

Kensington Fire Protection District OPEB Plan

**Governmental Accounting Standards Board
(GASB) Statement 75**

Actuarial Valuation Date: June 30, 2017

Measurement Date: June 30, 2018

Fiscal Year End: June 30, 2019

REVISED

October 14, 2019

October 14, 2019

OPEB CONSULTANTS AND ACTUARIES
530 BUSH STREET, SUITE 500
SAN FRANCISCO, CALIFORNIA 94108-3633
TEL: 415-512-5300
FAX: 415-512-5314

Ms. Brenda Navellier
Administrator
Kensington Fire Protection District
217 Arlington Avenue
Kensington, CA 94707

Re: Kensington Fire Protection District GASB 75 Report for FYE June 30, 2019

Dear Ms. Navellier,

Kensington Fire Protection District (the "District") has retained Nicolay Consulting Group to complete this valuation of the District's postemployment medical program (the "Plan") as of June 30, 2018 measurement date compliant under Governmental Accounting Standards Board (GASB) Statement 75. *This report has been revised to change the treatment of the implicit subsidy.*

The purpose of this valuation is to determine the value of the expected postretirement benefits for current and future retirees and the Net OPEB Liability and OPEB Benefit Cost for the fiscal year ending June 30, 2019. The amounts reported herein are not necessarily appropriate for use for a different fiscal year without adjustment.

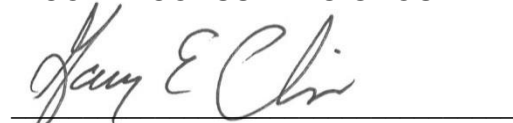
Based on the foregoing, the cost results and actuarial exhibits presented in this report were determined on a consistent and objective basis in accordance with applicable Actuarial Standards of Practice and generally accepted actuarial procedures. We believe they fully and fairly disclose the actuarial position of the Plan based on the plan provisions, employee and plan cost data submitted.

The actuarial calculations were completed under the supervision of Gary Cline, ASA, MAAA, FCA, Enrolled Actuary. A member of the American Academy of Actuaries whom meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein. To the best of our knowledge, the information supplied in the actuarial valuation is complete and accurate. In our opinion, assumptions as approved by the plan sponsor are reasonably related to the experience of and expectations for the Plan.

We would be pleased to answer any questions on the material contained in this report or to provide explanation or further detail as may be appropriate.

Respectfully submitted,

NICOLAY CONSULTING GROUP



Gary E. Cline, ASA, MAAA, FCA, EA
Vice President & Chief Operating Officer

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Section I Management Summary

A) Highlights

Summary of Key Valuation Results

	2018	2017
Disclosure elements as of measurement period ending June 30:		
<u>Present Value of Future Benefits:</u>		
Active	\$0	\$0
Retiree	1,267,624	1,304,608
Total	\$1,267,624	\$1,304,608
<u>Actuarial Accrued Liability or Total OPEB Liability (TOL)</u>		
Active	\$0	\$0
Retiree	1,267,624	1,304,608
Total	\$1,267,624	\$1,304,608
Plan Fiduciary Net Position (i.e Fair Value of Assets)	1,463,483	1,479,475
Net OPEB Liability (NOL)	(\$195,859)	(\$174,867)
Plan Fiduciary Net Position as a percentage of the TOL	115%	113%
Aggregate OPEB Expense (Exhibit 4)	(\$27,875)	(\$225,409)
Covered Payroll	N/A	N/A
Schedule of contributions for measurement period ending June 30:		
Actuarially determined contributions (Exhibit 7)	\$0	\$0
Actual contributions ⁽¹⁾	0	0
Contribution deficiency/(excess)	\$0	\$0
Employer's Share of Benefit Payments	\$124,849	\$105,986
Demographic data for measurement period ending June 30⁽²⁾:		
Number of active members	0	0
Number of retired members and beneficiaries	10	10
Total Participants	10	10
Key assumptions as of the Measurement Date:		
Discount rate	6.73%	6.73%
<u>Initial Trend Rate</u>		
Pre-65	8.00%	8.00%
Post-65	5.50%	5.50%
Ultimate Rate	5.00%	5.00%
Year Ultimate Rate is Reached	2031	2031

(1) Includes payments to trust and amounts paid directly by the plan sponsor

(2) Census data as of June 30, 2017 is used in the measurement of the TOL as of June 30, 2018. See Section III for additional details on the demographic data.

Section I Management Summary

B) Gap Analysis

The Total OPEB Liability has decreased \$36,984 from \$1,304,608 as of June 30, 2017 to \$1,267,624 as of June 30, 2018. This decrease is primarily due to expected benefits earned and interest on the total OPEB liability, offset by the expected benefit payments during the year.

Interim Valuation

This report presents liabilities as of the measurement date that are based on an interim valuation.

GASB 75 allows plan sponsors to perform valuations biennially, meaning the results for a valuation can be rolled forward to up to two GASB 75 measurement dates. The valuation date can precede a GASB 75 measurement date as long as the results would not be materially different had an updated census been collected as of the measurement date. Therefore, if the District has had a significant shift in participant demographics between the valuation date and a GASB 75 measurement date, an updated census must be collected and a full valuation performed.

When a full valuation is performed the inputs to the valuation (participant census, plan provisions, assets, and actuarial assumptions and methods) are reviewed and updated.

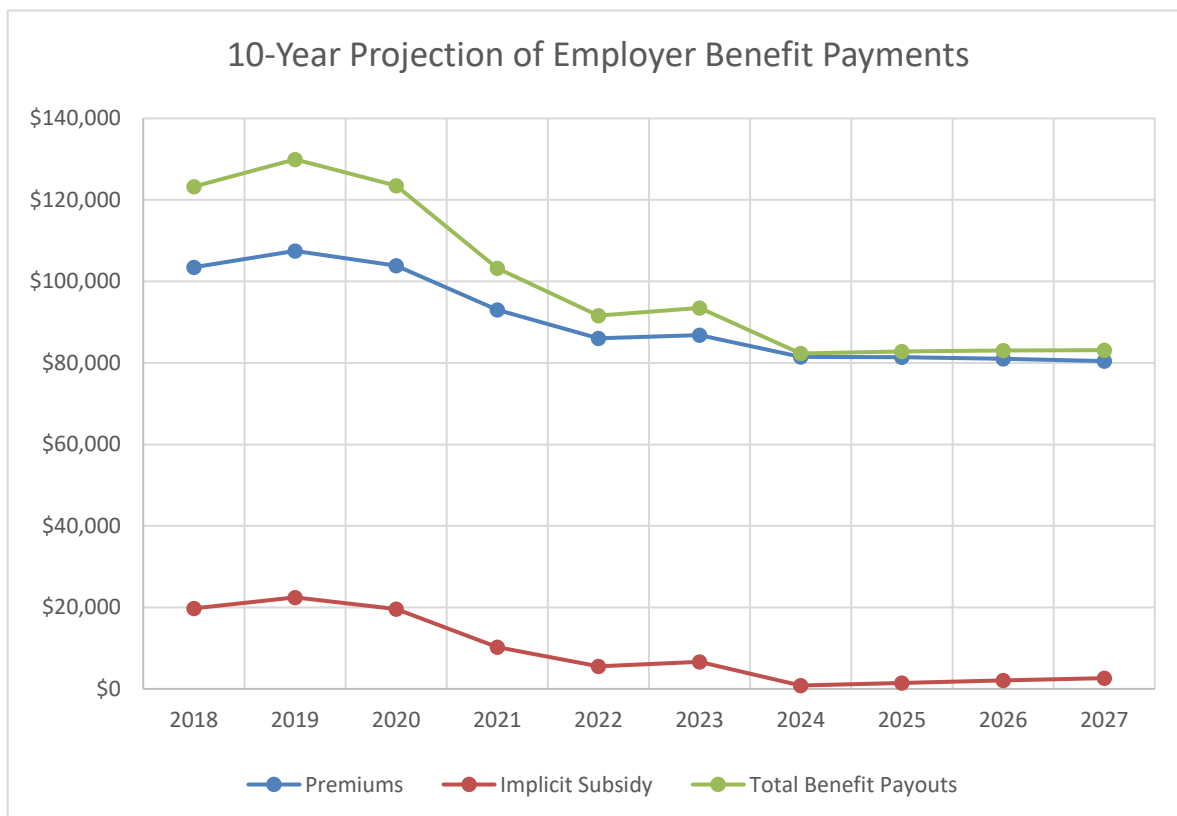
When an interim valuation is performed, both the census data and the assumptions and methods do not need to be updated. What does need to be updated in an interim valuation are assets, plan provision changes materially impacting the results, and the discount rate to the extent that it is based on a yield or index rate for a 20-year, tax exempt general obligation municipal bonds with an average rating of AA/Aa or higher.

Section I Management Summary

C) 10-Year Projection of Employer's Benefit Payments

In this table we show the projected pay-as-you-go costs (employer's share of premiums), the implicit subsidy, and total expected benefit payments. The implicit subsidy reflects the shortfall of premiums versus the true cost of coverage. The shortfall exists because claims for active employees are combined with claims of retirees (who generally are older and cost more) to develop a single flat premium paid by both groups.

Plan Year Beginning 7/1	Premiums	Implicit Subsidy	Total
2018	\$103,503	\$19,788	\$123,291
2019	\$107,486	\$22,465	\$129,951
2020	\$103,899	\$19,572	\$123,471
2021	\$92,989	\$10,279	\$103,268
2022	\$86,035	\$5,566	\$91,601
2023	\$86,820	\$6,678	\$93,498
2024	\$81,476	\$837	\$82,313
2025	\$81,369	\$1,472	\$82,841
2026	\$81,023	\$2,056	\$83,079
2027	\$80,450	\$2,678	\$83,128



Section I Management Summary

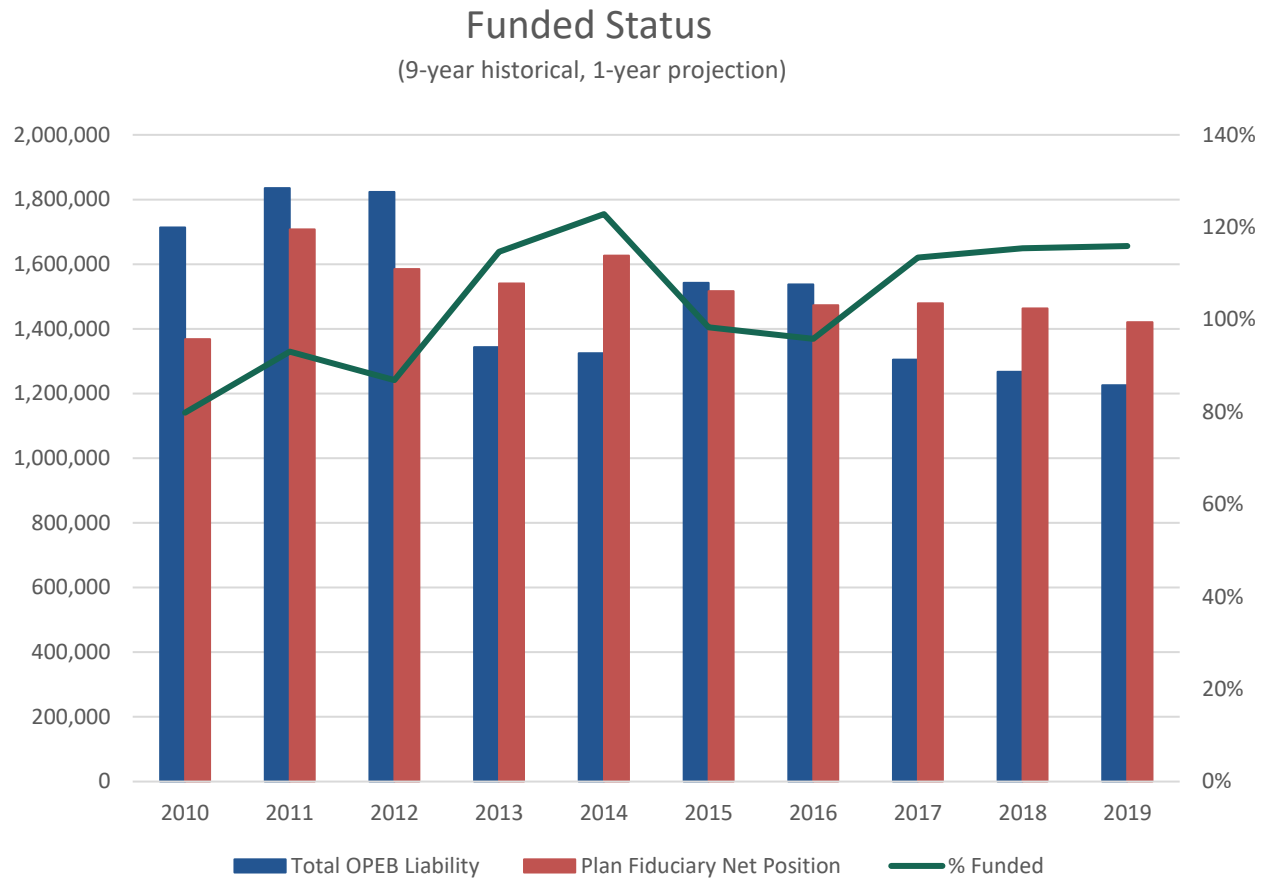
D) Breakdown of Explicit and Implicit Liabilities

	Explicit	Implicit	Total
Present Value of Future Benefits			
Actives	\$0	\$0	\$0
Retirees	<u>1,140,742</u>	<u>126,882</u>	<u>1,267,624</u>
Total	\$1,140,742	\$126,882	\$1,267,624
Actuarial Accrued Liability			
Actives	\$0	\$0	\$0
Retirees	<u>1,140,742</u>	<u>126,882</u>	<u>1,267,624</u>
Total	\$1,140,742	\$126,882	\$1,267,624
Normal Cost	\$0	\$0	\$0

Section I Management Summary

E) Funding Progress

Below is an illustration of the funded status of the Plan for the past 9 years, and a projection of the next year looking forward:



Section II GASB 75 Exhibits

A) Schedule of Changes in Net OPEB Liability (Exhibit 1)

	2018	2017
<u>Total OPEB Liability</u>		
Service cost	\$0	\$0
Interest	84,260	99,977
Change of benefit terms	0	0
Differences between expected and actual experience	(14,315)	146,389
Changes of assumptions	0	(373,443)
Benefit payments ⁽¹⁾	<u>(106,929)</u>	<u>(105,986)</u>
Net change in Total OPEB Liability	(\$36,984)	(\$233,063)
Total OPEB Liability – beginning (a)	\$1,304,608	\$1,537,671
Total OPEB Liability – ending (b)	\$1,267,624	\$1,304,608
<u>Plan Fiduciary Net Position</u>		
Contributions – employer	\$0	\$0
Contributions – employee	0	0
Net investment income	91,709	78,381
Benefit payments ⁽¹⁾	(106,929)	(105,986)
Administrative expense	(772)	(739)
Other	<u>0</u>	<u>0</u>
Net change in Plan Fiduciary Net Position	(\$15,992)	\$6,140
Plan Fiduciary Net Position – beginning (c)	\$1,479,475	\$1,473,335
Plan Fiduciary Net Position – ending (d)	\$1,463,483	\$1,479,475
Net OPEB Liability - beginning (a) – (c)	(\$174,867)	\$64,336
Net OPEB Liability – ending (b) – (d)	(\$195,859)	(\$174,867)
Plan Fiduciary Net Position as a percentage of the TOL	115%	113%
Covered employee payroll⁽²⁾	N/A	N/A
NOL as percentage of covered employee payroll⁽²⁾	N/A	N/A

¹ including refunds of employee contributions

² Covered payroll not available

Section II GASB 75 Exhibits

B) Summary of Changes in Net OPEB Liability (Exhibit 2)

	Total OPEB Liability (a)	Plan Fiduciary Net Position (b)	Net OPEB Liability (a)-(b)
Measurement as of June 30, 2017:	\$1,304,608	\$1,479,475	(\$174,867)
Recognized Changes Resulting from:			
▪ Service cost	-	-	-
▪ Interest	84,260	-	84,260
▪ Diff. between expected and actual experience	(14,315)	-	(14,315)
▪ Changes of assumptions	-	-	-
▪ Net investment income	-	91,709	(91,709)
▪ Benefit payments ⁽¹⁾	(106,929)	(106,929)	-
▪ Contributions – employer	-	-	-
▪ Contributions – employee	-	-	-
▪ Administrative expense	-	(772)	772
▪ Change of benefit terms	-	-	-
Net Changes	(\$36,984)	(\$15,992)	(\$20,992)
Measurement as of June 30, 2018:	\$1,267,624	\$1,463,483	(\$195,859)

¹ including refunds of employee contributions

Section II GASB 75 Exhibits

C) Derivation of Significant Actuarial Assumptions

Long-term Expected Rate of Return – As of June 30, 2018, the long-term expected rates of return for each major investment class in the Plan’s portfolio are as follows:

Investment Class	Target Allocation	Long-Term Expected Real Rate of Return ¹
Equity	43.00%	5.43%
Fixed Income	49.00%	1.63%
REITs	8.00%	5.06%

¹JPMorgan arithmetic Long Term Capital Market assumptions and expected inflation of 2.26%.

The above table shows the target asset allocation in the CERBT Strategy 2 investment policy.

Discount rate – The discount rate is based on a blend of the long-term expected rate of return on assets for benefits covered by plan assets and a yield or index for 20-year, tax-exempt general obligation municipal bonds with an average rating of AA/Aa or better for benefits not covered by plan assets.

Above are the arithmetic long-term expected real rates of return by asset class for the next 10 years as provided in a report by JP Morgan. For years thereafter, returns were based on historical average index real returns over the last 30 years assuming a similar equity/fixed investment mix and a 2.26% inflation rate. Investment expenses were assumed to be 10 basis points per year. These returns were matched with cash flows for benefits covered by plan assets and the Bond Buyer 20-Bond General Obligation index was matched with cash flows not covered by plan assets to measure the reasonableness of the choice in discount rate.

	June 30, 2018	June 30, 2017
Discount Rate	6.73%	6.73%
Bond Buyer 20-Bond GO Index	3.87%	3.58%

Section II GASB 75 Exhibits

D) Sensitivity Analysis (Exhibit 3)

Sensitivity of the Net OPEB Liability to changes in the discount rate – The following presents the District’s Net OPEB Liability if it were calculated using a discount rate that is 1% point lower (5.73%) or 1% point higher (7.73%) than the current rate:

Sensitivity of the Net OPEB Liability to changes in the Trend rate – The following presents the District’s Net OPEB Liability if it were calculated using a trend table that has rates that are 1% point lower or 1% point higher than the current set of rates:

Net OPEB Liability as of the June 30, 2018 measurement date: (\$195,859)

Sensitivity Analysis:

	NOL(A)	\$ Change	%Change
Discount Rate			
+1%	(\$300,652)	(\$104,793)	54%
Base	(\$195,859)	-	-
-1%	(\$71,675)	\$124,184	(63%)
Trend Rate			
+1%	(\$76,911)	\$118,948	(61%)
Base	(\$195,859)	-	-
-1%	(\$297,933)	(\$102,074)	52%

Section II GASB 75 Exhibits

E) Schedule of OPEB Expense (Exhibit 4)

Measurement Period Ending:	June 30, 2018	June 30, 2017
Components of OPEB Expense:		
Service Cost	\$0	\$0
Interest on the Total OPEB Liability (Exhibit 5)	84,260	99,977
Projected Earnings on OPEB Plan Investments (Exhibit 6)	(96,003)	(95,623)
Employee Contributions	0	0
Administrative Expense	772	739
Changes on Benefit Terms	0	0
Recognition of Deferred Resources Due to:		
▪ Changes of Assumptions	0	(373,443)
▪ Differences between Expected and Actual Experience	(14,315)	146,389
▪ Differences Between Projected Actual Earnings on Assets	(2,589)	(3,448)
Aggregate OPEB Expense	<u>(\$27,875)</u>	<u>(\$225,409)</u>

Section II GASB 75 Exhibits

F) Interest on the Total OPEB Liability (Exhibit 5)

	Amount for Period a	Portion of Period b	Interest Rate c	Interest on the Total OPEB Liability a*b*c
Beginning Total OPEB Liability	\$1,304,608	100%	6.73%	\$87,800
Service Cost	\$0	100%	6.73%	0
Benefit payments*	(\$106,929)	50%	6.73%	<u>(3,540)</u>
Total Interest on the TOL				\$83,667

* including refunds of employee contribution

Section II GASB 75 Exhibits

G) Earnings on Plan Fiduciary Net Position (Exhibit 6)

Total Projected Earnings	Amount for Period a	Portion of Period b	Projected Rate of Return c	Projected Earnings a*b*c
Beginning Plan Fiduciary Net Position	\$1,479,475	100%	6.73%	\$99,569
Employer Contributions	\$0	50%	6.73%	0
Employee Contributions	\$0	50%	6.73%	0
Benefits payments*	(\$106,929)	50%	6.73%	(3,540)
Administrative Expense and Other	(\$772)	50%	6.73%	(26)
Total Projected Earnings				\$96,003

* including refunds of employee contribution

Comparison of Projected and Actual Earnings On Investments

Total Projected Earnings	\$96,003
Actual Net Investment Income	91,709
Difference Between Projected and Actual Earnings on Assets	\$4,294

Section II GASB 75 Exhibits

H) Schedule of Contributions¹ (Exhibit 7)

Measurement Period Ending:	June 30, 2018	June 30, 2017
Actuarially Determined Contribution ²	\$0	\$0
Contributions to the Trust	\$0	\$0
Pay-go Payments by Employer Unreimbursed by the Trust	0	0
Active Implicit Rate Subsidy Transferred to OPEB	0	0
Total OPEB Contributions ¹	<u>\$0</u>	<u>\$0</u>
Covered-employee payroll ³	N/A	N/A
Contributions as a percentage of covered-employee payroll ³	N/A	N/A

¹ ADC and Contributions are for the measurement period July 1, 2017 to June 30, 2018.

² Employers setting a discount rate based on the assumption that assets will be sufficient to cover all future benefit payments under the plan are assumed to annually make contributions equal to the actuarially determined contribution. Annual contributions made that are substantially less than the ADC would require additional support for use of a discount rate equal to the long-term expected return on trust assets.

³ Covered-Employee Payroll represented above is based on covered-employee payroll provided by the employer. GASB 75 defines covered-employee payroll as the total payroll of employees that are provided benefits through the OPEB plan. Accordingly, if OPEB covered-employee payroll shown above is different than total earnings for covered-employees, the employer should display in the disclosure footnotes the payroll based on total earnings for the covered group and recalculate the required payroll-related ratios.

Section II GASB 75 Exhibits

I) Deferred Inflows/Outflows of Resources (Exhibit 8)

	Deferred Outflows of Resources	Deferred Inflows of Resources
Unrecognized Deferred Resources due to:		
▪ Differences between expected and actual experience	\$0	\$0
▪ Changes in assumptions	0	0
▪ Net difference between projected and actual earnings	0	6,911
Contribution to OPEB plan after measurement date ¹	<u>0</u>	<u>0</u>
Total	\$0	\$6,911

¹ To be determined as of the fiscal year ending 2019

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

Fiscal Year Ended June 30	Recognized Deferred Outflows/(Inflows) of Resources
2020	(\$2,589)
2021	(2,589)
2022	(2,591)
2023	858
2024	0
Thereafter	<u>0</u>
Total Deferred Resources:	(\$6,911)

Section II GASB 75 Exhibits

J) Schedule of Deferred Inflows/Outflows of Resources (Exhibit 9)

Fiscal Year Established	Initial Amount	Initial Year	Years Left	Amount Recognized In FY 2019	Balances as of 06/30/19 of Deferred	
					Outflows	Inflows
Difference Between Expected and Actual Plan Experience						
2018	\$146,389	0.0	0.0	\$0	\$0	\$0
2019	<u>(14,315)</u>	0.0	0.0	<u>(14,315)</u>	<u>0</u>	<u>0</u>
Total	\$132,074			(\$14,315)	\$0	\$0
Change in Assumptions						
2018	(\$373,443)	0.0	0.0	\$0	\$0	\$0
2019	<u>0</u>	0.0	0.0	<u>0</u>	<u>0</u>	<u>0</u>
Total	(\$373,443)			\$0	\$0	\$0
Net Difference Between Projected and Actual Earnings On Investments						
2018	(\$17,242)	5.0	3.0	(\$3,448)	\$0	(\$10,346)
2019	<u>4,294</u>	5.0	4.0	<u>859</u>	<u>3,435</u>	<u>0</u>
Total	(\$12,948)			(\$2,589)	\$3,435	(\$10,346)
Totals:				\$1,609	\$3,435	(\$10,346)

Section II GASB 75 Exhibits

K) Reconciliation of the Net Position (Exhibit 10)

Measurement as of:	June 30, 2018	June 30, 2017
Total OPEB Liability (TOL)	\$1,267,624	\$1,304,608
Plan Fiduciary Net Position (PFNP)	1,463,483	1,479,475
Net OPEB Liability (NOL)	(\$195,859)	(\$174,867)
Deferred Inflows of resources (CR):		
▪ Differences between expected and actual experience	0	0
▪ Changes in assumptions	0	0
▪ Net difference between projected and actual earnings	6,911	(13,794)
Deferred Outflows of resources (DR):		
▪ Differences between expected and actual experience	0	0
▪ Changes in assumptions	0	0
▪ Net difference between projected and actual earnings	0	0
▪ Est. contributions post measurement date ¹	0	0
Net Position	(\$188,948)	(\$161,073)

¹ Actual post-measurement date contributions should be reported in the financial disclosures

Reconciliation of Net Position	
Net Position at June 30, 2017 ¹	(\$161,073)
Aggregate OPEB Expense	(27,875)
Total OPEB Contributions	0
Net Position at June 30, 2018 ¹	(\$188,948)

¹ Does not reflect post-measurement date contributions

Our GASB 75 reports do not include post-measurement contributions. However, they should be included as a deferred outflow in the employer's financial statements.

Section II GASB 75 Exhibits

L) Journal Entry to Record the NOL for FYE June 30, 2019 (Exhibit 9)

	DR	CR
Net Position	\$0	\$188,948
DO-Experience	0	0
DO-Investment	0	0
DO-Contributions	0	0
DO-Assumptions	0	0
DI-Experience	0	0
DI-Investment	0	6,911
DI-Assumptions	0	0
NOL	<u>195,859</u>	<u>0</u>
	\$195,859	\$195,859

Section III Data

A) Summary of Demographic Information

The participant data used in the valuation was provided by the District as of June 30, 2017. It is assumed that this data is representative of the population as of June 30, 2018. While the participant data was checked for reasonableness, the data was not audited. The valuation results presented in this report are dependent upon the accuracy of the participant data provided. The table below presents a summary of the basic participant information for the active and retired participants covered under the terms of the Plan.

	Total
<u>Actives</u>	
Average Age	N/A
Average Service	N/A
Total Counts	0
<u>Retirees and Surviving Spouses</u>	
Average Age	74 yrs.
Counts	
Under age 65	2
Age 65 and over	<u>8</u>
Total Counts	10
<u>Covered Dependents of Retirees</u>	
Counts	
Spouses / Domestic Partners	5
Children	<u>0</u>
Total	5
Total Participants	15

Section III Data

B) Distribution of Participants by Age and Service

Distribution of Service Groups by Age Groups

Age Group	Retired* Participants	Active Participant – Years of Service						Total
		0 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25+	
< 25	0	0	0	0	0	0	0	0
25 - 29	0	0	0	0	0	0	0	0
30 - 34	0	0	0	0	0	0	0	0
35 - 39	0	0	0	0	0	0	0	0
40 - 44	0	0	0	0	0	0	0	0
45 - 49	0	0	0	0	0	0	0	0
50 - 54	0	0	0	0	0	0	0	0
55 - 59	0	0	0	0	0	0	0	0
60 - 64	2	0	0	0	0	0	0	0
65 - 69	1	0	0	0	0	0	0	0
> 70	7	0	0	0	0	0	0	0
Total	10	0	0	0	0	0	0	0

* Retired participants include retirees, disabled participants, and surviving family members. Does not include covered dependents.

Section IV Plan Provision Summary

A) Plan Description

The District has assumed responsibility for providing the entire cost of postretirement medical, dental and vision benefits to a closed group of retirees and their dependents. Retirees may enroll in any of the plans offered by the District. Retirees are currently enrolled in Blue Shield, PERS Care, and Kaiser plans. The District also provides postretirement dental coverage through Delta Dental and postretirement vision coverage through VSP.

2017 and 2018 calendar year monthly medical premium rates for the District's plans are shown below:

Pre-Medicare Premiums

2017 Plan	EE	EE+SP	EE+Fam
Blue Shield Access+	\$1,024.85	\$2,049.70	\$2,664.61
Kaiser	\$573.89	\$1,147.78	\$1,492.11
PERSCare	\$932.39	\$1,864.78	\$2,424.21
2018 Plan			
Blue Shield Access+	\$889.02	\$1,778.04	\$2,311.45
Kaiser	\$642.70	\$1,285.40	\$1,671.02
PERSCare	\$882.45	\$1,764.90	\$2,294.37

Medicare Premiums

2017 Plan	EE	EE+SP
Blue Shield Access+	N/A	N/A
Kaiser	\$300.48	\$600.96
PERSCare	\$389.76	\$779.52
United Healthcare	\$324.21	\$648.42
2018 Plan		
Blue Shield Access+	N/A	N/A
Kaiser	\$316.34	\$632.68
PERSCare	\$382.30	\$764.60
United Healthcare	\$330.76	\$661.52

Dental Premiums \$64.41 for retiree, \$60.07 for spouse

Vision Premiums \$31.52 composite

Duration of Benefits

Benefits continue for the life of the retiree and/or dependent(s).

Surviving Spouse Coverage

Surviving spouses of deceased retirees receive lifetime coverage.

Changes in Benefit Terms

There have been no changes in the benefit terms since the last measurement date.

Section V Actuarial Assumption, Methods, & Considerations

A) Actuarial Assumptions

Discount Rate	6.73%, based on the CERBT Strategy 2 investment policy.
Net Investment Return	6.73%, based on the CERBT Strategy 2 investment policy.
Inflation	We assumed 2.26% annual inflation.
Payroll increases	3.25% annual increases.
Administrative Expenses	We assumed that the administrative expense were \$772 for the measurement period ending June 30, 2018.

Pre-Excise Tax Health Care Trend	Year	Increase in Premium Rates	
	Beginning	Pre-65	Post-65
	2019	8.00%	5.50%
	2020	6.80%	5.00%
	2021	6.55%	5.00%
	2022	6.30%	5.00%
	2023	6.05%	5.00%
	2024	5.80%	5.00%
	2025	5.55%	5.00%
	2026	5.30%	5.00%
	2027	5.05%	5.00%
	2028 and later	5.00%	5.00%

Section V Actuarial Assumption, Methods, & Considerations

A) Actuarial Assumptions (continued)

Plan Distribution for Calculating Baseline Cost	<table border="1"> <thead> <tr> <th>Plan</th> <th>Pre-Medicare</th> <th>Post-Medicare</th> </tr> </thead> <tbody> <tr> <td>Blue Shield</td> <td>50%</td> <td>0%</td> </tr> <tr> <td>Kaiser</td> <td>50%</td> <td>12.5%</td> </tr> <tr> <td>PERSCare</td> <td>0%</td> <td>75%</td> </tr> <tr> <td>United Healthcare</td> <td>0%</td> <td>12.5%</td> </tr> <tr> <td>Total</td> <td>100%</td> <td>100%</td> </tr> </tbody> </table>	Plan	Pre-Medicare	Post-Medicare	Blue Shield	50%	0%	Kaiser	50%	12.5%	PERSCare	0%	75%	United Healthcare	0%	12.5%	Total	100%	100%
Plan	Pre-Medicare	Post-Medicare																	
Blue Shield	50%	0%																	
Kaiser	50%	12.5%																	
PERSCare	0%	75%																	
United Healthcare	0%	12.5%																	
Total	100%	100%																	
Average Per Capita Claims Cost (Baseline Cost)	Pre-Medicare: \$9,572 per year Post-Medicare: \$4,332 per year																		
Administrative Expenses	Administrative costs built into the premiums are assumed to be part of the average per capita claims cost.																		
Health Plan Participation	We assumed that 100% of eligible participants will participate.																		
Medicare Coverage	We assumed that all future retirees will be eligible for Medicare when they reach age 65.																		
Morbidity Factors	CalPERS 2013 study																		
Population for Curving	CalPERS 2013 study																		
Age-Weighted Claims Costs ¹	<table border="1"> <thead> <tr> <th>Age</th> <th>Claim Cost</th> </tr> </thead> <tbody> <tr> <td>50</td> <td>\$9,955</td> </tr> <tr> <td>55</td> <td>\$11,408</td> </tr> <tr> <td>60</td> <td>\$12,553</td> </tr> <tr> <td>65</td> <td>\$3,216</td> </tr> <tr> <td>70</td> <td>\$3,716</td> </tr> <tr> <td>75</td> <td>\$4,409</td> </tr> <tr> <td>80</td> <td>\$4,920</td> </tr> <tr> <td>85</td> <td>\$5,150</td> </tr> </tbody> </table>	Age	Claim Cost	50	\$9,955	55	\$11,408	60	\$12,553	65	\$3,216	70	\$3,716	75	\$4,409	80	\$4,920	85	\$5,150
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85	\$5,150																		

Section V Actuarial Assumption, Methods, & Considerations

A) Actuarial Assumptions (continued)

Mortality* The mortality rates used in this valuation are those described in the 2014 CalPERS experience study.

Pre-Retirement: CalPERS 2014 Mortality pre-retirement

Post-Retirement: CalPERS 2014 Mortality post-retirement

Age	Sample Mortality Rates		Retired Employees	
	Active Employees Male	Active Employees Female	Male	Female
55	0.23%	0.14%	0.60%	0.42%
60	0.31%	0.18%	0.71%	0.44%
65	0.40%	0.26%	0.83%	0.59%
70	0.52%	0.37%	1.31%	0.99%
75	0.71%	0.53%	2.21%	1.72%
80	0.99%	0.81%	3.90%	2.90%
85	0.00%	0.00%	6.97%	5.24%
90	0.00%	0.00%	12.97%	9.89%

Disability* Because of the anticipated low incidence of disability retirements we did not value disability.

Percent Married Active employees and retirees are assumed to continue to cover their current spouse through retirement.

Participation We assumed 100% of retirees will participate upon retirement.

**Source: NCG has not performed an experience study to select these assumptions. NCG has not observed materially consistent gains or consistent losses associated with these assumptions*

Section V Actuarial Assumption, Methods, & Considerations

A) Actuarial Assumptions (continued)

Retirement* The retirement rates used in this valuation are those described in the 2014 CalPERS experience study.

Age	Years of Service				
	5	10	15	20	25
2.0% @ 55					
50	1.4%	1.8%	2.1%	2.5%	2.7%
55	4.8%	6.1%	7.4%	8.8%	10.0%
60	6.7%	8.6%	10.3%	12.3%	13.9%
65	15.5%	19.7%	23.8%	28.5%	32.5%
70	13.0%	16.5%	20.0%	24.0%	27.2%
75	100.0%	100.0%	100.0%	100.0%	100.0%

Withdrawal * Withdrawal rates based on a 2014 CalPERS demographic study.

Age	Years of Service				
	0	5	10	15	20
20	16.7%	8.7%	7.5%	0.0%	0.0%
25	16.1%	7.9%	6.7%	5.8%	0.0%
30	15.4%	7.1%	5.9%	5.0%	4.5%
35	14.7%	6.3%	5.1%	4.2%	3.7%
40	14.0%	5.5%	4.3%	3.5%	2.9%
45	13.3%	1.2%	0.7%	0.3%	0.2%
50	16.7%	8.7%	7.5%	0.0%	0.0%

* Source: NCG has not performed an experience study to select these assumptions. NCG has not observed materially consistent gains or consistent losses associated with these assumptions

Assumption Changes

There have been no assumption changes since the last measurement date. While no assumptions have changed, the health care trend assumption is now labeled as "Pre-Excise Tax Health Care Trend" to reduce ambiguity.

Section V Actuarial Assumption, Methods, & Considerations

B) Actuarial Methods

Actuarial Cost Method	Entry Age Normal <p>An actuarial cost method under which the Actuarial Present Value of the Projected Benefits of each individual included in the valuation is allocated on a level basis over the earnings or service of the individual between entry age and assumed exit age(s). The portion of this Actuarial Present Value allocated to a valuation year is called the Normal Cost.</p>
Amortization Methodology	<p>We used straight-line amortization. For assumption changes and experience gains/losses, we assumed Average Future Working Lifetime, averages over all actives and retirees (retirees are assumed to have no future working years). For asset gains and losses, we assumed 5 years.</p>
Financial and Census Data	<p>The District provided the participant data, financial information and plan descriptions used in this valuation. The actuary has checked the data for reasonableness, but has not independently audited the data. The actuary has no reason to believe the data is not complete and accurate, and knows of no further information that is essential to the preparation of the actuarial valuation.</p>
Plan Fiduciary Net Position	Market value of assets as of the measurement date
Measurement Date	June 30, 2018
Valuation Date	June 30, 2017. Results have been rolled forward (an actuarial adjustment) to June 30, 2018.
Funding Policy	<p>The District intends to contribute the full ADC to the Plan each year. Contributions would be made up of cash contributions made to the trust as well as any benefit payments (implicit and explicit) unreimbursed by the trust.</p>

Section V Actuarial Assumption, Methods, & Considerations

C) Actuarial Considerations

Health Care Reform

Health care delivery is going through an evolution due to enactment of Health Care Reform. The Patient Protection and Affordable Care Act (PPACA), was signed March 23, 2010, with further changes enacted by the Health Care and Education Affordability Reconciliation Act (HCEARA), signed March 30, 2010. This valuation uses various assumptions that may have been modified based on considerations under PPACA. This section discusses particular legislative changes that were reflected in our assumptions. We have not identified any other specific provision of PPACA that would be expected to have a significant impact on the measured obligation. As additional guidance on the Act continues to be issued, we'll continue to monitor impacts.

Individual Mandate

Under PPACA, individuals (whether actively employed or otherwise) must be covered by health insurance or else pay a penalty tax to the government. While it is not anticipated that the Act will result in universal coverage, it has increased the overall portion of the population with coverage. We believe this will result in an increased demand on health care providers, resulting in higher trend for medical services for non-Medicare eligible retirees. (Medicare costs are constrained by Medicare payment mechanisms already in place, plus additional reforms added by PPACA and HCEARA.) The penalty tax was eliminated effective January 1, 2019 and this has effectively eliminated the individual mandate. The CBO estimates the impact this will have in 2019 is a decrease of enrollees of 2% of all insureds (18% of enrollees in the individual market) and expects this to grow to 5% (28%) by 2027.

Employer Mandate

Health Care Reform includes various provisions mandating employer coverage for active employees, with penalties for non-compliance. Those provisions do not directly apply to the postemployment coverage included in this valuation.

Section V Actuarial Assumption, Methods, & Considerations

C) Actuarial Considerations (continued)

Medicare Advantage Plans	Effective January 1, 2011, the Law provides for reductions to the amounts that would be provided to Medicare Advantage plans starting in 2011. We considered the effect of these reductions in federal payments to Medicare Advantage plans when setting our trend assumption.
Expansion of Child Coverage to Age 26	Health Care Reform mandates that coverage be offered to any child, dependent or not, through age 26, consistent with coverage for any other dependent. We assume that this change has been reflected in current premium rates. While this plan covers dependents, we do not currently assume non-spouse dependent coverage other than for firefighters. We believe the impact this assumption has on the valuation is immaterial due to the lack of retirees that have had or are expected to have non-spouse dependents for any significant amount of time during retirement.
Elimination of Annual or Lifetime Maximums	Health Care Reform provides that annual or lifetime maximums have to be eliminated for all “essential services.” We assume that current premium rates already reflect the elimination of any historic maximums.
Cadillac Tax (High Cost Plan Excise Tax)	<p>The PPACA legislation added a new High-Cost Plan Excise Tax (also known as the “Cadillac Tax”) starting in calendar year 2022. For valuation purposes, we assumed that the value of the tax will be passed back to the plan in higher premium rates.</p> <ul style="list-style-type: none">• The tax is 40% of the excess of (a) the cost of coverage over (b) the limit. We modeled the cost of the tax by calculating (a) using the working rates projected with trend. We calculated (b) starting with the statutory limits (\$10,200 single and \$27,500 family), adjusted for the following:<ul style="list-style-type: none">○ Limits will increase from 2018 to 2019 by 4.25% (CPI plus 1%);○ Limits will increase after 2019 by 3.25% (CPI); and○ For retirees over age 55 and not on Medicare, the limit is increased by an additional dollar amount of \$1,650 for single coverage and \$3,450 for family coverage.• Based on the above assumptions, we estimate that the tax will apply as early as 2028 for some of the District’s pre-Medicare plans. In addition, we estimate that the tax will not apply for the District’s post-Medicare plans.

Section VI Glossary

A) Key Terms

Annual OPEB Expense	The amount recognized by an employer in each accounting period for contributions to a defined benefit OPEB plan on the modified accrual basis of accounting.
Deferred outflows and inflows of resources related to OPEB	Deferred outflows of resources and deferred inflows of resources related to OPEB arising from certain changes in the collective net OPEB liability or collective total OPEB liability
Covered Payroll	Annual compensation paid (or expected to be paid) to active employees covered by an OPEB plan, in aggregate.
Net OPEB Liability (NOL)	The liability of employers and non-employer contributing entities to plan members for benefits provided through a defined benefit OPEB plan that is administered through a trust that meets the criteria of the GASB Statements.
Normal Cost or Service Cost	The portion of the Total Present Value of Future Benefits attributed to employee service during the current fiscal year by the actuarial cost method. These terms are used interchangeably.
Other Postemployment Benefits (OPEB)	Retiree health care benefits and post-employment benefits provided separately from a pension plan (excluding termination offers and benefits).
Plan Fiduciary Net Position (FNP)	Set equal to the market value of assets as of the measurement date.
Present Value of Future Benefits (PVFB)	The value, as of the valuation date, of the projected benefits payable to all members for their accrued service and their expected future service, discounted to reflect the time value (present value) of money and adjusted for the probabilities of retirement, withdrawal, death and disability.
Total OPEB Liability (TOL)	The portion of the actuarial present value of projected benefit payments that is attributed to past period of member service in conformity with the GASB Statements. The total OPEB liability is the liability of employers and non-employer contributing entities to plan members for benefits provided through a defined benefit OPEB plan that is not administered through a trust that meets the criteria of the GASB Statements.