates of Master Limited Partnerships, substantially all of whose assets consist of i-units. MLP Affiliates are not treated as partnerships for federal income tax purposes.

*Other Energy Companies* means Energy Companies, excluding MLPs and Midstream Companies.

*Other MLPs* consists of (a) upstream MLPs, (b) coal MLPs, (c) propane MLPs and (d) MLPs that operate other energy assets or provide energy-related services.



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**KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.**

**PRIVACY POLICY NOTICE**

**(UNAUDITED)**

**Rev. 01/2011**

**FACTS**

**WHAT DOES KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC. ( KMF ) DO WITH YOUR PERSONAL INFORMATION?**

**Why?**

Financial companies choose how they share your personal information. Federal law gives consumers the right to limit some but not all sharing. Federal law also requires us to tell you how we collect, share, and protect your personal information. Please read this notice carefully to understand what we do.

**What?**

The types of personal information we collect and share depend on the product or service you have with us. This information can include:

n Social Security number and account balances

n Payment history and transaction history

n Account transactions and wire transfer instructions

When you are *no longer* our customer, we continue to share your information as described in this notice.

**How?**

All financial companies need to share customers' personal information to run their everyday business. In the section below, we list the reasons financial companies can share their customers' personal information; the reasons KMF chooses to share; and whether you can limit this sharing.

<b>Reasons we can share your personal information</b>	<b>Does KMF share?</b>	<b>Can you limit this sharing?</b>
<b>For our everyday business purposes</b> such as to process your transactions, maintain your account(s), respond to court orders and legal investigations, or report to credit bureaus	Yes	No
<b>For our marketing purposes</b> to offer our products and services to you	No	No
<b>For joint marketing with other financial companies</b>	No	We don't share
<b>For our affiliates' everyday business purposes</b> information about your transactions and experiences	No	We don't share
	No	We don't share

**For our affiliates** everyday business purposes  
information about your creditworthiness

**For nonaffiliates to market to you**

No

We don't share

**Questions?**

Call 877-657-3863 or go to <http://www.kaynefunds.com>

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**KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.**

**PRIVACY POLICY NOTICE**

**(UNAUDITED)**

**Who we are**

**Who is providing this notice?**

KMF

**What we do**

**How does KMF protect my personal information?**

To protect your personal information from unauthorized access and use, we use security measures that comply with federal law. These measures include computer safeguards and secured files and buildings.

**How does KMF collect my personal information?**

Access to your personal information is on a need-to-know basis. KMF has adopted internal policies to protect your non-public personal information. We collect your personal information, for example, when you

- n Open an account or provide account information

- n Buy securities from us or make a wire transfer

- n Give us your contact information

**Why can't I limit all sharing?**

We also collect your personal information from other companies. Federal law gives you the right to limit only

- n sharing for affiliates everyday business purposes information about your creditworthiness

- n affiliates from using your information to market to you

- n sharing for nonaffiliates to market to you

State laws and individual companies may give you additional rights to limit sharing.

**Definitions**

**Affiliates**

Companies related by common ownership or control. They can be financial and nonfinancial companies.

**Nonaffiliates**

*n KMF does not share with our affiliates.*

Companies not related by common ownership or control. They can be financial and nonfinancial companies.

**Joint marketing**

*n KMF does not share with nonaffiliates so they can market to you.*

A formal agreement between nonaffiliated financial companies that together market financial products or services to you.

*n KMF doesn't jointly market.*

**Other important information**

**None.**

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**KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.**

**DIVIDEND REINVESTMENT PLAN**

**(UNAUDITED)**

Kayne Anderson Midstream/Energy Fund, Inc., a Maryland corporation (the Fund), has adopted the following plan (the Plan) with respect to distributions declared by its Board of Directors (the Board) on shares of its Common Stock:

1. Unless a stockholder specifically elects to receive cash as set forth below, all distributions hereafter declared by the Board shall be payable in shares of the Common Stock of the Fund, and no action shall be required on such stockholder's part to receive a distribution in stock.
2. Such distributions shall be payable on such date or dates as may be fixed from time to time by the Board to stockholders of record at the close of business on the record date(s) established by the Board for the distribution involved.
3. The Fund may use newly-issued shares of its Common Stock or purchase shares in the open market in connection with the implementation of the plan. The number of shares to be issued to a stockholder shall be based on share price equal to 95% of the closing price of the Fund's Common Stock one day prior to the dividend payment date.
4. The Board may, in its sole discretion, instruct the Fund to purchase shares of its Common Stock in the open market in connection with the implementation of the Plan as follows: If the Fund's Common Stock is trading below net asset value at the time of valuation, upon notice from the Fund, the Plan Administrator (as defined below) will receive the dividend or distribution in cash and will purchase Common Stock in the open market, on the New York Stock Exchange or elsewhere, for the Participants' accounts, except that the Plan Administrator will endeavor to terminate purchases in the open market and cause the Fund to issue the remaining shares if, following the commencement of the purchases, the market value of the shares, including brokerage commissions, exceeds the net asset value at the time of valuation. These remaining shares will be issued by the Fund at a price equal to the greater of (i) the net asset value at the time of valuation or (ii) 95% of the then current market price.
5. In a case where the Plan Administrator has terminated open market purchases and caused the issuance of remaining shares by the Fund, the number of shares received by the participant in respect of the cash dividend or distribution will be based on the weighted average of prices paid for shares purchased in the open market, including brokerage commissions, and the price at which the Fund issues remaining shares. To the extent that the Plan Administrator is unable to terminate purchases in the open market before the Plan Administrator has completed its purchases, or remaining shares cannot be issued by the Fund because the Fund declared a dividend or distribution payable only in cash, and the market price exceeds the net asset value of the shares, the average share purchase price paid by the Plan Administrator may exceed the net asset value of the shares, resulting in the acquisition of fewer shares than if the dividend or distribution had been paid in shares issued by the Fund.
6. A stockholder may, however, elect to receive his or its distributions in cash. To exercise this option, such stockholder shall notify American Stock Transfer & Trust Company, the plan administrator and the Fund's transfer agent and registrar (collectively the Plan Administrator), in writing so that such notice is received by the Plan Administrator no later than the record date fixed by the Board for the distribution involved.
7. The Plan Administrator will set up an account for shares acquired pursuant to the Plan for each stockholder who has not so elected to receive dividends and distributions in cash (each, a Participant). The Plan Administrator may hold each Participant's shares, together with the shares of other Participants, in non-certificated form in the Plan Administrator's name or that of its nominee. Upon request by a Participant, received no later than three (3) days prior to the payable date, the Plan Administrator will, instead of crediting shares to and/or carrying shares in a Participant's account, issue, without charge to the Participant, a certificate registered in the Participant's name for the number of whole shares payable to the Participant and a check for any fractional share less a broker commission on the sale of such fractional shares. If a

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**KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.**

**DIVIDEND REINVESTMENT PLAN**

**(UNAUDITED)**

request to terminate a Participant's participation in the Plan is received less than three (3) days before the payable date, dividends and distributions for that payable date will be reinvested. However, subsequent dividends and distributions will be paid to the Participant in cash.

8. The Plan Administrator will confirm to each Participant each acquisition made pursuant to the Plan as soon as practicable but not later than ten (10) business days after the date thereof. Although each Participant may from time to time have an undivided fractional interest (computed to three decimal places) in a share of Common Stock of the Fund, no certificates for a fractional share will be issued. However, dividends and distributions on fractional shares will be credited to each Participant's account. In the event of termination of a Participant's account under the Plan, the Plan Administrator will adjust for any such undivided fractional interest in cash at the market value of the Fund's shares at the time of termination.

9. The Plan Administrator will forward to each Participant any Fund related proxy solicitation materials and each Corporation report or other communication to stockholders, and will vote any shares held by it under the Plan in accordance with the instructions set forth on proxies returned by Participants to the Fund.

10. In the event that the Fund makes available to its stockholders rights to purchase additional shares or other securities, the shares held by the Plan Administrator for each Participant under the Plan will be added to any other shares held by the Participant in certificated form in calculating the number of rights to be issued to the Participant.

11. The Plan Administrator's service fee, if any, and expenses for administering the Plan will be paid for by the Fund.

12. Each Participant may terminate his or its account under the Plan by so notifying the Plan Administrator via the Plan Administrator's website at [www.amstock.com](http://www.amstock.com), by filling out the transaction request form located at the bottom of the Participant's Statement and sending it to American Stock Transfer and Trust Company, P.O. Box 922, Wall Street Station, New York, NY 10269-0560 or by calling the Plan Administrator at (888) 888-0317. Such termination will be effective immediately. The Plan may be terminated by the Fund upon notice in writing mailed to each Participant at least 30 days prior to any record date for the payment of any dividend or distribution by the Fund. Upon any termination, the Plan Administrator will cause a certificate or certificates to be issued for the full shares held for the Participant under the Plan and a cash adjustment for any fractional share to be delivered to the Participant without charge to the Participant. If a Participant elects by his or its written notice to the Plan Administrator in advance of termination to have the Plan Administrator sell part or all of his or its shares and remit the proceeds to the Participant, the Plan Administrator is authorized to deduct a \$15.00 transaction fee plus a \$0.10 per share brokerage commission from the proceeds.

13. These terms and conditions may be amended or supplemented by the Fund at any time but, except when necessary or appropriate to comply with applicable law or the rules or policies of the Securities and Exchange Commission or any other regulatory authority, only by mailing to each Participant appropriate written notice at least 30 days prior to the effective date thereof. The amendment or supplement shall be deemed to be accepted by each Participant unless, prior to the effective date thereof, the Plan Administrator receives written notice of the termination of his or its account under the Plan. Any such amendment may include an appointment by the Plan Administrator in its place and stead of a successor agent under these terms and conditions, with full power and authority to perform all or any of the acts to be performed by the Plan Administrator under these terms and conditions. Upon any such appointment of any agent for the purpose of receiving dividends and distributions, the Fund will be authorized to pay to such successor agent, for each Participant's account, all dividends and distributions payable on shares of the Fund held in the Participant's name or under the Plan for retention or application by such successor agent as provided in these terms and conditions.



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**KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.**

**DIVIDEND REINVESTMENT PLAN**

**(UNAUDITED)**

14. The Plan Administrator will at all times act in good faith and use its best efforts within reasonable limits to ensure its full and timely performance of all services to be performed by it under this Plan and to comply with applicable law, but assumes no responsibility and shall not be liable for loss or damage due to errors unless such error is caused by the Plan Administrator's negligence, bad faith, or willful misconduct or that of its employees or agents.

15. These terms and conditions shall be governed by the laws of the State of Maryland.

Adopted: November 18, 2010

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**KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.**

**PROXY VOTING AND PORTFOLIO HOLDINGS INFORMATION**

**(UNAUDITED)**

The policies and procedures that the Fund uses to determine how to vote proxies relating to its portfolio securities are available:

without charge, upon request, by calling (877) 657-3863/MLP-FUND;

on the Fund's website, <http://www.kaynefunds.com>; and

on the SEC's website, <http://www.sec.gov>.

Information regarding how the Fund voted proxies relating to portfolio securities during the most recent 12-month period ended June 30 is available without charge, upon request, by calling (877) 657-3863/MLP-FUND, and on the SEC's website at <http://www.sec.gov> (see Form N-PX).

The Fund files a complete schedule of its portfolio holdings for the first and third quarters of each of its fiscal years with the SEC on Form N-Q and Form N-30B-2. The Fund's Form N-Q and Form N-30B-2 are available on the SEC's website at <http://www.sec.gov> and may be reviewed and copied at the SEC's Public Reference Room in Washington, DC. Information on the operation of the SEC's Public Reference Room may be obtained by calling 1-800-SEC-0330. The Fund also makes its Form N-Q and Form N-30B-2 available on its website at <http://www.kaynefunds.com>.

**REPURCHASE DISCLOSURE**

**(UNAUDITED)**

Notice is hereby given in accordance with Section 23(c) of the 1940 Act, that the Fund may from time to time purchase shares of its common and preferred stock and its Notes in the open market or in a privately negotiated transactions.

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**KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.**

**RESULTS OF ANNUAL MEETING OF STOCKHOLDERS**

**(UNAUDITED)**

On June 26, 2014, the Fund held its annual meeting of stockholders where the following matters were approved by stockholders. As of the record date of May 7, 2014 (the Record Date), the Fund had 22,100,640 outstanding shares of common stock and 4,200,000 outstanding shares of mandatory redeemable preferred stock, each of which was entitled to cast one vote. Represented in person or by proxy at this meeting were a total of 23,764,403 shares of common stock and mandatory redeemable preferred stock, constituting a quorum.

- (i) The election of Kevin S. McCarthy as Class I director; to serve for a term of three years until the Fund's 2017 annual meeting of stockholders and until his successor is duly elected and qualified.

The election of Mr. McCarthy required the affirmative vote of the holders of a majority of shares of the Fund's common stock and mandatory redeemable preferred stock outstanding as of the Record Date, voting together as a single class. On this matter, 23,506,689 shares were cast in favor, 120,578 shares were cast against, and 137,136 shares withheld authority in the election of Mr. McCarthy.

As a result of the vote on this matter, Mr. McCarthy was elected to serve as a director of the Fund for a three-year term.

Barry R. Pearl and William L. Thacker continued as directors with terms expiring on the date of the Fund's 2015 annual meeting of stockholders; Albert L. Richey and William R. Cordes continued as directors with terms expiring on the date of the Fund's 2016 annual meeting of stockholders.

- (ii) The ratification of PricewaterhouseCoopers LLP as the Fund's independent registered public accounting firm for the fiscal year ending November 30, 2014.

Approval of this proposal required the affirmative vote of a majority of the votes cast by the holders of the Fund's common stock and mandatory redeemable preferred stock outstanding as of the Record Date, voting together as a single class. For purposes of this proposal, each share of common stock and each share of mandatory redeemable preferred stock is entitled to one vote. For purposes of the vote on this proposal, abstentions and broker non-votes will not be counted as votes cast and will have no effect on the result of the vote.

On this matter, 23,545,636 shares were cast in favor, 140,936 shares were cast against, 77,831 shares abstained, and there were no broker non-votes.

As a result of the vote on this matter, the proposal was approved.

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**Directors and Corporate Officers**

Kevin S. McCarthy	Chairman of the Board of Directors, President and Chief Executive Officer
William R. Cordes	Director
Barry R. Pearl	Director
Albert L. Richey	Director
William L. Thacker	Director
Terry A. Hart	Chief Financial Officer and Treasurer
David J. Shladovsky	Secretary
Michael O Neil	Chief Compliance Officer
J.C. Frey	Executive Vice President, Assistant Secretary and Assistant Treasurer
James C. Baker	Executive Vice President
Ron M. Logan, Jr.	Senior Vice President
Jody C. Meraz	Vice President

**Investment Adviser**

KA Fund Advisors, LLC  
811 Main Street, 14th Floor  
Houston, TX 77002

1800 Avenue of the Stars, Third Floor  
Los Angeles, CA 90067

**Administrator**

Ultimus Fund Solutions, LLC  
225 Pictoria Drive, Suite 450  
Cincinnati, OH 45246

**Stock Transfer Agent and Registrar**

American Stock Transfer & Trust Company, LLC  
6201 15th Avenue  
Brooklyn, NY 11219

(888) 888-0317

**Custodian**

JPMorgan Chase Bank, N.A.  
14201 North Dallas Parkway, Second Floor  
Dallas, TX 75254

**Independent Registered Public Accounting Firm**

PricewaterhouseCoopers LLP  
601 S. Figueroa Street, Suite 900  
Los Angeles, CA 90017

**Legal Counsel**

Paul Hastings LLP  
55 Second Street, 24th Floor  
San Francisco, CA 94105

Please visit us on the web at <http://www.kaynefunds.com> or call us toll-free at 1-877-657-3863.

This report, including the financial statements herein, is made available to stockholders of the Fund for their information. It is not a prospectus, circular or representation intended for use in the purchase or sale of shares of the Fund or of any securities mentioned in this report.

**Table of Contents****Item 2. Code of Ethics.**

Not applicable.

**Item 3. Audit Committee Financial Expert.**

Not applicable.

**Item 4. Principal Accountant Fees and Services.**

Not applicable.

**Item 5. Audit Committee of Listed Registrants.**

Not applicable.

**Item 6. Investments.**

(a) Please see the schedule of investments contained in the Report to Stockholders included under Item 1 of this Form N-CSR.

(b) Not applicable.

**Item 7. Disclosure of Proxy Voting Policies and Procedures for Closed-End Management Investment Companies.**

Not applicable.

**Item 8. Portfolio Managers of Closed-End Management Investment Companies.**

Not applicable.

**Item 9. Purchases of Equity Securities by Closed-End Management Investment Company and Affiliated Purchasers.**

## REGISTRANT PURCHASES OF EQUITY SECURITIES

Period	(a) Total Number of Shares Purchased	(b) Average Price Paid per Share	(c) Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs*	(d) Maximum Number (or Approximate Dollar Value) of Shares that May Yet Be Purchased Under the Plans or Programs*
December 1 through December 31, 2013				
January 1 through January 31, 2014				
February 1 through February 28, 2014				
March 1 through March 31, 2014				
April 1 through April 30, 2014	23,250	\$ 35.18	23,250	\$ 19,181,959
May 1 through May 31, 2014	210,950	\$ 36.54	210,950	\$ 11,473,532
<b>Total</b>	<b>234,200</b>	<b>\$ 36.41</b>	<b>234,200</b>	<b>\$ 11,473,532</b>

\* The Registrant's stock repurchase program (the Repurchase Program) was announced on April 15, 2014. Under the Repurchase Program, the Registrant may purchase, in open market transactions, up to \$20 million of shares of its outstanding common stock, if and when such shares are trading at a discount of at least 8% to NAV per share. The Repurchase Program will continue until the earlier of (i) the repurchase of \$20 million of common stock or (ii) September 30, 2014.

**Item 10. Submission of Matters to a Vote of Security Holders.**

None.

**Item 11. Controls and Procedures.**

(a) The Registrant's principal executive and principal financial officers have evaluated the Registrant's disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940, as amended (the 1940 Act)) as of a date within 90 days of this filing and have concluded that the Registrant's disclosure controls and procedures are effective, as of such date, based on the evaluation of these controls and procedures required by Rule 30a-3(b) under the 1940 Act and Rule 13a-15(b) under the Securities Exchange Act of 1934, as amended.

(b) There were no changes in the Registrant's internal control over financial reporting (as defined in Rule 30a-3(d) under the 1940 Act) that occurred during the second fiscal quarter of the period covered by this report that have materially affected, or are reasonably likely to materially affect, the Registrant's internal control over financial reporting.

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**Item 12. Exhibits.**

(a)(1) Not applicable to semi-annual reports.

(a)(2) Separate certifications of Principal Executive Officer and Principal Financial Officer of the Registrant pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 attached hereto as EX-99.CERT.

(b) Certification of Principal Executive Officer and Principal Financial Officer of the Registrant pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 attached hereto as EX-99.906 CERT.

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**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

KAYNE ANDERSON MIDSTREAM/ENERGY  
FUND, INC.

Date: July 30, 2014

By: /s/ KEVIN S. McCARTHY  
Kevin S. McCarthy  
Chairman of the Board of Directors,  
President and Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the Registrant and in the capacities and on the dates indicated.

Date: July 30, 2014

By: /s/ KEVIN S. McCARTHY  
Kevin S. McCarthy  
Chairman of the Board of Directors,  
President and Chief Executive Officer

Date: July 30, 2014

By: /s/ TERRY A. HART  
Terry A. Hart  
Chief Financial Officer and Treasurer



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**Exhibit Index**

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