

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

GASB 68 Actuarial Information for the Measurement Period Ending June 30, 2021

Bolton

Submitted by:

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November 12, 2021

Mrs. Kimberly Karakiozis Finance Director City of Clarksburg 222 W. Main Street Clarksburg, WV 26301 Lieutenant Gino Gallo Pension Board Secretary City of Clarksburg Firemen's Pension and Relief Fund

Re: City of Clarksburg Firemen's Pension and Relief Fund GASB 68 Actuarial Information for the Measurement Period Ending June 30, 2021

Dear Kimberly,

The following report contains the GASB 67 and GASB 68 actuarial information for the City of Clarksburg Firemen's Pension and Relief Fund to be included in the City's financial statements for FY 2021. The GASB 67 information has been provided as of June 30, 2021 (the GASB 68 measurement date for FY 2021).

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, 2021 (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, 2020 actuarial valuation rolled forward to June 30, 2021. The methods, assumptions, and participant data used are detailed in the July 1, 2020 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 (ADC) for the fiscal year ending June 30, 2021 is contained in the July 1, 2019 actuarial valuation report. The discount rate assumption may have changed if a blended rate was used for GASB purposes.

The included calculations are based on the valuation discount rate of 5.50%. The plan's expected gross rate of investment return of 5.50% has been blended with the 1.92% yield corresponding to the 20-year maturity on a municipal general obligation AA bond yield curve published on Fidelity's Fixed Income Market Data webpage as of June 30, 2021. The development of the blended discount rate is included within this report. Since the plan assets are estimated to be sufficient to cover benefit payments throughout the projection period, the liability discount rate used for this June 30, 2021 measurement date is equal to the plan's expected rate of investment return.

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.

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.

Mrs. Kimberly Karakiozis November 12, 2021 Page 2

Methodology, Reliance and Certification (cont.)

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.

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 four 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 actuary shall provide a report to the Board with recommendations on any changes to 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.

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.



Mrs. Kimberly Karakiozis November 12, 2021 Page 3

Methodology, Reliance and Certification (cont.)

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 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, 2020 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



City of Clarksburg, West Virginia Firemen's Pension and Relief Fund

Actuarial Information to Include in the Financial Statements for the June 30, 2021 Measurement Date



Net Pension Liability of the Employer

The components of the net pension liability of the Employer at June 30, 2021, were as follows:

Total pension liability	\$ 34,592,764
Plan fiduciary net position	(15,192,901)
Employer's net pension liability	\$ 19,399,863
Plan fiduciary net position as a percentage of the total pension liability	43.92%

Actuarial assumptions. The total pension liability was determined by an actuarial valuation as of July 1, 2020 rolled forward to June 30, 2021 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)	5.00%
Single discount rate (EOY)	5.50%
Investment rate of return (BOY)	5.00%, net of pension plan investment expense, including inflation
Investment rate of return (EOY)	5.50%, net of pension plan investment expense, including inflation
Long-term municpal bond rate (BOY)	2.45%
Long-term municpal bond rate (EOY)	1.92%
Mortality	SOA PubS-2010(B) with generational projection using Scale MP-2019
Year Fund is projected to be fully funded	2039
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, 2020 actuarial valuation report.

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

		Current		
	1% Decrease 4.50%	Discount Rate 5.50%	1% Increase 6.50%	
Employer's net pension liability	\$ 24,228,294	\$ 19,399,863	\$ 15,469,640	

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Changes in the Net Pension Liability

ension Plan Fiduciary Net Position (b) 062,631 \$ 11,294,578 044,371 368,340		Liability (a) - (b) 26,768,053 944,371
944,371	\$	
,		944,371
,		944,371
368,340		
		1,868,340
-		-
198,743)		(198,743)
692,144)		(4,692,144)
2,399,993)	(2,399,993)
185,487		(185,487)
2,712,034		(2,712,034)
391,691) (1,391,691)	-
(7,500)	7,500
-		-
469,867) 3,898,323	,	(7,368,190)
592,764 \$ 15,192,901	\$	19,399,863
	185,487 2,712,034 391,691) (1,391,691 (7,500 - 469,867) 3,898,323	692,144) 2,399,993 185,487 2,712,034 391,691) (1,391,691) (7,500) - 469,867) 3,898,323

Return on Investments

22.8%



Components of Employer's Pension Expense for the Fiscal Year Ended June 30, 2021

Note	Description	Amount
А	Service cost	\$ 944,371
В	Interest on the total pension liability	1,868,340
А	Changes of benefit terms	-
С	Differences between expected and actual experience	164,380
С	Changes of assumptions	(1,564,048)
А	Employee contributions	(185,487)
D	Projected earnings on pension plan investments	(594,386)
С	Differences between expected and actual earnings on	(459,648)
	plan investments	
А	Pension plan administrative expense	7,500
А	Other changes in fiduciary net position	-
	Total Pension Expense	\$ 181,022

Notes:

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

	Amount for Period (a)	Portion of Period (b)	Interest Rate (c)	Projected Earnings (a) x (b) x (c)
Beginning total pension liability	\$ 38,062,631	100%	5.00%	\$ 1,903,132
Service cost (End of Year)	944,371	0%	5.00%	-
Benefit payments, including refunds of employee contributions	(1,391,691)	50%	5.00%	(34,792)
Total interest on the total pension liability				\$ 1,868,340

C Provided in the Schedules of Deferrals.

D Based on the following calculation:

	Amount for Period (a)	Portion of Period (b)	Projected Rate of Return (c)	E	rojected arnings x (b) x (c)
Beginning plan fiduciary net position	\$ 11,294,578	100%	5.00%	\$	564,729
Employer contributions	2,399,993	50%	5.00%		60,000
Employee contributions	185,487	50%	5.00%		4,637
Benefit payments, including refunds of employee contributions	(1,391,691)	50%	5.00%		(34,792)
Administrative expense and other	(7,500)	50%	5.00%		(188)
Total Projected Earnings				\$	594,386



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

At June 30, 2021, the Employer reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	 ed Outflows Resources	Deferred Inflows of Resources		
Differences between expected and actual experience	\$ 718,555	\$	132,495	
Changes of assumptions	-		3,128,096	
Net difference between projected and actual earnings	-			
on pension plan investments			1,523,173	
Total	\$ 718,555	\$	4,783,764	

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:	
2022	\$ (1,584,948)
2023	(1,712,101)
2024	(344,632)
2025	(423,528)
2026	-
Thereafter	-

City of Clarksburg, West Virginia Firemen's Pension and Relief Fund Actuarial Information to Include in the Financial Statements

for the June 30, 2021 Measurement Date

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

Total pension liability	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Service cost	\$ 944,371	\$ 948,245	\$ 906,710	\$ 911,837	\$ 1,041,846	\$ 739,794	\$ 735,159	\$ 729,815	\$-	\$-
Interest	1,868,340	1,744,625	1,646,488	1,604,493	1,540,729	1,503,073	1,480,035	1,492,730	-	-
Changes of benefit terms	-	-	-	-	-	-	-	-	-	-
Differences between expected and actual experience	(198,743)	1,107,034	660,159	(1,021,000)	(1,006,489)	(511,633)	(837,150)	-	-	-
Changes of assumptions	(4,692,144)	-	-	-	(2,433,972)	4,020,701	-	-	-	-
Benefit payments, including refunds of member contributions	(1,391,691)	(1,259,528)	(1,241,719)	(1,199,305)	(1,223,009)	(1,239,292)	(1,250,939)	(1,303,181)	-	-
Net change in total pension liability	(3,469,867)	2,540,376	1,971,638	296,025	(2,080,895)	4,512,643	127,105	919,364	-	-
Total pension liability - beginning	38,062,631	35,522,255	33,550,617	33,254,592	35,335,487	30,822,844	30,695,739	29,776,375	-	-
Total pension liability - ending (a)	\$ 34,592,764	\$ 38,062,631	\$ 35,522,255	\$ 33,550,617	\$ 33,254,592	\$ 35,335,487	\$ 30,822,844	\$ 30,695,739	\$-	\$-
Plan fiduciary net position	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Contributions - employer (including Premium Tax Allocation)	\$ 2,399,993	\$ 2,298,344	\$ 2,034,183	\$ 2,029,582	\$ 1,790,929	\$ 1,361,271	\$ 1,288,742	\$ 1,210,474	\$ -	\$-
Contributions - member	185,487	176,172	167,038	155,596	148,321	145,720	140,550	135,019	Ψ -	÷ -
Net investment income	2,712,034	133,379	517,666	561,109	586,180	315,511	185,060	465,521	-	-
Benefit payments, including refunds of member contributions	(1,391,691)	(1,259,528)	(1,241,719)	(1,199,305)	(1,223,009)	(1,239,292)	(1,250,939)	(1,303,181)	-	-
Administrative expense	(7,500)	(7,500)	(·,_ · · , · · · ·)	(7,500)	(7,500)	(6,000)	(6,000)	(6,000)	-	-
Other	-		(7,500)	-	-	-	-	(-,, -	-	-
Net change in plan fiduciary net position	\$ 3,898,323	\$ 1,340,867	\$ 1,469,668	\$ 1,539,482	\$ 1,294,921	\$ 577,210	\$ 357,413	\$ 501,833	\$ -	\$-
Plan fiduciary net position - beginning	11,294,578	9,953,711	8,484,043	6,944,559	5,649,638	5,072,427	4,715,014	4,213,181	-	-
Plan fiduciary net position - ending (b)	\$ 15,192,901	\$ 11,294,578	\$ 9,953,711	\$ 8,484,043	\$ 6,944,559	\$ 5,649,637	\$ 5,072,427	\$ 4,715,014	\$-	\$-
Employer's net pension liability - ending (a)-(b)	\$ 19,399,863	\$ 26,768,053	\$ 25,568,544	\$ 25,066,574	\$ 26,310,033	\$ 29,685,850	\$ 25,750,417	\$ 25,980,725	<u>\$ -</u>	\$-
Plan fiduciary net position as a percentage of the										
otal pension liability	43.92%	29.67%	28.02%	25.29%	20.88%	15.99%	16.46%	15.36%	0.00%	0.00%
Covered payroll	\$ 2,056,574	\$ 2,064,594	\$ 1,963,141	\$ 1,912,017	\$ 1,919,071	\$ 1,868,455	\$ 1,826,835	\$ 1,812,838	N/A	N/A
Employer's net pension liability as a percentage of covered payroll	943.31%	1296.53%	1302.43%	1311.00%	1370.98%	1588.79%	1409.56%	1433.15%	0.00%	0.00%
Expected average remaining service years of all participants	3.00	4.00	4.00	3.78	3.96	4.01	3.85	_	_	-

Notes to Schedule: Benefit changes:

There were no changes for FY2021.

Changes of assumptions:

The discount rate changed from 5.00% to 5.50%. Changes were made to salary scale assumptions, pay spiking assumptions, inflation, cost-of-living increases, mortality rates, retirement rates, termination rates, disability rates, marital status, and non-spouse beneficiary loads.



City of Clarksburg, West Virginia Firemen's Pension and Relief Fund Actuarial Information to Include in the Financial Statements

for the June 30, 2021 Measurement Date

Schedule of Employer Contributions Last 10 Fiscal Years

	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Actuarially determined contribution	\$ 2,453,333	\$ 2,340,972	\$ 2,327,809	\$ 2,026,406	\$ 2,031,009	\$ 2,124,224	\$ 1,697,409	\$ 1,676,866	\$ 1,603,979	\$-
Contributions in relation to the actuarially determined contribution										
Employer provided	1,863,796	1,861,120	1,581,814	1,592,742	1,345,298	936,850	867,454	803,198	743,702	-
State provided	536,197	437,224	452,369	436,840	445,631	424,421	421,288	407,276	473,392	-
Contribution deficiency (excess)	\$ 53,340	\$ 42,628	\$ 293,626	\$ (3,176)	\$ 240,080	\$ 762,953	\$ 408,667	\$ 466,392	\$ 386,885	\$-
Covered payroll	\$ 2,056,574	\$ 2,064,594	\$ 1,963,141	\$ 1,912,017	\$ 1,919,071	\$ 1,868,455	\$ 1,826,835	\$ 1,812,838	\$ 1,712,139	N/A
Contributions as a percentage of covered employee payroll	116.70%	111.32%	103.62%	106.15%	93.32%	72.86%	70.55%	66.77%	71.09%	N/A

Notes to Schedule

Valuation date:

Actuarially determined contribution amounts are calculated as of the beginning of the fiscal year (July 1) for the year immediately following the fiscal year. Actuarial valuations are performed every year.

Methods and assumptions used to determine co	ontribution rates:
Actuarial cost method	Entry Age Normal
Amortization method	Level Dollar
Remaining amortization period	30.5 years
Asset valuation method	Market Value
Inflation	2.75 percent
Salary increases	Rates vary by years of service
Investment rate of return	5.00%, net of pension plan investment expense, including inflation
Retirement age	Rates vary by age
Mortality	RP-2014 Blue Collar Mortality Table with generational projection using Scale MP-2014



Actuarial Information to Include in the Financial Statements for the June 30, 2021 Measurement Date

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	betw and A on	Differences veen Projected Actual Earnings Pension Plan nvestments	Recognition Period (Years)	2017	2018	2019	2020	2021	2022		2023	2024	2025
2017	\$	(316,000)	5	\$ (63,200)	(63,200)	(63,200)	(63,200)	(63,200)					
2018		(189,422)	5		\$ (37,884)	(37,884)	(37,884)	(37,884)	(37,88	6)			
2019		(69,664)	5			\$ (13,933)	(13,933)	(13,933)	(13,93	3)	(13,932)		
2020		394,494	5				\$ 78,899	78,899	78,89	9	78,899	78,898	
2021		(2,117,648)	5					\$ (423,530)	(423,53	0)	(423,530)	(423,530)	(423,528
Net increa	se (dec	rease) in pension	expense					\$ (459,648)	\$ (396,45	0) 9	\$ (358,563)	\$ (344,632)	\$ (423,528

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

						Balan June 3	
Year	tment Earnings than Projected (a)	Investment Earnings Greater Than Projected (b)		Amounts Recognized in Pension Expense Through June 30, 2021 (c)	O R	Deferred utflows of esources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2017	\$ -	\$ 316,000) \$	316,000	\$	-	\$ -
2018	-	189,422	2	151,536		-	37,886
2019	-	69,664	1	41,799		-	27,865
2020	394,494		-	157,798		236,696	-
2021	-	2,117,648	3	423,530		-	1,694,118
					\$	236,696	\$ 1,759,869



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.

	Differences between Expected and Actual	Recognition Period					Increase	(Decrease) in I	Pension Expense	e Arising from th	e Recognition o	f Differences be	ween Expected	and Actual Exp	erience				
Year	Experience	(Years)	Prior	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Thereafter
Prior	-	-														-	-	-	
2012	-	-																	
2013	-	-																	
2014	-	-																	
2015	(837,150)	3.852277					\$ (217,313)	(217,313)	(217,313)	(185,211)									
2016	(511,633)	4.009013						\$ (127,621)	(127,621)	(127,621)	(127,621)	(1,149)							
2017	(1,006,489)	3.958952							\$ (254,231)	(254,231)	(254,231)	(243,796)							
2018	(1,021,000)	3.782276								\$ (269,943)	(269,943)	(269,943)	(211,171)						
2019	660,159	4.000000									\$ 165,040	165,040	165,040	165,039					
2020	1,107,034	4.000000										\$ 276,759	276,759	276,759	276,757				
2021	(198,743)	3.000000											\$ (66,248)	(66,248)	(66,247)				_
let increa	se (decrease) in pe	nsion expense											\$ 164,380	\$ 375,550	\$ 210,510	\$-	\$-	\$-	\$

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, 2021 (c)		aces at 30, 2021 Deferred Inflows of Resources (b) - (c)
Prior	\$-	\$-	\$-	\$-	\$-
2012	-	-	-	-	-
2013	-	-	-	-	-
2014	-	-	-	-	-
2015	-	837,150	837,150	-	-
2016	-	511,633	511,633	-	-
2017	-	1,006,489	1,006,489	-	-
2018	-	1,021,000	1,021,000	-	-
2019	660,159	-	495,120	165,039	-
2020	1,107,034	-	553,518	553,516	-
2021	-	198,743	66,248	-	132,495
				\$ 718,555	\$ 132,495



Schedule of Changes of Assumptions

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 plan (active and inactive employees), determined as of the beginning of the measurement period. The following table illustrates the application of this requirement.

								Increa	se (Decrease) in Pe	nsion Expense	Arising from the	e Effects of Ch	anges of Assun	nptions					
Year	Changes of	Recognition Period	Prior	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Thereafter
	Assumptions	(Years)	PHO	2012	2013	2014	2013	2010	2017	2010	2019	2020	2021	2022	2023	2024	2025	2020	mereanter
Prior	ب 5	-																	-
2012	-	-																	
2013	-	-																	
2014	-	-																	
2015	-	3.852277																	
2016	4,020,701	4.009013						\$ 1,002,915	1,002,915	1,002,915	1,002,915	9,041							
2017	(2,433,972)	3.958952							\$ (614,802)	(614,802)	(614,802)	(589,566)							
2018	-	3.782276																	
2019	-	4.000000																	
2020	-	4.000000																	
2021	(4,692,144)	3.000000											\$ (1,564,048)	(1,564,048)	(1,564,048)				
Net increas	se (decrease) in pe	nsion expense											\$ (1,564,048)	\$ (1,564,048)	\$ (1,564,048)	\$-	\$-	\$-	\$-

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

	Increases in the Total Pension Liability	Decreases in the Total Pension Liability	Amounts Recognized in Pension Expense Through June 30, 2021	Balan June 3 Deferred Outflows of Resources	ces at 0, 2021 Deferred Inflows of Resources
Year	(a)	(b)	(c)	(a) - (c)	(b) - (c)
Prior	\$-	\$-	\$-	\$-	\$-
2012	-	-	-	-	-
2013	-	-	-	-	-
2014	-	-	-	-	-
2015	-	-	-	-	-
2016	4,020,701	-	4,020,701	-	-
2017	-	2,433,972	2,433,972	-	-
2018	-	-	-	-	-
2019	-	-	-	-	-
2020	-	-	-	-	-
2021	-	4,692,144	1,564,048	-	3,128,096
				\$-	\$ 3,128,096



Projection of Pension Plan's Fiduciary Net Position

	G	ross Normal C (BOY)	Cost	Emplo	yee Contribi (BOY)	utior	15	Emp	loyer Norr (BOY)		Cost		enses IOY)		Emp	loyer Cont (MOY)	ributic	ons	Premi	um Tax A (MOY)	locati	on
Fiscal Year	Current Members	Future Members	Total	Current Nembers	Future Members		Total	Current Iembers	Future Member		Total	urrent embers	iture nbers	Total	Current Members	Future Member		Total	Current embers	Future Member	S	Total
2021	\$ 763,339	\$-	\$ 763,339	\$ 154,100	\$-	\$	154,100	\$ 609,239	\$-		\$ 609,239	\$ 7,688	\$ - 9	\$ 7,688	\$ 1,244,276	\$-	\$	1,244,276	\$ 494,586	\$-	\$	494,586
2022	\$ 675,031	\$ 147,405	\$ 822,436	\$ 137,700	\$ 36,653	\$	174,353	\$ 537,331	\$ 110,7	52	\$ 648,083	\$ 7,631	\$ 249	\$ 7,880	\$ 1,217,369	\$ 114,0	06 \$	1,331,375	\$ 474,095	\$-	\$	474,095
2023	\$ 628,598	\$ 247,996	\$ 876,594	\$ 128,076	\$ 61,641	\$	189,717	\$ 500,522	\$ 186,3	55	\$ 686,877	\$ 7,737	\$ 502 \$	\$ 8,239	\$ 1,232,658	\$ 191,9	13 \$	1,424,571	\$ 477,880	\$ -	\$	477,880
2024	\$ 573,543	\$ 336,426	\$ 909,969	\$ 117,495	\$ 83,357	\$	200,852	\$ 456,048	\$ 253,0	69	\$ 709,117	\$ 7,756	\$ 772 \$	\$ 8,528	\$ 1,263,584	\$ 260,7	07 \$	1,524,291	\$ 498,976	\$ -	\$	498,976
2025	\$ 529,499	\$ 424,839	\$ 954,338	\$ 108,669	\$ 104,928	\$	213,597	\$ 420,830	\$ 319,9	11	\$ 740,741	\$ 7,771	\$ 1,055	\$ 8,826	\$ 1,301,345	\$ 329,6	46 \$	1,630,991	\$ 511,518	\$ -	\$	511,518
2026	\$ 493,027	\$ 510,158	\$ 1,003,185	\$ 101,266	\$ 125,611	\$	226,877	\$ 391,761	\$ 384,5	47	\$ 776,308	\$ 7,874	\$ 1,260	\$ 9,134	\$ 1,348,919	\$ 396,2	41 \$	1,745,160	\$ 524,373	\$ -	\$	524,373
2027	\$ 468,161	\$ 589,676	\$ 1,057,837	\$ 95,878	\$ 144,942	\$	240,820	\$ 372,283	\$ 444,7	34	\$ 817,017	\$ 7,883	\$ 1,479 \$	\$ 9,362	\$ 1,409,042	\$ 458,2	79 \$	1,867,321	\$ 538,603	\$ -	\$	538,603
2028	\$ 452,621	\$ 660,563	\$ 1,113,184	\$ 92,240	\$ 162,445	\$	254,685	\$ 360,381	\$ 498,1	18	\$ 858,499	\$ 7,888	\$ 1,708 \$	\$ 9,596	\$ 1,484,692	\$ 513,3	41 \$	1,998,033	\$ 555,625	\$ -	\$	555,625
2029	\$ 425,136	\$ 726,937	\$ 1,152,073	\$ 86,606	\$ 178,734	\$	265,340	\$ 338,530	\$ 548,2	203	\$ 886,733	\$ 7,987	\$ 1,849 \$	\$ 9,836	\$ 1,572,969	\$ 564,9	26 \$	2,137,895	\$ 571,770	\$ -	\$	571,770
2030	\$ 388,296	\$ 808,500	\$ 1,196,796	\$ 79,701	\$ 198,574	\$	278,275	\$ 308,595	\$ 609,9	26	\$ 918,521	\$ 7,985	\$ 2,097 \$	\$ 10,082	\$ 1,658,977	\$ 628,5	71 \$	2,287,548	\$ 590,015	\$ -	\$	590,015
2031	\$ 357,190	\$ 889,914	\$ 1,247,104	\$ 73,500	\$ 218,547	\$	292,047	\$ 283,690	\$ 671,3	67	\$ 955,057	\$ 7,977	\$ 2,357 \$	\$ 10,334	\$ 1,755,737	\$ 691,9	39 \$	2,447,676	\$ 604,806	\$ -	\$	604,806
2032	\$ 313,384	\$ 973,224	\$ 1,286,608	\$ 65,195	\$ 238,867	\$	304,062	\$ 248,189	\$ 734,3	57	\$ 982,546	\$ 8,070	\$ 2,623	\$ 10,693	\$ 1,862,108	\$ 756,9	05 \$	2,619,013	619,965		\$	619,965
2033	\$ 274,526	\$ 1,068,471	\$ 1,342,997	\$ 57,411	\$ 261,994	\$	319,405	\$ 217,115	\$ 806,4	77	\$ 1,023,592	\$ 8,163	\$ 2,797 \$	\$ 10,960	\$ 1,971,189	\$ 831,1	55 \$	2,802,344	\$ 637,177	\$ -	\$	637,177
2034	\$ 233,085	\$ 1,161,904	\$ 1,394,989	\$ 49,335	\$ 284,411	\$	333,746	\$ 183,750	\$ 877,4		\$ 1,061,243	\$ 8,144	\$ 3,196 \$	\$ 11,340	\$ 2,094,011	\$ 904,4		, ,	\$ 657,584	\$ -	\$	657,584
2035	\$ 199,723	\$ 1,261,429	\$ 1,461,152	\$ 42,532	\$ 308,284		350,816	\$ 157,191	\$ 953,1	45	\$ 1,110,336	\$ 8,119	\$ 3,505	\$ 11,624	\$ 2,225,893	\$ 982,5	11 \$	3,208,404	\$ 676,713	\$ -	\$	676,713
2036	\$ 155,859	\$ 1,347,285	\$ 1,503,144	\$ 33,682	\$ 328,323	\$	362,005	\$ 122,177	\$ 1,018,9	62	\$ 1,141,139	\$ 8,205	\$ 3,710 \$	\$ 11,915	\$ 2,382,674	\$ 1,050,3	18 \$	3,432,992	\$ 715,298	\$ -	\$	715,298
2037	\$ 120,327	\$ 1,457,462	\$ 1,577,789	\$ 26,309	\$ 354,111	\$	380,420	\$	\$ 1,103,3		\$ 1,197,369	\$ -,	\$ 4,157 \$	\$ 12,327	\$ 2,535,857	\$ 1,137,4	44 \$	3,673,301	\$ 740,962	\$ -	\$	740,962
2038	\$ 96,709	\$ 1,558,915	\$ 1,655,624	\$ 21,565	\$ 377,737	\$	399,302	\$ 75,144	\$ 1,181,1	78	\$ 1,256,322	\$ 8,128	\$ 4,507 \$	\$ 12,635	\$ 2,712,699	\$ 1,217,7	33 \$	3,930,432	\$ 759,484	\$ -	\$	759,484
2039	\$ 84,793	\$ 1,656,988	\$ 1,741,781	\$ 19,172	\$ 400,857	\$	420,029	\$ 65,621	\$ 1,256,1	31	\$ 1,321,752	\$ -,	\$ 4,752 \$	\$ 12,831	\$ 2,910,598	\$ 1,294,9	64 \$	4,205,562	\$ 308,392	\$ -	\$	308,392
2040	\$ 77,493	\$ 1,751,099	\$ 1,828,592	\$ 17,690	\$ 423,134		440,824	\$ 59,803	\$ 1,327,9	65	\$ 1,387,768	\$ 8,152	\$ 4,877 \$	\$ 13,029	\$ 69,578	\$ 1,368,8	72 \$	1,438,450	\$ -	\$ -	\$	-
2041	\$ 72,362	\$ 1,845,327	\$ 1,917,689	\$ 16,603	\$ 445,443	\$	462,046	\$ 55,759	\$ 1,399,8	84	\$ 1,455,643	\$ 8,091	\$ 5,138	\$ 13,229	\$ 65,362	\$ 1,443,0	04 \$	1,508,366	\$ -	\$ -	\$	-
2042	\$ 68,000	\$ 1,916,520		\$ 15,716	\$ 462,869	\$	478,585	\$ 52,284	\$ 1,453,6		\$ 1,505,935	\$ -, -	\$ 5,274 \$	\$ 13,431	\$ 61,860	\$ 1,498,3		1,560,225	\$ -	\$ -	\$	-
2043	\$ 64,785	\$ 1,989,377	. , ,	\$ - / -	\$ 481,418		496,432	\$ 49,771	\$ 1,507,9		\$ 1,557,730	\$ 7,943	\$,	\$ 13,767	\$ 59,064	\$ 1,554,6	97 \$		\$ -	\$ -	\$	-
2044	\$ 55,709	\$ 2,017,135		\$ 12,896	\$ 489,963	\$	502,859	\$ 42,813			\$ 1,569,985	\$ 7,999	\$ 6,112 \$	\$ 14,111	\$ 51,974	\$ 1,574,7	19 \$		\$ -	\$ -	\$	-
2045	\$ 45,278	\$ 2,111,144	\$ 2,156,422	\$ 10,417	\$ 513,558	\$	523,975	\$			\$ 1,632,447	\$ -,	\$ 6,411 \$	\$ 14,464	\$ 43,860	\$ 1,647,3	43 \$	1,691,203	\$ -	\$ -	\$	-
2046	\$ 36,651		\$ 2,213,492	\$ 8,493	\$ 530,261		538,754	\$			\$ 1,674,738	\$ 7,804	\$,	\$ 14,968				1,735,145	\$ -	\$ -	\$	-
2047	\$ 24,548	\$ 2,250,856	\$ 2,275,404	\$ 5,607	\$ 548,311	\$	553,918	\$ 18,941	\$ 1,702,5	45	\$ 1,721,486	\$ 7,845	\$ 7,497 \$	\$ 15,342				1,783,536	\$ -	\$ -	\$	-
2048	\$ 14,527	\$ 2,343,476	\$ 2,358,003	\$ 3,179	\$ 570,690	\$	573,869	\$			\$ 1,784,134	\$ 7,883	\$ 7,992 \$	\$ 15,875	\$ 19,539	\$ 1,828,8	77 \$	1,848,416	\$ -	\$ -	\$	-
2049	\$ 10,121	\$ 2,436,864	\$ 2,446,985	\$ 2,136	\$ 593,657	\$	595,793	\$ 7,985	\$ 1,843,2	207	\$ 1,851,192	\$ 7,757	\$ 8,515 \$	\$ 16,272	\$ 15,958	\$ 1,901,7	32 \$	1,917,690	\$ -	\$ -	\$	-
2050			\$ 2,528,434	\$	\$ 613,979			\$			\$ 1,912,939	\$ 7,620	9,059	16,679				1,981,519	\$ -	\$ -	\$	-
2051			\$ 2,616,405	\$	\$ 635,328			\$			\$ 1,979,950	\$ 7,641	9,616 \$	17,257				2,050,927	\$ -	\$ -	\$	-
2052			\$ 2,701,312	843	\$ 656,220			\$			\$ 2,044,249	\$ 7,484	10,204	17,688				2,117,402	\$ -	\$ -	\$	-
2053			\$ 2,794,043	\$ 632		-	679,627	\$			\$ 2,114,416	\$ 7,314	10,816	18,130				2,189,914	\$ -	\$ -	\$	-
2054			\$ 2,885,187	\$	\$ 701,512			\$			\$ 2,183,326	\$ 7,314	11,443	18,757				2,261,321	\$ -	\$ -	\$	-
2055			\$ 2,979,896	\$	\$ 724,898			\$			\$ 2,254,736	\$ 7,309	11,917 \$	19,226				2,335,137	\$ -	\$ -	\$	
2056	\$ 778		\$ 3,080,763		\$ 749,749			\$			\$ 2,330,876	\$ 7,108	12,599	19,707				2,413,824	\$ -	\$ -	\$	
2057	\$-		\$ 3,182,780	\$ -	\$ 774,953			\$			\$ 2,407,827	\$ 7,089	13,298	20,387				2,493,543	\$ -	\$ -	\$	
2058	\$-		\$ 3,296,165	\$ -			802,701	\$			\$ 2,493,464	\$ 6,863	14,034	20,897				2,582,014	\$ -	\$ -	\$	-
2059	\$-		\$ 3,406,983	\$ -			829,822	\$ -			\$ 2,577,161	\$ 6,828	14,591	21,419				2,668,503	\$ -	\$-	\$	
2060	\$-		\$ 3,536,417				860,979	\$ -			\$ 2,675,438	\$ 6,575	15,581					2,770,184	\$ -	\$ -	\$	
2061	\$-	\$ 3,671,581	\$ 3,671,581	\$ -	\$ 893,212	\$	893,212	\$ -	\$ 2,778,3	69	\$ 2,778,369	\$ 6,522	\$ 16,188 \$	\$ 22,710	\$ 6,521	\$ 2,869,9	40 \$	2,876,461	\$ -	\$ -	\$	-



Projection of Pension Plan's Fiduciary Net Position

		Actu	iaria	I Accrued Liability (B	OY)						Clo	ose	ed Group Asset Projecti	ion	
Fiscal Year	Currei	nt Members		Future Members		Total	Fidu	ciary Net Position (BOY)	Funded Ratio (BOY)		Projected EEC Contributions (MOY)	P	rojected ER Contrib + Premium Tax (MOY)		
2021	\$	33,381,425	\$	-	\$	33,381,425	\$	11,294,578	33.83%	\$	158,281	\$	5 1,738,862	\$	
2022	\$	34,448,100	\$	-	\$	34,448,100	\$	12,281,873	35.65%	\$	141,436	\$	5 1,691,464	\$	
2023	\$	35,331,620	\$	153,701	\$	35,485,321	\$	13,108,885	37.10%	\$	131,551	\$	5 1,710,538	\$	
2024	\$	36,128,259	\$	417,718	\$	36,545,977	\$	13,904,225	38.49%	\$	120,683	\$	1,762,560	\$	
2025	\$	36,809,230	\$	781,537	\$	37,590,767	\$	14,684,159	39.89%	\$	111,617	\$	5 1,812,863	\$	
2026	\$	37,397,819	\$	1,247,252	\$	38,645,071	\$	15,465,960	41.36%	\$	104,014	\$	5 1,873,292	\$	
2027	\$	37,916,485	\$	1,815,004	\$	39,731,489	\$	16,281,096	42.94%	\$	98,479	\$	1,947,645	\$	
2028	\$	38,397,557	\$	2,485,683	\$	40,883,240	\$	17,171,854	44.72%	\$	94,743	\$	2,040,317	\$	
2029	\$	38,869,294	\$	3,255,003	\$	42,124,297	\$	18,183,548	46.78%	\$	88,956	\$	2,144,739	\$	
2030	\$	39,287,288		4,114,985	\$	43,402,273	\$	19,301,403	49.13%	\$	81,863				
2031	\$	39,632,596		5,079,898	\$	44,712,494	\$	20,523,729	51.78%	\$	75,494				
2032	\$	39,918,861			\$	46,075,131	\$	21,876,108	54.80%	\$	66,964				
2033	\$	40,108,472			\$	47,447,327	\$	23,352,657	58.22%	\$	58,969				
2034	\$	40,210,745		8,642,947		48,853,692	\$	24,975,055	62.11%	\$	50,674				
2035	\$	40,211,643		10,066,107	\$	50,277,750	\$	26,762,020	66.55%	\$	43,686				
2036	\$	40,136,411			\$	51,762,263	\$	28,754,243	71.64%	\$	34,596				
2037	\$	39,957,047		13,300,724	\$	53,257,771	\$	30,993,560	77.57%	\$	27,023				
2038	\$	39,687,598		15,124,547		54,812,145	\$	33,489,264	84.38%	\$	22,150				
2039	\$	39,368,001		17,107,846	\$	56,475,847	\$	36,307,524	92.23%	\$	19,692				
2000	\$	39,030,748	\$		\$	58,298,318	\$	39,030,742	100.00%	\$	18,170				
2040	\$	38,689,993			Ψ \$	60,303,493	Ψ \$	38,689,987	100.00%	Ψ \$	17,053				
2041	\$	38,355,077		24,159,333	Ψ \$	62,514,410	Ψ \$	38,355,070	100.00%	Ψ \$	16,142				
2042	\$	38,029,752		26,860,378	\$	64,890,130	↓ \$	38,029,744	100.00%	\$					
2043	\$ \$	37,719,663		29,686,804	Ψ \$	67,406,467	Ψ \$	37,719,654	100.00%	Ψ \$	13,246				
2044	\$ \$	37,405,048		32,512,102	Ψ \$	69,917,150	\$	37,405,039	100.00%	Ψ \$	10,700				
2045	φ \$	37,088,403		35,446,470	Ψ \$	72,534,873	Ψ \$	37,088,395	100.00%	φ \$	8,723			Ψ \$	
2040	•			38,433,129		75,209,548	+		100.00%	+	5,759				
	\$	36,776,419					\$	36,776,410		\$					
2048	\$	36,455,464		41,440,510		77,895,974	\$	36,455,454	100.00%	\$	3,265				
2049	\$	36,137,993		44,509,144		80,647,137	\$	36,137,982	100.00%	\$	2,194				
2050	\$	35,843,193		47,663,825		83,507,018	\$	35,843,182	100.00%	\$	1,557				
2051	\$	35,579,299		50,874,121		86,453,420	\$	35,579,286	100.00%	\$	1,158				
2052	\$	35,352,408		54,129,147		89,481,555	\$	35,352,394	100.00%	\$	866				
2053	\$	35,167,314		57,421,605		92,588,919	\$	35,167,300	100.00%	\$	649				
2054	\$	35,028,544		60,762,466		95,791,010	\$	35,028,528	100.00%	\$	358				
2055	\$	34,938,528		64,140,296		99,078,824	\$	34,938,511	100.00%	\$					
2056	\$	34,903,734		67,549,801		102,453,535	\$	34,903,715	100.00%	\$	142				
2057	\$	34,927,358		70,997,262		105,924,620	\$	34,927,339	100.00%	\$	-	\$			
2058	\$	35,013,058		74,480,526		109,493,584	\$	35,013,038	100.00%	\$	-	\$			
2059	\$	35,166,845		78,010,318		113,177,163	\$	35,166,824	100.00%	\$	-	\$			
2060	\$	35,392,808	\$	81,574,061	\$	116,966,869	\$	35,392,785	100.00%	\$	-	\$			
2061	\$	35,695,241	\$	85,207,692	\$	120,902,933	\$	35,695,217	100.00%	\$	-	\$	6,521	\$	



Projected BP (MOY)	Projected Admin Expenses (MOY)	Projected Investment Earnings
1,533,032	\$ 7,688	\$ 630,872
1,677,762	\$ 7,631	\$ 679,505
1,761,965	\$ 7,737	\$ 722,953
1,860,687	\$ 7,756	\$ 765,134
1,941,854	\$ 7,771	\$ 806,946
2,003,986	\$ 7,874	\$ 849,690
2,042,819	\$ 7,883	\$ 895,336
2,061,706	\$ 7,888	\$ 946,228
2,111,059	\$ 7,987	\$ 1,003,206
2,166,367	\$ 7,985	\$ 1,065,823
2,210,391	\$ 7,977	\$ 1,134,711
2,274,826	\$ 8,070	\$ 1,210,407
2,330,098	\$ 8,163	\$ 1,293,325
2,391,706	\$ 8,144	\$ 1,384,546
2,431,606	\$ 8,119	\$ 1,485,655
2,483,905	\$ 8,205	\$ 1,598,860
2,525,510	\$ 8,170	\$ 1,725,542
2,535,646	\$ 8,128	\$ 1,867,700
2,523,483	\$ 8,079	\$ 2,016,099
2,501,335	\$ 8,152	\$ 2,080,984
2,472,134	\$ 8,091	\$ 2,062,892
2,440,382	\$ 8,157	\$ 2,045,212
2,404,826	\$ 7,943	\$ 2,028,194
2,383,306	\$ 7,999	\$ 2,011,470
2,357,721	\$ 8,053	\$ 1,994,569
2,327,367	\$ 7,804	\$ 1,977,737
2,306,964	\$ 7,845	\$ 1,960,794
2,276,093	\$ 7,883	\$ 1,943,700
2,232,495	\$ 7,757	\$ 1,927,299
2,183,882	\$ 7,620	\$ 1,912,330
2,131,957	\$ 7,641	\$ 1,899,176
2,077,780	\$ 7,484	\$ 1,888,131
2,021,747	\$ 7,314	\$ 1,879,443
1,965,282	\$ 7,314	\$ 1,873,300
1,906,256	\$ 7,309	\$ 1,869,939
1,846,795	\$ 7,108	\$ 1,869,619
1,786,825	\$ 7,089	\$ 1,872,524
1,725,125	\$ 6,863	\$ 1,878,911
1,663,091	\$ 6,828	\$ 1,889,052
1,600,740	\$ 6,575	\$ 1,903,172
1,538,247	\$ 6,522	\$ 1,921,501



Projection of Pension Plan's Fiduciary Net Position

				Calcul	ation	of Single Equivale	nt Rate			
scal Year	"Fun	ded" Portion of BP	"Unfur	nded" Portion of BP	PV	of "Funded" BP	PV of "Un	funded" BP		of BP Using a Single DR
2021	\$	1,533,032	\$	-	\$	1,492,537	\$	-	\$	1,492,537
2022	\$	1,677,762	\$	-	\$	1,548,288	\$	-	\$	1,548,288
2023	\$	1,761,965	\$	-	\$	1,541,225	\$	-	\$	1,541,225
2024	\$	1,860,687	\$	-	\$	1,542,729	\$	-	\$	1,542,729
2025	\$	1,941,854	\$	-	\$	1,526,091	\$	-	\$	1,526,091
2026	\$	2,003,986	\$	-	\$	1,492,816	\$	-	\$	1,492,816
2027	\$	2,042,819	\$	-	\$	1,442,411	\$	-	\$	1,442,41
2028	\$	2,061,706	\$	-	\$	1,379,854	\$	-	\$	1,379,854
2029	\$	2,111,059	\$	-	\$	1,339,228	\$	-	\$	1,339,228
2030	\$	2,166,367	\$	-	\$	1,302,668	\$	-	\$	1,302,668
2031	\$	2,210,391	\$	-	\$	1,259,848	\$	-	\$	1,259,848
2032	\$	2,274,826	\$	-	\$	1,228,980	\$	-	\$	1,228,980
2033	\$	2,330,098	\$	-	\$	1,193,214	\$	-	\$	1,193,214
2034	\$	2,391,706	\$	-	\$	1,160,913	\$	-	\$	1,160,91
2035	\$	2,431,606	\$	-	\$	1,118,749	\$	-	\$	1,118,74
2036	\$	2,483,905	\$	-	\$	1,083,233	\$	-	\$	1,083,23
2037	\$	2,525,510	\$	-	\$	1,043,959	\$	-	\$	1,043,95
2038	\$	2,535,646	\$	-	\$	993,506	\$	-	\$	993,50
2039	\$	2,523,483	\$	-	\$	937,195	\$	-	\$	937,19
2040	\$	2,501,335	\$	-	\$	880,540	\$	-	\$	880,54
2041	\$	2,472,134	\$	-	\$	824,891	\$ \$	-	\$	824,89
2042	\$	2,440,382	\$	-	\$	771,845	\$	-	\$	771,84
2042	Ψ \$	2,404,826	Ψ \$	_	Ψ \$	720,947	Ψ \$	_	\$	720,94
2043	Ψ \$	2,383,306	Ψ \$	_	Ψ \$	677,247	Ψ \$	_	\$	677,24
2044 2045	φ \$	2,353,300	φ \$	-	φ \$	635,049	\$ \$	-	φ \$	635,04
2045	Ψ \$	2,327,367	Ψ \$	-	φ \$	594,192	ֆ \$	-	φ \$	594,19
2040				-				-		
	\$ ¢	2,306,964	\$ ¢	-	\$ ¢	558,278	\$ ¢	-	\$ ¢	558,27
2048 2049	\$ ¢	2,276,093	\$ ¢	-	\$ ¢	522,092	\$ ¢	-	\$ ¢	522,09
	\$ ¢	2,232,495	\$ ¢	-	\$ ¢	485,395	\$	-	\$ ¢	485,39
2050	\$	2,183,882	\$	-	\$	450,072	\$	-	\$	450,07
2051	\$	2,131,957	\$	-	\$	416,465	\$	-	\$	416,46
2052	\$	2,077,780	\$	-	\$	384,722	\$	-	\$	384,72
2053	\$	2,021,747	\$	-	\$	354,831	\$	-	\$	354,83
2054	\$	1,965,282	\$	-	\$	326,940	\$	-	\$	326,94
2055	\$	1,906,256	\$	-	\$	300,588	\$	-	\$	300,58
2056	\$	1,846,795	\$	-	\$	276,030	\$	-	\$	276,03
2057	\$	1,786,825	\$	-	\$	253,144	\$	-	\$	253,14
2058	\$	1,725,125	\$	-	\$	231,661	\$	-	\$	231,66
2059	\$	1,663,091	\$	-	\$	211,688	\$	-	\$	211,68
2060	\$	1,600,740	\$	-	\$	193,130	\$	-	\$	193,130
2061	\$	1,538,247	\$	-	\$	175,914	\$	-	\$	175,91