

DUKES COUNTY CONTRIBUTORY RETIREMENT SYSTEM

FINANCIAL REPORTING AND DISCLOSURES Governmental Accounting Standards Board Statements 67 and 68

Disclosures as of December 31, 2023

> KMS Actuaries, LLC 52 Hunt Road Kingston, NH 03848

> > June, 2024





June 7, 2024

Dukes County Contributory Retirement Board 9 Airport Road Dukes County Contributory Retirement System Suite 1 Vineyard Haven, MA 02568

Dear Board Members:

We are pleased to present the enclosed report providing financial reporting and disclosures under Governmental Accounting Standards Board (GASB) Statement No. 67, Financial Reporting for Pension Plans (GASB 67), and GASB Statement No. 68, Accounting and Financial Reporting for Pensions (GASB 68) for the Dukes County Contributory Retirement System and participating employers as of December 31, 2023. Results are based on liabilities developed in an actuarial valuation performed as of January 1, 2022 and rolled forward to the plan's measurement date of December 31, 2023.

The Principal Valuation Results are provided in Section 1. The Notes to the Financial Statements and the Required Supplementary Information are provided in Sections 2 and 3, respectively. Employer Reporting Amounts Under GASB 68 are provided in Section 4. Finally, a Glossary of Terms is provided in Section 5.

The financial reporting and disclosures contained in this report are based on the member data provided by the Dukes County Retirement Board, asset information reported to the Public Employee Retirement Administration Commission (PERAC) by the Retirement Board and plan provisions contained in Chapter 32 of the Massachusetts General Laws. Although we did not audit the data used in the valuation and disclosure calculations, we believe that the information is complete and reliable.

Liabilities presented in this report are based on a long-term investment return assumption of 7%, net of investment expense, compounded annually.

This report was completed in accordance with generally accepted actuarial standards and procedures, and conforms to the Code of Professional Conduct of the American Academy of Actuaries. The actuarial assumptions used in the determination of costs are reasonably related to the experience of the System and to reasonable expectations, and represent our best estimate of anticipated long-term experience under the System.

Dukes County Contributory Retirement Board June 7, 2024 Page 2

Future actuarial valuation results may differ significantly from the current results presented in this report. Examples of potential sources of volatility include plan experience differing from that anticipated by the economic or demographic assumptions, the effect of new entrants, changes in economic or demographic assumptions, the effect of law changes and the delayed effect of smoothing techniques. The potential range of future measurements was not assessed as it was outside the scope of the project.

Our valuation follows generally accepted actuarial methods and we perform such tests as we consider necessary to assure the accuracy of the results. The amounts presented in this report have been appropriately determined according to the actuarial assumptions and methods stated herein.

This report is intended for the sole use of the Dukes County Retirement Board and may only be provided to other parties in its entirety, unless expressly authorized by KMS Actuaries. Further, it is intended to provide information to comply with the stated purpose of the report. It may not be appropriate for other purposes.

KMS Actuaries is completely independent of the Dukes County Retirement System and any of its officers or key personnel. None of the actuaries signing this report or anyone closely associated with them has a relationship with the Dukes County Retirement System, other than as consulting actuary for this assignment, that would impair our independence.

The undersigned credentialed actuaries agree that the analysis, assumptions and results are overall reasonable. They are Members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries necessary to render the actuarial opinion contained herein. They are available to answer any questions with regard to this report.

Respectfully submitted,

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EXECUTIVE SUMMARY

GASB 67 and GASB 68

In June 2012, the GASB approved two related Statements that significantly changed the way pension plans and governments account and report pension liabilities. Effective for plans with fiscal years beginning after June 15, 2013, GASB Statement No. 67, Financial Reporting for Pension Plans, replaced the requirements of Statement No. 25 and effective for employers with fiscal years beginning after June 15, 2014, GASB Statement No. 68, Accounting and Financial Reporting for Pensions, replaced the requirements of Statement No. 27.

The pension standards reflect changes from those previously in place regarding how governments calculate total pension liability and pension expense. Further, the standards contain requirements for disclosing information in the notes to financial statements and presenting required supplementary information following the notes.

GASB 67 requires defined benefit pension plans, such as the Dukes County Retirement System, to present a statement of fiduciary net position (pension plan assets) and a statement of changes in fiduciary net position. Further, the statement requires that notes to financial statements include descriptive information such as the types of benefits provided, the classes of plan members covered and the composition of the pension plan's retirement board. Finally, GASB 67 requires pension plans to present in required supplementary information the sources of the changes in the net pension liability and information about the actuarially determined contributions compared with the actual contributions made to the plan and related ratios.

GASB 67 and GASB 68 require projected benefit payments be discounted to their actuarial present value using the single rate that reflects a long-term expected rate of return on pension plan investments to the extent that the pension plan's assets are sufficient to pay benefits and pension plan assets are expected to be invested using a strategy to achieve that return and a tax-exempt, high-quality municipal bond rate to the extent that the conditions for use of the long-term expected rate of return are not met.

GASB 68 establishes standards for measuring and recognizing liabilities, deferred outflows of resources, deferred inflows of resources and pension expense by state and local governments.

The effective date for GASB 67 is for plan years beginning after June 15, 2013, which is the fiscal year ending December 31, 2014 for the Dukes County Retirement System. The effective date for GASB 68 is for employers' fiscal years beginning after June 15, 2014. The disclosures prepared as of December 31, 2023 (the measurement date) presents information to assist the Dukes County Retirement Board in providing the required information under GASB 68 to participating employers.

GASB Statement No. 73, Accounting and Financial Reporting for Pensions and Related Assets That Are Not within the Scope of GASB Statement 68, and Amendments to Certain Provisions of GASB Statements 67 and 68, clarifies the application of certain provisions of Statements 67 and 68 with regard to the following issues:

- (1) Information about investment-related factors that significantly affect trends in the amounts reported for GASB 67 and GASB 68 should be limited to those factors over which the pension plan or participating governments have influence (such as an investment policy) and
- (2) The contribution-related schedules in the RSI should exclude amounts associated with payables to the pension plan that arose in a prior fiscal year.

GASB Statement No. 82, *Pension Issues - An Amendment of GASB Statements No.* 67, *No.* 68, *and No.* 73, clarifies the definition of covered payroll, that a deviation from the Actuarial Standards of Practice with respect to selection of assumptions is not considered to be in conformity with GASB 67, GASB 68 and GASB 73, and that employer-paid member contributions are to be classified as plan member contributions.

EXECUTIVE SUMMARY

A summary of principal results from the current disclosures and prior disclosures follows.

Disclosure Date	December 31, 2023	December 31, 2022	% Change
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Valuation Date	January 1, 2022	January 1, 2022	
Membership Data			
Active Plan Members	676	675	0.1%
Inactive Members Currently in Receipt	440	419	5.0%
Inactive Members Deferred	307	316	(2.8%)
Total Plan Members	1,423	1,410	0.9%
Covered Payroll	\$47,600,686	\$42,306,728	12.5%
Net Pension Liability			
Discount Rate	7.00%	7.00%	
Total Pension Liability (TPL)	\$279,111,827	\$265,867,549	5.0%
Fiduciary Net Position (FNP)	236,373,262	210,614,627	12.2%
Net Pension Liability (NPL)	\$42,738,565	\$55,252,922	(22.6%)
FNP as % of TPL	84.7%	79.2%	6.9%
Pension Expense			
Pension Expense	\$9,505,972	\$10,993,989	
Deferred Outflows	\$17,643,973	\$31,445,708	
Deferred Inflows	\$1,546,529	\$2,095,247	
Recognition Period	5.10	5.10	

EXECUTIVE SUMMARY

Fiduciary Net Position

Pension plan investments are reported at market value as of the measurement date. The fiduciary net position as of the current and prior measurement dates are shown in Section 1, Fiduciary Net Position.

Total Pension Liability

The Total Pension Liability is based on liabilities developed in an actuarial valuation performed as of January 1, 2022 and rolled forward to the plan's measurement date of December 31, 2023 and is shown in Section 1, Total Pension Liability.

Benefit Changes

Effective July 1, 2023, the COLA base increased from \$14,000 to \$15,000. The impact of the increase from \$14,000 to \$15,000 was an increase in the Total Pension Liability of \$1,311,981. All other benefit provisions are the same as the prior measurement. The Plan provisions used in these disclosures are detailed in Section 5, Summary of Plan Provisions, in the most recent funding actuarial report.

Assumption Changes

All of the Actuarial Assumptions and Methods used in these disclosures are the same as the last measurement date. The Actuarial Assumptions and Methods used in these disclosures are detailed in Section 6, Actuarial Assumptions and Methods, in the most recent funding valuation report.

Pension Expense

The Pension Expense for the fiscal year ending December 31, 2023 is \$9,505,972 and is developed in Exhibit 4.2. Pension Expense, as well as the Net Pension Liability and Deferred Outflows of Resources and Deferred Inflows of Resources, are developed for each member unit and are shown in Appendix C. Amounts by employer are developed using a proportionate share, the proportion of each employer's total pension liability to the total pension liability for all employers, as shown in Exhibit 4.3.

5% Local COLA Option

On November 16, 2022, Governor Baker signed Chapter 269 of the Acts of 2022 into law. This act provides the local retirement systems with the option to increase the Cost of Living Adjustment ("COLA") for Fiscal Year 2023 to up to 5 percent on the base amount specified pursuant to G.L. c. 32, § 103. The approval of the increase must occur prior to July 1, 2023 and will take effect as of July 1, 2022.

The Retirement Board Advisory Council approved the additional COLA on April 13, 2023, therefore the increased benefits are included in the measurement of the Total Pension Liability reported by the Plan at December 31, 2023. The impact of the additional COLA was an increase in the Total Pension Liability of \$1,014,893.

SECTION 1 - PRINCIPAL VALUATION RESULTS

Fiduciary Net Position

Asset information was provided by the Dukes County Retirement Board. The Trust Fund Composition, Asset Activity and the Gain or Loss on Pension Plan Investments for the current and prior fiscal years are as follows:

Fiscal Year Ended December 31

2023

2022

Trust Fund Composition at Fiscal Year-End					
Cash	\$	6,738,032	\$	5,670,308	
Individually Owned Short Term Investments		0		0	
Fixed Income Securities		19,669,873		18,653,187	
Equities (at market value)		64,795,245		54,680,920	
Pooled Short Term Funds		0		0	
Pooled Domestic Equity Funds		21,796,923		18,173,538	
Pooled International Equity Funds		10,884,940		9,271,444	
Pooled Global Equity Funds		0		0	
Pooled Domestic Fixed Income Funds		0		0	
Pooled International Fixed Income Funds		0		0	
Pooled Global Fixed Income Funds		0		0	
Pooled Alternative/Private Equity		1,071,286		970,333	
Pooled Real Estate Funds		20,429,556		21,790,252	
Pooled Domestic Balanced Funds		0		0	
Pooled International Balanced Funds		0		0	
Hedge Funds		0		0	
PRIT Cash		0		0	
PRIT Fund		90,098,008		81,099,163	
Interest Due and Accrued		177,704		21,815	
Prepaid Expenses		0		0	
Accounts Receivable (A)		816,622		496,422	
Land		0		0	
Buildings		0		0	
Accumulated Depreciation - Buildings		0		0	
Accounts Payable (A)		(104,927)		(212,755)	
Auditor or Other Adjustments		0		0	
Total Market Value of Assets	\$	236,373,262	\$	210,614,627	

SECTION 1 - PRINCIPAL VALUATION RESULTS

Fiduciary Net Position

Asset Activity				
\$	210,614,627	\$	247,403,411	
	8,767,312		8,376,456	
	5,069,935		4,605,500	
	27,908,532		(35,415,593)	
	(15,419,603)		(13,887,660)	
	(567,541)		(467,487)	
	0		0	
\$	236,373,262	\$	210,614,627	
	13.40%		-14.36%	
	\$	\$ 210,614,627 8,767,312 5,069,935 27,908,532 (15,419,603) (567,541) 0	\$ 210,614,627 \$ 8,767,312 5,069,935 27,908,532 (15,419,603) (567,541) 0 \$ 236,373,262 \$	

(Gain) / Loss on Pension Plan Investments				
Projected earnings	\$	14,586,651	\$	17,203,158
Actual earnings		27,908,532		(35,415,593)
(Gain) / Loss on pension plan investments	\$	(13,321,881)	\$	52,618,751

SECTION 1 - PRINCIPAL VALUATION RESULTS

Total Pension Liability

The Total Pension Liability, developed using the Entry Age Normal funding method, is the portion of the actuarial present value of projected benefit payments that is attributed to past periods of member service. The total pension liability as of the December 31, 2023 measurement date was developed from an actuarial valuation as of January 1, 2022 and rolled forward to the pension plan's fiscal year-end.

The Service Cost is the portion of the actuarial present value of projected benefit payments that is attributed to a valuation year. Only active employees who have not reached the age at which the probability of retirement is 100% incur a service cost.

Actuarial gains and losses arise from the difference between estimates and actual experience, excluding amounts related to benefit changes and changes in assumptions or other inputs.

The development of the Total Pension Liability from the beginning of the measurement period, December 31, 2022 to the end of the measurement period, December 31, 2023 is shown below:

Measurement Date December 31, 2023

1.	Total Pension Liability, beginning of year:			
	a. Actives	\$	133,936,794	
	b. Retired and Disabled Members and Beneficiaries		128,164,215	
	c. Inactive Members		3,766,540	
	d. Total Pension Liability at 7% (a. + b. + c.)			\$ 265,867,549
2.	Service Cost			\$ 7,725,201
3.	Benefit Payments			(15,419,603)
4.	Interest [7% x (1.d. + 2. + .5 x 3)]			\$ 18,611,806
5.	Changes of benefit terms			1,311,981
6.	Differences between expected and actual experience			1,014,893
7.	Changes of assumptions or other inputs			-
8.	Total Pension Liability, end of year (1.d. + 2. + 3. + 4. + 5.	+ 6. +	7.)	
	a. Actives	\$	152,145,211	
	b. Retired and Disabled Members and Beneficiaries		122,936,418	
	c. Inactive Members		4,030,198	
	d. Total Pension Liability at 7% (a. + b. + c.)			\$ 279,111,827

Plan Description

Plan administration

The Dukes County Retirement System (the "System") is a cost-sharing, multiple-employer defined benefit pension plan that provides pensions for eligible employees of 15 participating employers. The System is a member of the Massachusetts Contributory Retirement System and is governed by Chapter 32 of the Massachusetts General Laws. The System does not have the authority to amend benefit provisions.

The System is governed by a Retirement Board made up of five elected and appointed members.

Plan membership

At December 31, 2023, pension plan membership consisted of the following:

Inactive plan members or beneficiaries currently receiving benefits	440
Inactive plan members entitled to but not yet receiving benefits	307
Active plan members	676
	1,423

Benefits provided

The System provides retirement, disability and death benefits. Retirement benefits are determined as a percentage of the member's 3-year (5-year for members hired after April 1, 2012) final average compensation times the member's years of service. The percentage is based on the age of the member at retirement and his or her Group classification. Cost-of-living adjustments of 3% of the first \$15,000 of the annual retirement allowance are provided at the discretion of the System's Retirement Board. A summary of the benefits is outlined in the January 1, 2022 actuarial valuation report.

Contributions

Plan members are required to contribute a percentage of their annual compensation that varies according to their membership date, as follows:

Prior to 1975	5% of Salary
1975 - 1983	7% of Salary
1984 - June 30, 1996	8% of Salary
July 1, 1996 - present	9% of Salary
1979 - present	An additional 2% of Salary in excess of \$30,000.
Group 1 members hired on	6% of Salary with 30 or more years of creditable service.
or after April 2, 2012	

Employer contributions are determined in accordance with the requirements set forth in Section 22D and Section 22F of Chapter 32 of the Massachusetts General Laws ("M.G.L."). The appropriation is comprised of the annual employer normal cost and amortization payments to pay the unfunded actuarial accrued liability.

Net Pension Liability

The components of the Net Pension Liability at December 31, 2023, were as follows:

Total Pension Liability	\$ 279,111,827
Fiduciary Net Position	 (236,373,262)
Net Pension Liability	\$ 42,738,565

Fiduciary Net Position as a percentage of the Total Pension Liability

84.7%

Actuarial assumptions

The Total Pension Liability was determined by an actuarial valuation as of January 1, 2022, rolled forward to the measurement date of December 31, 2023 using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation 2.4% per year

Salary increases Group 1: 6% - 4.25%, based on service

Group 4: 7% - 4.75%, based on service

Investment rate of return 7%, net of pension plan investment expense, including inflation

Mortality rates were based on the RP-2014 Blue Collar Mortality Table with full generational mortality improvement using Scale MP-2020. For disabled lives, the mortality rates were based on the RP-2014 Blue Collar Mortality Table set forward one year with full generational mortality improvement using Scale MP-2020.

Long-Term Real Rates of Return

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the pension plan's target asset allocation as of December 31, 2023 (see the discussion of the pension plan's investment policy) are summarized in the following table:

Asset Class	Target Allocation ¹	Long-Term Expected Real Rates of Return ²
Domestic Equity International Equity	40.0% 15.0%	4.40% 5.32%
Real Estate	12.5%	4.10%
Fixed Income	25.0%	2.40%
Private Equity	7.5%	7.70%
Total	100.0%	

 $^{^{\}mathrm{1}}$ Provided by Dahab Associates, Inc.

² Obtained from the 30-year PRIT asset class return assumptions.

Discount Rate

The discount rate used to measure the Total Pension Liability is 7%. The projection of cash flows used to determine the discount rate assumed that contributions from plan members will be made at the current contribution rates and that contributions from participating employers will be made in accordance with Sections 22D and 22F of Chapter 32 of the Massachusetts General Laws. Based on those assumptions, the pension plan's Fiduciary Net Position was projected to be available to make all projected benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the Total Pension Liability.

Sensitivity of the Net Pension Liability to Changes in the Discount Rate:

The following presents the Net Pension Liability calculated using the discount rate of 7%, as well as what the Net Pension Liability would be if it were calculated using a discount rate 1-percentage point lower (6%) or 1-percentage point higher (8%) than the current rate:

	Current						
	 1% Decrease (6.00%)		Discount Rate (7.00%)	1% Increase (8.00%)			
Total Pension Liability	\$ 311,187,198	\$	279,111,827	\$	252,009,205		
Fiduciary Net Position	 236,373,262		236,373,262		236,373,262		
Net Pension Liability	\$ 74,813,936	\$	42,738,565	\$	15,635,943		

Exhibit 3.1 - Changes in Net Pension Liability and Related Ratios

Fiscal Year Ended December 31	2023	2022	2021	2020	2019
	T	otal Pension Liabil	itv		
	•				
Service cost	\$ 7,725,201	\$ 7,659,996	\$ 6,752,601	\$ 6,524,252	\$ 6,154,751
Interest	18,611,806	18,013,922	17,528,122	16,172,622	15,380,505
Changes of benefit terms	1,311,981	-	-	-	-
Differences between expected and					
actual experience	1,014,893	(2,544,289)	-	6,537,458	-
Changes of assumptions Benefit payments, including refunds of	-	-	11,533,025	732,333	-
member contributions	(15,419,603)	(13,887,660)	(12,287,720)	(11,955,651)	(10,730,738)
Net change in Total Pension Liability	\$ 13,244,278	\$ 9,241,969	\$ 23,526,028	\$ 18,011,014	\$ 10,804,518
Total Pension Liability-beginning	\$ 265,867,549	\$ 256,625,580	\$ 233,099,552	\$ 215,088,538	\$ 204,284,020
Total Pension Liabilityending (a)	\$ 279,111,827	\$ 265,867,549	\$ 256,625,580	\$ 233,099,552	\$ 215,088,538
		Fiduciary Net Positio	n		
Contributionsemployer	\$ 8,767,312	\$ 8,376,456	\$ 7,895,088	\$ 7,433,339	\$ 7,012,999
Contributionsmember	5,069,935	4,605,500	4,194,860	4,510,759	4,128,998
Net investment income	27,908,532	(35,415,593)	38,821,712	23,114,489	32,252,097
Benefit payments, including refunds of		·			
member contributions	(15,419,603)	(13,887,660)	(12,287,720)	(11,955,651)	(10,730,738)
Administrative expenses	(567,541)	(467,487)	(440,657)	(433,918)	(437,670)
Other	-	-	-	-	-
Net change in Fiduciary Net Position	\$ 25,758,635	\$ (36,788,784)	\$ 38,183,283	\$ 22,669,018	\$ 32,225,686
Fiduciary Net Position-beginning	\$ 210,614,627	\$ 247,403,411	\$ 209,220,128	\$ 186,551,110	\$ 154,325,424
Fiduciary Net Positionending (b)	\$ 236,373,262	\$ 210,614,627	\$ 247,403,411	\$ 209,220,128	\$ 186,551,110
	Net Pensi	on Liability and Rela	ted Ratios		
Net Pension Liabilityending (a) (b)	\$ 42,738,565	\$ 55,252,922	\$ 9,222,169	\$ 23,879,424	\$ 28,537,428
rect choint Elability chaing (a)	Ψ 42,100,000	Ψ 00,202,022	Ψ 0,222,100	Ψ 20,010,424	Ψ 20,001,420
Fiduciary Net Position as a percentage					
of the Total Pension Liability	84.69%	79.22%	96.41%	89.76%	86.73%
,			3.1.3/0		331.370
Covered Payroll	\$ 47,600,686	\$ 42,306,728	\$ 41,995,989	\$ 40,856,737	\$ 39,841,053
Net Pension Liability as a percentage of					
Covered Payroll	89.79%	130.60%	21.96%	58.45%	71.63%

Exhibit 3.1 - Changes in Net Pension Liability and Related Ratios (continued)

Fiscal Year Ended December 31	2018	2017	2016	2015	2014				
		Total Pension Liabili	ty						
Service cost	\$ 5,627,706	\$ 5,411,256	\$ 5,415,494	\$ 5,025,980	\$ 5,025,980				
Interest	14,689,218	13,886,266	12,602,395	11,840,742	10,735,504				
Changes of benefit terms	-	-	-	-	-				
Differences between expected and actual experience	(450 350)		743,316						
Changes of assumptions	(458,358) 5,362,639	-	6,062,453	-	-				
Benefit payments, including refunds of	5,302,039	-	0,002,453	-	-				
member contributions	(9,695,545)	(8,611,039)	(7,895,706)	(6,961,135)	(6,091,562)				
Net change in Total Pension Liability	\$ 15,525,660	\$ 10,686,483	\$ 16,927,952	\$ 9,905,587	\$ 9,669,922				
Not onlying in Total I choich Elability	Ψ 10,020,000	Ψ 10,000,400	Ψ 10,021,002	Ψ 3,300,001	Ψ 3,003,322				
Total Pension Liabilitybeginning	\$ 188,758,360	\$ 178,071,877	\$ 161,143,925	\$ 151,238,338	\$ 141,568,416				
Total Pension Liability-ending (a)	\$ 204,284,020	\$ 188,758,360	\$ 178,071,877	\$ 161,143,925	\$ 151,238,338				
, 30, 7									
Fiduciary Net Position									
Contributionsemployer	\$ 6,597,440	\$ 6,283,276	\$ 5,986,402	\$ 5,777,664	\$ 5,601,553				
Contributionsmember	4,413,695	3,774,675	3,575,601	3,545,293	3,745,783				
Net investment income	(2,223,902)	22,431,243	8,990,151	4,613,029	8,571,008				
Benefit payments, including refunds of									
member contributions	(9,695,545)	(8,611,039)	(7,895,706)	(6,961,135)	(6,091,562)				
Administrative expenses	(352,373)	(439,389)	(353,615)	(323,866)	(322,018)				
Other	-	-	-	-	-				
Net change in Fiduciary Net Position	\$ (1,260,685)	\$ 23,438,766	\$ 10,302,833	\$ 6,650,985	\$ 11,504,764				
Fiduciary Net Position-beginning	\$ 155,586,109	\$ 132,147,343	\$ 121,844,510	\$ 115,193,525	\$ 103,688,761				
Fiduciary Net Position–ending (b)	\$ 154,325,424	\$ 155,586,109	\$ 132,147,343	\$ 121,844,510	\$ 115,193,525				
,									
	Net Pens	ion Liability and Rela	ited Ratios						
Net Pension Liability-ending (a) - (b)	\$ 49,958,596	\$ 33,172,251	\$ 45,924,534	\$ 39,299,415	\$ 36,044,813				
Fiduciary Net Position as a percentage									
of the Total Pension Liability	75.54%	82.43%	74.21%	75.61%	76.17%				
Covered Payroll	\$ 37,261,230	\$ 37,822,874	\$ 37,993,450	\$ 36,254,368	\$ 34,859,969				
Net Pension Liability as a percentage of									
Covered Payroll	134.08%	87.70%	120.87%	108.40%	103.40%				

Exhibit 3.2 - Schedule of Employer Contributions

Fiscal Year Ended December 31	2023	2022	2021	2020	2019
Actuarially Determined Contribution	\$ 8,767,312	\$ 8,376,456	\$ 7,895,088	\$ 7,433,339	\$ 7,012,999
Contributions in relation to the					
Actuarially Determined Contribution	8,767,312	 8,376,456	7,895,088	7,433,339	7,012,999
Contribution deficiency (excess)	\$ -	\$ -	\$ -	\$ -	\$ -
Covered Payroll	\$ 47,600,686	\$ 42,306,728	\$ 41,995,989	\$ 40,856,737	\$ 39,841,053
Contributions as a percentage of					
Covered Payroll	18.42%	19.80%	18.80%	18.19%	17.60%

The contribution shown above, \$8,767,312, represents the actual contributions made by member units of the Dukes County Retirement System for the 2024 fiscal year.

Exhibit 3.2 - Schedule of Employer Contributions (continued)

Fiscal Year Ended December 31	2018	2017		2016	2015	2014
Actuarially Determined Contribution	\$ 6,597,440	\$ 6,283,276	\$	5,986,402	\$ 5,777,664	\$ 5,601,553
Contributions in relation to the Actuarially Determined Contribution	6,597,440	\$ 6,283,276	\$	5,986,402	\$ 5,777,664	\$ 5,601,553
			_			
Contribution deficiency (excess)	\$ -	\$ -	\$	-	\$ -	\$ -
Covered Payroll	\$ 37,261,230	\$ 37,822,874	\$	37,993,450	\$ 36,254,368	\$ 34,859,969
Contributions as a percentage of Covered Payroll	17.71%	16.61%		15.76%	15.94%	16.07%

Exhibit 3.3 - Investment Returns

Fiscal Year Ended December 31	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
Annual money-weighted rate of										
return, net of investment expense	13.40%	-14.36%	18.66%	12.47%	20.99%	-1.21%	17.29%	7.30%	4.95%	8.13%

The money-weighted rate of return considers the changing amounts actually invested during a period and weights the amount of pension plan investments by the proportion of time they are available to earn a return during that period. The rate of return is then calculated by solving, through an iterative process, for the rate that equates the sum of the weighted external cash flows into and out of the pension plan investments to the ending fair value of pension plan investments.

Appendix A shows the details of the calculation of the money-weighted rate of return for the current fiscal year.

Notes to the Required Supplementary Information

Changes of benefit terms

Effective July 1, 2023, the COLA base increased from \$14,000 to \$15,000. The impact of the increase from \$14,000 to \$15,000 was an increase in the Total Pension Liability of \$1,311,981. All other benefit provisions are the same as the prior measurement. The Plan provisions used in these disclosures are detailed in Section 5, Summary of Plan Provisions, in the most recent funding actuarial report.

Changes of assumptions

All of the Actuarial Assumptions and Methods used in these disclosures are the same as the last measurement date. The Actuarial Assumptions and Methods used in these disclosures are detailed in Section 6, Actuarial Assumptions and Methods, in the most recent funding valuation report.

Methods and assumptions used in calculations of Actuarially Determined Contributions

The Actuarially Determined Contributions in the schedule of employers' contributions are calculated as of July 1 of the fiscal year in which contributions are reported. The following actuarial methods and assumptions were used to determine contributions reported in that schedule:

Actuarial cost method	Entry Age Norm	nal					
Amortization method	l 1	Increasing dollar amount at 4% to reduce the Unfunded Actuarial Accrued Liability to zero on or before June 30, 2031. The annual increase in appropriation is limited to 4.51% per year.					
	2003 ERI 1	Increasing dollar amount at 4.5% to reduce the Unfunded Actuarial Accrued Liability attributable to the 2002 and 2003 ERI to zero on or before June 30, 2028.					
Asset valuation method	The Actuarial Value of Assets is the market value of assets as of the valuation date reduced by the sum of:						
	b) 60 c) 40	o% of gains and losses of the prior year, o% of gains and losses of the second prior year, o% of gains and losses of the third prior year, and o% of gains and losses of the fourth prior year.					
	deficiency of market value	tins and losses are determined by the excess or the expected return over the actual return on the . The actuarial valuation of assets is further be not less than 80% or more than 120% of market					
Inflation	2.4% per year						
Salary increases	Group 1: 6% - 4.25%, based on service Group 4: 7% - 4.75%, based on service						
Payroll growth	3.25% per year	r					
Investment rate of return	7%, net of pens	7%, net of pension plan investment expense, including inflation.					

Exhibit 4.1 - Deferred Outflows of Resources and Deferred Inflows of Resources

Deferred Outflows of Resources and Deferred Inflows of Resources arising from differences between expected and actual experience are recognized in Pension Expense over the average expected remaining service life of all active and inactive members.

					ces at ⁻ 31, 2023
	Experience Losses	Experience Gains	Amounts Recognized in Pension Expense through December 31, 2023	Deferred Outflows of Resources	Deferred Inflows of Resources
Year	(a)	(b)	(c)	(a) - (c)	(b) + (c)
2018	\$ -	\$ 458,358	\$ (458,358)	\$ -	\$ -
2019	-	-	-	-	-
2020	6,537,458	-	4,833,612	1,703,846	-
2021	-	-	-	-	-
2022	-	2,544,289	(997,760)	-	1,546,529
2023	1,014,893	-	198,999	815,894	-
Total				\$ 2,519,740	\$ 1,546,529

Exhibit 4.1 - Deferred Outflows of Resources and Deferred Inflows of Resources

Deferred Outflows of Resources and Deferred Inflows of Resources arising from changes of assumptions are recognized in Pension Expense over the average expected remaining service life of all active and inactive members.

					r 31, 2023
	Increases in the Total Pension Liability	Decreases in the Total Pension Liability	Amounts Recognized in Pension Expense through December 31, 2023	Deferred Outflows of Resources	Deferred Inflows of Resources
Year	(a)	(b)	(c)	(a) - (c)	(b) + (c)
2018	\$ 5,362,639	\$ -	\$ 5,362,639	\$ -	\$ -
2019	-	-	-	-	-
2020	732,333	-	541,468	190,865	-
2021	11,533,025	-	6,395,394	5,137,631	-
2022	-	-	-	-	-
2023	-	-	-	-	-
Total				\$ 5,328,496	\$ -

Exhibit 4.1 - Deferred Outflows of Resources and Deferred Inflows of Resources

Deferred Outflows of Resources and Deferred Inflows of Resources arising from differences between projected and actual earnings on Pension Plan investments are recognized in Pension Expense over five years.

					nces at r 31, 2023
	Investment Earnings Less Than Projected	Investment Earnings Greater Than Projected	Amounts Recognized in Pension Expense through December 31, 2023	Deferred Outflows of Resources	Deferred Inflows of Resources
Year	(a)	(b)	(c)	(a) - (c)	(b) + (c)
2018 2019	\$ 14,319,150	\$ - 20,727,029	\$ 14,319,150 (20,727,029)	\$ -	\$ -
2020	-	9,178,898	(7,343,119)	-	1,835,779
2021	-	23,205,572	(13,923,342)	-	9,282,230
2022 2023	52,618,751	12 221 001	21,047,500 (2,664,376)	31,571,251	10 657 505
Subtotal	-	13,321,881	(2,004,376)	\$ 31,571,251	10,657,505 \$ 21,775,514
Net				\$ 9,795,737	\$ -

Exhibit 4.1 - Deferred Outflows of Resources and Deferred Inflows of Resources

Deferred Outflows of Resources and Deferred Inflows of Resources arising from changes in proportion and differences between employer contributions and proportionate share of contributions are recognized in Pension Expense over the average expected remaining service life of all active and inactive members.

						t 2023		
	pportionate re* Outflows	oportionate ire* Inflows	in Pe	unts Recognized ension Expense through ember 31, 2023		Deferred Outflows of Resources		Deferred Inflows of Resources
Year	 (a)	(b)		(c)		(a) - (c)		(b) - (c)
2017	\$ 161,014	\$ 161,014	\$	161,014	\$	-	\$	-
2018	638,023	638,023		638,023		-		-
2019	189,076	189,076		168,518		20,558		20,558
2020	818,860	818,860		605,441		213,419		213,419
2021	292,719	292,719		162,322		130,397		130,397
2022	694,050	694,050		272,177		421,873		421,873
2023	291,920	291,920		57,240		234,680		234,680
Total					\$	1,020,927	\$	1,020,927

^{*} Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions

Amounts reported as Deferred Outflows of Resources and Deferred Inflows of Resources will be recognized in Pension Expense as follows:

Year ended December 31	
2024	\$ 4,558,167
2025	\$ 5,601,117
2026	\$ 8,433,529
2027	\$ (2,515,267)
2028	\$ 19,898
Thereafter	\$ -
Total Deferred Outflows	\$ 18,664,900
Total Deferred Inflows	\$ 2,567,456

Exhibit 4.2 - Pension Expense

The Pension Expense and deferred outflows and inflows of resources primarily result from changes in the components of the net pension liability (NPL). Most changes in the NPL are included in the Pension Expense in the period of the change, including service cost, interest on total pension liability, changes in benefit terms and projected earnings on the pension plan's investments. Other changes in the net pension liability are included in Pension Expense over the current and future periods. These include the effects on the total pension liability of changes of economic and demographic assumptions and differences between expected and actual experience. In addition, the effect on the net pension liability of differences between the projected earnings on pension plan investments and actual experience with regard to those earnings are included in Pension Expense over the current and future periods. The Pension Expense for the reporting period ending December 31, 2023 is presented below:

Fiscal Year Ended December 31, 2023

1.	Sei	vice cost		\$	7,725,201
2.	Inte	erest on the total pension liability			
	a.	Total Pension Liability, beginning of year	265,867,549		
	b.	Service cost, beginning of year	7,725,201		
	c.	Benefit payments, including refunds of employee contributions	(15,419,603)		
	d.	Interest on Total Pension Liability			18,611,806
3.	Dif	ferences between expected and actual experience			858,684
4.	Cha	anges of benefit terms			1,311,981
5.	Cha	anges of assumptions			2,850,269
6.	Em	ployee contributions			(5,069,935)
7.	Pro	ejected earnings on pension plan investments			
	a.	Fiduciary Net Position, beginning of year	210,614,627		
	b.	Employer contributions	8,767,312		
	c.	Employee contributions	5,069,935		
	d.	Benefit payments, including refunds of employee contributions	(15,419,603)		
	e.	Administrative expenses and other	(567,541)		
	f.	Total projected earnings		(14,586,651)
8.		ferences between projected and actual earnings on n investments			
	μια	ninvestnents			(2,762,924)
9.	Pei	nsion plan administrative expenses			567,541
10.	Oth	ner changes in Fiduciary Net Position			-
11.	Tot	al Pension Expense		\$	9,505,972

Exhibit 4.3 - Proportionate Share of Total Pension Liability

The basis of an employer's allocation of the collective pension amount is based on the allocation of the Total Pension Liability as of the beginning of the measurement period. The schedule of employer allocations for 2023 and 2022, based on the Total Pension Liability as of January 1, 2022 shows the proportionate relationship of each employer to all employers and each employer's allocation percentage.

	202	23	2022			
		Proportionate Share of Total		Proportionate Share of Total		
	Total Pension	Pension	Total Pension	Pension		
Entity	Liability	Liability	Liability	Liability		
Up-Island	8,869,930	3.336221%	8,488,205	3.336221%		
Dukes County	16,897,633	6.355658%	16,170,428	6.355658%		
Tisbury	49,745,324	18.710566%	47,604,490	18.710566%		
Edgartown	66,750,737	25.106764%	63,878,060	25.106764%		
Oak Bluffs	42,587,256	16.018223%	40,754,476	16.018223%		
West Tisbury	18,623,939	7.004969%	17,822,441	7.004969%		
Chilmark	15,179,183	5.709303%	14,525,933	5.709302%		
Aquinnah	5,611,666	2.110700%	5,370,163	2.110700%		
Gosnold	1,454,525	0.547086%	1,391,928	0.547086%		
MV Transit Authority	2,194,388	0.825369%	2,099,951	0.825369%		
MV Regional School	20,526,863	7.720710%	19,643,471	7.720710%		
MV Landbank	4,477,829	1.684233%	4,285,122	1.684233%		
MV Refuse	3,696,201	1.390241%	3,537,132	1.390242%		
MV Commission	5,910,568	2.223125%	5,656,201	2.223125%		
OB Water Dept	3,341,507	1.256831%	3,197,702	1.256831%		
Total	265,867,549	100.000000%	254,425,703	100.000000%		

Exhibit 4.4 - Pension Amounts by Employer

The Schedule of Pension Amounts by Employer is provided in Appendix C. The schedule shows the Net Pension Liability, the various categories of Deferred Outflows of Resources and Deferred Inflows of Resources and Pension Expense for each employer. The schedule includes the differences between expected and actual experience, differences between projected and actual investment earnings and changes of assumptions. Further, each employer is required to recognize Deferred Outflows of Resources and Deferred Inflows of Resources related to (1) the net impact from changes in proportion between periods and (2) differences between actual contributions made by an employer and their proportionate share of contributions.

Each employer's allocation of Pension Expense and Net Pension Liability can be based on the proportion of its Total Pension Liability to the aggregate amount of Total Pension Liability.

Under GASB 68, gains and losses (investment, experience or assumption changes) and changes in employer's proportionate shares related to pensions are recognized in Pension Expense systematically over time.

The first amortized amounts are recognized in Pension Expense for the year the gain or loss occurs. The remaining amounts are categorized as Deferred Inflows and Deferred Outflows to be recognized in future Pension Expense.

The amortization period differs depending on the source of the gain or loss:

Difference between projected and actual earnings

5 year straight-line amortization

All other amounts

Straight-line amortization over the average expected remaining service lives of all members that are provided with benefits (actives, inactives and retirees) as of the beginning of the measurement period

For 2023:

- ♦ Net Pension Liability, Deferred Outflows of Resources, Deferred Inflows of Resources and Pension Expense are allocated to each employer based on its proportionate share of Total Pension Liability shown in Exhibit 4.3.
- ♦ The change in Total Pension Liability as a result of the difference between expected and actual experience is amortized over the average of the expected future service lives of all participants, with the first amortized amount recognized in Pension Expense in the current year. Similar Deferred Outflows of Resources and Deferred Inflows of Resources were established during prior years, with the first amortized amount recognized in Pension Expense in 2016.
- ♦ Net difference between projected and actual investment earnings (gain on pension plan investments for 2023) is amortized over 5 years, with the first amortized amount recognized in Pension Expense in the current year. Similar Deferred Outflows of Resources and Deferred Inflows of Resources were established during prior years, with the first amortized amount recognized in Pension Expense in 2014.

Exhibit 4.4 - Pension Amounts by Employer

For 2023 (continued):

- ♦ The change in Total Pension Liability as a result of changes in assumptions is amortized over the average of the expected future service lives of all participants, with the first amortized amount recognized in Pension Expense in the current year. Similar Deferred Outflows of Resources and Deferred Inflows of Resources were established during prior years, with the first amortized amount recognized in Pension Expense in 2016.
- ◆ The net effect of the difference in the employer's proportionate shares of the collective employer contribution and the actual employer contribution is amortized over the average expected remaining service lives of all members, with the first amortized amount recognized in pension expense in 2016.
- ◆ The net effect of the change in the employer's proportionate shares of the collective Net Pension Liability, collective Deferred Outflows and Deferred Inflows is amortized over the average expected remaining service lives of all members, with the first amortized amount recognized in Pension Expense in the current year. Similar Deferred Outflows of Resources and Deferred Inflows of Resources were established during prior years, with the first amortized amount recognized in 2015.
- ♦ No adjustments have been made for employer contributions made subsequent to the measurement date as defined in paragraph 57 of GASB 68.

SECTION 5 - GLOSSARY OF TERMS

Actuarial Assumptions – Assumptions, based upon past experience or standard tables, used to predict the occurrence of future events affecting the commencement, amount and duration of pension benefits, such as: changes in compensation, mortality, withdrawal, disablement and retirement; rates of investment earnings and asset appreciation or depreciation; and any other relevant items.

Actuarial Cost Method (or Funding Method) – A procedure for allocating the Actuarial Present Value of projected benefit payments to the current year (Service Cost) and the past (Total Pension Liability).

Actuarial (Experience) Gain or Loss – A measure of the difference between actual experience and that expected based upon the set of Actuarial Assumptions during the period between the valuation date and the most recent immediately preceding valuation date.

Actuarial Present Value of Projected Benefit Payments – The dollar value on the valuation date of all benefits expected to be paid to current members based upon the Actuarial Assumptions and the terms of the Plan.

Actuarially Determined Contribution – A target or recommended contribution to a defined benefit pension plan for the reporting period, determined in conformity with Actuarial Standards of Practice based on the most recent measurement available when the contribution for the reporting period was adopted.

Actuarial Valuation Date – The date as of which an actuarial valuation is performed. This date may be up to 24 months prior to the measurement date and up to 30 months prior to the employer's reporting date.

Covered Payroll - The payroll on which contributions to a pension plan are based.

Deferred Inflow of Resources – Acquisition of resources by a government that is applicable to future reporting periods. Under GASB 68, deferred inflows of resources are made up of experience gains, assumption changes reducing the Total Pension Liability and investment gains that are recognized in future reporting periods.

Deferred Outflow of Resources – Consumption of resources by a government that is applicable to future reporting periods. Under GASB 68, deferred outflows of resources are made up of experience losses, assumption changes increasing the Total Pension Liability and investment losses that are recognized in future reporting periods.

Discount Rate – Single rate of return that, when applied to all projected benefit payments, results in an actuarial present value of projected benefit payments equal to the sum of:

- (1) a long-term expected rate of return on pension plan investments to the extent that the pension plan's assets are sufficient to pay benefits and pension plan assets are expected to be invested using a strategy to achieve that return and
- (2) a tax-exempt, high-quality municipal bond rate to the extent that the conditions for use of the long-term expected rate of return are not met.

SECTION 5 - GLOSSARY OF TERMS

Entry Age Normal Actuarial Cost Method – A method under which the actuarial present value of the projected benefits of each individual in an actuarial valuation is allocated on a level basis over the earnings or service of the individual between entry age and assumed exit age.

Fiduciary Net Position - The fair market value of assets as of the measurement date.

Funded Ratio - The Actuarial Value of Assets expressed as a percentage of the Actuarial Accrued Liability.

GASB - Governmental Accounting Standards Board.

Long-Term Expected Rate of Return – Long-term expected rate of return on pension plan investments expected to be used to finance the payment of benefits, net of investment expenses.

Measurement Date - The date as of which the Total Pension Liability and Fiduciary Net Position are measured.

Municipal Bond Rate – Yield or index rate for 20-year, tax-exempt general obligation municipal bonds with an average rating of AA/Aa or higher.

Net Pension Liability – The liability of the employer for benefits provided through a defined benefit pension plan. It is calculated as the Total Pension Liability less the Fiduciary Net Position.

Present Value of Future Benefits – The actuarial present value of the cost to finance benefits payable in the future, discounted to reflect the expected effects of the time value of money and the probabilities of payment.

Reporting Date - The last day of the Plan or employer's fiscal year.

Service Cost – The portion of the actuarial present value of projected benefit amounts that is attributed to a valuation year.

Total Pension Liability – The portion of the actuarial present value of projected benefit amounts that is attributed to past periods of employee service using the Entry Age Normal cost method based on the requirements of GASB 67 and GASB 68.

Unfunded Actuarial Accrued Liability – The excess of the Actuarial Accrued Liability over the Actuarial Value of Assets.

APPENDIX A - CALCULATION OF MONEY-WEIGHTED RATE OF RETURN

	n Investments/ t External Cash Flows (a)	Periods Invested (b)	Period Weight (c)=(b)÷12	(d)	=(a) x (1+r _{mw}) ^(c)
Beginning value - January 1, 2023	\$ 210,614,627	12	1.00	\$	238,835,962
Monthly net external cash flows:					
January	(1,215,286)	11	0.92		(1,363,762)
February	(1,472,743)	10	0.83		(1,635,446)
March	(943,411)	9	0.75		(1,036,715)
April	(950,929)	8	0.67		(1,034,084)
May	(808,306)	7	0.58		(869,825)
June	(969,969)	6	0.50		(1,032,913)
July	7,634,330	5	0.42		8,044,992
August	(1,022,284)	4	0.33		(1,066,044)
September	(877,229)	3	0.25		(905,244)
October	(831,236)	2	0.17		(848,840)
November	(861,471)	1	0.08		(870,546)
December	155,727	0	0.00		155,727
Ending value - December 31, 2023				\$	236,373,262
Money-weighted rate of return					13.40%

Note: Beginning and ending values are based on amounts reported in the System's 2023 Annual Statement, and monthly cash flows are based on amounts provided by the Retirement Board.

APPENDIX B - SCHEDULE OF DEFERRED OUTFLOWS OF RESOURCES AND DEFERRED INFLOWS OF RESOURCES

Year	Differences between Expected and Actual Experience	Recognition Period (Years)	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
2018	(458,358)	5.61	(49,838)	-	-	-	-	-	-	-	-	-
2019	-	5.61	-	-	-	-	-	-	-	-	-	-
2020	6,537,458	5.41	1,208,403	1,208,403	495,443	-	-	-	-	-	-	-
2021	-	5.41	-	-	-	-	-	-	-	-	-	-
2022	(2,544,289)	5.10	(498,880)	(498,880)	(498,880)	(498,880)	(49,889)	-	-	-	-	-
2023	1,014,893	5.10	198,999	198,999	198,999	198,999	198,999	19,898	-	-	-	-
Net Incre	ase (Decrease) in Pensior	Expense	858,684	908,522	195,562	(299,881)	149,110	19,898	-	-	-	-
Year	Changes of Assumptions	Recognition Period (Years)	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
2018	5,362,639	5.61	583,104	-	-	-	-	-	-	-	-	-
2019	-	5.61	-	-	-	-	-	-	-	-	-	-
2020	732,333	5.41	135,367	135,367	55,498	-	-	-	-	-	-	-
2021	11,533,025	5.41	2,131,798	2,131,798	2,131,798	874,035	-	-	_	_	_	_
2022	-	5.10	-	-	-	-	_	-	_	-	-	_
2023	-	5.10	-	-	-	-	-	-	-	-	-	-
Net Incre	ase (Decrease) in Pensior	Expense	2,850,269	2,267,165	2,187,296	874,035	-	-	-	-	-	-

APPENDIX B - SCHEDULE OF DEFERRED OUTFLOWS OF RESOURCES AND DEFERRED INFLOWS OF RESOURCES

Year	Differences between Projected and Actual Earnings on Pension Plan Investments	Recognition Period (Years)	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
2018	14,319,150	5	-	-	-	-	-	-	-	-	-	-
2019	(20,727,029)	5	(4,145,405)	-	-	-	-	-	-	-	-	-
2020	(9,178,898)	5	(1,835,779)	(1,835,779)	-	-	-	-	-	-	-	-
2021	(23,205,572)	5	(4,641,114)	(4,641,115)	(4,641,115)	-	-	-	-	-	-	-
2022	52,618,751	5	10,523,750	10,523,750	10,523,750	10,523,751	-	-	-	-	-	-
2023	(13,321,881)	5	(2,664,376)	(2,664,376)	(2,664,376)	(2,664,376)	(2,664,377)	-	-	-	-	-
Net Incre	ease (Decrease) in Pension	Expense	(2,762,924)	1,382,480	3,218,259	7,859,375	(2,664,377)	_	_	-	-	-

APPENDIX C - SCHEDULE OF PENSION AMOUNTS BY EMPLOYER

		ukes County Retirement		
Pension Amounts as of December 31, 2023		System		Up-Island
◆ Current Proportionate Share				3.336221%
♦ Prior Proportionate Share				3.336221%
Beginning Net Pension Liability	\$	55,252,922	\$	1,843,360
Ending Net Pension Liability	\$	42,738,565	\$	1,425,853
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	2,519,740	\$	84,064
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments	·	9,795,737	·	326,807
◆ Changes of Assumptions		5,328,496		177,770
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		1,020,927		18,746
Total Deferred Outflows of Resources	\$	18,664,900	\$	607,387
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	1,546,529	\$	51,596
◆ Changes of Assumptions	•	-	Ψ	-
◆ Changes in Proportion and Differences Between Employer		1,020,927		40,577
Contributions and Dransationata Chave of Contributions		1,020,021		10,011
# Total Deferred Inflows of Resources	\$	2,567,456	\$	92,173
	<u> </u>	_,,,,,,,,	<u> </u>	,
Employer Pension Expense:	\$	9,505,972	\$	317,140
◆ Proportionate Share of Plan Pension Expense	Φ	9,505,972	Φ	
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions		-		4,627
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	9,505,972	\$	321,767
Covered Payroll:	\$	47,600,686	\$	1,568,723
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	:		
♦ Current discount rate: 7.00%	\$	42,738,565	\$	1,425,853
◆ 1% decrease in the discount rate: 6.00%	\$	74,813,936	\$	2,495,959
♦ 1% increase in the discount rate: 8.00%	\$	15,635,943	\$	521,650
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	cognized in Future	Pensio	n Expense:
♦ 2024	\$	4,558,167	\$	149,297
♦ 2025	\$	5,601,117	\$	179,267
♦ 2026	\$	8,433,529	\$	272,025
♦ 2027	\$	(2,515,267)	\$	(85,901)
◆ 2028 ◆ Thereafter	\$	19,898	\$	526
◆ Thereafter	\$	-	\$	-

APPENDIX C - SCHEDULE OF PENSION AMOUNTS BY EMPLOYER

Pension Amounts as of December 31, 2023		Oukes County Retirement System	Dı	ukes County
◆ Current Proportionate Share				6.355658%
 ◆ Prior Proportionate Share 				6.355658%
Beginning Net Pension Liability	\$	55,252,922	\$	3,511,687
Ending Net Pension Liability	\$	42,738,565	\$	2,716,317
Total Deferred Outflows of Resources:				
Differences Between Expected and Actual Experience	\$	2,519,740	\$	160,146
	Ψ		Ψ	
 Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 		9,795,737		622,584
♦ Changes of Assumptions		5,328,496		338,661
◆ Changes in Proportion and Differences Between Employer		1,020,927		139,818
Contributions and Proportionate Share of Contributions				, i
Total Deferred Outflows of Resources	\$	18,664,900	\$	1,261,209
Total Deferred Inflows of Resources:			•	
◆ Differences Between Expected and Actual Experience	\$	1,546,529	\$	98,292
	Ψ	1,010,020	Ψ	00,202
◆ Changes of Assumptions		4 000 007		70.000
◆ Changes in Proportion and Differences Between Employer		1,020,927		70,220
# Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	\$	2,567,456	\$	168,512
Employer Pension Expense:				
♦ Proportionate Share of Plan Pension Expense	\$	9,505,972	\$	604,167
♦ Net Amortization of Deferred Amounts from Changes in		-		(1,835)
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	9,505,972	\$	602,332
Covered Payroll:	\$	47,600,686	\$	3,235,888
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rate):		
♦ Current discount rate: 7.00%	\$	42,738,565	\$	2,716,317
♦ 1% decrease in the discount rate: 6.00%	\$	74,813,936	\$	4,754,918
♦ 1% increase in the discount rate: 8.00%	\$	15,635,943	\$	993,767
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	cognized in Future	Pensio	n Expense:
◆ 2024	\$	4,558,167	\$	303,922
♦ 2025	\$	5,601,117	\$	379,542
♦ 2026	\$	8,433,529	\$	558,671
◆ 2027	\$	(2,515,267)	\$	(151,451)
♦ 2028	\$	19,898	\$	2,013
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2023		Dukes County Retirement System		Tisbury
◆ Current Proportionate Share				18.710566%
♦ Prior Proportionate Share				18.710566%
Beginning Net Pension Liability	\$	55,252,922	\$	10,338,135
Ending Net Pension Liability	\$	42,738,565	\$	7,996,628
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	2,519,740	\$	471,458
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments	•	9,795,737	Ť	1,832,838
♦ Changes of Assumptions		5,328,496		996,992
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		1,020,927		103,171
Total Deferred Outflows of Resources	\$	18,664,900	\$	3,404,459
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	1,546,529	\$	289,364
◆ Changes of Assumptions	•	_,0 :0,0_0	•	
◆ Changes in Proportion and Differences Between Employer		1,020,927		98,844
Contributions and Dransationate Chave of Contributions		1,020,321		30,044
# Total Deferred Inflows of Resources	\$	2,567,456	\$	388,208
	_	2,001,100	<u> </u>	333,233
Employer Pension Expense:	Φ.	0.505.070	Φ.	4 770 004
◆ Proportionate Share of Plan Pension Expense	\$	9,505,972	\$	1,778,621
 Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 		-		1,390
Total Employer Pension Expense	\$	9,505,972	\$	1,780,011
Covered Payroll:	\$	47,600,686	\$	7,762,768
Sensitivity of the Net Pension Liability to Changes in the Disco	unt Rate	:		
♦ Current discount rate: 7.00%	\$	42,738,565	\$	7,996,628
♦ 1% decrease in the discount rate: 6.00%	\$	74,813,936	\$	13,998,111
♦ 1% increase in the discount rate: 8.00%	\$	15,635,943	\$	2,925,573
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	cognized in Future	Pensio	on Expense:
♦ 2024	\$	4,558,167	\$	855,050
♦ 2025	\$	5,601,117	\$	1,051,100
◆ 2026	\$	8,433,529	\$	1,581,302
♦ 2027 • 2028	\$	(2,515,267)	\$	(474,446)
♦ 2028 ♦ Thereafter	\$ \$	19,898	\$ \$	3,245
▼ IIICICAILEI	φ	-	φ	-

Pension Amounts as of December 31, 2023		Oukes County Retirement System		Edgartown
◆ Current Proportionate Share				25.106764%
♦ Prior Proportionate Share				25.106764%
Beginning Net Pension Liability	\$	55,252,922	\$	13,872,221
Ending Net Pension Liability	\$	42,738,565	\$	10,730,269
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	2,519,740	\$	632,625
 ♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 	Ψ	9,795,737	Ψ	2,459,394
◆ Changes of Assumptions		5,328,496		1,337,814
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		1,020,927		51,615
Total Deferred Outflows of Resources	\$	18,664,900	\$	4,481,448
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	1,546,529	\$	388,284
◆ Changes of Assumptions		-		-
♦ Changes in Proportion and Differences Between Employer		1,020,927		377,398
# Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	\$	2,567,456	\$	765,682
Employer Pension Expense:				_
◆ Proportionate Share of Plan Pension Expense	\$	9,505,972	\$	2,386,641
♦ Net Amortization of Deferred Amounts from Changes in		-		(99,095)
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	9,505,972	\$	2,287,546
Covered Payroll:	\$	47,600,686	\$	9,906,821
Sensitivity of the Net Pension Liability to Changes in the Discou	ınt Rate):		
♦ Current discount rate: 7.00%	\$	42,738,565	\$	10,730,269
◆ 1% decrease in the discount rate: 6.00%	\$	74,813,936	\$	18,783,358
♦ 1% increase in the discount rate: 8.00%	\$	15,635,943	\$	3,925,679
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	cognized in Future	Pensio	on Expense:
♦ 2024	\$	4,558,167	\$	1,045,001
♦ 2025	\$	5,601,117	\$	1,308,083
◆ 2026	\$	8,433,529	\$	2,028,541
♦ 2027 • 2028	\$	(2,515,267)	\$	(667,715)
♦ 2028	\$ \$	19,898	\$	1,856
◆ Thereafter	Φ	-	\$	-

Pension Amounts as of December 31, 2023	l	Dukes County Retirement System		Oak Bluffs
◆ Current Proportionate Share				16.018223%
♦ Prior Proportionate Share				16.018223%
Beginning Net Pension Liability	\$	55,252,922	\$	8,850,536
Ending Net Pension Liability	\$	42,738,565	\$	6,845,959
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	2,519,740	\$	403,618
◆ Net Difference Between Projected and Actual Investment	Ψ	9,795,737	Ψ	1,569,103
Earnings on Pension Plan Investments				
◆ Changes of Assumptions		5,328,496		853,530
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		1,020,927		37,102
Total Deferred Outflows of Resources	\$	18,664,900	\$	2,863,353
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	1,546,529	\$	247,726
◆ Changes of Assumptions	Ψ	1,540,525	Ψ	241,120
-		4 000 007		144 100
◆ Changes in Proportion and Differences Between Employer		1,020,927		141,190
# Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	\$	2,567,456	\$	388,916
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	9,505,972	\$	1,522,688
♦ Net Amortization of Deferred Amounts from Changes in		-		(56,446)
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	9,505,972	\$	1,466,242
Covered Payroll:	\$	47,600,686	\$	7,607,227
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rati	۵.		
♦ Current discount rate: 7.00%	\$	42,738,565	\$	6,845,959
◆ 1% decrease in the discount rate: 6.00%	\$	74,813,936	\$	11,983,863
♦ 1% increase in the discount rate: 8.00%	\$	15,635,943	\$	2,504,600
Deferred Outflows of Resources and Deferred Inflows of Resour				
◆ 2024	\$	4,558,167	\$	679,984
◆ 2025	\$	5,601,117	\$	863,858
♦ 2026	\$	8,433,529	\$	1,331,418
♦ 2027	\$	(2,515,267)	\$	(404,085)
♦ 2028	\$	19,898	\$	3,262
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2023	[Oukes County Retirement System	W	/est Tisbury
◆ Current Proportionate Share				7.004969%
♦ Prior Proportionate Share				7.004969%
Beginning Net Pension Liability	\$	55,252,922	\$	3,870,450
Ending Net Pension Liability	\$	42,738,565	\$	2,993,823
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	2,519,740	\$	176,507
◆ Net Difference Between Projected and Actual Investment	Ψ	9,795,737	Ψ	686,188
Earnings on Pension Plan Investments				
◆ Changes of Assumptions		5,328,496		373,259
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		1,020,927		60,721
Total Deferred Outflows of Resources	\$	18,664,900	\$	1,296,675
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	1,546,529	\$	108,334
◆ Changes of Assumptions	Ψ	1,540,525	Ψ	100,554
- · · · · · · · · · · · · · · · · · · ·		4 000 007		-
◆ Changes in Proportion and Differences Between Employer		1,020,927		-
# Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	<u> </u>	2,567,456	\$	108,334
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	9,505,972	\$	665,890
♦ Net Amortization of Deferred Amounts from Changes in		-		24,846
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	9,505,972	\$	690,736
Covered Payroll:	\$	47,600,686	\$	3,434,467
	-		•	c, .c ., .c.
Sensitivity of the Net Pension Liability to Changes in the Discou			•	0.000.000
◆ Current discount rate: 7.00%	\$	42,738,565	\$	2,993,823
◆ 1% decrease in the discount rate: 6.00%	\$ \$	74,813,936 15,635,943	\$ \$	5,240,693 1,095,293
♦ 1% increase in the discount rate: 8.00%	Ψ	15,035,943	φ	1,095,295
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Re	ecognized in Future	Pensio	n Expense:
♦ 2024	\$	4,558,167	\$	343,350
♦ 2025	\$	5,601,117	\$	407,913
◆ 2026	\$	8,433,529	\$	601,844
◆ 2027	\$	(2,515,267)	\$	(167,055)
♦ 2028	\$	19,898	\$	2,289
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2023	ı	Oukes County Retirement System		Chilmark
◆ Current Proportionate Share				5.709303%
♦ Prior Proportionate Share				5.709302%
Beginning Net Pension Liability	\$	55,252,922	\$	3,154,556
Ending Net Pension Liability	\$	42,738,565	\$	2,440,074
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	2,519,740	\$	143,860
 ♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 	•	9,795,737	•	559,268
♦ Changes of Assumptions		5,328,496		304,220
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		1,020,927		235,174
Total Deferred Outflows of Resources	\$	18,664,900	\$	1,242,522
Total Deferred Inflows of Resources: ◆ Differences Between Expected and Actual Experience ◆ Changes of Assumptions	\$	1,546,529 -	\$	88,296 -
 Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 		1,020,927		4,048
Total Deferred Inflows of Resources	\$	2,567,456	\$	92,344
Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	9,505,972 -	\$	542,725 78,136
Total Employer Pension Expense	\$	9,505,972	\$	620,861
Covered Payroll:	\$	47,600,686	\$	3,245,994
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rate	ə:		
♦ Current discount rate: 7.00%	\$	42,738,565	\$	2,440,074
♦ 1% decrease in the discount rate: 6.00%	\$	74,813,936	\$	4,271,354
♦ 1% increase in the discount rate: 8.00%	\$	15,635,943	\$	892,703
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Re	ecognized in Future	Pensio	n Expense:
◆ 2024	\$	4,558,167	\$	346,166
♦ 2025	\$	5,601,117	\$	391,658
♦ 2026	\$	8,433,529	\$	535,325
♦ 2027	\$	(2,515,267)	\$	(125,581)
♦ 2028	\$	19,898	\$	2,610
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2023	ı	Dukes County Retirement System		Aquinnah
♦ Current Proportionate Share				2.110700%
♦ Prior Proportionate Share				2.110700%
Beginning Net Pension Liability	\$	55,252,922	\$	1,166,223
Ending Net Pension Liability	\$	42,738,565	\$	902,083
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	2,519,740	\$	53,184
	Ψ	9,795,737	Ψ	206,759
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		9,193,131		200,739
◆ Changes of Assumptions		5,328,496		112,469
◆ Changes in Proportion and Differences Between Employer		1,020,927		76,500
Contributions and Proportionate Share of Contributions		, ,		,
Total Deferred Outflows of Resources	\$	18,664,900	\$	448,912
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	1,546,529	\$	32,643
	Ψ	1,040,020	Ψ	32,043
◆ Changes of Assumptions		4 000 007		40.000
Changes in Proportion and Differences Between Employer Changes in Proportion and Differences Between Employer		1,020,927		12,622
# Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	<u> </u>	2,567,456	\$	45,265
Employer Pension Expense:				
♦ Proportionate Share of Plan Pension Expense	\$	9,505,972	\$	200,643
♦ Net Amortization of Deferred Amounts from Changes in		-		32,598
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	9,505,972	\$	233,241
Covered Payroll:	\$	47,600,686	\$	1,314,547
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rate	e:		
♦ Current discount rate: 7.00%	\$	42,738,565	\$	902,083
◆ 1% decrease in the discount rate: 6.00%	\$	74,813,936	\$	1,579,098
♦ 1% increase in the discount rate: 8.00%	\$	15,635,943	\$	330,028
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Re	ecognized in Future	Pensio	on Expense:
♦ 2024	\$	4,558,167	\$	123,579
♦ 2025	\$	5,601,117	\$	136,128
♦ 2026	\$	8,433,529	\$	189,375
◆ 2027	\$	(2,515,267)	\$	(46,485)
◆ 2028	\$	19,898	\$	1,050
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2023		Dukes County Retirement System		Gosnold
◆ Current Proportionate Share				0.547086%
◆ Prior Proportionate Share				0.547086%
Beginning Net Pension Liability	\$	55,252,922	\$	302,281
Ending Net Pension Liability	\$	42,738,565	\$	233,817
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	2,519,740	\$	13,785
 ♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 	Ť	9,795,737	•	53,591
◆ Changes of Assumptions		5,328,496		29,151
◆ Changes in Proportion and Differences Between Employer		1,020,927		25,882
Contributions and Proportionate Share of Contributions		, ,		,
Total Deferred Outflows of Resources	\$	18,664,900	\$	122,409
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	1,546,529	\$	8,461
◆ Changes of Assumptions	•	_,0 :0,0_0	*	-
◆ Changes in Proportion and Differences Between Employer		1,020,927		_
Contributions and Drawartian at Chara of Contributions		1,020,321		_
# Contributions and Proportionate Share of Contributions Total Deferred Inflows of Resources	\$	2,567,456	\$	8,461
Total Deterred lilliows of Resources	<u> </u>	2,301,430	<u> </u>	0,401
Employer Pension Expense:				
♦ Proportionate Share of Plan Pension Expense	\$	9,505,972	\$	52,006
♦ Net Amortization of Deferred Amounts from Changes in		-		10,412
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	9,505,972	\$	62,418
Covered Payroll:	\$	47,600,686	\$	326,909
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate):		
♦ Current discount rate: 7.00%	\$	42,738,565	\$	233,817
◆ 1% decrease in the discount rate: 6.00%	\$	74,813,936	\$	409,297
♦ 1% increase in the discount rate: 8.00%	\$	15,635,943	\$	85,542
Deferred Outflows of Resources and Deferred Inflows of Resour	rces Re	cognized in Future	Pensio	n Expense:
♦ 2024	\$	4,558,167	\$	33,799
♦ 2025	\$	5,601,117	\$	38,710
◆ 2026	\$	8,433,529	\$	52,688
◆ 2027	\$	(2,515,267)	\$	(11,537)
♦ 2028	\$	19,898	\$	288
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2023		Dukes County Retirement System	MV Tr	ansit Authority
◆ Current Proportionate Share				0.825369%
♦ Prior Proportionate Share				0.825369%
Beginning Net Pension Liability	\$	55,252,922	\$	456,041
Ending Net Pension Liability	\$	42,738,565	\$	352,751
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	2,519,740	\$	20,797
	Ψ		Ψ	
 Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 		9,795,737		80,851
♦ Changes of Assumptions		5,328,496		43,980
◆ Changes in Proportion and Differences Between Employer		1,020,927		_
Contributions and Proportionate Share of Contributions		, ,		
Total Deferred Outflows of Resources	\$	18,664,900	\$	145,628
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	1,546,529	\$	12,765
	Ψ	1,040,020	Ψ	12,700
◆ Changes of Assumptions		4 000 007		20.200
◆ Changes in Proportion and Differences Between Employer		1,020,927		36,306
# Contributions and Proportionate Share of Contributions		_		
Total Deferred Inflows of Resources	<u>\$</u>	2,567,456	\$	49,071
Employer Pension Expense:				
♦ Proportionate Share of Plan Pension Expense	\$	9,505,972	\$	78,459
♦ Net Amortization of Deferred Amounts from Changes in		-		(7,735)
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	9,505,972	\$	70,724
Covered Payroll:	\$	47,600,686	\$	507,832
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
♦ Current discount rate: 7.00%	\$	42,738,565	\$	352,751
♦ 1% decrease in the discount rate: 6.00%	\$	74,813,936	\$	617,491
♦ 1% increase in the discount rate: 8.00%	\$	15,635,943	\$	129,054
Deferred Outflows of Resources and Deferred Inflows of Resour	ces R	ecognized in Future	Pensio	n Expense:
♦ 2024	\$	4,558,167	\$	25,580
♦ 2025	\$	5,601,117	\$	34,947
◆ 2026	\$	8,433,529	\$	60,814
♦ 2027	\$	(2,515,267)	\$	(24,602)
♦ 2028	\$	19,898	\$	(182)
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2023		Dukes County Retirement System	MV F	Regional School
◆ Current Proportionate Share				7.720710%
♦ Prior Proportionate Share				7.720710%
Beginning Net Pension Liability	\$	55,252,922	\$	4,265,918
Ending Net Pension Liability	\$	42,738,565	\$	3,299,721
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	2,519,740	\$	194,542
	Ψ		Ψ	
 Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 		9,795,737		756,300
♦ Changes of Assumptions		5,328,496		411,398
◆ Changes in Proportion and Differences Between Employer		1,020,927		193,545
Contributions and Proportionate Share of Contributions		, ,		,
Total Deferred Outflows of Resources	\$	18,664,900	\$	1,555,785
Total Deferred Inflows of Resources:		_		_
◆ Differences Between Expected and Actual Experience	\$	1,546,529	\$	119,403
◆ Changes of Assumptions	*	1,010,020	Ψ	110, 100
-		4 000 007		-
Changes in Proportion and Differences Between Employer Contributions and Proportionate Charge of Contributions		1,020,927		29,582
# Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	<u>\$</u>	2,567,456	\$	148,985
Employer Pension Expense:				
♦ Proportionate Share of Plan Pension Expense	\$	9,505,972	\$	733,929
♦ Net Amortization of Deferred Amounts from Changes in		-		69,994
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	9,505,972	\$	803,923
Covered Payroll:	\$	47,600,686	\$	5,252,808
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
♦ Current discount rate: 7.00%	\$	42,738,565	\$	3,299,721
♦ 1% decrease in the discount rate: 6.00%	\$	74,813,936	\$	5,776,167
◆ 1% increase in the discount rate: 8.00%	\$	15,635,943	\$	1,207,206
Deferred Outflows of Resources and Deferred Inflows of Resour	ces R	ecognized in Future	Pensio	n Expense:
◆ 2024	\$	4,558,167	\$	409,326
♦ 2025	\$	5,601,117	\$	480,357
♦ 2026	\$	8,433,529	\$	689,433
♦ 2027	\$	(2,515,267)	\$	(175,569)
◆ 2028	\$	19,898	\$	3,253
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2023		Dukes County Retirement System	M	V Landbank
◆ Current Proportionate Share				1.684233%
 ◆ Prior Proportionate Share 				1.684233%
Beginning Net Pension Liability	\$	55,252,922	\$	930,588
Ending Net Pension Liability	\$	42,738,565	\$	719,817
Total Deferred Outflows of Resources:				
Differences Between Expected and Actual Experience	\$	2,519,740	\$	42,438
	Ψ		Ψ	
 Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 		9,795,737		164,983
◆ Changes of Assumptions		5,328,496		89,744
◆ Changes in Proportion and Differences Between Employer		1,020,927		16,767
Contributions and Proportionate Share of Contributions				
Total Deferred Outflows of Resources	\$	18,664,900	\$	313,932
Total Deferred Inflows of Resources:		_		
◆ Differences Between Expected and Actual Experience	\$	1,546,529	\$	26,047
◆ Changes of Assumptions	Ψ	1,010,020	Ψ	23,5 11
- · · · · · · · · · · · · · · · · · · ·		1 000 007		04.000
Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		1,020,927		81,886
# Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	<u>\$</u>	2,567,456	\$	107,933
Employer Pension Expense:				
♦ Proportionate Share of Plan Pension Expense	\$	9,505,972	\$	160,103
♦ Net Amortization of Deferred Amounts from Changes in		-		(28,693)
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	9,505,972	\$	131,410
Covered Payroll:	\$	47,600,686	\$	1,015,327
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
♦ Current discount rate: 7.00%	\$	42,738,565	\$	719,817
♦ 1% decrease in the discount rate: 6.00%	\$	74,813,936	\$	1,260,041
♦ 1% increase in the discount rate: 8.00%	\$	15,635,943	\$	263,346
Deferred Outflows of Resources and Deferred Inflows of Resour	ces R	ecognized in Future	Pensio	n Expense:
♦ 2024	\$	4,558,167	\$	50,412
♦ 2025	\$	5,601,117	\$	75,412
♦ 2026	\$	8,433,529	\$	129,944
♦ 2027	\$	(2,515,267)	\$	(49,423)
♦ 2028	\$	19,898	\$	(346)
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2023	ı	Dukes County Retirement System		MV Refuse
◆ Current Proportionate Share				1.390241%
♦ Prior Proportionate Share				1.390242%
Beginning Net Pension Liability	\$	55,252,922	\$	768,149
Ending Net Pension Liability	\$	42,738,565	\$	594,169
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	2,519,740	\$	35,030
	Ψ		Ψ	
 Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 		9,795,737		136,184
◆ Changes of Assumptions		5,328,496		74,079
◆ Changes in Proportion and Differences Between Employer		1,020,927		8,017
Contributions and Proportionate Share of Contributions				
Total Deferred Outflows of Resources	\$	18,664,900	\$	253,310
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	1,546,529	\$	21,500
◆ Changes of Assumptions	*		*	
-		1 000 007		27.660
Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		1,020,927		27,669
# Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	<u> </u>	2,567,456	\$	49,169
Employer Pension Expense:				
♦ Proportionate Share of Plan Pension Expense	\$	9,505,972	\$	132,156
♦ Net Amortization of Deferred Amounts from Changes in		-		(4,741)
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	9,505,972	\$	127,415
Covered Payroll:	\$	47,600,686	\$	701,854
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rate	e:		
♦ Current discount rate: 7.00%	\$	42,738,565	\$	594,169
◆ 1% decrease in the discount rate: 6.00%	\$	74,813,936	\$	1,040,094
♦ 1% increase in the discount rate: 8.00%	\$	15,635,943	\$	217,377
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Re	ecognized in Future	Pensic	on Expense:
◆ 2024	\$	4,558,167	\$	57,359
◆ 2025	\$	5,601,117	\$	71,998
♦ 2026	\$	8,433,529	\$	112,459
◆ 2027	\$	(2,515,267)	\$	(37,688)
♦ 2028	\$	19,898	\$	13
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2023	i	Oukes County Retirement System	MV	Commission
◆ Current Proportionate Share				2.223125%
 ◆ Prior Proportionate Share 				2.223125%
Beginning Net Pension Liability	\$	55,252,922	\$	1,228,341
Ending Net Pension Liability	\$	42,738,565	\$	950,132
Total Deferred Outflows of Resources:				
Differences Between Expected and Actual Experience	\$	2,519,740	\$	56,017
	Ψ		Ψ	
♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		9,795,737		217,771
♦ Changes of Assumptions		5,328,496		118,459
◆ Changes in Proportion and Differences Between Employer		1,020,927		40,988
Contributions and Proportionate Share of Contributions		, ,		,
Total Deferred Outflows of Resources	\$	18,664,900	\$	433,235
Total Deferred Inflows of Resources:		_		_
◆ Differences Between Expected and Actual Experience	\$	1,546,529	\$	34,381
◆ Changes of Assumptions	*	1,0 10,020	*	01,001
		1 000 007		EO 0E4
Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		1,020,927		59,254
# Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	<u> </u>	2,567,456	\$	93,635
Employer Pension Expense:				
♦ Proportionate Share of Plan Pension Expense	\$	9,505,972	\$	211,330
♦ Net Amortization of Deferred Amounts from Changes in		-		(11,023)
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	9,505,972	\$	200,307
Covered Payroll:	\$	47,600,686	\$	1,154,751
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rate	ə:		
♦ Current discount rate: 7.00%	\$	42,738,565	\$	950,132
♦ 1% decrease in the discount rate: 6.00%	\$	74,813,936	\$	1,663,207
♦ 1% increase in the discount rate: 8.00%	\$	15,635,943	\$	347,607
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Re	ecognized in Future	Pensio	n Expense:
◆ 2024	\$	4,558,167	\$	89,290
♦ 2025	\$	5,601,117	\$	119,919
♦ 2026	\$	8,433,529	\$	188,865
◆ 2027	\$	(2,515,267)	\$	(58,591)
♦ 2028	\$	19,898	\$	117
♦ Thereafter	\$	=	\$	-

Pension Amounts as of December 31, 2023	l	Dukes County Retirement System	OB Water Dept	
◆ Current Proportionate Share				1.256831%
♦ Prior Proportionate Share				1.256831%
Beginning Net Pension Liability	\$	55,252,922	\$	694,436
Ending Net Pension Liability	\$	42,738,565	\$	537,152
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	2,519,740	\$	31,669
	φ		φ	•
 Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 		9,795,737		123,116
♦ Changes of Assumptions		5,328,496		66,970
◆ Changes in Proportion and Differences Between Employer		1,020,927		12,882
Contributions and Proportionate Share of Contributions		, ,		,
Total Deferred Outflows of Resources	\$	18,664,900	\$	234,637
Total Deferred Inflows of Resources:		_		
◆ Differences Between Expected and Actual Experience	\$	1,546,529	\$	19,437
◆ Changes of Assumptions	*	2,0 10,020	Ψ	10, 101
		4 000 007		44 220
Changes in Proportion and Differences Between Employer Contributions and Branactionate Change of Contributions		1,020,927		41,332
# Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	<u>\$</u>	2,567,456	\$	60,769
Employer Pension Expense:				
♦ Proportionate Share of Plan Pension Expense	\$	9,505,972	\$	119,474
♦ Net Amortization of Deferred Amounts from Changes in		-		(12,435)
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	9,505,972	\$	107,039
Covered Payroll:	\$	47,600,686	\$	564,769
Sensitivity of the Net Pension Liability to Changes in the Discou	nt Rat	e:		
♦ Current discount rate: 7.00%	\$	42,738,565	\$	537,152
♦ 1% decrease in the discount rate: 6.00%	\$	74,813,936	\$	940,285
♦ 1% increase in the discount rate: 8.00%	\$	15,635,943	\$	196,517
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Re	ecognized in Future I	Pension	n Expense:
◆ 2024	\$	4,558,167	\$	46,052
♦ 2025	\$	5,601,117	\$	62,225
♦ 2026	\$	8,433,529	\$	100,825
◆ 2027	\$	(2,515,267)	\$	(35,138)
◆ 2028	\$	19,898	\$	(96)
♦ Thereafter	\$	-	\$	-

APPENDIX D - CALCULATION OF SINGLE DISCOUNT RATE

Under GASB 67, a series of projections and calculations are used to determine the discount rate for the purpose of the measurement of the Total Pension Liability. The discount rate is the single rate that reflects (1) the long-term expected rate of return on pension plan investments that are expected to be used to finance the payment of benefits, to the extent that the pension plan's Fiduciary Net Position is projected to be sufficient to make projected benefit payments and pension plan assets are expected to be invested using a strategy to achieve that return, and (2) a yield or index rate for 20-year, tax-exempt general obligation municipal bonds with an average rating of AA/Aa or higher, to the extent that the conditions for use of the long-term expected rate of return are not met.

Projected cash flows into and out of the pension plan are assumed to be contributions to the pension plan, benefit payments, pension plan administrative expenses and pension plan investment earnings. These projected cash flows are used to project the pension plan's Fiduciary Net Position at the beginning of each period. The pension plan's projected Fiduciary Net Position at the beginning of each period is compared to the amount of benefit payments projected to occur in that period.

It is assumed that the pension plan's Fiduciary Net Position is expected to always be invested using a strategy to achieve the long-term expected rate of return on pension plan investments.

The benefit payments that are projected to occur in a period are discounted using the long-term expected rate of return on pension plan investments if the amount of the pension plan's beginning Fiduciary Net Position is projected to be sufficient to make the benefit payments in that period. In periods in which benefit payments are projected to be greater than the amount of the pension plan's Fiduciary Net Position, they are discounted using a municipal bond rate as required by GASB 67.

For purposes of this valuation, the long-term expected rate of return on pension plan investments is 7%; the municipal bond rate is 3.26%, based on the December 2023 Bond Buyer Index as published by the Federal Reserve. For each period, the pension plan's Fiduciary Net Position is projected to be sufficient to make the benefit payments in that period, therefore, the resulting single discount rate is based solely on the long-term expected rate of return of 7%.