

City of Logan West Virginia Firemen's Pension and Relief Fund

GASB 68 Actuarial Information for the Measurement Period Ending June 30, 2023

Bolton

Submitted by:

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December 7, 2023

Mr. Jeff Vallet City Treasurer City of Logan 219 Dingess Street Logan, WV 25601 Captain Gregory Williams Pension Board Secretary City of Logan Firemen's Pension and Relief Fund

Re: City of Logan Firemen's Pension and Relief Fund GASB 68 Actuarial Information for the Measurement Period Ending June 30, 2023

Dear Jeff,

The following report contains the GASB 67 and GASB 68 actuarial information for the City of Logan Firemen's Pension and Relief Fund to be included in the City's financial statements for FY 2023. The GASB 67 information has been provided as of June 30, 2023 (the GASB 68 measurement date for FY 2023).

Methodology, Reliance and Certification

This report is prepared for the City. The report contains the actuarial information to be included with the City's financial statements for the year ending June 30, 2023 (the City's fiscal year end date) as required by GASB 68. This information has been prepared for use in the financial statements of the City. This information is not intended for, nor should it be used for, any additional purposes.

The total pension liability is based on the July 1, 2022 actuarial valuation rolled forward to June 30, 2023. The methods, assumptions, and participant data used are detailed in the July 1, 2022 actuarial valuation report with the exception of the actuarial cost method. These calculations are based on the Entry Age Normal cost method as required by GASB 67. The calculation of the Actuarially Determined Contribution for the fiscal year ending June 30, 2023 is contained in the July 1, 2021 actuarial valuation report. The discount rate assumption may have changed if a blended rate was used for GASB purposes.

The included calculations assume that the members and the City will continue to make all required contributions in accordance with the City's funding policy.

The long-term nominal expected rate of return on pension plan investments was determined using a methodology approved by the Municipal Pensions Oversight Board (MPOB) and is based on the funded status (current and projected), equity exposure, and funding policy.

These calculations and comparisons with assets are applicable for the valuation date only. The future is uncertain, and the plan may become better funded or more poorly funded in the future. This valuation does not provide any guarantee that the plan will be able to provide the promised benefits in the future.

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Methodology, Reliance and Certification (cont.)

This is a deterministic valuation in that it is based on a single set of assumptions. This set of assumptions is one possible basis for our calculations. Other assumptions may be equally valid. The future is uncertain and the plan's actual experience will differ from the assumptions; the differences may be significant or material because the results are very sensitive to the assumptions made and, in some cases, to the interaction between the assumptions. We may consider that some factors are not material to the valuation of the plan and may not provide a specific assumption for those factors. We may have used other assumptions in the past. We will likely consider changes in assumptions at a future date.

The City is responsible for selecting the plan's funding policy based on five methods allowed for under state law. The actuarial valuation methods are chosen by the actuary in accordance with actuarial standards of practice promulgated by the Actuarial Standards Board of the American Academy of Actuaries and as required by GASB 67 & 68. The MPOB selects the asset valuation methods and assumptions; these selections are reviewed by a qualified actuary no less than every five years. The actuarial process. The policies, methods and assumptions used in this valuation are those that have been so prescribed and are described in this report. The City and MPOB are solely responsible for communicating to Bolton Partners, Inc. any changes required thereto.

The City could reasonably ask how the valuation would change if we used a different assumption set or if plan experience exhibited variations from our assumptions. This report does not contain such an analysis. That type of analysis would be a separate assignment.

The cost of this plan is determined by the benefits promised by the plan, the plan's participant population, the investment experience of the plan and many other factors. An actuarial valuation is a budgeting tool for the City or, in this case, a measure of accounting expense. It does not affect the cost of the plan. As the experience of the plan evolves, it is normal for the level of contributions and expense of the plan to change.

We make every effort to ensure that our calculations are accurately performed. We reserve the right to correct any potential errors by amending the results of this report or by including the corrections in a future valuation report.

Because modeling all aspects of a situation is not possible or practical, we may use summary information, estimates, or simplifications of calculations to facilitate the modeling of future events in an efficient and cost-effective manner. We may also exclude factors or data that are immaterial in our judgment. Use of such simplifying techniques does not, in our judgment, affect the reasonableness of valuation results for the plan.

This report is based on plan provisions, census data, and asset data submitted by the City. We have relied on this information for purposes of preparing this report, but have not performed an audit. The accuracy of the results presented in this report is dependent upon the accuracy and completeness of the underlying information. The plan sponsor is solely responsible for the validity and completeness of this information.

The valuation was completed using both proprietary and third-party models (including software and tools). We have tested these models to ensure they are used for their intended purposes, within their known limitations, and without any known material inconsistencies unless otherwise stated.



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Methodology, Reliance and Certification (cont.)

The City is solely responsible for selecting the plan's investment policies, asset allocations and individual investments. Bolton Partners, Inc.'s actuaries have not provided any investment advice to the City.

The information in this report was prepared for the internal use of the City, the plan and their auditors in connection with our actuarial valuations of the pension plan as required by GASB 68. This report may not be used for any other purpose; Bolton Partners, Inc. is not responsible for the consequences of any unauthorized use or the reliance on this information by any other party.

The calculation of actuarial liabilities for valuation purposes is based on a current estimate of future benefit payments. The calculation includes a computation of the "present value" of those estimated future benefit payments using an assumed discount rate; the higher the discount rate assumption, the lower the estimated liability will be. For purposes of estimating the liabilities (future and accrued) in this report, an assumption based on the expected long-term rate of return on plan investments is used. If the plan is expected to become insolvent, the return assumption is blended with a long-term municipal bond rate. Using a lower discount rate assumption, such as a rate solely based on long-term bond yields, could substantially increase the estimated present value of future and accrued liabilities.

This report provides certain financial calculations for use by the auditor. These values have been computed in accordance with our understanding of generally accepted actuarial principles and practices and fairly reflect the actuarial position of the Plan. The various actuarial assumptions and methods which have been used are, in our opinion, appropriate for the purposes of this report.

The report is conditioned on the assumption of an ongoing plan and is not meant to present the actuarial position of the plan in the case of plan termination. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions, changes in economic or demographic assumptions, increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status), and changes in plan provisions or applicable law.

The undersigned enrolled actuaries meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. The July 1, 2022 actuarial valuation report contains information that is integral to the results contained herein and a copy may be provided upon request.

Sincerely,

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James Ritchie, ASA, EA, FCA, MAAA

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Jordan McClane, FSA, EA, FCA, MAAA





Net Pension Liability of the Employer

The components of the net pension liability of the Employer at June 30, 2023, were as follows:

Total pension liability	\$ 2,688,914
Plan fiduciary net position	 (2,061,918)
Employer's net pension liability	\$ 626,996
Plan fiduciary net position as a percentage	76.68%
of the total pension liability	

Actuarial assumptions. The total pension liability was determined by an actuarial valuation as of July 1, 2022 rolled forward to June 30, 2023 using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	2.50 percent
Salary increases	Rates vary by years of service
Single discount rate (BOY)	6.50%
Single discount rate (EOY)	6.50%
Investment rate of return (BOY)	6.50%, net of pension plan investment expense, including inflation
Investment rate of return (EOY)	6.50%, net of pension plan investment expense, including inflation
Long-term municpal bond rate (BOY)	3.69%
Long-term municpal bond rate (EOY)	3.86%
Mortality	SOA PubS-2010(B) with generational projection using Scale MP-2019
Year Fund is projected to be fully funded	2033
Year assets are expected to be depleted	N/A
for a closed plan	

The above is a summary of key actuarial assumptions. Full descriptions of the actuarial assumptions are available in the July 1, 2022 actuarial valuation report.

Sensitivity of the net pension liability to changes in the discount rate

	1%	Decrease 5.50%	Current count Rate 6.50%	e 1% Increase 7.50%		
Employer's net pension liability	\$	1,112,499	\$ 626,996	\$	239,066	



Changes in the Net Pension Liability

	То	tal Pension Liability (a)	Pla	ase (Decrease an Fiduciary et Position (b)	Ne	t Pension Liability (a) - (b)
Balances at 6/30/22	\$	2,418,049	\$	1,576,137	\$	841,912
Changes for the year:						
Service cost		118,058				118,058
Interest		156,699				156,699
Changes of benefit terms		-				-
Differences between expected and actual experience		10,705				10,705
Changes of assumptions		-				-
Contributions - employer (including Premium Tax Allocation)				266,966		(266,966)
Contributions - member				29,175		(29,175)
Net investment income				204,237		(204,237)
Benefit payments, including refunds of member contributions		(14,597)		(14,597)		-
Administrative expense				-		-
Other				-		-
Net Changes		270,865		485,781		(214,916)
Balances at 6/30/23	\$	2,688,914	\$	2,061,918	\$	626,996
Return on Investments				11.9%		



Components of Employer's Pension Expense for the Fiscal Year Ended June 30, 2023

Note	Description	Amount
А	Service cost	\$ 118,058
В	Interest on the total pension liability	156,699
А	Changes of benefit terms	-
С	Differences between expected and actual experience	(41,761)
С	Changes of assumptions	(26,386)
А	Employee contributions	(29,175)
D	Projected earnings on pension plan investments	(111,599)
С	Differences between expected and actual earnings on	27,055
	plan investments	
А	Pension plan administrative expense	-
А	Other changes in fiduciary net position	-
	Total Pension Expense	\$ 92,891

Notes:

- A Provided in the Changes in Net Pension Liability exhibit.
- B Based on the following calculation:

	ļ	Amount for Period (a)	Portion of Period (b)	Interest Rate (c)	E	rojected arnings x (b) x (c)
Beginning total pension liability	\$	2,418,049	100%	6.50%	\$	157,173
Service cost (End of Year)		118,058	0%	6.50%		-
Benefit payments, including refunds of employee contributions		(14,597)	50%	6.50%		(474)
Total interest on the total pension liability					\$	156,699

C Provided in the Schedules of Deferrals.

D Based on the following calculation:

	A	mount for Period (a)	Portion of Period (b)	Projected Rate of Return (c)	E	rojected arnings x (b) x (c)
Beginning plan fiduciary net position	\$	1,576,137	100%	6.50%	\$	102,449
Employer contributions		266,966	50%	6.50%		8,676
Employee contributions		29,175	50%	6.50%		948
Benefit payments, including refunds of employee contributions		(14,597)	50%	6.50%		(474)
Administrative expense and other		-	50%	6.50%		-
Total Projected Earnings					\$	111,599



Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

At June 30, 2023, the Employer reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	red Outflows Resources	erred Inflows Resources
Differences between expected and actual experience	\$ 191,880	\$ 324,629
Changes of assumptions	1,108,497	1,557,100
Net difference between projected and actual earnings	71,799	
on pension plan investments		-
Total	\$ 1,372,176	\$ 1,881,729

Amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense as follows:

Year ended June 30:	
2024	\$ (52,577)
2025	(80,801)
2026	(321)
2027	(84,391)
2028	(39,672)
Thereafter	(251,791)

Changes in the Employer's Net Pension Liability and Related Ratios Last 10 Fiscal Years

Total pension liability	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
Service cost	\$ 118,058	\$ 124,041	\$ 306,479	\$ 125,670	\$ 118,586	\$ 125,693	\$ 117,920	\$ 92,930	\$ 72,671	\$ 80,210
Interest	156,699	126,328	114,059	116,893	118,558	109,670	97,754	82,266	93,116	77,676
Changes of benefit terms	-	-	-	-	-		-	-	-	-
Differences between expected and actual experience	10,705	231,469	(214,943)	13,914	(236,286)	3,426	(18,404)	(318,455)	147,902	-
Changes of assumptions	-	-	(2,335,648)	1,907,189	-	-	-	218,708	-	-
Benefit payments, including refunds of member contributions	(14,597)	(14,596)	(14,596)	(32,849)	(24,384)	(24,384)	(24,384)	(24,384)	(24,384)	(24,384)
Net change in total pension liability	 270,865	467,242	(2,144,649)	2,130,817	(23,526)	214,405	172,886	51,065	289,305	133,502
Total pension liability - beginning	2,418,049	1,950,807	4,095,456	1,964,639	1,988,165	1,773,760	1,600,874	1,549,809	1,260,504	1,127,002
Total pension liability - ending (a)	\$ 2,688,914	\$ 2,418,049	\$ 1,950,807	\$ 4,095,456	\$ 1,964,639	\$ 1,988,165	\$ 1,773,760	\$ 1,600,874	\$ 1,549,809	\$ 1,260,504

Plan fiduciary net position		2023		2022		2021		2020		2019		2018		2017		2016		2015		2014
Contributions - employer (including Premium Tax Allocation)	\$	266,966	\$	288,371	\$	214,382	\$	51,752	\$	108,620	\$	84,580	\$	92,286	\$	69,324	\$	17,425	\$	59,943
Contributions - member		29,175		30,759		27,883		25,266		24,144		27,675		16,770		21,178		18,747		21,205
Net investment income		204,237		(326,036)		428,765		(81,103)		40,513		27,588		25,067		11,169		(10,562)		55,592
Benefit payments, including refunds of member contributions		(14,597)		(14,596)		(14,596)		(32,849)		(24,384)		(24,384)		(24,384)		(24,384)		(24,384)		(24,384)
Administrative expense		-		-		-		-		-		-		-		-		-		-
Other		-		-	_	-		-		-	_	-		-		-		-		-
Net change in plan fiduciary net position	\$	485,781	\$	(21,502)	\$	656,434	\$	(36,934)	\$	148,893	\$	115,459	\$	109,739	\$	77,287	\$	1,226	\$	112,356
Plan fiduciary net position - beginning		1,576,137		1,597,639		941,205		978,139		829,246		713,787		604,048		596,085		594,859		482,503
Plan fiduciary net position - ending (b)	\$	2,061,918	\$	1,576,137	\$	1,597,639	\$	941,205	\$	978,139	\$	829,246	\$	713,787	\$	673,372	\$	596,085	\$	594,859
Employer's net pension liability - ending (a)-(b)	\$	626,996	\$	841,912	\$	353,168	\$	3,154,251	\$	986,500	\$	1,158,919	\$	1,059,973	\$	927,502	\$	953,724	\$	665,645
Plan fiduciary net position as a percentage of the																				
total pension liability		76.68%		65.18%		81.90%		22.98%		49.79%		41.71%		40.24%		42.06%		38.46%		47.19%
Covered payroll	\$	370,628	\$	378,964	\$	342,161	\$	331,371	\$	317,429	\$	339,497	\$	321,704	\$	313,040	\$	249,901	\$	279,887
	•		+		+	,	•		•	•,.=•	*		+		+	,	+		•	,
Employer's net pension liability as a percentage of																				
covered payroll		169.17%		222.16%		103.22%		951.88%		310.78%		341.36%		329.49%		296.29%		381.64%		237.83%
Expected average remaining service years of all participants		8.00		8.00		9.00		9.00		9.00		9.17		9.65		10.31		8.52		N/A

Notes to Schedule:

Benefit changes: There were no changes for FY2023.

Changes of assumptions: There were no changes for FY2023.

*The Plan Fiduciary Net Position as of July 1, 2019 provided to Bolton by the City does not match the Plan Fiduciary Net Position as of June 30, 2019 as provided in the prior GASB report. The difference of -\$4,351 has been included as investment income for the measurement period ending June 30, 2020.

*The Plan Fiduciary Net Position as of June 30, 2016 includes a contribution receivable of \$69,324. This receivable is excluded from the July 1, 2017 Plan Fiduciary Net Position.

Schedule of Employer Contributions Last 10 Fiscal Years

	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
Actuarially determined contribution	\$ 204,616	\$ 175,721	\$ 214,135	\$ 194,610	\$ 211,104	\$ 185,219	\$ 175,788	\$ 133,581	\$ 121,074	\$ 145,883
Contributions in relation to the actuarially determined contribution										
Employer provided	201,000	219,623	146,667	51,752	74,807	51,770	22,962	40,811	10,000	26,000
State provided	65,966	68,748	67,715	-	33,813	32,810	-	28,513	7,425	33,943
Contribution deficiency (excess)	\$ (62,350)	\$ (112,650)	\$ (247)	\$ 142,858	\$ 102,484	\$ 100,639	\$ 152,826	\$ 64,257	\$ 103,649	\$ 85,940
Covered payroll	\$ 370,628	\$ 378,964	\$ 342,161	\$ 331,371	\$ 317,429	\$ 339,497	\$ 321,704	\$ 313,040	\$ 249,901	\$ 279,887
Contributions as a percentage of covered employee payroll	72.03%	76.09%	62.66%	15.62%	34.22%	24.91%	7.14%	22.15%	6.97%	21.42%

Notes to Schedule

Valuation date:

Actuarial determined contribution amounts are calculated as of the beginning of the fiscal year (July 1) for the year immediately following the fiscal year. The assumption shown below are those used in the 7/1/2021 actuarial valuation to calculate the FY2023 ADC. Assumptions used to determine all contributions in the past would not have been the same.

Methods and assumptions used to determine	e contribution rates:
Actuarial cost method	Entry Age Normal
Amortization method	Level Dollar
Remaining amortization period	9 to 15 years
Asset valuation method	4-year smoothed market
Inflation	2.50 percent
Salary increases	Rates vary by years of service
Investment rate of return	6.50%, net of pension plan investment expense, including inflation
Retirement age	Rates vary by age
Mortality	SOA PubS-2010(B) with generational projection using Scale MP-2019

Schedule of Differences between Projected and Actual Earnings on Pension Plan Investments

In conformity with paragraph 33b of Statement 68, the effects of differences between projected and actual earnings on pension plan investments are recognized in pension expense using a systematic and rational method over a closed five-year period, beginning in the current reporting period. The following table illustrates the application of this requirement.

Year	betwee and Act on Pe	ferences en Projected ual Earnings insion Plan estments	Recognition Period (Years)	2019	2020	2021	2022	2023	2024	4	2	025	2026	2027
2019	\$	12,493	5	\$ 2,499	2,499	2,499	2,499	2,497						
2020		141,117	5		\$ 28,223	28,223	28,223	28,223	2	28,225				
2021		(365,464)	5			\$ (73,093)	(73,093)	(73,093)	(7	73,093)		(73,092)		
2022		439,781	5				\$ 87,956	87,956	8	37,956		87,956	87,957	
2023		(92,638)	5					\$ (18,528)	(1	18,528)		(18,528)	(18,528)	(18,5
let increa	se (decrea	ase) in pension	expense					\$ 27,055	\$ 2	24,560	\$	(3,664)	\$ 69,429	\$ (18,5

Deferred Outflows of Resources and Deferred Inflows of Resources Arising from Differences between Projected and Actual Earnings on Pension Plan Investments

					Balar June 3	
Year	tment Earnings than Projected (a)	Investment Earnings Greater Than Projected (b)	Amounts Recognized in Pension Expense Through June 30, 2023 (c)	С	Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2019	\$ 12,493	\$ -	\$ 12,493	\$	-	\$ -
2020	141,117	-	112,892		28,225	-
2021	-	365,464	219,279		-	146,185
2022	439,781	-	175,912		263,869	-
2023	-	92,638	18,528		-	74,110
				\$	292,094	\$ 220,295

Schedule of Differences between Expected and Actual Experience

In conformity with paragraph 33a of Statement 68, the effects of differences between expected and actual experience are recognized in pension expense, beginning in the current reporting period, using a systematic and rational method over a closed period equal to the average of the remaining service lives of all employees that are provided with pensions through the pension plan (active and inactive employees), determined as of the beginning of the measurement period. The following table illustrates the application of this requirement.

									Increas	e (Decrease) i	n Pensior	n Expense	Arising from	n the	Recognition	of Diffe	rences b	etwee	n Expected	l and A	ctual Expe	rience						
Year	Differences between Expected and Actual Experience	Recognition Period (Years)	Prior	2014	20	015	2016	2(017	2018	20	119	2020		2021	20	022		2023		2024	2025	2026	2	027	2028	The	reafter
Prior																												
2014	-	-																										
2015	147,902	8.517493			\$	17,364	17,364		17,364	17,364	1	17,364	17,364		17,364	1	17,364		8,990									
2016	(318,455)	10.306535				\$	(30,898)	((30,898)	(30,898)	(3	30,898)	(30,898)		(30,898)	(3	30,898)		(30,898)		(30,898)	(30,898)	(9,475)					
2017	(18,404)	9.646158						\$	(1,908)	(1,908)	((1,908)	(1,908)		(1,908)		(1,908)		(1,908)		(1,908)	(1,908)	(1,232)					
2018	3,426	9.170446								\$ 374		374	374		374		374		374		374	374	374		60			
2019	(236,286)	9.000000									\$ (2	26,254)	(26,254)		(26,254)	(2	26,254)		(26,254)		(26,254)	(26,254)	(26,254)		(26,254)			
2020	13,914	9.000000										9	5 1,546		1,546		1,546		1,546		1,546	1,546	1,546		1,546	1,546		-
2021	(214,943)	9.000000												\$	(23,883)	(2	23,883)		(23,883)		(23,883)	(23,883)	(23,883)		(23,883)	(23,883)	((23,879)
2022	231,469	8.000000														\$ 2	28,934		28,934		28,934	28,934	28,934		28,934	28,934		28,931
2023	10,705	8.000000																\$	1,338		1,338	1,338	1,338		1,338	1,338		2,677
Net increase	se (decrease) in per	sion expense																\$	(41,761)	\$	(50,751)	\$ (50,751)	\$ (28,652)	\$	(18,259)	\$ 7,935	\$	7,729

Deferred Outflows of Resources and Deferred Inflows of Resources Arising from Differences between Expected and Actual Experience

Year	Experience Losses (a)	Experience Gains (b)	Amounts Recognized in Pension Expense Through June 30, 2023 (c)		ces at 0, 2023 Deferred Inflows of Resources (b) - (c)
		(b) S -			
Prior	•	•		\$-	\$-
2014	-	-	-	-	-
2015	147,902	-	147,902		-
2016	-	318,455	247,184		71,271
2017	-	18,404	13,356	-	5,048
2018	3,426		2,244	1,182	-
2019		236.286	131.270	-	105.016
2020	13.914	-	6.184	7.730	-
2021	-	214.943	71.649	-	143.294
2022	231,469	-	57.868	173.601	-
2023	10,705		1,338	9,367	
				\$ 191,880	\$ 324,629

In conformity with paragraph 33a of Statement 68, the effects of changes of assumptions should be recognized in pension expense, beginning in the current reporting period, using a systematic and rational method over a closed period equal to the average of the remaining service lives of all employees that are provided with pensions through the pension functional method over a closed period equal to the average of the remaining service lives of all employees that are provided with pensions through the pension and the pension and rational method over a closed period equal to the average of the remaining service lives of all employees that are provided with pensions through the pension plan (active and inactive employees), determined as of the beginning of the measurement period. The following table illustrates the application of this requirement.

								Incre	ease (Decrease) in Pension Exp	nse Arising from	the Effects of Cha	anges of Assumptic	ons					
	Changes of	Recognition Period																	
Year	Assumptions	(Years)	Prior	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Thereafter
Prior	\$-																		
2014	-	-																	
2015	-	8.517493																	
2016	218,708	10.306535				\$ 21,220	21,220	21,220	21,220	21,220	21,220	21,220	21,220	21,220	21,220	6,508			
2017	-	9.646158																	
2018	-	9.170446																	
2019	-	9.000000																	
2020	1,907,189	9.000000								\$ 211,910	211,910	211,910	211,910	211,910	211,910	211,910	211,910	211,909	-
2021	(2,335,648)	9.000000									\$ (259,516)	(259,516)	(259,516)	(259,516)	(259,516)	(259,516)	(259,516)	(259,516)	(259,520)
2022		8.000000																	-
2023		8.000000																	-
Net increas	e (decrease) in per	ision expense										\$	\$ (26,386) \$	(26,386)	\$ (26,386)	\$ (41,098)	\$ (47,606)	\$ (47,607)	\$ (259,520)

9

Deferred Outflows of Resources and Deferred Inflows of Resources Arising from Changes of Assumptions

					ices at 0, 2023		
Year	Increases in the Total Pension Liability (a)	Decreases in the Total Pension Liability (b)	Amounts Recognized in Pension Expense Through June 30, 2023 (c)	Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)		
Prior	\$-	\$-	\$-	\$-	\$-		
2014	-	-	-	-			
2015	-	-		-			
2016	218,708	-	169,760	48,948			
2017	-	-		-			
2018	-	-	-	-			
2019	-	-		-			
2020	1,907,189	-	847,640	1,059,549			
2021	-	2,335,648	778,548	-	1,557,100		
2022	-	-	-	-			
2023		-		-			
				\$ 1.108.497	\$ 1,557,100		