#### Active Core Fixed Income Manager Search Recommendation

Commonwealth of Pennsylvania State Employees' Retirement System

Prepared for: SERS Investment Committee

Date: July 22, 2025



#### **Search Summary**

- Investment Staff and RVK evaluated 246 Active Core Fixed Income strategies
- Investment Staff and RVK selected six managers for further due diligence
- Staff and RVK recommend that the Board hire three managers and allocate \$500 million to each manager. The managers and strategies selected include:
  - 1. NISA Core Broad Market Fixed Income
  - 2. Loomis, Sayles Core Fixed Income
  - 3. J.P. Morgan Core Bond
- All three managers have a proven track record of delivering strong risk-adjusted returns on a consistent basis at very competitive low fees



# **Active Core Fixed Income Manager Recommendations**

	NISA	Loomis Sayles	J.P. Morgan
Key Strengths:	Strong Risk-Adjusted Returns	Strong Risk-Adjusted Returns	Strong Risk-Adjusted Returns
	Consistent Outperformance	Consistent Outperformance	Consistent Outperformance
	Risk-Controlled, Diversified	Strong Excess Returns	Strong Excess Returns
	Duration Neutral	Duration Neutral	Uncorrelated Excess Returns
	Low Tracking Error	Strong Research Process	Strong Downside Capture
	Experienced Team	Experienced Team	Experienced Team
	Credit Research Capabilities	Credit Research Capabilities	Credit Research Capabilities
Product AUM (\$B)	\$33.8	\$25.9	\$101.6
Excess Return Objective:	40-60 bps over market cycle	50-100 bps over market cycle	50-100 bps over market cycle
Fee Rank	SERS negotiated fe	es are very low and rank near the	top decile versus peers

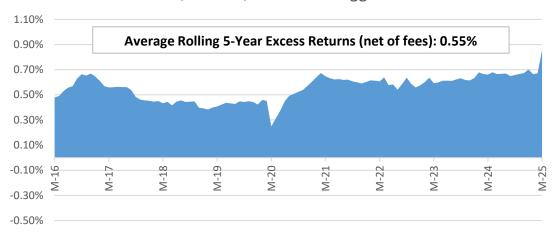


#### **Strong Outperformance Versus Benchmark**

 As a <u>combination</u> and individually, NISA, Loomis, and JPM demonstrate a strong track record of consistent outperformance against the Bloomberg U.S. Aggregate Index (net of fees)

	Rolling 5-Year Returns (net of fees)											
	3/31/2025 3/31/2024 3/31/2023 3/31/2022 3/31/2021 3/31/2020 3/31/2019 3/31/2018 3/31/2017 3/31/2											
NISA, Loomis, JPM	0.46%	1.02%	1.50%	2.75%	3.75%	3.61%	3.15%	2.26%	2.90%	4.26%		
Bloomberg U.S. Agg Index	-0.40%	0.36%	0.91%	2.14%	3.10%	3.36%	2.74%	1.82%	2.34%	3.78%		
Annualized Excess Returns (net of fees)	0.86%	0.66%	0.59%	0.61%	0.65%	0.25%	0.41%	0.43%	0.56%	0.48%		

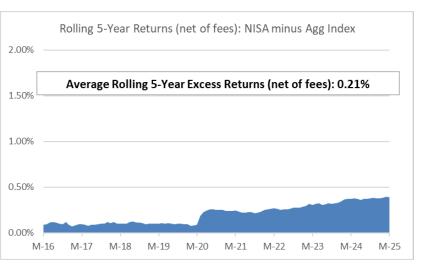
Rolling 5-Year Returns (net of fees): NISA, Loomis, JPM minus Agg Index

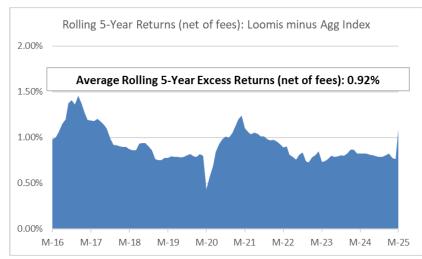


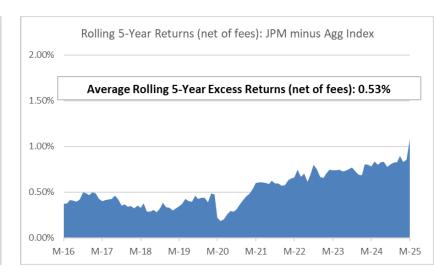


#### **Strong Outperformance Versus Benchmark**

 As a combination and <u>individually</u>, NISA, Loomis, and JPM demonstrate a strong track record of consistent outperformance against the Bloomberg U.S. Aggregate Index (net of fees)







#### Strong Risk-Adjusted Returns

- Information Ratio is a measure of the value added per unit of active risk by a manager over an index (i.e., are you getting paid for the risk the manager is taking?)
  - A positive Information Ratio would indicate effective risk management by a manager; the higher the better

    Information Ratio = 

    | Portfolio Return Benchmark Return | Portfolio Tracking Error

 As a combination and individually, NISA, Loomis, and JPM achieve high Information Ratios

		Rolling 5-Year Information Ratio										
	3/31/2025	3/31/2024	3/31/2023	3/31/2022	3/31/2021	3/31/2020	3/31/2019	3/31/2018	3/31/2017	3/31/2016		
NISA, Loomis, JPM	2.13	1.23	1.13	1.35	1.42	0.81	2.83	2.87	2.96	1.91		

Average Rolling 5-Year Information Ratio: 1.86



#### **Consistent Outperformance Versus Benchmark**

- Batting Average is a measure of the frequency of success
  - Calculated by taking the number of months in the period where the combination outperformed the Bloomberg U.S. Agg Index (net of fees) divided by the total number of months
  - Measures frequency of success without regard to degree of outperformance
- As the table demonstrates below, the combination of NISA, Loomis, and JPM has achieved consistent monthly outperformance (net of fees)

		Rolling 5-Year Batting Average (net of fees)									
	3/31/2025	3/31/2024	3/31/2023	3/31/2022	3/31/2021	3/31/2020	3/31/2019	3/31/2018	3/31/2017	3/31/2016	
NISA, Loomis, JPM	85%	82%	80%	85%	85%	77%	77%	77%	80%	73%	

Average Rolling 5-Year Batting Average (net of fees): 80%



#### Good Downside Market Capture and Upside Market Capture

- Downside Market Capture measures how well an investment manager performs relative to a benchmark during periods of market decline
  - A ratio under 100% means the portfolio lost less than the benchmark
  - The combination of NISA, Loomis, and JPM has historically provided good downside protection

	Rolling 5-Year Downside Market Capture Ratio										
	3/31/2025	3/31/2024	3/31/2023	3/31/2022	3/31/2021	3/31/2020	3/31/2019	3/31/2018	3/31/2017	3/31/2016	
NISA, Loomis, JPM	93%	96%	96%	98%	99%	100%	91%	92%	91%	90%	

Average Rolling 5-Year Downside Market Capture Ratio: 95%

- Upside Market Capture measures how well an investment manager performs relative to a benchmark during periods of market growth
  - A ratio above 100% means the portfolio gained more than the benchmark
  - The combination of NISA, Loomis, and JPM has historically provided good upside market capture

		Rolling 5-Year Upside Market Capture Ratio											
	3/31/2025	3/31/2024	3/31/2023	3/31/2022	3/31/2021	3/31/2020	3/31/2019	3/31/2018	3/31/2017	3/31/2016			
NISA, Loomis, JPM	105%	106%	106%	111%	112%	106%	106%	106%	109%	106%			

Average Rolling 5-Year Upside Market Capture Ratio: 107%



#### **Next Steps**

- Investment Committee to recommend that the Board hire NISA, Loomis, and JPM
- Funding will be from the Mellon U.S. Aggregate Bond Index and Cash
- Investment staff may use a transition manager to efficiently fund these strategies



#### **Appendix**

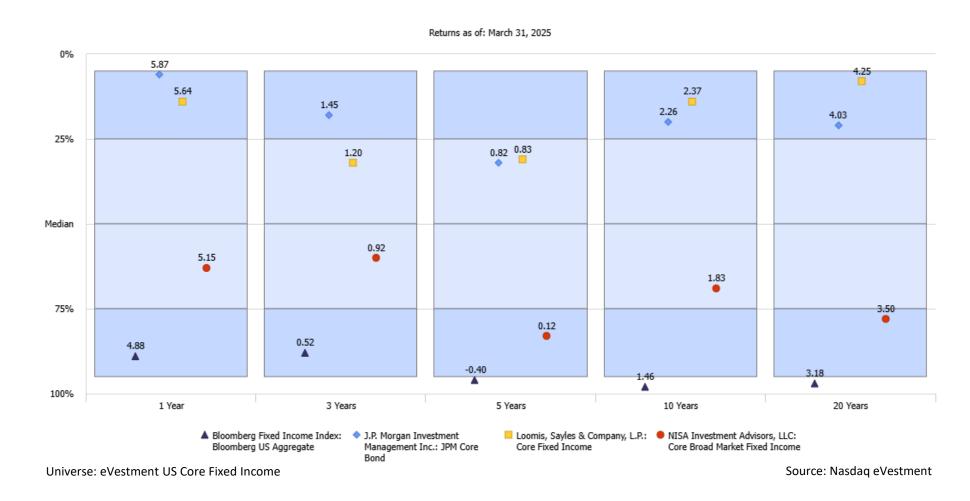
- All charts in Appendix were produced through Nasdaq eVestment

eVestment Alliance, LLC and its affiliated entities(collectively "Nasdaq eVestment") collect information directly from investment management firms and other sources believed to be reliable, however, Nasdaq eVestment does not guarantee or warrant the accuracy, timeliness, or completeness of the information provided and is not responsible for any errors or omissions. Performance results may be provided with additional disclosures available on Nasdaq eVestment's systems and other important considerations such as fees that may be applicable. Not for general distribution and limited distribution may only be made pursuant to client's agreement terms. \* All categories not necessarily included, Totals may not equal 100%. Copyright © Nasdaq. All Rights Reserved.



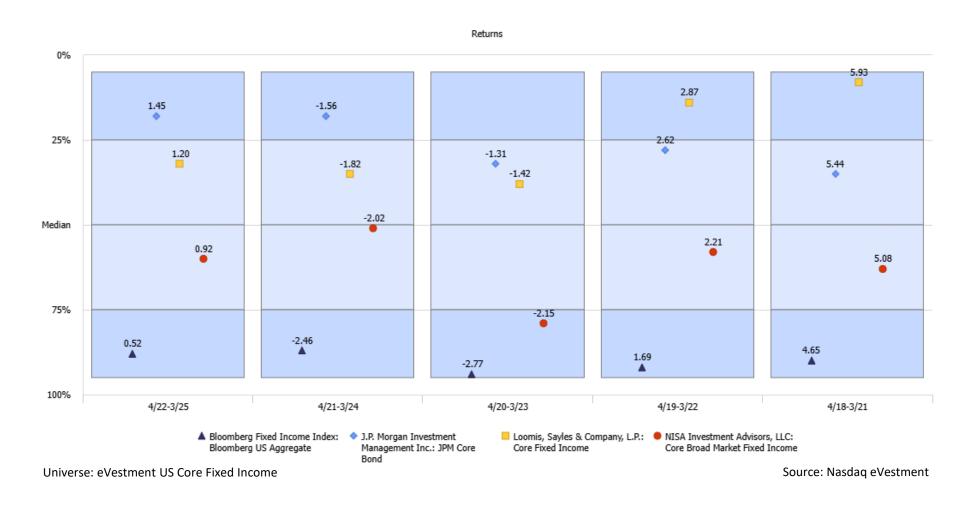


# Trailing Period Performance vs Peers (3/31/2025)



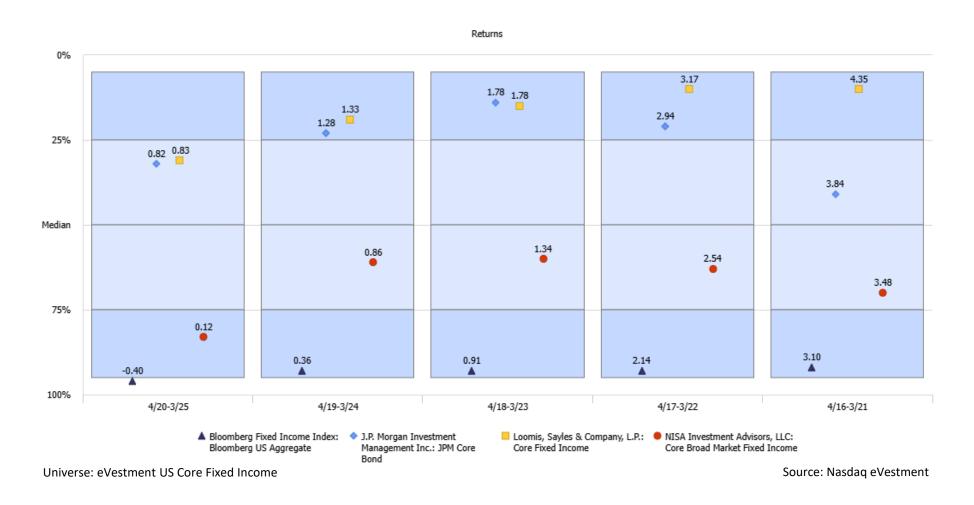


## Rolling 3-Year Performance vs Peers (3/31/2025)





## Rolling 5-Year Performance vs Peers (3/31/2025)

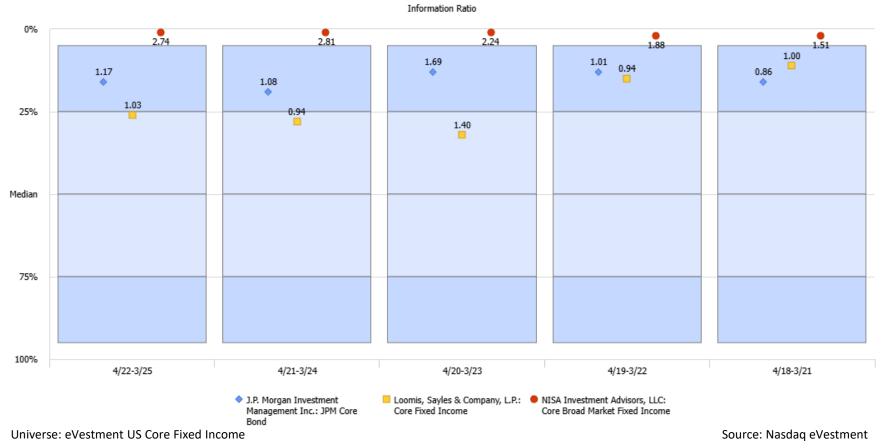




# Rolling 3-Year Information Ratio vs Peers (3/31/2025)

- Information Ratio is a measure of the value added per unit of active risk by a manager over an index (i.e., are you getting paid for the risk the manager is taking?)
  - A positive Information Ratio would indicate efficient use of risk by a manager; the higher the better

Information Ratio = Portfolio Return – Benchmark Return
Tracking Error



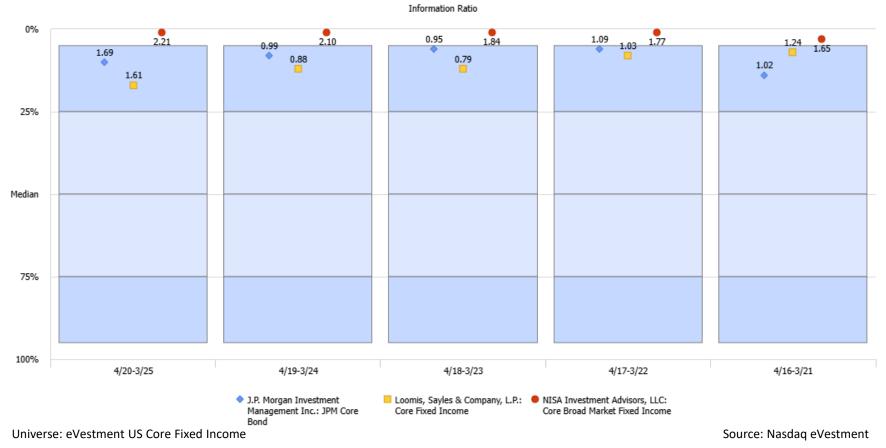


## Rolling 5-Year Information Ratio vs Peers (3/31/2025)

 Information Ratio is a measure of the value added per unit of active risk by a manager over an index (i.e., are you getting paid for the risk the manager is taking?)

A positive Information Ratio would indicate efficient use of risk by a manager; the higher the better

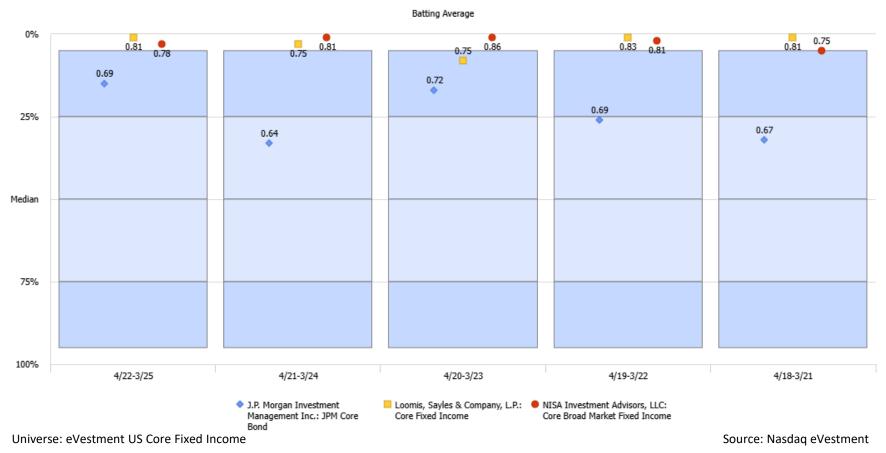
Information Ratio = Portfolio Return – Benchmark Return
Tracking Error





### Rolling 3-Year Batting Average vs Peers (3/31/2025)

- Batting Average is a measure of the frequency of success
  - Calculated by taking the number of months in the period where the combination outperformed the Bloomberg U.S. Agg Index divided by the total number of months
  - Measures frequency of success without regard to degree of outperformance





# Rolling 5-Year Batting Average vs Peers (3/31/2025)

- Batting Average is a measure of the frequency of success
  - Calculated by taking the number of months in the period where the combination outperformed the Bloomberg U.S. Agg Index divided by the total number of months
  - Measures frequency of success without regard to degree of outperformance





## Rolling 3-Year Downside Market Capture vs Peers (3/31/2025)

- Downside Market Capture measures how well an investment manager performs relative to a benchmark during periods of market decline
  - A ratio under 100% means the portfolio lost less than the benchmark





### Rolling 5-Year Downside Market Capture vs Peers (3/31/2025)

- Downside Market Capture measures how well an investment manager performs relative to a benchmark during periods of market decline
  - A ratio under 100% means the portfolio lost less than the benchmark





## Rolling 3-Year Upside Market Capture vs Peers (3/31/2025)

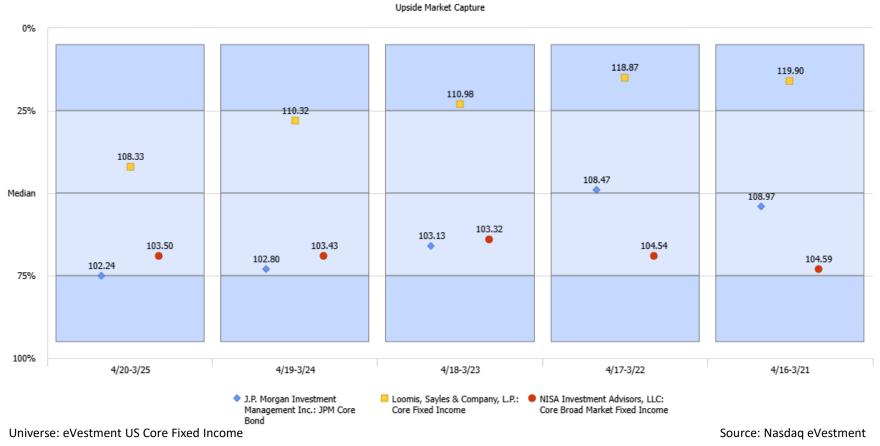
- Upside Market Capture measures how well an investment manager performs relative to a benchmark during periods of market growth
  - A ratio above 100% means the portfolio gained more than the benchmark





## Rolling 5-Year Upside Market Capture vs Peers (3/31/2025)

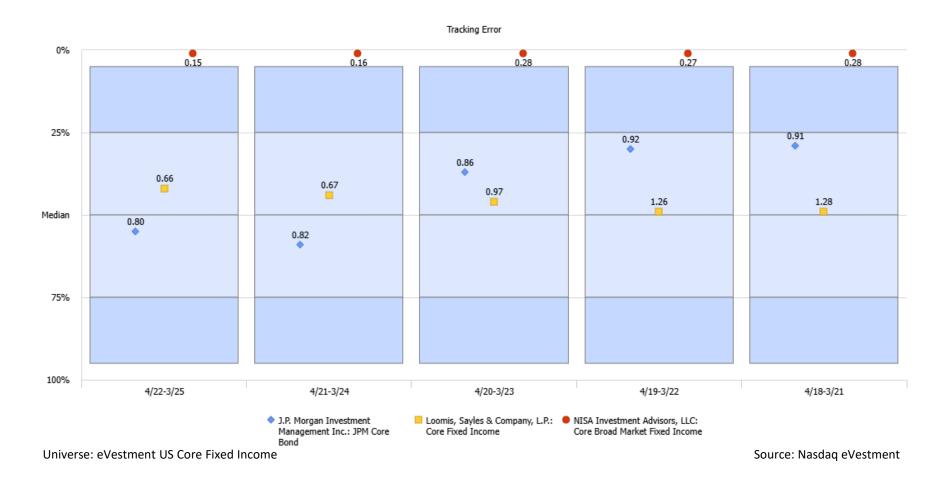
- Upside Market Capture measures how well an investment manager performs relative to a benchmark during periods of market growth
  - A ratio above 100% means the portfolio gained more than the benchmark





## Rolling 3-Year Tracking Error vs Peers (3/31/2025)

Tracking error measures the amount of active risk that is being taken by a manager relative to its benchmark





## Rolling 5-Year Tracking Error vs Peers (3/31/2025)

Tracking error measures the amount of active risk that is being taken by a manager relative to its benchmark

