

# Actuarial Review of the Self-Insured Workers' Compensation Program

Outstanding Liabilities as of June 30, 2020

Presented to
Novato Fire Protection District

July 21, 2020



Tuesday, July 21, 2020

Joe Valenti
Finance Director
Novato Fire Protection District
95 Rowland Way
Novato, California 94945

Re: Actuarial Review of the Self-Insured Workers' Compensation Program

#### Dear Mr. Valenti:

As you requested, we have completed our review of Novato Fire Protection District's self-insured workers' compensation program. It is our understanding that, effective July 1, 2014, Novato Fire Protection District joined the Fire Agencies Self Insurance System. The report that follows is an estimate of the program's liability for outstanding claims with dates of loss prior to July 1, 2014. We estimate the program's liability for outstanding claims as of June 30, 2020 to be \$1,077,000, which includes allocated loss adjustment expenses (ALAE), unallocated loss adjustment expenses (ULAE) and a discount for anticipated investment income. ALAE is the direct cost associated with the defense of individual claims (e.g. legal fees, investigation fees, court charges). ULAE is the cost to administer all claims to final settlement, which may be years into the future (e.g. claims adjusters' salaries, taxes). The discount for investment income is calculated based on the likely payout pattern of the District's claims, assuming a 2.5% return on investments per year

The \$1,077,000 estimate is the minimum liability to be booked by the District at June 30, 2020 for its workers' compensation program, in accordance with Governmental Accounting Standards Board (GASB) Statement #10. GASB #10 requires the District to accrue a liability on its financial statements for the ultimate cost of claims and expenses associated with all reported and unreported claims, including ALAE and ULAE. GASB #10 does not prohibit the discounting of losses to recognize investment income.

Our conclusions regarding the District's liability for unpaid loss and loss adjustment expenses (LAE) at June 30, 2020 are summarized in the table below.

Novato Fire Protection District
Self-Insured Workers' Compensation Program
Estimated Liability for Unpaid Loss and LAE
at June 30, 2020
Claims with Dates of Loss Prior to July 1, 2014

		Marginally	Reco			
	Expected	Acceptable 70% CL	Low 75% CL	Target 80% CL	High 85% CL	Conservative 90% CL
Loss and ALAE	\$1,159,000					
ULAE	90,000					
Investment Income Offset	(172,000)					
Discounted Loss and LAE	\$1,077,000	\$1,249,000	\$1,330,000	\$1,426,000	\$1,545,000	\$1,706,000

GASB #10 does not address an actual asset requirement for the program, but only speaks to the liability to be recorded on the District's financial statements.

Because actuarial estimates of claims costs are subject to some uncertainty, we recommend that an amount in addition to the discounted expected loss costs be set aside as a risk margin for contingencies. Generally, the amount should be sufficient to fund assets to the 75% to 85% confidence level for primary programs. We consider funding assets to the 70% confidence level to be marginally acceptable and funding assets to the 90% confidence level to be conservative.

The loss projections in this report reflect the estimated impact of benefit legislation contained in AB749, AB227, SB228, SB899, SB863, and recent WCAB court decisions based upon information provided by the WCIRB.

The ultimate impact on loss costs of legislated benefit adjustments are generally difficult to forecast in advance because the changes typically take place over a period of several years following enactment. Furthermore, actuarially derived benefit level evaluations often underestimate actual future cost levels. The shortfalls result from a variety of circumstances, including: increases in utilization levels, unanticipated changes in administrative procedures, and cost shifting among benefit categories. Thus, actual cost increases could differ, perhaps substantially, from the WCIRB's estimates.

The report that follows outlines the scope of our study, its background, and our conclusions, recommendations, and assumptions. Judgments regarding the appropriateness of our conclusions and recommendations should be made only after studying the report in its entirety, including the graphs, attachments, exhibits and appendices. Our report has been developed for the District's internal use. It is not intended for general circulation.

We appreciate the opportunity to be of service to Novato Fire Protection District in preparing this report. Please feel free to call Becky Richard at (916) 244-1183 or Derek Burkhalter at (916) 244-1167 with any questions you may have concerning this report.

Sincerely,

**Bickmore Actuarial** 

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## I. BACKGROUND

Novato Fire Protection District began its self-insured workers' compensation program on July 1, 1987. It is our understanding that, effective July 1, 2014, the District joined the Fire Agencies Self Insurance System and the self-insured workers' compensation program is now in run-off. Claims administration services are provided by Athens. Additional background on the program is given in Appendix K.

The purpose of this review is to provide a guide to the District to determine reasonable funding levels for its self-insurance program according to the funding policy the District has adopted and to comply with Governmental Accounting Standards Board Statements #10 and #30. The specific objectives of the study are to estimate the District's liability for outstanding claims as of June 30, 2020.

# II. CONCLUSIONS AND RECOMMENDATIONS

#### A. LIABILITY FOR OUTSTANDING CLAIMS

Graph 1 on the following page summarizes our assessment of the District's funding position as of June 30, 2020. The dark-colored bars indicate our estimates of the program's liability for outstanding claims before recognition of the investment income that can be earned on the assets held before the claim payments come due.

Our best estimate of the full value of the District's liability for outstanding claims within its self-insured retention (SIR) for the losses with the occurrence date prior to July 1, 2014 is \$1,249,000 as of June 30, 2020. This amount includes losses, allocated loss adjustment expenses (ALAE), and unallocated loss adjustment expenses (ULAE). ALAE is the direct cost associated with the defense of individual claims (e.g. legal fees, investigation fees, court charges). ULAE is the cost to administer claims to final settlement, which may be years in the future (e.g. claims adjusters' salaries, taxes).

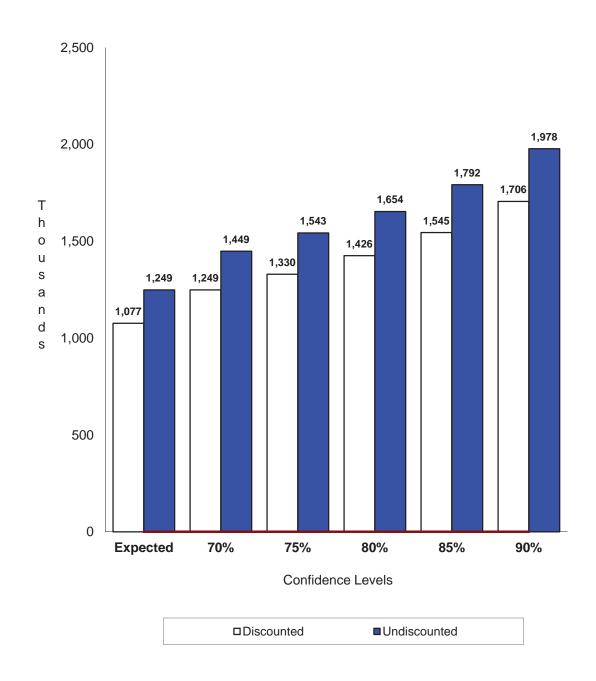
There is some measure of uncertainty associated with our best estimate because of the random nature of much of the process that determines ultimate claims costs. For this reason, we generally recommend that a program such as this include some funding margin for the possibility that actual loss costs will be greater than the best estimate. We generally measure the amount of this margin by thinking in terms of the probability distribution of actual possible results around our best estimate. As the margin grows, the probability that the corresponding funding amount will be sufficient to meet actual claim liabilities increases. We typically refer to this probability as the "confidence level" of funding. Graph 1 shows the liabilities for outstanding claims at several confidence levels that are typically of interest to risk managers in formulating funding policies for self-insurance programs.

The District can earn investment income on the assets it holds until claims payments come due. Assuming a long-term average annual return on investments of 2.5%, we estimate the impact of investment income earnings to be about 14% if the program is funded within the range indicated in the graphs, resulting in a discounted liability for outstanding claims of \$1,077,000 as of June 30, 2020.

Investment income earnings will be less than this when the program does not maintain sufficient funding, and more when there is excess funding. Thus, thinking in terms of liabilities discounted for investment income can actually mask funding deficiencies and redundancies that might otherwise be obvious. However, the discounted liabilities do represent legitimate funding targets. The light-colored bars on Graph 1 shows our estimates of the District's discounted liability for outstanding claims.

Graph 1

Novato Fire Protection District -Workers' Compensation Outstanding Liability (\$000's) at June 30, 2020



The table below displays a breakdown of the program's outstanding loss and LAE liabilities into case reserves and incurred but not reported (IBNR) reserves at June 30, 2020, before recognition of investment income.

Novato Fire Protection District Self-Insured Workers' Compensation Program Estimated Liability for Unpaid Loss and LAE at June 30, 2020

		•	
Total Outstanding	IBNR Reserves	Case Reserves	Year
\$136,710	\$65,926	\$70,784	Prior
30,338	3,757	26,581	2000-01
20,283	2,787	17,496	2001-02
17,509	2,909	14,600	2002-03
0	0	0	2003-04
51,688	12,068	39,620	2004-05
11,610	3,467	8,143	2005-06
0	0	0	2006-07
0	0	0	2007-08
187,264	55,917	131,347	2008-09
105,925	72,324	33,601	2009-10
147,990	78,902	69,088	2010-11
156,198	102,954	53,244	2011-12
115,186	73,083	42,103	2012-13
178,433	178,433	0	2013-14
\$1,159,134	\$652,527	\$506,607	Loss and ALAE
90,394	90,394		ULAE
\$1,249,528	\$742,921	\$506,607	Total

#### **B. PROGRAM FUNDING: GOALS AND OBJECTIVES**

As self-insurance programs have proliferated among public entities, it has become apparent that there is a large measure of inconsistency in the way in which these programs recognize and account for their claims costs. This is the result of the fact that there have been several different sources of guidance available, none of which has been completely relevant to public entity self-insurance programs.

According to the Governmental Accounting Standards Board (GASB), the most relevant source of guidance on the subject is Financial Accounting Standards Board Statement #60. A liability for unpaid claim costs, including all loss adjustment expenses, should be accrued at the time the self-insured events occur. This liability should include an allowance for incurred but not reported claims. It may be discounted for investment income at an appropriate rate of return, provided the discounting is disclosed. The regulations detailing the way in which this must be done are outlined in GASB's statements #10 and #30. These regulations are required to be applied by the District.

GASB #10 and #30 do not address asset requirements. They do, however, allow a range of amounts to be recognized for accounting purposes; specifically, GASB #10 and #30 allow recognition of a risk margin for unexpectedly adverse loss experience. Thus, for accounting purposes, it is possible to formulate a funding policy from a range of alternatives. The uncertainty in any estimate of the program's liability for outstanding claims should be taken into consideration in determining funding policy, but it may be offset by recognizing anticipated investment income earnings. This usually means developing a funding program based on discounted claims costs with some risk margin for unexpected adverse loss experience.

The amount of the risk margin should be a question of long-term funding policy. We recommend that the risk margin be determined by thinking in terms of the probability that a given level of assets will prove to be adequate. For example, a reasonable goal might be to maintain assets at the 85% confidence level.

A key factor to consider in determining funding policy is the degree to which stability is required in the level of contributions to the program from year to year. If you elect to maintain assets at a low confidence level, the chances are much greater that future events will prove that additional contributions should have been made for old claims. The additional contributions for old claims may be required at the same time that costs are increasing dramatically on new claims. The burden of funding for increases on past years as well as on current years, may well be prohibitive.

We generally recommend maintaining program assets at the 80% confidence level, after recognition of investment income, with a recommended range of the 75% to 85% confidence levels. We tend to think of the 70% confidence level as marginally acceptable and of the 90% confidence level as conservative. We recommend the 75% to 85% confidence level range because the probabilities are reasonably high that resulting assets will be sufficient to meet claim liabilities, yet the required risk margins are not so large that they will cause most self-insured entities to experience undue financial hardship. In addition, within this range, anticipated investment income generally offsets the required risk margin for the most part, which means that assets are likely sufficient on an undiscounted basis.

We also strongly believe, however, that the confidence level to which any future year is funded should be evaluated in light of the relative certainty of the assumptions underlying the actuarial analysis, the District's other budgetary constraints, and the relative level of risk it is believed appropriate to assume. This means formulating both short and long-term funding goals, which may be the same in some years, but different in others. In general, we recommend that you fund each year's claims costs in that year. When surpluses or deficits have developed on outstanding liabilities and funding adjustments are necessary, they should be clearly identified as such so that the habit of funding each year's claims costs that year is maintained. We also recommend that you reduce a surplus more slowly than you would accumulate funding to reduce a deficit.

#### C. COMPARISON WITH PREVIOUS RESULTS

The prior report for Novato Fire Protection District was dated July 10, 2019. In the table below we display actual versus expected development of incurred losses and ALAE by accident year between the 6/30/19 evaluation date of the prior report and the 6/30/20 evaluation date of the current report.

# **Actual Versus Expected Incurred Loss and ALAE Development**

Accident Year	Expected Incurred Development	Actual Incurred Development	Actual Minus Expected
Prior	\$2,000	(\$14,000)	(\$16,000)
2000-01	0	20,000	20,000
2001-02	0	14,000	14,000
2002-03	1,000	0	(1,000)
2003-04	0	0	0
2004-05	4,000	0	(4,000)
2005-06	1,000	0	(1,000)
2006-07	0	0	0
2007-08	0	0	0
2008-09	11,000	0	(11,000)
2009-10	14,000	3,000	(11,000)
2010-11	14,000	13,000	(1,000)
2011-12	22,000	27,000	5,000
2012-13	14,000	(39,000)	(53,000)
2013-14	38,000	(20,000)	(58,000)
Total	\$121,000	\$4,000	(\$117,000)

As shown, actual incurred development was less than anticipated since the prior report. Based on the assumptions from the prior report, it was expected that incurred losses would increase by \$121,000 between the two evaluation dates. However, actual development was approximately \$4,000; or about \$117,000 less than expected. All years except the 2000-01, 2001-02, and 2011-12 years developed less than expected.

In the table below we display actual versus expected development of paid losses and ALAE by accident year between the 6/30/19 evaluation date of the prior report and the 6/30/20 evaluation date of the current report.

# **Actual Versus Expected Paid Loss and ALAE Development**

Accident Year	Expected Paid Development	Actual Paid Development	Actual Minus Expected
Prior	\$17,000	\$10,000	(\$7,000)
2000-01	1,000	1,000	0
2001-02	1,000	3,000	2,000
2002-03	6,000	0	(6,000)
2003-04	0	0	0
2004-05	6,000	3,000	(3,000)
2005-06	1,000	2,000	1,000
2006-07	0	0	0
2007-08	0	0	0
2008-09	20,000	2,000	(18,000)
2009-10	12,000	4,000	(8,000)
2010-11	15,000	6,000	(9,000)
2011-12	24,000	17,000	(7,000)
2012-13	27,000	2,000	(25,000)
2013-14	37,000	5,000	(32,000)
Total	\$167,000	\$55,000	(\$112,000)

As shown, actual paid development was less than anticipated since the prior report. Based on the assumptions from the prior report, it was expected that paid losses would increase by \$167,000 between the two evaluation dates. However, actual development was approximately \$55,000; or about \$112,000 less than expected.

In the table below we display the change in our estimates of the program's ultimate losses and ALAE by accident year since our prior report.

# **Change in Ultimate Loss and ALAE**

Accident Year	Prior Report	Current Report	Change In Ultimate
Prior	\$4,762,000	\$4,801,000	\$39,000
2000-01	562,000	584,000	22,000
2001-02	1,064,000	1,080,000	16,000
2002-03	181,000	180,000	(1,000)
2003-04	2,004,000	2,004,000	0
2004-05	217,000	211,000	(6,000)
2005-06	263,000	261,000	(2,000)
2006-07	493,000	493,000	0
2007-08	92,000	92,000	0
2008-09	668,000	656,000	(12,000)
2009-10	710,000	698,000	(12,000)
2010-11	632,000	632,000	0
2011-12	712,000	700,000	(12,000)
2012-13	376,000	324,000	(52,000)
2013-14	662,000	594,000	(68,000)
Total	\$13,398,000	\$13,310,000	(\$88,000)

As shown, overall we have decreased our estimated ultimates by \$88,000 since our prior report. These changes track well with the changes in the tables above.

At the time of the prior report, we estimated the liability for outstanding claims as of June 30, 2019 to be \$1,193,000 at the discounted, expected level. Our current estimate as of June 30, 2020, is \$1,077,000, a decrease in our assessment of the District's outstanding liabilities, as shown below:

### **Outstanding Claim Liabilities for Loss and LAE**

J	Prior Report at June 30, 2019	Current Report at June 30, 2020	Change
(A) Case Reserves:	\$557,000	\$506,000	(\$51,000)
(B) IBNR Reserves:	745,000	653,000	(92,000)
(C) Claims Administration Reserves:	102,000	90,000	(12,000)
(D) Total Reserves:	\$1,404,000	\$1,249,000	(\$155,000)
(E) Offset for Investment Income:	(211,000)	(172,000)	39,000
(F) Total Outstanding Claim Liabilities:	\$1,193,000	\$1,077,000	(\$116,000)

As shown, our estimate of outstanding claims liabilities at the discounted, expected level has decreased between June 30, 2019 and June 30, 2020 as reflected in our prior and current reports respectively.

The decrease in claim reserves (case and IBNR) is driven primarily by the paying down of claims that are in runoff. Reserves for future claims administration expenses have decreased, resulting in a \$155,000 decrease in total claim reserves. This decrease in reserves leads to a smaller offset for investment income. The net change due to the above factors is an overall decrease of \$116,000 in our estimate of outstanding claim liabilities for loss and LAE.

#### D. DATA PROVIDED FOR THE ANALYSIS

Overall, the data utilized in preparing this report appears to be accurate.

Comments and issues regarding the data are as follows:

- We estimated ULAE at 7.5% of outstanding loss as of June 30, 2020.
- We received loss data evaluated as of 6/30/20 (See Appendix L). We also utilized the data from the District's most recent actuarial study for our assessment of loss development.

The data provided for the analysis appears to be reasonable for use in this actuarial valuation of liabilities and projection of loss costs.

# **III. ASSUMPTIONS AND LIMITATIONS**

Any quantitative analysis is developed within a very specific framework of assumptions about conditions in the outside world, and actuarial analysis is no exception. We believe that it is important to review the assumptions we have made in developing the estimates presented in this report. By doing so, we hope you will gain additional perspective on the nature of the uncertainties involved in maintaining a self-insurance program. Our assumptions, and some observations about them, are as follows:

- Our analysis is based on loss experience, exposure data, and other general and specific information provided to us by the District. We have accepted all of this information without audit.
- We have also made use of loss statistics that have been developed from the information gathered and compiled from other public entities workers' compensation program.
- We have assumed that the future development of incurred and paid losses can be reasonably predicted on the basis of development of such losses in the recent past. We have also assumed that the historical development patterns for other California public entities workers' compensation program in the aggregate form a reasonable basis of comparison to the patterns from Novato Fire Protection District's data.
- We have made use of cost relationships for claims of various sizes derived from the most recent actuarial review of other California public entities workers' compensation program.
- We have assumed that there is a continuing relationship between past and future loss costs.
- It is not possible to predict future claim costs precisely. Most of the costs of workers' compensation claims arise from a small number of incidents involving serious injury. A relatively small number of such claims could generate enough loss dollars to significantly reduce, or even deplete, the self-insurance fund.
- We cannot predict and have not attempted to predict the impact of future law changes and court rulings on claims costs. This is one major reason why we believe our funding recommendations are reasonable now, but should not be extrapolated into the future.
- The changes in cost levels associated with benefit increases and administrative changes typically take place over a period of several years following their enactment, and these changes are very difficult to forecast in advance. We have based our benefit level factors on those produced by the Workers' Compensation Insurance Rating Bureau of California (WCIRB). See Appendix E for a display of the benefit level cost indices by fiscal year.

- We have assumed that the loss rate trend associated with claim costs increases at 4.6% per year. We have assumed that claim severity increases at 2.5% per year, and that claim frequency increases at 2.0% per year.
- We have assumed that payroll and other inflation-sensitive exposure measures increase 2.5% annually due to inflation.
- We have assumed that assets held for investment will generate an average annual return of 2.5% over the duration of payment of the loss liabilities. It should be noted that actual future investment returns may vary significantly from this assumption, depending upon the prevailing investment market conditions.
- The claims costs we have estimated include indemnity and medical payments, and all loss adjustment expenses. We have not included estimates for excess insurance contributions and other expenses associated with the program based upon information provided by the District.
- Our funding recommendations do not include provisions for catastrophic events not in the District's history, such as earthquakes, flooding, mass civil disorder, or mass occupational disease.
- Our estimates assume that all excess insurance is valid and collectible. Further, our funding recommendations do not include a provision for losses greater than the District's excess coverage.

# IV. GLOSSARY OF ACTUARIAL TERMS

**Accident Year** - Year during which the accidents that generate a group of claims occurs, regardless of when the claims are reported, payments are made, or reserves are established.

**Allocated Loss Adjustment Expenses (ALAE)** - Expense incurred in settling claims that can be directly attributed to specific individual claims (e.g., legal fees, investigative fees, court charges, etc.)

**Benefit Level Factor** - Factor used to adjust historical losses to the current level of workers' compensation benefits.

Case Reserve - The amount left to be paid on a claim, as estimated by the claims administrator.

**Claim Count Development Factor** - A factor that is applied to the number of claims reported in a particular accident period in order to estimate the number of claims that will ultimately be reported.

Claim Frequency - Number of claims per \$1 million of payroll.

**Confidence Level** - An estimated probability that a given level of funding will be adequate to pay actual claims costs. For example, the 85% confidence level refers to an estimate for which there is an 85% chance that the amount will be sufficient to pay loss costs.

**Discount Factor** - A factor to adjust estimated loss costs to reflect anticipated investment income from assets held prior to actual claim payout.

**Expected Losses** - The best estimate of the full, ultimate value of loss costs.

**Incurred but not Reported (IBNR) Losses** - Losses for which the accident has occurred but the claim has not yet been reported. This is the ultimate value of losses, less any amount that has been set up as reported losses by the claims adjuster. It includes both amounts for claims incurred but not yet received by the administrator and loss development on already reported claims.

**Loss Development Factor** - A factor applied to losses for a particular accident period to reflect the fact that reported and paid losses do not reflect final values until all claims are settled (see Section IV).

Loss Rate - Ultimate losses per \$100 of payroll.

**Non-Claims Related Expenses** – Program expenses not directly associated with claims settlement and administration, such as excess insurance, safety program expenses, and general overhead. These exclude expenses associated with loss settlements (Indemnity/Medical, BI/PD), legal expenses associated with individual claims (ALAE), and claims administration (ULAE).

**Outstanding Losses** - Losses that have been incurred but not paid. This is the ultimate value of losses less any amount that has been paid.

Paid Losses - Losses actually paid on all reported claims.

**Program Losses** - Losses, including ALAE, limited to the SIR for each occurrence.

**Reported Losses** - The total expected value of losses as estimated by the claims administrator. This is the sum of paid losses and case reserves.

**Self-Insured Retention (SIR)** - The level at which an excess insurance policy is triggered to begin payments on a claim. Financially, this is similar to an insurance deductible.

**Severity** - Average claim cost.

**Ultimate Losses** - The value of claim costs at the time when all claims have been settled. This amount must be estimated until all claims are actually settled.

**Unallocated Loss Adjustment Expenses (ULAE)** – Claim settlement expenses that cannot be directly attributed to individual claims (e.g., claims adjusters' salaries, taxes, etc.)

# Funding Guidelines for Outstanding Liabilities at June 30, 2020

(A)	Estimated Ultimate Losses Incurred through 6/30/20: (From Appendix G)			\$13,311,000		
(B)	Estimated Paid Losses through 6/30/20: (From Appendix G)			12,152,000		
(C)	Estimated Liability for Claims Outstanding at 6/30/20: (From Appendix G)			\$1,159,000		
(D)	Estimated Liability for Outstanding Claims Administration Fees at 6/30/20: (From Appendix F)			90,000		
(E)	Total Outstanding Liability for Claims at 6/30/20: ((C) + (D))	\$1,249,000				
(F)	Reserve Discount Factor (Based on a Discount Rate (Appendix I, Page 1, (G))	e of 2.5%.):		0.862		
(G)	Discounted Outstanding Liability for Claims at 6/30/20: ((E) x (F))			\$1,077,000		
		Marginally Acceptable		Recommended		Conservative
	Confidence Level of Adequacy:	70%	75%	80%	85%	90%
(H)	Confidence Level Factor: (From Appendix J)	1.160	1.235	1.324	1.435	1.584
(1)	Margin for Adverse Experience: ((G) x [(H) - 1])	172,000	253,000	349,000	468,000	629,000
(J)	Total Required Assets at 6/30/20: ((G) + (I))	\$1,249,000	\$1,330,000	\$1,426,000	\$1,545,000	\$1,706,000

#### IBNR as of 6/30/21 at Expected Claims Level

				Estimated Percent of IBNR		
			Estimated IBNR	Reported Between	Estimated	Estimated IBNR
Accident	Estimated	Reported	as of	7/1/20 and	IBNR	as of
Year	Ultimate	as of 6/30/20	6/30/20	6/30/21	Reported	6/30/21
	(A)	(B)	(C)	(D)	(E)	(F)
Prior	\$4,801,000	\$4,735,074	\$65,926	15.0%	\$10,000	\$55,926
2000-2001	584,000	580,243	3,757	22.1%	1,000	2,757
2001-2002	1,080,000	1,077,213	2,787	24.8%	1,000	1,787
2002-2003	180,000	177,091	2,909	36.4%	1,000	1,909
2003-2004	2,004,301	2,004,301	0	29.1%	0	0
2004-2005	211,000	198,932	12,068	24.3%	3,000	9,068
2005-2006	261,000	257,533	3,467	25.6%	1,000	2,467
2006-2007	493,327	493,327	0	21.2%	0	0
2007-2008	92,328	92,328	0	18.1%	0	0
2008-2009	656,000	600,083	55,917	15.8%	9,000	46,917
2009-2010	698,000	625,676	72,324	17.3%	13,000	59,324
2010-2011	632,000	553,098	78,902	16.4%	13,000	65,902
2011-2012	700,000	597,046	102,954	15.7%	16,000	86,954
2012-2013	324,000	250,917	73,083	15.7%	11,000	62,083
2013-2014	594,000	415,567	178,433	17.0%	30,000	148,433

Totals \$13,310,956 \$12,658,429 \$652,527 \$109,000 \$543,527

#### Notes:

- (A) From Exhibit 3, Page 1.
- (B) Provided by the District. These losses exclude amounts incurred above the District's SIR for each year.
- (C) (A) (B)
- (D) Percentage of incurred but not reported (IBNR) expected to be reported between 7/1/20 and 6/30/21. The percentage is based on the development pattern selected in Appendix A.
- (E) ((A) (B)) x (D).
- (F) (A) (B) (E).

This exhibit shows the calculation of the amount of incurred but not reported losses we expect as of 6/30/21. This amount is dependent on both the strength of the case reserves and the average frequency and severity of the losses incurred.

#### Estimated Ultimate Program Losses

Accident Year	Reported Loss Development Method (A)	Paid Loss Development Method (B)	Exposure Method Based on Reported Losses (C)	Exposure Method Based on Paid Losses (D)	Frequency- Severity Method (E)	Selected Estimate of Ultimate Losses (F)
Prior	\$4,768,220	\$4,944,147			\$4,744,984	\$4,801,000
2000-2001	585,465	596,294			584,044	584,000
2001-2002	1,090,140	1,156,151			1,080,117	1,080,000
2002-2003	180,456	184,752			179,763	180,000
2003-2004	2,058,417	2,310,959			2,004,301	2,004,301
2004-2005	206,094	186,236			211,452	211,000
2005-2006	270,152	296,525	278,635	320,778	260,920	261,000
2006-2007	524,407	596,926	521,158	575,405	493,327	493,327
2007-2008	99,530	113,933	104,092	123,371	92,328	92,328
2008-2009	656,491	592,482	668,221	634,328	691,895	656,000
2009-2010	698,254	770,290	709,850	779,037	653,094	698,000
2010-2011	631,638	650,025	636,722	655,978	618,663	632,000
2011-2012	700,335	759,148	709,295	760,665	654,709	700,000
2012-2013	304,111	309,462	323,452	343,522	299,925	324,000
2013-2014	526,523	680,283	572,253	704,434	415,567	594,000

Totals \$13,310,956

#### Notes:

- (A) From Appendix A, Page 1, Column (G).
- (B) From Appendix B, Page 1, Column (G).
- (C) From Appendix C, Page 1, Column (G).
- (D) From Appendix C, Page 2, Column (G).
- (E) From Appendix D, Page 1, Column (C).
- (F) Selected averages of (A), (B), (C), (D), and (E).
- (G) From Not Included, Page 1, Line .
- (H) From Not Included, Page 1, Line .

This exhibit summarizes the results of the actuarial methods we have applied to estimate ultimate losses for each year. It is important to apply a number of estimation methods because each one relies on specific assumptions about the claims process that tend to hold generally true, but that may be violated in specific situations. Thus, the more estimation methods that can be applied, the better.

#### Estimated Ultimate Limited Losses Capped at \$100,000 per Claim

Accident Year	Reported Loss Development Method (A)	Paid Loss Development Method (B)	Exposure Method Based on Reported Losses (C)	Exposure Method Based on Paid Losses (D)	Frequency- Severity Method (E)	Selected Ultimate Limited Losses (F)
Prior	\$3,872,048	\$3,845,760			\$3,872,142	\$3,872,000
2000-2001	362,634	338,535			363,012	363,000
2001-2002	598,677	604,023			593,928	593,926
2002-2003	178,862	165,578			179,010	179,000
2003-2004	440,418	444,335			435,209	435,196
2004-2005	201,717	162,976			202,000	202,000
2005-2006	261,911	255,874	261,987	255,940	262,008	262,000
2006-2007	276,180	278,617	276,181	278,347	270,756	270,765
2007-2008	94,452	95,282	94,358	95,189	92,322	92,328
2008-2009	439,988	430,055	439,836	430,469	439,990	440,000
2009-2010	442,365	432,139	442,273	432,713	442,000	442,000
2010-2011	361,903	322,790	361,905	324,326	362,007	362,000
2011-2012	403,237	395,531	403,329	395,952	403,009	403,000
2012-2013	214,799	200,293	214,726	201,141	215,004	215,000
2013-2014	388,540	402,958	387,799	400,367	369,690	369,686
Totals						\$8,501,901

#### Notes:

- (A) From Appendix A, Page 1, Column (D).
- (B) From Appendix B, Page 1, Column (D).
- (C) Based on results in Appendix C, Page 1.
- (D) Based on results in Appendix C, Page 2.
- (E) Based on results in Appendix D, Page 1.
- (F) Selected averages of (A), (B), (C), (D), and (E).
- (G) From Not Included, Page 1, Line / Line .
- (H) From Not Included, Page 1, Line / Line .

This exhibit summarizes the results of the actuarial methods we have applied to estimate limited losses for each year. These results are used to select a limited loss rate for future years.

#### Reported Loss Development

Accident Year (A)	Limited Reported Losses as of 6/30/20 (B)	Reported Loss Development Factor (C)	Ultimate Limited Losses (D)	Program Reported Losses of 6/30/20 (E)	Reported Loss Development Factor (F)	Ultimate Program Losses (G)
Prior	\$3,848,954	1.006	\$3,872,048	\$4,735,074	1.007	\$4,768,220
2000-2001	360,113	1.007	362,634	580,243	1.009	585,465
2001-2002	593,926	1.008	598,677	1,077,213	1.012	1,090,140
2002-2003	177,091	1.010	178,862	177,091	1.019	180,456
2003-2004	435,196	1.012	440,418	2,004,301	1.027	2,058,417
2004-2005	198,932	1.014	201,717	198,932	1.036	206,094
2005-2006	257,533	1.017	261,911	257,533	1.049	270,152
2006-2007	270,765	1.020	276,180	493,327	1.063	524,407
2007-2008	92,328	1.023	94,452	92,328	1.078	99,530
2008-2009	428,838	1.026	439,988	600,083	1.094	656,491
2009-2010	429,898	1.029	442,365	625,676	1.116	698,254
2010-2011	350,681	1.032	361,903	553,098	1.142	631,638
2011-2012	389,225	1.036	403,237	597,046	1.173	700,335
2012-2013	206,339	1.041	214,799	250,917	1.212	304,111
2013-2014	369,686	1.051	388,540	415,567	1.267	526,523
Totals	\$8,409,505		\$8,537,731	\$12,658,429		\$13,300,233

#### Notes:

- (A) Years are 7/1 to 6/30.
- (B) Provided by the District. These losses exclude amounts over \$100,000 per occurrence.
- (C) From Appendix A, Page 2.
- (D) (B) x (C). These estimated losses exclude amounts over \$100,000 per occurrence.
- (E) Losses capped at the District's SIR. Amounts are provided by the District.
- (F) Derived from factors on Appendix A, Page 3.
- (G) (E) x (F).

This method tends to understate ultimate losses for the most recent several years because the large losses for those years generally have not yet emerged at the time of our review.

This exhibit shows the calculation of estimated ultimate losses for each year based on paid losses and case reserves as reported by the claims administrator. These losses tend to "develop" or change from period to period as more information becomes available about the cases. This development tends to follow quantifiable patterns over time.

## Novato Fire Protection District - Workers' Compensation Reported Loss Development

1	Limited Loss	es Reported	as of:	Reported	l Loss Devel	opment				
Accident	12	24	36	48	60	72	84	96	108	120
Year	Months	Months	Months	Months	Months	Months	Months	Months	Months	Months
1999-2000										
2000-2001										336,295
2001-2002								455.404	602,305	602,316
2002-2003							105 100	155,191	155,323	177,069
2003-2004						4.40.050	435,196	435,196	435,196	435,196
2004-2005					262 205	149,253	175,956	194,071	198,520	198,520
2005-2006 2006-2007				199,119	263,285 199,163	252,997 195,834	258,685 191,002	263,457 269,969	263,457 270,420	263,457 270,420
2007-2007			90,329	103,531	101,166	92,328	92,328	92,328	92,328	92,328
2008-2009		251,445	320,622	316,228	334,158	406,082	417,360	439,700	439,700	428,838
2009-2010	232,664	366,450	405,916	439,557	439,557	461,122	476,705	429,898	429,898	429,898
2010-2011	83,426	313,206	322,614	327,175	324,006	370,099	370,099	337,589	337,589	350,681
2011-2012	394,274	400,745	461,963	447,387	447,387	370,590	373,014	375,532	389,225	,
2012-2013	143,788	205,320	196,673	232,387	232,387	220,305	220,362	206,339		
2013-2014	192,931	301,220	387,667	385,495	390,027	390,027	369,686			
2014-2015										
2015-2016										
2016-2017										
2017-2018										
2018-2019										
2019-2020										
	_		_							
<u> </u>	Reported Los 12-24	ss Developm 24-36	nent Factors: 36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132
	Months	Months	Months	Months	Months	Months	Months	Months	Months	Months
1999-2000	WOTHIO	Wieritaio	Wierithio	Wierithio	WOTHIO	WOTHING	WOTHING	WOTHING	1110111110	1110111110
2000-2001										0.972
2001-2002									1.000	1.000
2002-2003								1.001	1.140	1.000
2003-2004							1.000	1.000	1.000	1.000
2004-2005						1.179	1.103	1.023	1.000	1.000
2005-2006					0.961	1.022	1.018	1.000	1.000	0.978
2006-2007				1.000	0.983	0.975	1.413	1.002	1.000	1.000
2007-2008			1.146	0.977	0.913	1.000	1.000	1.000	1.000	1.000
2008-2009		1.275	0.986	1.057	1.215	1.028	1.054	1.000	0.975	1.000
2009-2010	1.575	1.108	1.083	1.000	1.049	1.034	0.902	1.000	1.000	1.000
2010-2011 2011-2012	3.754 1.016	1.030	1.014	0.990	1.142	1.000	0.912	1.000 1.036	1.039	
2011-2012	1.016	1.153 0.958	0.968 1.182	1.000 1.000	0.828 0.948	1.007 1.000	1.007 0.936	1.036		
2013-2014	1.561	1.287	0.994	1.012	1.000	0.948	0.930			
2014-2015	1.001	1.207	0.004	1.012	1.000	0.040				
2015-2016										
2016-2017										
2017-2018										
2018-2019										
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132
	Months	Months	Months	Months	Months	Months	Months	Months	Months	Months
Average	1.867	1.135	1.053	1.005	1.004	1.019	1.035	1.006	1.015	0.995
Dollar-Weighted										
Averages 3-yr						0.982	0.954	1.012	1.002	1.000
4-yr						0.987	0.937	1.009	1.002	1.000
Comparative										
Factors	1.470	1.120	1.025	1.015	1.010	1.010	1.009	1.008	1.007	1.006
Prior	1.550	1.130	1.043	1.013	1.013	1.013	1.011	1.005	1.004	1.003
Selected	1.550	1.130	1.043	1.013	1.013	1.013	1.010	1.005	1.004	1.003
Cumulated	1.996	1.288	1.140	1.093	1.079	1.065	1.051	1.041	1.036	1.032
					25					

#### Paid Loss Development

	Limited			Program		
	Paid	Paid Loss	Ultimate	Paid	Paid Loss	Ultimate
Accident	Losses as	Development	Limited	Losses	Development	Program
Year	of 6/30/20	Factor	Losses	of 6/30/20	Factor	Losses
(A)	(B)	(C)	(D)	(E)	(F)	(G)
Prior	\$3,796,407	1.013	\$3,845,760	\$4,664,290	1.060	\$4,944,147
2000-2001	333,532	1.015	338,535	553,662	1.077	596,294
2001-2002	593,926	1.017	604,023	1,059,717	1.091	1,156,151
2002-2003	162,491	1.019	165,578	162,491	1.137	184,752
2003-2004	435,196	1.021	444,335	2,004,301	1.153	2,310,959
2004-2005	159,312	1.023	162,976	159,312	1.169	186,236
2005-2006	249,390	1.026	255,874	249,390	1.189	296,525
2006-2007	270,765	1.029	278,617	493,327	1.210	596,926
2007-2008	92,328	1.032	95,282	92,328	1.234	113,933
2008-2009	415,512	1.035	430,055	468,736	1.264	592,482
2009-2010	415,918	1.039	432,139	592,075	1.301	770,290
2010-2011	309,482	1.043	322,790	484,010	1.343	650,025
2011-2012	377,415	1.048	395,531	543,802	1.396	759,148
2012-2013	189,313	1.058	200,293	208,814	1.482	309,462
2013-2014	369,686	1.090	402,958	415,567	1.637	680,283
Totals	\$8,170,673		\$8,374,746	\$12,151,822		\$14,147,613

#### Notes:

- (A) Years are 7/1 to 6/30.
- (B) Provided by the District. These losses exclude amounts over \$100,000 per occurrence.
- (C) From Appendix B, Page 2.
- (D) (B) x (C). These estimated losses exclude amounts over \$100,000 per occurrence.
- (E) Losses capped at the District's SIR. Amounts are provided by the District.
- (F) Derived from factors on Appendix B, Page 3.
- (G) (E) x (F).

This method tends to understate ultimate losses for the most recent several years because the large losses for those years generally have not yet emerged at the time of our review.

This exhibit shows the calculation of estimated ultimate losses for each year based on paid losses as reported by the claims administrator. These losses tend to "develop" or change from period to period as more information becomes available about the cases. This development tends to follow quantifiable patterns over time.

#### Novato Fire Protection District - Workers' Compensation Paid Loss Development

	Paid Loss Development Limited Losses Paid as of:									
Accident	12	24	36	48	60	72	84	96	108	120
Year	Months	Months	Months	Months	Months	Months	Months	Months	Months	Months
1999-2000										226.059
2000-2001 2001-2002									593,110	326,958 593,121
2002-2003								150,202	150,369	156,650
2003-2004							435,196	435,196	435,196	435,196
2004-2005						147,433	148,858	149,769	150,458	151,422
2005-2006					235,294	238,984	239,531	244,930	245,226	245,304
2006-2007				168,817	169,486	170,008	177,620	269,969	270,420	270,420
2007-2008			83,481	89,548	92,317	92,328	92,328	92,328	92,328	92,328
2008-2009		210,080	256,345	290,708	300,987	369,391	393,070	408,858	409,566	410,956
2009-2010	124,420	310,072	383,196	384,354	385,613	396,044	415,883	415,898	415,898	415,898
2010-2011	69,290	250,949	273,840	283,239	296,222	297,090	297,618	297,638	304,014	309,482
2011-2012	204,347	308,818	317,510	365,887	369,577	370,590	373,014	375,532	377,415	
2012-2013 2013-2014	53,919 132,066	78,803 238,979	149,232 321,932	155,054 356,963	161,377 365,013	187,926 365,031	188,102 369,686	189,313		
2014-2015	132,000	250,979	321,332	330,303	303,013	303,031	303,000			
2015-2016										
2016-2017										
2017-2018										
2018-2019										
2019-2020										
	Paid Loss De			10.00	00.70	70.04	04.00	00.400	400 400	400 400
	12-24 Months	24-36 Months	36-48 Months	48-60 Months	60-72 Months	72-84 Months	84-96 Months	96-108 Months	108-120 Months	120-132 Months
1999-2000	WOTHING	WOTHIS	WOTHIS	WOTHIS	WOTHIS	WOTHIS	WOTHIS	MOTITIS	MOTITIS	WOTHING
2000-2001										1.000
2001-2002									1.000	1.000
2002-2003								1.001	1.042	1.002
2003-2004							1.000	1.000	1.000	1.000
2004-2005						1.010	1.006	1.005	1.006	1.001
2005-2006					1.016	1.002	1.023	1.001	1.000	1.004
2006-2007			4.070	1.004	1.003	1.045	1.520	1.002	1.000	1.000
2007-2008		1 220	1.073 1.134	1.031 1.035	1.000 1.227	1.000 1.064	1.000	1.000 1.002	1.000 1.003	1.000 1.008
2008-2009 2009-2010	2.492	1.220 1.236	1.134	1.033	1.027	1.064	1.040 1.000	1.002	1.003	1.000
2010-2011	3.622	1.091	1.034	1.046	1.003	1.002	1.000	1.021	1.018	1.000
2011-2012	1.511	1.028	1.152	1.010	1.003	1.007	1.007	1.005		
2012-2013	1.462	1.894	1.039	1.041	1.165	1.001	1.006			
2013-2014	1.810	1.347	1.109	1.023	1.000	1.013				
2014-2015										
2015-2016										
2016-2017										
2017-2018 2018-2019										
2010-2019										
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132
Average	Months 2.179	Months 1.303	Months 1.078	Months 1.024	Months 1.049	Months 1.019	Months 1.060	Months 1.004	Months 1.007	Months 1.002
Dollar-Weighted	2.110	1.000	1.070	1.021	1.010	1.010	1.000	1.001	1.001	1.002
Averages										
3-yr						1.008	1.004	1.008	1.006	1.003
4-yr Comparative						1.006	1.003	1.006	1.006	1.003
Factors	2.500	1.400	1.170	1.090	1.050	1.033	1.020	1.015	1.012	1.010
Prior	2.150	1.300	1.100	1.045	1.040	1.040	1.040	1.012	1.005	1.004
Selected	2.150	1.300	1.100	1.045	1.040	1.035	1.030	1.010	1.005	1.004
		500	00			555				
Cumulated	3.771	1.754	1.349	1.226	1.173 27	1.128	1.090	1.058	1.048	1.043

# Exposure and Development Method Based on Reported Losses

Accident Year	Trended Payroll (\$00) (A)	Reported Losses as of 6/30/20 (B)	Loss Development Factor (C)	Percentage of Losses Yet to Be Reported (D)	Program Rate (E)	Incurred but not Reported (IBNR) (F)	Ultimate Program Losses (G)
2006-2007	138,292	493,327	1.063	0.059	3.411	27,831	521,158
2007-2008	163,056	92,328	1.078	0.072	1.002	11,764	104,092
2008-2009	170,315	600,083	1.094	0.086	4.652	68,138	668,221
2009-2010	150,383	625,676	1.116	0.104	5.382	84,174	709,850
2010-2011	128,479	553,098	1.142	0.124	5.249	83,624	636,722
2011-2012	129,074	597,046	1.173	0.147	5.916	112,249	709,295
2012-2013	127,026	250,917	1.212	0.175	3.263	72,535	323,452
2013-2014	126,765	415,567	1.267	0.211	5.858	156,686	572,253
Totals	1,259,899	\$3,885,575				\$638,103	\$4,523,678

#### Notes:

- (A) From Appendix M, Column (C).
- (B) Provided by the District. These losses exclude amounts incurred above the District's SIR for each year.
- (C) From Appendix A, Page 1, Column (F).
- (D) 1 1/(C).
- (E) From Appendix C, Page 3, Column (H).
- (F) (A) x (D) x (E).
- (G) (B) + (F).

This exhibit shows the calculation of ultimate losses based on the assumption that there is an underlying relationship between losses and exposure that changes in regular ways over time. The method relies on the premise that the losses that are currently unreported will cost what this relationship would suggest.

# Exposure and Development Method Based on Paid Losses

Accident Year	Trended Payroll (\$00) (A)	Paid Losses as of 6/30/20 (B)	Loss Development Factor (C)	Percentage of Losses Yet to Be Paid (D)	Program Rate (E)	Incurred but not Paid (F)	Ultimate Program Losses (G)
2006-2007	138,292	493,327	1.210	0.174	3.411	82,078	575,405
2007-2008	163,056	92,328	1.234	0.190	1.002	31,043	123,371
2008-2009	170,315	468,736	1.264	0.209	4.652	165,592	634,328
2009-2010	150,383	592,075	1.301	0.231	5.382	186,962	779,037
2010-2011	128,479	484,010	1.343	0.255	5.249	171,968	655,978
2011-2012	129,074	543,802	1.396	0.284	5.916	216,863	760,665
2012-2013	127,026	208,814	1.482	0.325	3.263	134,708	343,522
2013-2014	126,765	415,567	1.637	0.389	5.858	288,867	704,434
Totals	1,259,899	\$3,548,049				\$1,349,469	\$4,897,518

#### Notes:

- (A) From Appendix M, Column (C).
- (B) Provided by the District. These losses exclude amounts paid above the District's SIR for each year.
- (C) From Appendix B, Page 1, Column (F).
- (D) 1 1/(C).
- (E) From Appendix C, Page 3, Column (H).
- (F) (A) x (D) x (E).
- (G) (B) + (F).

This exhibit shows the calculation of ultimate losses based on the assumption that there is an underlying relationship between losses and exposure that changes in regular ways over time. The method relies on the premise that the losses that are currently unpaid will cost what this relationship would suggest.

#### Exposure and Development Method

Accident Year	Trended Payroll (\$00) (A)	Ultimate Limited Losses (B)	Trend Factor (C)	Trended Limited Losses (D)	Trended Limited Loss Rate (E)	Limited Loss Rate (F)	Factor to SIR (G)	Program Loss Rate (H)
2006-2007	138,292	270,765	2.341	633,861	4.583	1.958	1.742	3.411
2007-2008	163,056	92,328	2.096	193,519	1.187	0.566	1.770	1.002
2008-2009	170,315	440,000	1.830	805,200	4.728	2.583	1.801	4.652
2009-2010	150,383	442,000	1.597	705,874	4.694	2.939	1.831	5.382
2010-2011	128,479	362,000	1.472	532,864	4.147	2.818	1.863	5.249
2011-2012	129,074	403,000	1.393	561,379	4.349	3.122	1.895	5.916
2012-2013	127,026	215,000	1.358	291,970	2.299	1.693	1.927	3.263
2013-2014	126,765	369,686	1.325	489,834	3.864	2.916	2.009	5.858
Total/Avg	1,259,899	\$2,856,779		\$4,885,745	\$3.878			
09/10-13/14	661,727	1,791,686		2,581,921	3.902			
10/11-13/14	511,344	1,349,686		1,876,047	3.669			

Selected Limited Rate: \$4.000 Prior: \$4.200

#### Notes:

- (A) From Appendix M, Column (C).
- (B) Selected average of results from Appendices A and B.
- (C) From Appendix E, Page 1, Column (B).
- (D) (B) x (C).
- (E) (D) / (A).
- (F) Selected Limited Rate / (C). For 2014-2015 and prior (B) / (A).
- (G) Based on a Weibull distribution, a mathematical model of claim sizes.
- (H) (F) x (G).

This exhibit shows the calculation of the underlying historical relationship between losses and exposure that is needed to apply the estimation methods shown on pages 1 and 2 of this Appendix.

## Frequency and Severity Method

Accident Year	Ultimate Program Severity (A)	Adjusted Ultimate Claims (B)	Ultimate Program Losses (C)
Prior	\$12,400	398	\$4,935,200
2000-2001	18,737	26	487,162
2001-2002	34,104	24	818,496
2002-2003	9,742	30	292,260
2003-2004	23,282	31	721,742
2004-2005	17,028	20	340,560
2005-2006	16,627	27	448,929
2006-2007	20,506	23	471,638
2007-2008	9,081	18	163,458
2008-2009	34,450	23	792,350
2009-2010	31,131	26	809,406
2010-2011	35,488	19	674,272
2011-2012	40,193	19	763,667
2012-2013	18,015	23	414,345
2013-2014	24,756	30	742,680
Total		737	\$12,876,165

#### Notes:

- (A) From Appendix D, Page 2, Column (H).(B) From Appendix D, Page 2, Column (B).
- (C) (A) x (B).

This exhibit shows the calculation of the estimated ultimate losses for each year based on the observed average frequency and severity of claims.

#### Frequency and Severity Method

Accident Year	Ultimate Limited Losses (A)	Adjusted Ultimate Claims (B)	Ultimate Limited Severity (C)	Trend Factor (D)	Trended Limited Severity (E)	Limited Severity (F)	Factor to SIR (G)	Program Severity (H)
Prior	\$3,872,000	398	\$9,729	1.275	\$12,404	\$9,729	1.275	\$12,400
2000-2001	363,000	26	13,962	1.172	16,363	13,962	1.342	18,737
2001-2002	593,926	24	24,747	1.145	28,335	24,747	1.378	34,104
2002-2003	179,000	30	5,967	1.173	6,999	5,967	1.633	9,742
2003-2004	435,196	31	14,039	1.414	19,851	14,039	1.658	23,282
2004-2005	202,000	20	10,100	1.782	17,998	10,100	1.686	17,028
2005-2006	262,000	27	9,704	1.889	18,331	9,704	1.713	16,627
2006-2007	270,765	23	11,772	1.762	20,742	11,772	1.742	20,506
2007-2008	92,328	18	5,129	1.610	8,258	5,129	1.770	9,081
2008-2009	440,000	23	19,130	1.434	27,432	19,130	1.801	34,450
2009-2010	442,000	26	17,000	1.277	21,709	17,000	1.831	31,131
2010-2011	362,000	19	19,053	1.201	22,883	19,053	1.863	35,488
2011-2012	403,000	19	21,211	1.161	24,626	21,211	1.895	40,193
2012-2013	215,000	23	9,348	1.154	10,788	9,348	1.927	18,015
2013-2014	369,686	30	12,323	1.149	14,159	12,323	2.009	24,756

Average Limited Severity: \$18,059
Average 09/10-13/14 Limited Severity: 18,833
Average 10/11-13/14 Limited Severity: 18,114

Selected Limited Severity: \$18,500

Prior: \$19,700

#### Notes:

- (A) Selected average of results from Appendices A, B, and C.
- (B) Appendix D, Page 3, Column (C).
- (C) (A) / (B).
- (D) From Appendix E, Page 1, Column (J).
- (E) (C) x (D).
- (F) Selected Limited Severity / (D).
- (G) Based on a Weibull distribution, a mathematical model of claim sizes.
- (H) (F) x (G).

This exhibit shows the calculation of the historical average cost per claim, or severity. The observed average severity is used in the method shown on page 1 of this Appendix.

# Frequency and Severity Method Projection of Ultimate Claims

Accident Year	Reported Claim Development (A)	Closed Claim Development (B)	Selected Ultimate Claims (C)	Trended Payroll (\$000,000) (D)	Claim Frequency (E)	Trend Factor (F)	Trended Claim Frequency (G)
Prior	398	393	398	0.0		1.516	
2000-2001	26	25	26	0.0		1.485	
2001-2002	24	23	24	0.0		1.456	
2002-2003	30	29	30	0.0		1.428	
2003-2004	31	31	31	0.0		1.400	
2004-2005	20	19	20	0.0		1.372	
2005-2006	27	26	27	12.7	2.134	1.345	2.870
2006-2007	23	23	23	13.8	1.663	1.319	2.193
2007-2008	18	18	18	16.3	1.104	1.293	1.427
2008-2009	23	21	23	17.0	1.350	1.268	1.712
2009-2010	26	24	26	15.0	1.729	1.243	2.149
2010-2011	19	16	19	12.8	1.479	1.219	1.803
2011-2012	19	17	19	12.9	1.472	1.195	1.759
2012-2013	23	22	23	12.7	1.811	1.172	2.122
2013-2014	30	31	30	12.7	2.367	1.149	2.720
Total	737	718	737	126.0			2.053
12/13-15/16	53	53	53	25.4			2.420
					(H) Selec	ted Frequency:	2.100

Notes:

- (A) From Appendix D, Page 4, (C).
- (B) From Appendix D, Page 5, (C).
- (C) Selected from (A) and (B).
- (D) From Appendix M, Column (C) / 10,000.
- (E) (C) / (D).
- (F) From Appendix E, Page 1, Column (H).

- (G) (E) x (F).
- (H) The selected frequency of 2.100 is based on (G).

Prior:

2.100

- (I) From Appendix E, Page 1, Column (H).
- (J) (H) x (I).
- (K) From Appendix M, Column (C) / 10,000.
- (L) (J) x (K).

This exhibit summarizes the estimated numbers of claims and shows the estimated frequencies per \$1,000,000 of trended payroll.

# Frequency and Severity Method Reported Claim Count Development

Accident Year	Claims Reported as of 6/30/2020 (A)	Reported Claim Development Factor (B)	Ultimate Claims (C)	Trended Claim Frequency (D)
Prior	398	1.000	398	
2000-2001	26	1.000	26	
2001-2002	24	1.000	24	
2002-2003	30	1.000	30	
2003-2004	31	1.000	31	
2004-2005	20	1.000	20	
2005-2006	27	1.000	27	2.871
2006-2007	23	1.000	23	2.194
2007-2008	18	1.000	18	1.427
2008-2009	23	1.000	23	1.712
2009-2010	26	1.000	26	2.149
2010-2011	19	1.000	19	1.803
2011-2012	19	1.000	19	1.759
2012-2013	23	1.000	23	2.122
2013-2014	30	1.001	30	2.719
Total	737		737	2.053

#### Notes:

- (A) Provided by the District.
- (B) From Appendix D, Page 6.
- (C) (A) x (B).
- (D) (C) / [Appendix D, Page 3, (D)] x [Appendix D, Page 3, (F)].

This exhibit shows the calculation of estimated ultimate claims for each year based on reported claims as provided by the District. These numbers of claims tend to "develop" or change from period to period as more claims are filed. This development tends to follow quantifiable patterns over time.

#### Frequency and Severity Method Closed Claim Count Development

Accident Year	Claims Closed as of 6/30/2020 (A)	Closed Claim Development Factor (B)	Ultimate Claims (C)	Trended Claim Frequency (D)
Prior	391	1.005	393	
2000-2001	25	1.006	25	
2001-2002	23	1.007	23	
2002-2003	29	1.008	29	
2003-2004	31	1.009	31	
2004-2005	19	1.010	19	
2005-2006	26	1.011	26	2.764
2006-2007	23	1.012	23	2.194
2007-2008	18	1.013	18	1.427
2008-2009	21	1.015	21	1.563
2009-2010	24	1.018	24	1.984
2010-2011	16	1.022	16	1.518
2011-2012	17	1.027	17	1.574
2012-2013	21	1.035	22	2.030
2013-2014	30	1.045	31	2.810
Total	714		718	1.955

#### Notes:

- (A) Provided by the District.
- (B) From Appendix D, Page 7.
- (C) (A) x (B).
- (D) (C) / [Appendix D, Page 3, (D)] x [Appendix D, Page 3, (F)].

This exhibit shows the calculation of estimated ultimate claims for each year based on closed claims as provided by the District. These numbers of closed claims tend to "develop" or change from period to period as more claims are closed. This development tends to follow quantifiable patterns over time.

### Novato Fire Protection District - Workers' Compensation Reported Claim Count Development

	Claims Re	eported as		orted Cia	iiii Oodiit	Developin	CIII						
Accident	12	24	36	48	60	72	84	96	108	120	132	144	156
Year	Months	Months	Months	Months	Months	Months	Months						
1999-2000											31	31	31
2000-2001									0.5	28	28	28	28
2001-2002								20	25	25	25	25	24
2002-2003 2003-2004							35	30 35	30 35	30 35	30 31	30 31	30 31
2003-2004						25	25	25	25	20	20	20	20
2005-2006					29	29	29	29	27	27	27	27	27
2006-2007				24	24	25	25	23	23	23	23	23	23
2007-2008			20	20	20	20	18	18	18	18	18	18	18
2008-2009		22	22	23	23	23	23	23	23	23	23	23	
2009-2010	24	26	26	27	26	26	26	26	26	26	26		
2010-2011	24	25	25	19	19	19	19	19	19	19			
2011-2012	23	24	19	19	19	19	19	19	19				
2012-2013	21	23	23	23	23	23	23	23					
2013-2014	28	28	29	29	30	30	30						
2014-2015													
2015-2016													
2016-2017													
2017-2018 2018-2019													
2019-2020													
	Reported	Claim Co	unt Devel	onment F	actors.								
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168
	Months	Months	Months	Months	Months	Months	Months						
1999-2000											1.000	1.000	1.000
2000-2001										1.000	1.000	1.000	0.929
2001-2002									1.000	1.000	1.000	0.960	1.000
2002-2003								1.000	1.000	1.000	1.000	1.000	1.000
2003-2004						4 000	1.000	1.000	1.000	0.886	1.000	1.000	1.000
2004-2005					4 000	1.000	1.000	1.000	0.800	1.000	1.000	1.000	1.000
2005-2006 2006-2007				1 000	1.000	1.000 1.000	1.000	0.931	1.000	1.000	1.000	1.000	1.000 1.000
2006-2007			1.000	1.000 1.000	1.042 1.000	0.900	0.920 1.000	1.000 1.000	1.000 1.000	1.000 1.000	1.000	1.000	1.000
2008-2009		1.000	1.045	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2009-2010	1.083	1.000	1.038	0.963	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
2010-2011	1.042	1.000	0.760	1.000	1.000	1.000	1.000	1.000	1.000				
2011-2012	1.043	0.792	1.000	1.000	1.000	1.000	1.000	1.000					
2012-2013	1.095	1.000	1.000	1.000	1.000	1.000	1.000						
2013-2014	1.000	1.036	1.000	1.034	1.000	1.000							
2014-2015													
2015-2016													
2016-2017													
2017-2018													
2018-2019													
	12-24	24-36	36-48	48-60	60-72	72-84	84-96			120-132			
Average	Months	Months	Months	Months	Months	Months	Months						
Average Claim-Weighted	1.053	0.971	0.978	1.000	1.005	0.990	0.992	0.993	0.980	0.989	1.000	0.996	0.991
Averages													
3-yr						1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
4-yr						1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Comparative			4.65	4.655	4.655	4.65	4.65				4.655	4 6 5 5	4.000
Factors Prior	1.100 1.080	1.007 1.007	1.004 1.004	1.003 1.003	1.002 1.002	1.001 1.001	1.001 1.001	1.000 1.000	1.000 1.000	1.000 1.000	1.000 1.000	1.000 1.000	1.000 1.000
1 1101	1.000		1.004		1.002		1.001	1.000	1.000	1.000	1.000	1.000	
Selected	1.080	1.007	1.004	1.003	1.002	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000
Cumulated	1.099	1.018	1.011	1.007	1.004	1.002	36 <sup>1.001</sup>	1.000	1.000	1.000	1.000	1.000	1.000
aiatou	1.555	1.010	1.011	1.507	1.50-	1.002	36	1.500	1.500	1.500	1.500	1.500	

### Novato Fire Protection District - Workers' Compensation Closed Claim Development

	Claims Cl	nsed as n	f·	Ciosea C	iaiiii Deve	ыоринени							
Accident	12	24	36	48	60	72	84	96	108	120	132	144	156
Year	Months	Months		Months	Months	Months	Months	Months	Months	Months	Months	Months	Months
1999-2000	WOTHING	WOTHING	WOTHING	WOTHING	WOTHIO	WOTHING	WOTHING	Wienthio	Wieritaio	Months	31	31	31
2000-2001										27	28	28	28
2001-2002									22	23	23	23	22
2002-2003								29	29	29	29	29	29
2003-2004							32	32	32	32	30	30	30
2003-2004						24	24	24	24	19	19	19	19
2005-2006					27	27	27	28	26	26	26	26	26
2006-2007				21	21	23	24	22	23	23	23	23	23
2007-2008			18	18	19	20	18	18	18	18	18	18	23 18
		10	19		20	21	20		20		21	21	10
2008-2009	47	19		20				20		21		21	
2009-2010	17	21	22	24	23	23	23	24	24	24	24		
2010-2011	19	20	21	15	16	16	16	17	17	16			
2011-2012	11	19	13	14	14	17	18	18	17				
2012-2013	15	19	21	21	21	21	21	21					
2013-2014	23	23	24	27	28	29	30						
2014-2015													
2015-2016													
2016-2017													
2017-2018													
2018-2019													
2019-2020													
	Closed Cl			ment Fact	tors:								
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108		120-132			
	Months	Months	Months	Months	Months	Months	Months						
1999-2000											1.000	1.000	0.968
2000-2001										1.037	1.000	1.000	0.893
2001-2002									1.045	1.000	1.000	0.957	1.000
2002-2003								1.000	1.000	1.000	1.000	1.000	1.000
2003-2004							1.000	1.000	1.000	0.938	1.000	1.000	1.000
2004-2005						1.000	1.000	1.000	0.792	1.000	1.000	1.000	1.000
2005-2006					1.000	1.000	1.037	0.929	1.000	1.000	1.000	1.000	1.000
2006-2007				1.000	1.095	1.043	0.917	1.045	1.000	1.000	1.000	1.000	1.000
2007-2008			1.000	1.056	1.053	0.900	1.000	1.000	1.000	1.000	1.000	1.000	
2008-2009		1.000	1.053	1.000	1.050	0.952	1.000	1.000	1.050	1.000	1.000		
2009-2010	1.235	1.048	1.091	0.958	1.000	1.000	1.043	1.000	1.000	1.000			
2010-2011	1.053	1.050	0.714	1.067	1.000	1.000	1.063	1.000	0.941				
2011-2012	1.727	0.684	1.077	1.000	1.214	1.059	1.000	0.944					
2012-2013	1.267	1.105	1.000	1.000	1.000	1.000	1.000						
2013-2014	1.000	1.043	1.125	1.037	1.036	1.034							
2014-2015													
2015-2016													
2016-2017													
2017-2018													
2018-2019													
	40.04	04.00	00.40	40.00	00.70	70.04	04.00	00.400	400 400	100 100	100 111	444.450	450 400
	12-24 Months	24-36 Months	36-48 Months	48-60 Months	60-72 Months	72-84 Months	84-96 Months	96-108 Months	108-120 Months	120-132 Months	132-144 Months	144-156 Months	156-168 Months
Average	Months 1.256	0.988	1.009	1.015	1.050	0.999	1.006	0.992	0.983	0.998	1.000	0.995	0.983
Average Claim-Weighted	1.200	0.500	1.009	1.013	1.000	0.555	1.000	0.332	0.303	0.550	1.000	0.550	0.303
Averages													
3-yr						1.030	1.018	0.983	1.000	1.000	1.000	1.000	1.000
4-yr						1.024	1.026	0.987	1.000	1.000	1.000	1.000	1.000
Comparative													
Factors	1.600	1.080	1.050	1.030	1.025	1.015	1.010	1.008	1.005	1.004	1.003	1.002	1.001
Prior	1.550	1.080	1.050	1.030	1.025	1.015	1.010	1.008	1.005	1.004	1.003	1.002	1.001
Selected	1.550	1.080	1.050	1.030	1.025	1.015	1.010	1.008	1.005	1.004	1.003	1.002	1.001
30.00.00												2	
Cumulated	1.970	1.271	1.177	1.121	1.088	1.061	37 <sup>1.045</sup>	1.035	1.027	1.022	1.018	1.015	1.013
							3/						

### Loss Trend Factors

	Benefit	Factor to 2020-2021	Factor to 2021-2022	Factor to 2022-2023	Factor to 2023-2024	Factor to 2020-2021	Factor to 2021-2022	Factor to 2022-2023	Factor to 2023-2024	Factor to 2020-2021
Accident	Level	Loss Rate	Loss Rate	Loss Rate	Loss Rate			Frequency		Severity
Year	Factor	Level								
. cai	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
	(7.1)	(2)	(0)	(2)	(=)	(. )	(0)	()	(.)	(0)
Prior	0.760	1.953	2.042	2.136	2.234	1.516	1.546	1.576	1.608	1.275
2000-2001	0.716	1.759	1.839	1.924	2.012	1.485	1.515	1.545	1.576	1.172
2001-2002	0.716	1.683	1.760	1.841	1.926	1.456	1.486	1.515	1.545	1.145
2002-2003	0.752	1.690	1.767	1.848	1.933	1.428	1.457	1.485	1.515	1.173
2003-2004	0.930	1.997	2.089	2.185	2.285	1.400	1.428	1.456	1.485	1.414
2004-2005	1.201	2.465	2.578	2.696	2.821	1.372	1.400	1.427	1.456	1.782
2005-2006	1.305	2.562	2.679	2.802	2.931	1.345	1.372	1.399	1.427	1.889
2006-2007	1.248	2.341	2.448	2.561	2.679	1.319	1.345	1.372	1.399	1.762
2007-2008	1.168	2.096	2.192	2.293	2.398	1.293	1.319	1.345	1.372	1.610
2008-2009	1.066	1.830	1.913	2.001	2.093	1.268	1.293	1.319	1.345	1.434
2009-2010	0.973	1.597	1.670	1.747	1.827	1.243	1.268	1.293	1.319	1.277
2010-2011	0.938	1.472	1.539	1.609	1.683	1.219	1.243	1.268	1.293	1.201
2011-2012	0.929	1.393	1.457	1.524	1.594	1.195	1.219	1.243	1.268	1.161
2012-2013	0.948	1.358	1.420	1.486	1.554	1.172	1.195	1.219	1.243	1.154
2013-2014	0.966	1.325	1.385	1.449	1.515	1.149	1.172	1.195	1.219	1.149
2014-2015	0.963	1.262	1.320	1.381	1.444	1.126	1.149	1.172	1.195	1.117
2015-2016	0.994	1.245	1.302	1.362	1.424	1.105	1.127	1.149	1.172	1.125
2016-2017	1.034	1.239	1.295	1.355	1.417	1.083	1.105	1.126	1.149	1.142
2017-2018	1.023	1.172	1.225	1.281	1.340	1.061	1.083	1.104	1.126	1.102
2018-2019	1.007	1.102	1.152	1.205	1.261	1.041	1.062	1.082	1.104	1.058
2019-2020	1.003	1.049	1.097	1.147	1.200	1.020	1.040	1.061	1.082	1.028
2020-2021	1.000	1.000	1.046	1.094	1.144	1.000	1.020	1.040	1.061	1.000
2021-2022	1.000		1.000	1.046	1.094		1.000	1.020	1.040	
2022-2023	1.000			1.000	1.046			1.000	1.020	
2023-2024	1.000				1.000				1.000	

### Notes:

(A) Based on WCIRB.

(B) - (E) (A) adjusted for a 4.6% annual loss rate trend.

(F) - (I) (A) adjusted for a 2.0% annual frequency trend.

(J) (A) adjusted for a 2.5% annual severity trend.

This exhibit shows the calculation of the ways in which we expect claims costs to have changed over the past twenty years due to changes in statutory workers' compensation benefit levels and changes in actual claims costs in excess of changes in payroll. Changes in the ways in which claims are filed as a result of greater awareness of workers' compensation benefits are not generally reflected in the statutory benefit level factors shown above, but may be part of the reason for changes in actual claims costs in excess of payroll changes.

### Residual Trend Factors

Accident Year	Initial Estimate of Ultimate Limited Losses (A)	Ultimate Reported Claims (B)	BLF (C)	Adjusted Limited Severity (D)	Trended Payroll (\$00) (E)	Ultimate Frequency (F)
Prior	\$3,872,000	398	0.760	7,390		
2000-2001	363,000	26	0.716	9,990		
2001-2002	593,926	24	0.716	17,728		
2002-2003	179,000	30	0.752	4,488		
2003-2004	435,196	31	0.930	13,056		
2004-2005	202,000	20	1.201	12,127		
2005-2006	262,000	27	1.305	12,662	126,509	2.134
2006-2007	270,765	23	1.248	14,687	138,292	1.663
2007-2008	92,328	18	1.168	5,992	163,056	1.104
2008-2009	440,000	23	1.066	20,398	170,315	1.350
2009-2010	442,000	26	0.973	16,549	150,383	1.729
2010-2011	362,000	19	0.938	17,878	128,479	1.479
2011-2012	403,000	19	0.929	19,714	129,074	1.472
2012-2013	215,000	23	0.948	8,858	127,026	1.811
2013-2014	369,686	30	0.966	11,909	126,765	2.367
2014-2015		0	0.963			
2015-2016		0	0.994			
				rend Factors	Frequency	Frend Factors
			Latest 9	1.008		1.022
			Latest 5	0.873		1.087
			Prior	1.025		1.020
			Default	1.025		0.980
		Selected Resi	idual Trend	1.025		1.020

- (A) Selected average of results from Appendix A and Appendix B.
- (B) Appendix D, Page 3, Column (C).(C) Appendix E, Page 1, (A).
- (D) (A) x (C) / (B).
- (E) From Appendix M, Column (C).
- (F) (B) / (E) x 10,000.

### Outstanding Liability for Unallocated Loss Adjustment Expenses as of 6/30/20

	Number of	Average		Trended	
	Claims Active	ULAE		ULAE	
	During	Charge	Inflation	Charge	ULAE
Fiscal	Fiscal	per Active	Trend	per Active	Paid During
Year	Year	Claim	Factor	Claim	Year
(A)	(B)	(C)	(D)	(E)	(F)
2020-2021	15.0	\$1,150	1.000	\$1,150	\$17,250
2021-2022	10.9	1,150	1.050	1,208	13,167
2022-2023	9.4	1,150	1.103	1,268	11,919
2023-2024	7.6	1,150	1.158	1,332	10,123
2024-2025	6.3	1,150	1.216	1,398	8,807
2025-2026	5.8	1,150	1.277	1,469	8,520
2026-2027	5.3	1,150	1.341	1,542	8,173
2027-2028	3.7	1,150	1.408	1,619	5,990
2028-2029	2.3	1,150	1.478	1,700	3,910
2029-2030	1.0	1,150	1.552	1,785	1,785
2030-2031	0.4	1,150	1.630	1,875	750
2031-2032	0.0	1,150	1.712	1,969	0
2032-2033	0.0	1,150	1.798	2,068	0
2033-2034	0.0	1,150	1.888	2,171	0
2034-2035	0.0	1,150	1.982	2,279	0
2035-2036	0.0	1,150	2.081	2,393	0
2036-2037	0.0	1,150	2.185	2,513	0
2037-2038	0.0	1,150	2.294	2,638	0

### (G) Total ULAE Outstanding as of 6/30/20:

\$90,394

### Notes:

- (A) We assume fiscal years will be 7/1 to 6/30.
- (B) Based on an estimated claim closing pattern.
- (C) Based on claims administration payment information provided by the District.
- (D) We assume ULAE costs will increase at 5.0% per year.
- (E) (C) x (D).
- (F) (B) x (E).
- (G) Total of Column (F).

This exhibit shows the calculation of the outstanding ULAE based on the expected pattern of claims closings and assumptions about future claims administration costs per open claim.

### Outstanding Liability for Unallocated Loss Adjustment Expenses as of 6/30/21

	Number of	Average		Trended	
	Claims Active	ULAE		ULAE	
	During	Charge	Inflation	Charge	ULAE
Fiscal	Fiscal	per Active	Trend	per Active	Paid During
Year	Year	Claim	Factor	Claim	Year
(A)	(B)	(C)	(D)	(E)	(F)
2021-2022	10.9	\$1,150	1.050	\$1,208	\$13,167
2022-2023	9.4	1,150	1.103	1,268	11,919
2023-2024	7.6	1,150	1.158	1,332	10,123
2024-2025	6.3	1,150	1.216	1,398	8,807
2025-2026	5.8	1,150	1.277	1,469	8,520
2026-2027	5.3	1,150	1.341	1,542	8,173
2027-2028	3.7	1,150	1.408	1,619	5,990
2028-2029	2.3	1,150	1.478	1,700	3,910
2029-2030	1.0	1,150	1.552	1,785	1,785
2030-2031	0.4	1,150	1.630	1,875	750
2031-2032	0.0	1,150	1.712	1,969	0
2032-2033	0.0	1,150	1.798	2,068	0
2033-2034	0.0	1,150	1.888	2,171	0
2034-2035	0.0	1,150	1.982	2,279	0
2035-2036	0.0	1,150	2.081	2,393	0
2036-2037	0.0	1,150	2.185	2,513	0
2037-2038	0.0	1,150	2.294	2,638	0
2038-2039	0.0	1,150	2.409	2,770	0

### (G) Total ULAE Outstanding as of 6/30/21:

\$73,144

### Notes:

- (A) We assume fiscal years will be 7/1 to 6/30.
- (B) Based on an estimated claim closing pattern.
- (C) Based on claims administration payment information provided by the District.
- (D) We assume ULAE costs will increase at 5.0% per year.
- (E) (C) x (D).
- (F) (B) x (E).
- (G) Total of Column (F).

This exhibit shows the calculation of the outstanding ULAE based on the expected pattern of claims closings and assumptions about future claims administration costs per open claim.

Payment and Reserve Forecast

Calendar Period

Accident Year	As of 6/30/2020	7/1/2020 to 6/30/2021	7/1/2021 to <u>6/30/2022</u>	7/1/2022 to <u>6/30/2023</u>	7/1/2023 to 6/30/2024	7/1/2024 to <u>6/30/2025</u>	7/1/2025 to 6/30/2026	7/1/2026 to <u>6/30/2027</u>	7/1/2027 to <u>6/30/2028</u>	7/1/2028 to <u>6/30/2029</u>	7/1/2029 to <u>6/30/2030</u>
Prior Ultimate Loss Paid in Calendar Period Paid to Date Undiscounted Outstanding Liability	\$8,649,301 - 8,444,461 204,840	\$8,649,301 34,563 8,479,024 170,277	\$8,649,301 26,019 8,505,043 144,258	\$8,649,301 21,165 8,526,208 123,093	\$8,649,301 18,170 8,544,378 104,923	\$8,649,301 15,511 8,559,889 89,412	\$8,649,301 13,226 8,573,115 76,186	\$8,649,301 11,328 8,584,443 64,858	\$8,649,301 9,653 8,594,096 55,205	\$8,649,301 8,221 8,602,317 46,984	\$8,649,301 7,001 8,609,318 39,983
2004-2005 Ultimate Loss Paid in Calendar Period Paid to Date Undiscounted Outstanding Liability	\$211,000 - 159,312 51,688	\$211,000 4,238 163,550 47,450	\$211,000 4,365 167,915 43,085	\$211,000 13,270 181,185 29,815	\$211,000 4,264 185,449 25,551	\$211,000 3,692 189,141 21,859	\$211,000 3,191 192,332 18,668	\$211,000 2,744 195,076 15,924	\$211,000 2,341 197,417 13,583	\$211,000 2,010 199,427 11,573	\$211,000 1,713 201,140 9,860
2005-2006 Ultimate Loss Paid in Calendar Period Paid to Date Undiscounted Outstanding Liability	\$261,000 - 249,390 11,610	\$261,000 1,057 250,447 10,553	\$261,000 865 251,312 9,688	\$261,000 1,889 253,201 7,799	\$261,000 2,402 255,603 5,397	\$261,000 772 256,375 4,625	\$261,000 668 257,043 3,957	\$261,000 578 257,621 3,379	\$261,000 497 258,118 2,882	\$261,000 424 258,542 2,458	\$261,000 364 258,906 2,094
2006-2007 Ultimate Loss Paid in Calendar Period Paid to Date Undiscounted Outstanding Liability	\$493,327 - 493,327	\$493,327 493,327	\$493,327 493,327	\$493,327 493,327	\$493,327 493,327	\$493,327 493,327	\$493,327 493,327	\$493,327 493,327	\$493,327 493,327	\$493,327 493,327	\$493,327 493,327
2007-2008 Ultimate Loss Paid in Calendar Period Paid to Date Undiscounted Outstanding Liability	\$92,328 - 92,328	\$92,328 92,328	\$92,328 92,328	\$92,328 92,328	\$92,328 92,328	\$92,328 92,328	\$92,328 92,328	\$92,328 92,328	\$92,328 92,328	\$92,328 92,328	\$92,328 92,328
2008-2009 Ultimate Loss Paid in Calendar Period Paid to Date Undiscounted Outstanding Liability	\$656,000 - 468,736 187,264	\$656,000 17,228 485,964 170,036	\$656,000 14,453 500,417 155,583	\$656,000 13,069 513,486 142,514	\$656,000 12,969 526,455 129,545	\$656,000 10,623 537,078 118,922	\$656,000 23,190 560,268 95,732	\$656,000 29,485 589,753 66,247	\$656,000 9,473 599,226 56,774	\$656,000 8,204 607,430 48,570	\$656,000 7,091 614,521 41,479
2009-2010 Ultimate Loss Paid in Calendar Period Paid to Date Undiscounted Outstanding Liability	\$698,000 - 592,075 105,925	\$698,000 10,275 602,350 95,650	\$698,000 8,800 611,150 86,850	\$698,000 7,3 <u>82</u> 618,532 79,468	\$698,000 6,675 625,207 72,793	\$698,000 6,624 631,831 66,169	\$698,000 5,426 637,257 60,743	\$698,000 11,845 649,102 48,898	\$698,000 15,061 664,163 33,837	\$698,000 4,839 669,002 28,998	\$698,000 4,190 673,192 24,808

Novato Fire Protection District - Workers' Compensation

Payment and Reserve Forecast

	7/1/2029 to 6/30/2030	\$632,000 6,132 595,254 36,746	\$700,000 18,129 659,269 40,731	\$324,000 9,169 286,150 37,850	\$594,000 5,439 533,110 60,890
	7/1/2028 to <u>6/30/2029</u>	\$632,000 19,084 589,122 42,878	\$700,000 14,258 641,140 58,860	\$324,000 4,200 276,981 47,019	\$594,000 6,640 527,671 66,329
	7/1/2027 to <u>6/30/2028</u>	\$632,000 15,010 570,038 61,962	\$700,000 6,531 626,882 73,118	\$324,000 5,127 272,781 51,219	\$594,000 6,691 521,031 72,969
	7/1/2026 to <u>6/30/2027</u>	\$632,000 6,875 555,028 76,972	\$700,000 7,974 620,351 79,649	\$324,000 5,167 267,654 56,346	\$594,000 7,400 514,340 79,660
Period	7/1/2025 to <u>6/30/2026</u>	\$632,000 8,394 548,153 83,847	\$700,000 8,035 612,377 87,623	\$324,000 5,714 262,487 61,513	\$594,000 8,716 506,940 87,060
Calendar Period	7/1/2024 to 6/30/2025	\$632,000 8,459 539,759 92,241	\$700,000 8,886 604,342 95,658	\$324,000 6,730 256,773 67,227	\$594,000 10,288 498,224 95,776
	7/1/2023 to <u>6/30/2024</u>	\$632,000 9,355 531,300 100,700	\$700,000 10,466 595,456 104,544	\$324,000 7,944 250,043 73,957	\$594,000 11,004 487,936 106,064
	7/1/2022 to <u>6/30/2023</u>	\$632,000 11,018 521,945 110,055	\$700,000 12,354 584,990 115,010	\$324,000 8,497 242,099 81,901	\$594,000 13,008 476,932 117,068
	7/1/2021 to 6/30/2022	\$632,000 13,006 510,927 121,073	\$700,000 13,214 572,636 127,364	\$324,000 10,044 233,602 90,398	\$594,000 19,094 463,924 130,076
	7/1/2020 to 6/30/2021	\$632,000 13,911 497,921 134,079	\$700,000 15,620 559,422 140,578	\$324,000 14,744 223,558 100,442	\$594,000 29,263 444,830 149,170
	As of <u>6/30/2020</u>	\$632,000 - 484,010 147,990	\$700,000 - 543,802 156,198	\$324,000 - 208,814 115,186	\$594,000 - 415,567 178,433
	Accident Year	2010-2011 Ultimate Loss Paid in Calendar Period Paid to Date Undiscounted Outstanding Liability	2011-2012 Ultimate Loss Paid in Calendar Period Paid to Date Undiscounted Outstanding Liability	2012-2013 Ultimate Loss Paid in Calendar Period Paid to Date Undiscounted Outstanding Liability	2013-2014 Ultimate Loss Paid in Calendar Period Paid to Date Undiscounted Outstanding Liability

Novato Fire Protection District - Workers' Compensation

Payment and Reserve Forecast

						Calendar Period	r Period				
Accident Year	As of 6/30/2020	7/1/2020 to 6/30/2021	7/1/2021 to <u>6/30/2022</u>	7/1/2022 to 6/30/2023	7/1/2023 to 6/30/2024	7/1/2024 to <u>6/30/2025</u>	7/1/2025 to 6/30/2026	7/1/2026 to <u>6/30/2027</u>	7/1/2027 to 6/30/2028	7/1/2028 to 6/30/2029	7/1/2029 to 6/30/2030
Ultimate Loss	\$13,310,956	\$13,310,956	\$13,310,956	\$13,310,956	\$13,310,956	\$13,310,956	\$13,310,956	\$13,310,956	\$13,310,956	\$13,310,956	\$13,310,956
Ultimate Loss at 80%	13,687,000	13,687,000	13,687,000	13,687,000	13,687,000	13,687,000	13,687,000	13,687,000	13,687,000	13,687,000	13,687,000
Paid at Expected in Calendar Period	•	140,899	109,860	101,652	83,249	71,585	76,560	83,396	70,384	67,880	59,228
Paid at 80% in Calendar Period		187,035	145,455	134,587	110,222	94,779	101,365	110,416	93,188	89,873	78,418
Total Paid to Date at Expected	12,151,822	12,292,721	12,402,581	12,504,233	12,587,482	12,659,067	12,735,627	12,819,023	12,889,407	12,957,287	13,016,515
Total Paid to Date at 80%		12,338,857	12,484,312	12,618,899	12,729,120	12,823,899	12,925,264	13,035,681	13,128,869	13,218,742	13,297,160
Undiscounted Outstanding Liability at Expected Undiscounted Outstanding Liability at 80%	1,159,134	1,018,235	908,375	806,723	723,474	651,889	575,329	491,933	421,549	353,669	294,441
	1,534,693	1,348,143	1,202,689	1,068,101	957,880	863,101	761,736	651,319	558,131	468,258	389,840
Total Undiscounted Outstanding ULAE at Expected Total Undiscounted Outstanding ULAE at 80%	90,394 119,682	73,144 96,843	59,977 79,410	48,058 63,629	37,935 50,226	29,944 39,646	23,637 31,295	18,658 24,703	14,728 19,500	11,626 15,392	9,177
Total Undiscounted Outstanding Liability at Expected Total Undicounted Outstanding Liability at 80%	1,249,528	1,091,379	968,352	854,781	761,409	681,833	598,966	510,591	436,277	365,295	303,618
	1,654,375	1,444,986	1,282,098	1,131,730	1,008,106	902,747	793,031	676,022	577,630	483,650	401,990

Notes appear on the next page.

## Payment and Reserve Forecast

### Notes to previous page:

- Accident Year is associated with date of loss. Calendar Period is associated with date of transaction. For example, for the losses which occurred during 2013-2014, \$594,000 is expected to be paid between 7/1/20 and 6/30/21, \$444,830 will have been paid by 6/30/21, and the reserve for remaining payments on these claims should be \$149,170.
- Ultimate Losses for each accident year are from Exhibit 3, Page 1.
- Paid in Calendar Period is a proportion of the Undiscounted Outstanding Liability from the previous calendar period. These proportions are derived from the paid loss development pattern selected in Appendix B. For example, \$29,263 = \$178,433 x 16.4%.
- Paid to Date is Paid in Calendar Period plus Paid to Date from previous calendar period. For example, \$444,830 = \$29,263 + \$415,567.
- Outstanding Liability is Ultimate Loss minus Paid to Date. For example, \$149,170 = \$178,433 - \$29,263.

This exhibit shows the calculation of the liability for outstanding claims as of the date of evaluation, the end of the current fiscal year, and the end of the coming fiscal year. It also shows the expected claims payout during the remainder of the current fiscal year and the coming fiscal year. Refer to the Totals at the end of the exhibit for the balance sheet information. The top parts of the exhibit show information for each program year.

### Short- and Long-Term Liabilities

Liabilities as	of 6/30/20:			Expected		Discounted	
	ent (Short Term)	Loss and ALAE:		\$140,899		\$139,170	
	<del></del>	ULAE:		17,250		17,038	
	Short-	Term Loss and LAE:		\$158,149		\$156,208	
				<b>4</b> 100,110		¥ · · · · ,= · ·	
Non-	Current (Long Term)	Loss and ALAE:		\$1,018,235		\$860,330	
	<u> </u>	ULAE:		73,144		60,907	
	Long-	Term Loss and LAE:		\$1,091,379		\$921,237	
	9			<b>+</b> 1,001,010		¥ · , · ·	
Total	Liability	Loss and ALAE:		\$1,159,134		\$999,500	
		ULAE:		90,394		77,945	
		Total Loss and LAE:		\$1,249,528		\$1,077,445	
				ψ.,2.0,020		Ψ.,σ,σ	
Liabilities as	of 6/30/21:						
	ent (Short Term)	Loss and ALAE:		\$109,860		\$108,512	
	<u> </u>	ULAE:		13,167		13,005	
	Short-	Term Loss and LAE:		\$123,027		\$121,517	
	Chort	TOTAL EOSS AND LACE.		ψ120,021		Ψ121,017	
Non-	Current (Long Term)	Loss and ALAE:		\$908,375		\$775,551	
14011-	Carronic (Long Tollil)	ULAE:		59,977		50,501	
	Long	Term Loss and LAE:		\$968,352		\$826,052	
	Long-	Tellii Loss and LAE.		φ900,332		\$620,032	
Total	Liability	Loss and ALAE:		\$1,018,235		\$884,063	
<u>10tai</u>	Liability	ULAE:		73,144		63,506	
		Total Loss and LAE:		\$1,091,379		\$947,569	
		Total Loss and LAE.		\$1,091,379		φ947,309	
				Discounted v	with a Margin for Co	ntingencies	
		-	700/		80%	85%	90%
			70%	/5%	017/0	0:07/0	
			70% Confidence	75% Confidence			
Liabilities as o	of 6/30/20:		Confidence	Confidence	Confidence	Confidence	<u>Confidence</u>
Liabilities as o		Loss and ALAE	<u>Confidence</u>	<u>Confidence</u>	<u>Confidence</u>	Confidence	<u>Confidence</u>
	of 6/30/20: ent (Short Term)	Loss and ALAE:	Confidence \$161,437	<u>Confidence</u> \$171,875	<u>Confidence</u> \$184,261	<u>Confidence</u> \$199,709	<u>Confidence</u> \$220,445
	ent (Short Term)	ULAE:	\$161,437 19,764	<u>Confidence</u> \$171,875 21,042	<u>Confidence</u> \$184,261 22,558	<u>Confidence</u> \$199,709 24,450	<u>Confidence</u> \$220,445 26,988
	ent (Short Term)		Confidence \$161,437	<u>Confidence</u> \$171,875	<u>Confidence</u> \$184,261	<u>Confidence</u> \$199,709	<u>Confidence</u> \$220,445
Curre	ent (Short Term) Short-	ULAE: _ Term Loss and LAE:	\$161,437 19,764 \$181,201	\$171,875 21,042 \$192,917	\$184,261 22,558 \$206,819	\$199,709 24,450 \$224,159	\$220,445 26,988 \$247,433
Curre	ent (Short Term)	ULAE: _ Term Loss and LAE: Loss and ALAE:	\$161,437 19,764 \$181,201 \$997,983	\$171,875 21,042 \$192,917 \$1,062,508	\$184,261 22,558 \$206,819 \$1,139,077	\$199,709 24,450 \$224,159 \$1,234,574	\$220,445 26,988 \$247,433 \$1,362,763
Curre	ent (Short Term) Short- Current (Long Term)	ULAE: _ Term Loss and LAE: Loss and ALAE: ULAE: _	\$161,437 19,764 \$181,201 \$997,983 70,652	\$171,875 21,042 \$192,917 \$1,062,508 75,220	\$184,261 22,558 \$206,819 \$1,139,077 80,641	\$199,709 24,450 \$224,159 \$1,234,574 87,401	\$220,445 26,988 \$247,433 \$1,362,763 96,477
Curre	ent (Short Term) Short- Current (Long Term)	ULAE: _ Term Loss and LAE: Loss and ALAE:	\$161,437 19,764 \$181,201 \$997,983	\$171,875 21,042 \$192,917 \$1,062,508	\$184,261 22,558 \$206,819 \$1,139,077	\$199,709 24,450 \$224,159 \$1,234,574	\$220,445 26,988 \$247,433 \$1,362,763
<u>Curre</u> <u>Non-</u>	ent (Short Term) Short- Current (Long Term) Long-	ULAE: _ Term Loss and LAE:  Loss and ALAE:  ULAE: _ Term Loss and LAE:	\$161,437 19,764 \$181,201 \$997,983 70,652 \$1,068,635	\$171,875 21,042 \$192,917 \$1,062,508 75,220 \$1,137,728	\$184,261 22,558 \$206,819 \$1,139,077 80,641 \$1,219,718	\$199,709 24,450 \$224,159 \$1,234,574 87,401 \$1,321,975	\$220,445 26,988 \$247,433 \$1,362,763 96,477 \$1,459,240
<u>Curre</u> <u>Non-</u>	ent (Short Term) Short- Current (Long Term)	ULAE: _ Term Loss and LAE: Loss and ALAE: ULAE: _ Term Loss and LAE: Loss and ALAE:	\$161,437 19,764 \$181,201 \$997,983 70,652 \$1,068,635	\$171,875 21,042 \$192,917 \$1,062,508 75,220 \$1,137,728	\$184,261 22,558 \$206,819 \$1,139,077 80,641 \$1,219,718	\$199,709 24,450 \$224,159 \$1,234,574 87,401 \$1,321,975	\$220,445 26,988 \$247,433 \$1,362,763 96,477 \$1,459,240 \$1,583,208
<u>Curre</u> <u>Non-</u>	ent (Short Term) Short- Current (Long Term) Long- Liability	ULAE: _ Term Loss and LAE: Loss and ALAE: ULAE: _ Term Loss and LAE: Loss and ALAE: ULAE: _ ULAE: _	\$161,437 19,764 \$181,201 \$997,983 70,652 \$1,068,635 \$1,159,420 90,416	\$171,875 21,042 \$192,917 \$1,062,508 75,220 \$1,137,728 \$1,234,383 96,262	\$184,261 22,558 \$206,819 \$1,139,077 80,641 \$1,219,718 \$1,323,338 103,199	\$199,709 24,450 \$224,159 \$1,234,574 87,401 \$1,321,975 \$1,434,283 111,851	\$220,445 26,988 \$247,433 \$1,362,763 96,477 \$1,459,240 \$1,583,208 123,465
<u>Curre</u> <u>Non-</u>	ent (Short Term) Short- Current (Long Term) Long- Liability	ULAE: _ Term Loss and LAE: Loss and ALAE: ULAE: _ Term Loss and LAE: Loss and ALAE:	\$161,437 19,764 \$181,201 \$997,983 70,652 \$1,068,635	\$171,875 21,042 \$192,917 \$1,062,508 75,220 \$1,137,728	\$184,261 22,558 \$206,819 \$1,139,077 80,641 \$1,219,718	\$199,709 24,450 \$224,159 \$1,234,574 87,401 \$1,321,975	\$220,445 26,988 \$247,433 \$1,362,763 96,477 \$1,459,240 \$1,583,208
<u>Curre</u> <u>Non-</u>	ent (Short Term) Short- Current (Long Term) Long- Liability	ULAE: _ Term Loss and LAE: Loss and ALAE: ULAE: _ Term Loss and LAE: Loss and ALAE: ULAE: _ ULAE: _	\$161,437 19,764 \$181,201 \$997,983 70,652 \$1,068,635 \$1,159,420 90,416	\$171,875 21,042 \$192,917 \$1,062,508 75,220 \$1,137,728 \$1,234,383 96,262	\$184,261 22,558 \$206,819 \$1,139,077 80,641 \$1,219,718 \$1,323,338 103,199	\$199,709 24,450 \$224,159 \$1,234,574 87,401 \$1,321,975 \$1,434,283 111,851	\$220,445 26,988 \$247,433 \$1,362,763 96,477 \$1,459,240 \$1,583,208 123,465
<u>Curre</u> <u>Non-</u>	ent (Short Term) Short- Current (Long Term) Long- I Liability	ULAE: _ Term Loss and LAE: Loss and ALAE: ULAE: _ Term Loss and LAE: Loss and ALAE: ULAE: _ ULAE: _	\$161,437 19,764 \$181,201 \$997,983 70,652 \$1,068,635 \$1,159,420 90,416	\$171,875 21,042 \$192,917 \$1,062,508 75,220 \$1,137,728 \$1,234,383 96,262	\$184,261 22,558 \$206,819 \$1,139,077 80,641 \$1,219,718 \$1,323,338 103,199	\$199,709 24,450 \$224,159 \$1,234,574 87,401 \$1,321,975 \$1,434,283 111,851	\$220,445 26,988 \$247,433 \$1,362,763 96,477 \$1,459,240 \$1,583,208 123,465
Curre  Non-  Total	ent (Short Term) Short- Current (Long Term) Long- I Liability	ULAE: _ Term Loss and LAE:  Loss and ALAE: ULAE: _ Term Loss and LAE:  Loss and ALAE: ULAE: _ ULAE: _ Total Loss and LAE:	\$161,437 19,764 \$181,201 \$997,983 70,652 \$1,068,635 \$1,159,420 90,416 \$1,249,836	\$171,875 21,042 \$192,917 \$1,062,508 75,220 \$1,137,728 \$1,234,383 96,262 \$1,330,645	\$184,261 22,558 \$206,819 \$1,139,077 80,641 \$1,219,718 \$1,323,338 103,199 \$1,426,537	\$199,709 24,450 \$224,159 \$1,234,574 87,401 \$1,321,975 \$1,434,283 111,851 \$1,546,134	\$220,445 26,988 \$247,433 \$1,362,763 96,477 \$1,459,240 \$1,583,208 123,465 \$1,706,673
Curre  Non-  Total	ent (Short Term) Short- Current (Long Term) Long- I Liability	ULAE: _ Term Loss and ALAE:	\$161,437 19,764 \$181,201 \$997,983 70,652 \$1,068,635 \$1,159,420 90,416 \$1,249,836	\$171,875 21,042 \$192,917 \$1,062,508 75,220 \$1,137,728 \$1,234,383 96,262 \$1,330,645	\$184,261 22,558 \$206,819 \$1,139,077 80,641 \$1,219,718 \$1,323,338 103,199 \$1,426,537	\$199,709 24,450 \$224,159 \$1,234,574 87,401 \$1,321,975 \$1,434,283 111,851 \$1,546,134	\$220,445 26,988 \$247,433 \$1,362,763 96,477 \$1,459,240 \$1,583,208 123,465 \$1,706,673
Curre  Non-  Total	ent (Short Term) Short- Current (Long Term) Long- I Liability of 6/30/21: ent (Short Term)	ULAE: _ Term Loss and ALAE:	\$161,437 19,764 \$181,201 \$997,983 70,652 \$1,068,635 \$1,159,420 90,416 \$1,249,836	\$171,875 21,042 \$192,917 \$1,062,508 75,220 \$1,137,728 \$1,234,383 96,262 \$1,330,645	\$184,261 22,558 \$206,819 \$1,139,077 80,641 \$1,219,718 \$1,323,338 103,199 \$1,426,537 \$143,670 17,219	\$199,709 24,450 \$224,159 \$1,234,574 87,401 \$1,321,975 \$1,434,283 111,851 \$1,546,134 \$155,715 18,662	\$220,445 26,988 \$247,433 \$1,362,763 96,477 \$1,459,240 \$1,583,208 123,465 \$1,706,673 \$171,883 20,600
Curre  Non-  Total	ent (Short Term) Short- Current (Long Term) Long- I Liability of 6/30/21: ent (Short Term)	ULAE: _ Term Loss and ALAE:	\$161,437 19,764 \$181,201 \$997,983 70,652 \$1,068,635 \$1,159,420 90,416 \$1,249,836	\$171,875 21,042 \$192,917 \$1,062,508 75,220 \$1,137,728 \$1,234,383 96,262 \$1,330,645	\$184,261 22,558 \$206,819 \$1,139,077 80,641 \$1,219,718 \$1,323,338 103,199 \$1,426,537	\$199,709 24,450 \$224,159 \$1,234,574 87,401 \$1,321,975 \$1,434,283 111,851 \$1,546,134	\$220,445 26,988 \$247,433 \$1,362,763 96,477 \$1,459,240 \$1,583,208 123,465 \$1,706,673
Curre  Non-  Total  Liabilities as of Curre	Short-Current (Long Term)  Long- Liability  of 6/30/21: ent (Short Term)  Short-	ULAE: _ Term Loss and ALAE:	\$161,437 19,764 \$181,201 \$997,983 70,652 \$1,068,635 \$1,159,420 90,416 \$1,249,836 \$15,086 \$140,960	\$171,875 21,042 \$192,917 \$1,062,508 75,220 \$1,137,728 \$1,234,383 96,262 \$1,330,645 \$134,012 16,061 \$150,073	\$184,261 22,558 \$206,819 \$1,139,077 80,641 \$1,219,718 \$1,323,338 103,199 \$1,426,537 \$143,670 17,219 \$160,889	\$199,709 24,450 \$224,159 \$1,234,574 87,401 \$1,321,975 \$1,434,283 111,851 \$1,546,134 \$155,715 18,662 \$174,377	\$220,445 26,988 \$247,433 \$1,362,763 96,477 \$1,459,240 \$1,583,208 123,465 \$1,706,673 \$171,883 20,600 \$192,483
Curre  Non-  Total  Liabilities as of Curre	ent (Short Term) Short- Current (Long Term) Long- I Liability of 6/30/21: ent (Short Term)	ULAE: _ Term Loss and ALAE:	\$161,437 19,764 \$181,201 \$997,983 70,652 \$1,068,635 \$1,159,420 90,416 \$1,249,836 \$125,874 15,086 \$140,960 \$899,639	\$171,875 21,042 \$192,917 \$1,062,508 75,220 \$1,137,728 \$1,234,383 96,262 \$1,330,645 \$134,012 16,061 \$150,073 \$957,806	\$184,261 22,558 \$206,819 \$1,139,077 80,641 \$1,219,718 \$1,323,338 103,199 \$1,426,537 \$143,670 17,219 \$160,889 \$1,026,829	\$199,709 24,450 \$224,159 \$1,234,574 87,401 \$1,321,975 \$1,434,283 111,851 \$1,546,134 \$155,715 18,662 \$174,377 \$1,112,915	\$220,445 26,988 \$247,433 \$1,362,763 96,477 \$1,459,240 \$1,583,208 123,465 \$1,706,673 \$171,883 20,600 \$192,483 \$1,228,473
Curre  Non-  Total  Liabilities as of Curre	Short- Current (Long Term)  Long- I Liability  of 6/30/21: ent (Short Term)  Short- Current (Long Term)	ULAE: _ Term Loss and ALAE:	\$161,437 19,764 \$181,201 \$997,983 70,652 \$1,068,635 \$1,159,420 90,416 \$1,249,836 \$1,249,836 \$140,960 \$899,639 58,581	\$171,875 21,042 \$192,917 \$1,062,508 75,220 \$1,137,728 \$1,234,383 96,262 \$1,330,645 \$134,012 16,061 \$150,073 \$957,806 62,369	\$184,261 22,558 \$206,819 \$1,139,077 80,641 \$1,219,718 \$1,323,338 103,199 \$1,426,537 \$143,670 17,219 \$160,889 \$1,026,829 66,863	\$199,709 24,450 \$224,159 \$1,234,574 87,401 \$1,321,975 \$1,434,283 111,851 \$1,546,134  \$155,715 18,662 \$174,377 \$1,112,915 72,470	\$220,445 26,988 \$247,433 \$1,362,763 96,477 \$1,459,240 \$1,583,208 123,465 \$1,706,673 \$171,883 20,600 \$192,483 \$1,228,473 79,993
Curre  Non-  Total  Liabilities as of Curre	Short- Current (Long Term)  Long- I Liability  of 6/30/21: ent (Short Term)  Short- Current (Long Term)	ULAE: _ Term Loss and ALAE:	\$161,437 19,764 \$181,201 \$997,983 70,652 \$1,068,635 \$1,159,420 90,416 \$1,249,836 \$125,874 15,086 \$140,960 \$899,639	\$171,875 21,042 \$192,917 \$1,062,508 75,220 \$1,137,728 \$1,234,383 96,262 \$1,330,645 \$134,012 16,061 \$150,073 \$957,806	\$184,261 22,558 \$206,819 \$1,139,077 80,641 \$1,219,718 \$1,323,338 103,199 \$1,426,537 \$143,670 17,219 \$160,889 \$1,026,829	\$199,709 24,450 \$224,159 \$1,234,574 87,401 \$1,321,975 \$1,434,283 111,851 \$1,546,134 \$155,715 18,662 \$174,377 \$1,112,915	\$220,445 26,988 \$247,433 \$1,362,763 96,477 \$1,459,240 \$1,583,208 123,465 \$1,706,673 \$171,883 20,600 \$192,483 \$1,228,473
Curre  Non-  Total  Liabilities as o  Curre	Short- Current (Long Term)  Long- Liability  of 6/30/21: ent (Short Term)  Short- Current (Long Term)  Long-	ULAE: _ Term Loss and ALAE:	\$161,437 19,764 \$181,201 \$997,983 70,652 \$1,068,635 \$1,159,420 90,416 \$1,249,836 \$1,249,836 \$140,960 \$899,639 58,581 \$958,220	\$171,875 21,042 \$192,917 \$1,062,508 75,220 \$1,137,728 \$1,234,383 96,262 \$1,330,645 \$134,012 16,061 \$150,073 \$957,806 62,369 \$1,020,175	\$184,261 22,558 \$206,819 \$1,139,077 80,641 \$1,219,718 \$1,323,338 103,199 \$1,426,537 \$143,670 17,219 \$160,889 \$1,026,829 66,863 \$1,093,692	\$199,709 24,450 \$224,159 \$1,234,574 87,401 \$1,321,975 \$1,434,283 111,851 \$1,546,134  \$155,715 18,662 \$174,377 \$1,112,915 72,470 \$1,185,385	\$220,445 26,988 \$247,433 \$1,362,763 96,477 \$1,459,240 \$1,583,208 123,465 \$1,706,673 \$171,883 20,600 \$192,483 \$1,228,473 79,993 \$1,308,466
Curre  Non-  Total  Liabilities as o  Curre	Short- Current (Long Term)  Long- I Liability  of 6/30/21: ent (Short Term)  Short- Current (Long Term)	ULAE: _ Term Loss and ALAE:	\$161,437 19,764 \$181,201 \$997,983 70,652 \$1,068,635 \$1,159,420 90,416 \$1,249,836 \$1,249,836 \$140,960 \$899,639 58,581 \$958,220 \$1,025,513	\$171,875 21,042 \$192,917 \$1,062,508 75,220 \$1,137,728 \$1,234,383 96,262 \$1,330,645 \$134,012 16,061 \$150,073 \$957,806 62,369 \$1,020,175 \$1,091,818	\$184,261 22,558 \$206,819 \$1,139,077 80,641 \$1,219,718 \$1,323,338 103,199 \$1,426,537 \$143,670 17,219 \$160,889 \$1,026,829 66,863 \$1,093,692 \$1,170,499	\$199,709 24,450 \$224,159 \$1,234,574 87,401 \$1,321,975 \$1,434,283 111,851 \$1,546,134  \$155,715 18,662 \$174,377 \$1,112,915 72,470 \$1,185,385 \$1,268,630	\$220,445 26,988 \$247,433 \$1,362,763 96,477 \$1,459,240 \$1,583,208 123,465 \$1,706,673 \$171,883 20,600 \$192,483 \$1,228,473 79,993 \$1,308,466 \$1,400,356
Curre  Non-  Total  Liabilities as o  Curre	ent (Short Term) Short- Current (Long Term) Long- Liability  of 6/30/21: ent (Short Term) Short- Current (Long Term) Long-	ULAE: _ Term Loss and ALAE:	\$161,437 19,764 \$181,201 \$997,983 70,652 \$1,068,635 \$1,159,420 90,416 \$1,249,836 \$1,249,836 \$140,960 \$899,639 58,581 \$958,220	\$171,875 21,042 \$192,917 \$1,062,508 75,220 \$1,137,728 \$1,234,383 96,262 \$1,330,645 \$134,012 16,061 \$150,073 \$957,806 62,369 \$1,020,175	\$184,261 22,558 \$206,819 \$1,139,077 80,641 \$1,219,718 \$1,323,338 103,199 \$1,426,537 \$143,670 17,219 \$160,889 \$1,026,829 66,863 \$1,093,692	\$199,709 24,450 \$224,159 \$1,234,574 87,401 \$1,321,975 \$1,434,283 111,851 \$1,546,134  \$155,715 18,662 \$174,377 \$1,112,915 72,470 \$1,185,385	\$220,445 26,988 \$247,433 \$1,362,763 96,477 \$1,459,240 \$1,583,208 123,465 \$1,706,673 \$171,883 20,600 \$192,483 \$1,228,473 79,993 \$1,308,466

Note: Current (short term) liabilities are the portion of the total estimated liability shown on Appendix G that is expected to be paid out within the coming year. Totals may vary from Exhibit 1, due to rounding.

### Discount Factors to be Applied to Overall Reserves

Accident Year	Full Value of Reserve at 6/30/20 (A)	Discount Factor (B)	Discounted Reserve at 6/30/20 (C)	Full Value of Reserve at 6/30/21 (D)	Discount Factor (E)	Discounted Reserve at 6/30/21 (F)
Prior	\$136,710	0.988	\$135,033	\$116,750	1.000	\$116,750
2000-2001	30,338	0.966	29,304	24,028	0.988	23,733
2001-2002	20,283	0.946	19,195	17,383	0.966	16,790
2002-2003	17,509	0.928	16,254	12,116	0.946	11,466
2003-2004	0	0.911	0	0	0.928	0
2004-2005	51,688	0.895	46,275	47,450	0.911	43,251
2005-2006	11,610	0.881	10,234	10,553	0.895	9,448
2006-2007	0	0.868	0	0	0.881	0
2007-2008	0	0.857	0	0	0.868	0
2008-2009	187,264	0.847	158,611	170,036	0.857	145,657
2009-2010	105,925	0.839	88,919	95,650	0.847	81,015
2010-2011	147,990	0.832	123,195	134,079	0.839	112,553
2011-2012	156,198	0.827	129,135	140,578	0.832	117,024
2012-2013	115,186	0.827	95,239	100,442	0.827	83,039
2013-2014	178,433	0.830	148,106	149,170	0.827	123,337
2014-2015	0	0.830	0	0	0.830	0
2015-2016	0	0.829	0	0	0.830	0
2016-2017	0	0.825	0	0	0.829	0
2017-2018	0	0.822	0	0	0.825	0
2018-2019	0	0.824	0	0	0.822	0
2019-2020	0	0.832	0	0	0.824	0
2020-2021	0	-	-	0	0.832	0
Totals	\$1,159,134		\$999,500	\$1,018,235		\$884,063

(G) Discount Factor at 6/30/20 for Overall Reserve:

0.862

(H) Discount Factor at 6/30/21 for Overall Reserve:

0.868

### Notes:

- (A) From Appendix G, Outstanding Liability at 6/30/20.
- (B) Based on Appendix I, Page 2, Column (E).
- (C) (A) x (B).
- (D) From Appendix G, Outstanding Liability at 6/30/21.
- (E) Based on Appendix I, Page 2, Column (E).
- (F) (D) x (E).
- (G) Total of (C) / Total of (A).
- (H) Total of (F) / Total of (D).

This exhibit shows the expected impact of anticipated investment income on the liability for outstanding claims at the date of evaluation and the end of the current fiscal year. For example, if the discount factor in item (G) is 0.862, the discounted liability for outstanding claims is 86.2% of the full value.

### Calculation of Discount Factors

Payment	Payment	Return on	Discounted	Undiscounted	Discount
Year	Pattern	Investment	Reserves	Reserves	Factor
(A)	(B)	(C)	(D)	(E)	(F)
22	12.9%	2.5%	0.127	0.129	0.988
21	1.3%	2.5%	0.138	0.142	0.966
20	1.4%	2.5%	0.148	0.156	0.946
19	1.3%	2.5%	0.157	0.169	0.928
18	1.3%	2.5%	0.166	0.182	0.911
17	1.2%	2.5%	0.174	0.194	0.895
16	1.5%	2.5%	0.184	0.209	0.881
15	1.4%	2.5%	0.194	0.223	0.868
14	1.7%	2.5%	0.205	0.240	0.857
13	1.9%	2.5%	0.219	0.259	0.847
12	2.3%	2.5%	0.236	0.282	0.839
11	2.4%	2.5%	0.255	0.306	0.832
10	2.8%	2.5%	0.276	0.334	0.827
9	4.2%	2.5%	0.311	0.376	0.827
8	5.6%	2.5%	0.358	0.431	0.830
7	5.4%	2.5%	0.403	0.485	0.830
6	6.0%	2.5%	0.452	0.545	0.829
5	5.4%	2.5%	0.494	0.599	0.825
4	6.2%	2.5%	0.543	0.661	0.822
3	8.8%	2.5%	0.617	0.749	0.824
2	13.6%	2.5%	0.736	0.885	0.832
1	11.5%	2.5%	0.832	1.000	0.832
		(G) Discount Factor	for Future Funding:	2020-2021	0.842
			-	2021-2022	0.842

### Notes:

- (A) This is the year of payment relative to the accident year. For example, year 7 refers to payments made in the seventh year after the inception of the accident year. We assume that payments are made at midyear.
- (B) Percent of ultimate loss paid this year. This payment pattern is based on the paid loss development pattern selected in Appendix B, Page 2.
- (C) Assumed Investment Income Rates.
- (D) Discounted Reserves at the beginning of this year is next year's Discounted Reserves discounted one year plus this year's payments discounted six months. For example, in year 2, 73.6% = [61.7% / 1.025] + [13.6% / (1.012)].
- (E) Summation of future (B) values. This is the percent of ultimate loss unpaid at the beginning of the year.
- (F) (D) / (E).
- (G) (F) at year 1, with interest accumulated for six months. We assume that the required funding is deposited at the middle of the first year.

This exhibit shows the calculation of the effect of anticipated investment income on future claims costs. Thus, if the discount factor in item (F) is 0.84, on a discounted basis, \$0.84 must be budgeted for every \$1 that will actually be paid on claims that will be incurred in the next fiscal year.

### Confidence Level Table

Probability	Projected Losses	Outstanding Losses
95%	3.341	1.832
90%	2.339	1.584
85%	1.828	1.435
80%	1.495	1.324
75%	1.253	1.235
70%	1.065	1.160
65%	0.912	1.093
60%	0.785	1.033
55%	0.675	0.978
50%	0.580	0.926
45%	0.496	0.876
40%	0.421	0.828
35%	0.353	0.780
30%	0.291	0.732
25%	0.234	0.682

To read table: For the above retention, there is a 90% chance

that final loss settlements will be less than

2.339 times the average expected amount of losses.

This exhibit shows the loads that must be applied to bring estimated losses at the expected level to the various indicated confidence levels.

### Program History

Policy	Policy		Self-Insured	Retention
Year	Year	Policy	Per	
Start Date	End Date	Year	Occurrence	Aggregate
7/1/1987	6/30/2000	Prior	\$275,000	(none)
7/1/2000	6/30/2001	2000-2001	275,000	(none)
7/1/2001	6/30/2002	2001-2002	300,000	(none)
7/1/2002	6/30/2003	2002-2003	1,000,000	(none)
7/1/2003	6/30/2004	2003-2004	1,000,000	(none)
7/1/2004	6/30/2005	2004-2005	1,000,000	(none)
7/1/2005	6/30/2006	2005-2006	1,000,000	(none)
7/1/2006	6/30/2007	2006-2007	1,000,000	(none)
7/1/2007	6/30/2008	2007-2008	1,000,000	(none)
7/1/2008	6/30/2009	2008-2009	1,000,000	(none)
7/1/2009	6/30/2010	2009-2010	1,000,000	(none)
7/1/2010	6/30/2011	2010-2011	1,000,000	(none)
7/1/2011	6/30/2012	2011-2012	1,000,000	(none)
7/1/2012	6/30/2013	2012-2013	1,000,000	(none)
7/1/2013	6/30/2014	2013-2014	1,250,000	(none)

Third Party		
Claims	Begin	End
Administrator	Date	Date
Athens	7/1/1987	Current

This exhibit summarizes some of the key facts about the history of the program.

### Incurred Losses as of 6/30/20

Accident Year (A)	Unlimited Incurred (B)	Additions to Losses (C)	Subtractions from Losses (D)	Adjusted Incurred (E)	Incurred Over SIR (F)	Incurred Over \$100,000 (G)	Incurred Capped at \$100,000 (H)	Incurred \$100,000 to SIR Layer	Incurred Capped at SIR (J)	Incurred Capped at SIR & Aggregate (K)
(A)	(B)	(0)	(D)	(L)	(1)	(G)	(11)	(1)	(3)	(14)
Prior	\$4,755,436	\$0	\$20,361	\$4,735,074	\$0	\$886,121	\$3,848,954	\$886,121	\$4,735,074	\$4,735,074
2000-2001	585,910	0	0	585,910	5,667	225,797	360,113	220,129	580,243	580,243
2001-2002	1,124,402	0	694	1,123,707	46,495	529,782	593,926	483,287	1,077,213	1,077,213
2002-2003	177,091	0	0	177,091	0	0	177,091	0	177,091	177,091
2003-2004	2,004,301	0	0	2,004,301	0	1,569,106	435,196	1,569,106	2,004,301	2,004,301
2004-2005	198,932	0	0	198,932	0	0	198,932	0	198,932	198,932
2005-2006	257,533	0	0	257,533	0	0	257,533	0	257,533	257,533
2006-2007	493,327	0	0	493,327	0	222,562	270,765	222,562	493,327	493,327
2007-2008	92,328	0	0	92,328	0	0	92,328	0	92,328	92,328
2008-2009	600,083	0	0	600,083	0	171,245	428,838	171,245	600,083	600,083
2009-2010	625,676	0	0	625,676	0	195,778	429,898	195,778	625,676	625,676
2010-2011	553,098	0	0	553,098	0	202,417	350,681	202,417	553,098	553,098
2011-2012	597,046	0	0	597,046	0	207,821	389,225	207,821	597,046	597,046
2012-2013	250,917	0	0	250,917	0	44,578	206,339	44,578	250,917	250,917
2013-2014	415,567	0	0	415,567	0	45,881	369,686	45,881	415,567	415,567
Total	\$12,731,648	\$0	\$21,055	\$12,710,592	\$52,162	\$4,301,087	\$8,409,505	\$4,248,925	\$12,658,430	\$12,658,430

- (A) Years are 7/1 to 6/30.
- (B) Provided by the District.
- (C)
- (D) Recoveries.
- (E) (B) + (C) (D).
- (F) Sum of incurred losses in excess of SIR.
- (G) Sum of incurred losses in excess of \$100,000.
- (H) (E) (G).
- (I) (G) (F).
- (J) (E) (F).
- (K) Minimum of (J) and the aggregate stop loss. See Appendix K.

### Paid Losses as of 6/30/20

										Paid
		Additions	Subtractions			Paid	Paid	Paid	Paid	Capped at
Accident	Unlimited	to	from	Adjusted	Paid	Over	Capped at	\$100,000	Capped at	SIR &
Year	Paid	Losses	Losses	Paid	Over SIR	\$100,000	\$100,000	to SIR Layer	SIR	Aggregate
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(1)	(J)	(K)
Prior	\$4,684,651	\$0	\$20,361	\$4,664,290	\$0	\$867,882	\$3,796,407	\$867,882	\$4,664,290	\$4,664,290
2000-2001	559,329	0	0	559,329	5,667	225,797	333,532	220,129	553,662	553,662
2001-2002	1,060,411	0	694	1,059,717	0	465,791	593,926	465,791	1,059,717	1,059,717
2002-2003	162,491	0	0	162,491	0	0	162,491	0	162,491	162,491
2003-2004	2,004,301	0	0	2,004,301	0	1,569,106	435,196	1,569,106	2,004,301	2,004,301
2004-2005	159,312	0	0	159,312	0	0	159,312	0	159,312	159,312
2005-2006	249,390	0	0	249,390	0	0	249,390	0	249,390	249,390
2006-2007	493,327	0	0	493,327	0	222,562	270,765	222,562	493,327	493,327
2007-2008	92,328	0	0	92,328	0	0	92,328	0	92,328	92,328
2008-2009	468,736	0	0	468,736	0	53,224	415,512	53,224	468,736	468,736
2009-2010	592,075	0	0	592,075	0	176,157	415,918	176,157	592,075	592,075
2010-2011	484,010	0	0	484,010	0	174,528	309,482	174,528	484,010	484,010
2011-2012	543,802	0	0	543,802	0	166,387	377,415	166,387	543,802	543,802
2012-2013	208,814	0	0	208,814	0	19,501	189,313	19,501	208,814	208,814
2013-2014	415,567	0	0	415,567	0	45,881	369,686	45,881	415,567	415,567
Total	\$12,178,546	\$0	\$21,055	\$12,157,490	\$5,667	\$3,986,815	\$8,170,675	\$3,981,148	\$12,151,823	\$12,151,823

- (A) Years are 7/1 to 6/30.
- (B) Provided by the District.
- (C)
- (D) Recoveries.
- (E) (B) + (C) (D).
- (F) Sum of paid losses in excess of SIR.
- (G) Sum of paid losses in excess of \$100,000.
- (H) (E) (G).
- (I) (G) (F).
- (J) (E) (F).
- (K) Minimum of (J) and the aggregate stop loss. See Appendix K.

### Case Reserves as of 6/30/20

										Reserves
		Additions	Subtractions			Reserves	Reserves	Reserves	Reserves	Capped at
Accident	Unlimited	to	from	Adjusted	Reserves	Over	Capped at	\$100,000	Capped at	SIR &
Year	Reserves	Losses	Losses	Reserves	Over SIR	\$100,000	\$100,000	to SIR Layer	SIR	Aggregate
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
Prior	\$70,784	\$0	\$0	\$70,784	\$0	\$18,238	\$52,546	\$18,238	\$70,784	\$70,784
2000-2001	26,581	0	0	26,581	0	0	26,581	0	26,581	26,581
2001-2002	63,991	0	0	63,991	46,495	63,991	0	17,496	17,496	17,496
2002-2003	14,599	0	0	14,599	0	0	14,599	0	14,599	14,599
2003-2004	0	0	0	0	0	0	0	0	0	0
2004-2005	39,620	0	0	39,620	0	0	39,620	0	39,620	39,620
2005-2006	8,143	0	0	8,143	0	0	8,143	0	8,143	8,143
2006-2007	0	0	0	0	0	0	0	0	0	0
2007-2008	0	0	0	0	0	0	0	0	0	0
2008-2009	131,347	0	0	131,347	0	118,021	13,326	118,021	131,347	131,347
2009-2010	33,602	0	0	33,602	0	19,622	13,980	19,622	33,602	33,602
2010-2011	69,088	0	0	69,088	0	27,889	41,199	27,889	69,088	69,088
2011-2012	53,244	0	0	53,244	0	41,434	11,810	41,434	53,244	53,244
2012-2013	42,103	0	0	42,103	0	25,077	17,026	25,077	42,103	42,103
2013-2014	0	0	0	0	0	0	0	0	0	0
Total	\$553,102	\$0	\$0	\$553,102	\$46,495	\$314,272	\$238,829	\$267,777	\$506,607	\$506,607

- (A) Years are 7/1 to 6/30.
- (B) Appendix L, Page 1, Column (B) Appendix L, Page 2, Column (B).
  (C) Appendix L, Page 1, Column (C) Appendix L, Page 2, Column (C).
- (D) Appendix L, Page 1, Column (D) Appendix L, Page 2, Column (D). (E) (B) + (C) (D).
- (F) Sum of case reserves in excess of SIR.
- (G) Sum of case reserves in excess of \$100,000.
- (H) (E) (G).
- (I) (G) (F).
- (J) (E) (F).
- (K) Minimum of (J) and the aggregate stop loss. See Appendix K.

### Claim Counts as of 6/30/20

Accident Year (A)	Reported Claims (B)	Additions to Reported Claims (C)	Subtractions from Reported Claims (D)	Adjusted Reported Claims (E)	Closed Claims (F)	Additions to Closed Claims (G)	Subtractions from Closed Claims (H)	Adjusted Closed Claims (I)	Open Claims (J)	Adjusted Open Claims (K)
Prior	431	0	33	398	424	0	33	391	7	7
2000-2001	28	0	2	26	27	0	2	25	1	1
2001-2002	25	0	1	24	24	0	1	23	1	1
2002-2003	30	0	0	30	29	0	0	29	1	1
2003-2004	35	0	4	31	35	0	4	31	0	0
2004-2005	25	0	5	20	24	0	5	19	1	1
2005-2006	29	0	2	27	28	0	2	26	1	1
2006-2007	25	0	2	23	25	0	2	23	0	0
2007-2008	20	0	2	18	20	0	2	18	0	0
2008-2009	24	0	1	23	22	0	1	21	2	2
2009-2010	27	0	1	26	25	0	1	24	2	2
2010-2011	25	0	6	19	22	0	6	16	3	3
2011-2012	24	0	5	19	22	0	5	17	2	2
2012-2013	24	0	1	23	22	0	1	21	2	2
2013-2014	34	0	4	30	34	0	4	30	0	0
Total	806	0	69	737	783	0	69	714	23	23

- (A) Years are 7/1 to 6/30.(B) Provided by the District.
- (C)
- (D) Closed claims with no payment(E) (B) + (C) (D).
- (F) Provided by the District.
- (G)
- (H) Closed claims with no payment
- (I) (F) + (G) (H). (J) (B) (F). (K) (E) (I).

### Exposure Measures

Accident Year	Total Payroll (\$00) (A)	Inflation Trend Factor (B)	Trended Payroll (\$00) (C)
2006-2007	97,871	1.413	138,292
2007-2008	118,242	1.379	163,056
2008-2009	126,628	1.345	170,315
2009-2010	114,621	1.312	150,383
2010-2011	100,374	1.280	128,479
2011-2012	103,342	1.249	129,074
2012-2013	104,205	1.219	127,026
2013-2014	106,615	1.189	126,765

- Provided by the District. Based on WCIRB. (A)
- (B) (C)
- (A) x (B).