

**City of Oakland  
Postretirement Health  
Insurance Plan**

**GASB 43/45  
Actuarial Valuation Report  
as of July 1, 2015**

**Produced by Cheiron  
May 2016**

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June 22, 2016

Ms. Katano Kasaine, Treasurer  
City of Oakland  
Finance and Management Agency  
Lionel J. Wilson Building  
150 Frank H. Ogawa Plaza, Suite 5330  
Oakland, CA 94612-2093

***Re: Employees' Postretirement Health Insurance Plan July 1, 2015 GASB 43/45 Actuarial Valuation Results***

Dear Katano:

As requested by the City, we have performed an actuarial valuation of the postretirement benefits provided by the City of Oakland Postretirement Health Insurance Plan (Plan). The following report contains our findings and disclosures required by the Governmental Accounting Standards Board (GASB). This report is for the use of the City of Oakland and its auditors in preparing financial reports in accordance with applicable law and accounting requirements. These actuarial computations are calculated based on our understanding of GASB 43 and 45 and are for purposes of fulfilling the Plan and employer financial accounting requirements. Determinations for purposes other than meeting the Plan and employer financial accounting requirements may be significantly different from the results in this report.

Appendix A describes the participant data, assumptions, and methods used in calculating the figures throughout the report. In preparing our report, we relied on information (some oral and some written) supplied by the Plan's staff. This information includes, but is not limited to, the Plan provisions, employee data, and financial information. We performed an informal examination of the obvious characteristics of the data for reasonableness and consistency in accordance with Actuarial Standard of Practice #23. The demographic assumptions used in this report are the same as those adopted by the CalPERS Board in February 2014. The economic assumptions are the same as those used in the July 1, 2012 OPEB report prepared by AON, with the exception of the per capita claim costs and healthcare trends. This is the first report in which the implicit subsidy was recognized.

Appendix B contains our understanding of the substantive Plan provisions based on the information provided by your office.

Future results may differ significantly from the current results presented in this valuation report due to such factors as the following: plan experience differing from that anticipated by the assumptions; changes in assumptions; and changes in plan provisions or applicable law.

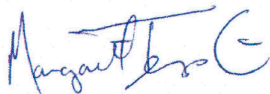
Ms. Katano Kasaine  
City of Oakland  
June 22, 2016

This report does not reflect future changes in benefits, penalties, or administrative costs that may be required as a result of the Patient Protection and Affordable Care Act of 2010, related legislation, or regulations.

To the best of our knowledge, this actuarial valuation report and its contents have been prepared in accordance with generally recognized and accepted actuarial principles and practices which are consistent with the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board. Furthermore, as credentialed actuaries, we meet the Qualification Standards of the American Academy of Actuaries to render the opinion contained in this report. This report does not address any contractual or legal issues. We are not attorneys and our firm does not provide any legal services or advice.

This actuarial valuation report was prepared exclusively for the City of Oakland for the purpose described herein. Other users of this valuation report are not intended users as defined in the Actuarial Standards of Practice, and Cheiron assumes no duty or liability to any other user.

Sincerely,  
Cheiron, Inc.



Margaret Tempkin, FSA, EA, MAAA  
Principal Consulting Actuary



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Principal Consulting Actuary

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**TOTAL – SECTION I – SUMMARY**

The City of Oakland, California engaged Cheiron to provide an analysis of the Employees' Postretirement Health Insurance Plan's liabilities as of July 1, 2015. The primary purposes of performing this actuarial valuation are to:

- **Determine the Annual Required Contribution (ARC)** and the Net Other Postemployment Benefit (OPEB) Obligation (NOO) of the retiree health benefit under GASB Statements 43 and 45 and the current funding strategy;
- **Provide projections** for the actuarial liabilities, the ARC, and the NOO; and
- **Provide sensitivities** for the actuarial liabilities and the ARC by using a 1% increase and a 1% decrease in both healthcare trend and discount rates; and
- **Provide disclosures** for financial statements.

We have determined costs, liabilities and trends for the substantive Plan using actuarial assumptions and methods that we consider reasonable.

***GASB's OPEB Requirements***

GASB's Statement 43 refers to the financial reporting for postemployment benefit plans other than pension plans and Statement 45 refers to the employer accounting for these plans. Statement 43 is generally applicable where an entity has a separate trust or fund for OPEB benefits. We understand that the City has a trust used to fund future OPEB obligations. Statement 45, which was adopted in the fiscal year ending (FYE) June 30, 2008, requires the plan sponsor to book the actuarial cost (net of employee, retiree, and their dependents' contributions) of the plan as an expense on its financial statements and then accrue a liability to the extent actual contributions were less than this expense. Additional disclosures include a description of the substantive plan, summary of significant accounting policies (not included in this report), contributions, and a statement of funding progress, along with the methods and assumptions used for those disclosures.

This report does not reflect any changes in postemployment benefit accounting requirements from GASB No. 74 and 75 Statements for OPEB plans, which will replace GASB No. 43 and 45, respectively. GASB No. 74 is effective for the fiscal year ending June 30, 2017, and GASB 75 is effective for employers' fiscal years ending June 30, 2018. All references and calculations with respect to GASB reflect current Statements No. 43 and 45.

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**TOTAL – SECTION I – SUMMARY**

***Funding Policy***

The City's funding policy is to partially pre-fund the actuarially determined Other Postemployment Benefits (OPEB) costs, which include both normal costs and amortization of unfunded actuarial liability, by contributing to the California Employers' Retiree Benefit Trust (CERBT) sponsored by CalPERS. The CERBT Fund is a Section 115 trust fund dedicated to prefunding Other Postemployment Benefits (OPEB) for all eligible California public agencies. The City expects to contribute \$1.1 million to the CERBT annually in addition to the benefit payments for retirees currently with medical coverage.

***Valuation Results***

The table below presents the key results of the July 1, 2015 valuation compared to those of the last actuarial valuation as of July 1, 2013.

<b>Table I-1</b>		
<b>TOTAL</b>		
<b>Summary of Key Valuation Results</b>		
	<b>July 1, 2013</b>	<b>July 1, 2015</b>
Actuarial Liability (AL)	\$ 463,850,944	\$ 862,891,642
Assets	<u>0</u>	<u>2,901,346</u>
Unfunded Actuarial Liability (UAL)	\$ 463,850,944	\$ 859,990,296
	<b>June 30, 2014</b>	<b>June 30, 2016</b>
Annual Required Contribution	\$ 39,418,149	\$ 74,094,179
Actual / <i>Expected</i> Contribution	\$ 20,632,950	\$ 25,359,800
Expected Net Explicit Benefit Payments	\$ 18,173,363	\$ 19,494,447
Expected Net Implicit Benefit Payments	<u>N/A</u>	<u>4,765,353</u>
Expected Net Total Benefit Payments	\$ 18,173,363	\$ 24,259,800
Actual / <i>Expected</i> Net OPEB Obligation at End of Fiscal Year	\$ 235,094,820	\$ 305,024,063
Discount Rate	5.59%	4.00%

This report reflects claims, premiums and expenses determined as of July 1, 2015. There have been no significant changes in experience, population or plan design since the last valuation. However, there were changes in assumptions since the prior valuation which had an effect on the costs of the Plan.

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**TOTAL – SECTION I – SUMMARY**

Additionally, an implicit subsidy was first valued for this actuarial valuation. An implicit subsidy measures the actual cost per participant against the charged cost, or premium. Until recently, an implicit subsidy was assumed to not exist for community rated plans. However, Actuarial Standard of Practice (ASOP) No. 6 modified this assumption, making it necessary to value an implied subsidy cost for these plans effective for actuarial valuations on or after March 31, 2015. Since the City of Oakland participates in the Public Employees' Medical and Hospital Care Act (PEMHCA) plans, which are considered community rated plans, the City has not needed to value an implied subsidy cost until this actuarial valuation.

The Annual Required Contribution (ARC) for the fiscal year ending June 30, 2016 increased by \$34.2 million over the expected ARC due to the following: \$0.7 million due to the covered population, \$14.8 million due to a change in the discount rate to align with the City's contribution practices, \$15.0 million due to recognizing the implicit subsidy, \$2.0 million due to changes in future expected decrements, and \$1.7 million due to changes in anticipated health care costs and their increases.

The Unfunded Actuarial Liability (UAL) increased by approximately \$352 million over the expected UAL. More detail on the causes of this change can be found in the valuation results section of this report.

The figures provided in this report are highly sensitive to the assumptions used.

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**TOTAL – SECTION II – ASSETS**

The Plan's preceding valuation of liabilities was performed as of July 1, 2013. Table II-1 below shows the reconciliation of assets for the fiscal year ending July 1, 2015 that were used to develop the FYE 2016 ARC. The market value of assets returned -0.2% during the year. Benefit payments are net of the retiree premiums payable for coverage. The City is expected to contribute \$1.1 million to the CERBT on an annual basis.

<b>Table II-1</b>	
<b>TOTAL</b>	
<b>Reconciliation of Assets</b>	
<b>Valuation Assets as of July 1, 2013</b>	<b>\$ 0</b>
Contributions - to CERBT	2,240,687
Contributions - net benefit payments	19,706,992
Net Benefit Payments	(19,706,992)
Net Investment Earnings	0
<b>Valuation Assets as of July 1, 2014</b>	<b>\$ 2,240,687</b>
Contributions - to CERBT	665,616
Contributions - net benefit payments	19,092,377
Net Benefit Payments	(19,092,377)
Net Investment Earnings	(4,957)
<b>Valuation Assets as of July 1, 2015</b>	<b>\$ 2,901,346</b>



**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**TOTAL – SECTION III – VALUATION RESULTS**

This section of the report calculates the current and expected future contribution requirements under the City's funding policy. Table III-1 below shows the actuarial liabilities for the Plan as of July 1, 2013 and July 1, 2015, as well as expected amounts as of July 1, 2016. The expected results were calculated using standard roll-forward techniques. Asset projections were calculated based on an assumed 7.28% rate of return and assuming expected benefits along with an additional \$1.1 million contribution to the CERBT will be paid in the year ending June 30, 2016.

<b>Table III-1</b> <b>TOTAL</b> <b>Unfunded Actuarial Liability</b>			
	<b>July 1, 2013</b>	<b>July 1, 2015</b>	<i>Projected to July 1, 2016</i>
<b>Present Value of Future Benefits</b>			
Active Employees	\$ 382,245,466	\$ 857,153,483	\$ 891,439,622
Retirees and Beneficiaries	234,384,750	444,754,469	437,804,410
Total	\$ 616,630,216	\$ 1,301,907,952	\$ 1,329,244,032
<b>Actuarial Liability</b>			
Active Employees	\$ 229,466,194	\$ 418,137,173	\$ 472,442,335
Retirees and Beneficiaries	234,384,750	444,754,469	437,804,410
Total	\$ 463,850,944	\$ 862,891,642	\$ 910,246,745
Assets	0	2,901,346	4,212,564
<b>Unfunded Actuarial Liability (UAL)</b>	<b>\$ 463,850,944</b>	<b>\$ 859,990,296</b>	<b>\$ 906,034,180</b>
Funded Ratio	0%	0%	0%
Covered Payroll	\$ 322,169,793	\$ 360,857,850	\$ 369,879,296
UAL as percentage of Covered Payroll	144%	238%	245%

Please note, however, that GASB only requires disclosure of the above actuarial liability in the notes to financial statements and does not require immediate recognition of the entire liability on the balance sheet. GASB's requirement is to book the Annual OPEB Cost (the ARC adjusted for the difference between the amortization of the NOO and interest on the NOO), and the cumulative difference between the Annual OPEB Cost and actual contributions, beginning in the FYE June 30, 2008, as the NOO on the balance sheet.

The ARC consists of two parts: (1) the *normal cost*, which represents the annual cost attributable to service earned in a given year and (2) the 30-year open amortization of the UAL as a level percentage of payroll. Under the City's current funding policy, the City intends to contribute \$1.1 million to the CERBT and pay benefit payments outside of the CERBT. The difference between the actual contributions made (benefits provided plus additional contributions to the CERBT) and the Annual OPEB Cost is the increase in expense on the financial statements of the City.

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**TOTAL – SECTION III – VALUATION RESULTS**

In Table III-2 below, we show the FYE 2014, FYE 2016, and the expected FYE 2017 Annual Required Contribution under the City's funding policy. The assumed discount rate was 5.59% for the fiscal year end 2014 and 4.0% for the fiscal year end 2016 and 2017. It is assumed the City's funding policy is to pay \$1.1 million to the CERBT annually in addition to benefits paid outside of the CERBT. The UAL amortization is based on an open 30-year amortization period.

Table III-2 TOTAL GASB ARC			
Fiscal Year Ending	June 30, 2014	June 30, 2016	Projected to June 30, 2017
Normal Cost at beginning of year *	\$ 15,344,307	\$ 36,134,303	\$ 37,760,347
UAL Amortization at beginning of year *	23,016,243	35,110,100	36,989,895
Interest to end of year	1,057,599	2,849,776	2,990,010
<b>Total ARC</b>	<b>\$ 39,418,149</b>	<b>\$ 74,094,179</b>	<b>\$ 77,740,251</b>

\* June 30, 2014 Normal Cost and UAL Amortization are as of the middle of the year.

Table III-3 shows the expected benefit payments through the fiscal year ending June 30, 2025. In calculating the liabilities, we project these figures for the life of each existing participant. This projects the anticipated eligible retirees and the change in both claims and premiums. These benefit payments include the explicit and implicit benefit payments and exclude payments made by retirees towards their premiums.

Table III-3 TOTAL				
Fiscal Year Ending June 30,	Expected Net Implicit Benefit Payments	Expected Net Explicit Benefit Payments	Expected Net ACA Benefit Payments	Total Expected Net Benefit Payments
2016	\$ 4,765,353	\$ 19,494,447	\$ -	\$ 24,259,800
2017	5,167,430	21,180,358	-	26,347,788
2018	5,449,511	22,843,678	-	28,293,189
2019	6,077,553	24,769,853	-	30,847,406
2020	6,515,318	26,633,548	-	33,148,866
2021	7,185,599	28,624,593	190,690	36,000,883
2022	7,629,120	30,599,983	250,506	38,479,609
2023	8,434,676	32,806,329	321,222	41,562,227
2024	9,454,606	35,169,725	405,866	45,030,197
2025	10,209,213	37,552,108	477,859	48,239,180

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**TOTAL – SECTION III – VALUATION RESULTS**

***Reconciliation***

Table III-4 provides an estimate of the major factors contributing to the change in liability since the last actuarial valuation.

Table III-4 TOTAL Reconciliation of Actuarial Liability	
Actuarial Liability at July 1, 2013	\$ 463,850,944
Normal Cost at middle of year	15,344,307
Expected Benefit Payments paid throughout the year	(18,173,363)
Interest	25,851,271
Expected Actuarial Liability at July 1, 2014	\$ 486,873,159
Normal Cost at middle of year	16,111,522
Expected Benefit Payments paid throughout the year	(19,276,068)
Interest	27,128,963
Expected Actuarial Liability at July 1, 2015	\$ 510,837,576
Actuarial Liability at July 1, 2015	862,891,642
Gain or (Loss)	\$ (352,054,066)
Gain or (Loss) due to:	
Census changes	\$ (2,916,285)
Change in discount rate	(116,190,426)
Change due to implicit subsidy	(164,303,530)
Change in demographic assumptions	(38,866,759)
Change in claims and trend assumptions	(29,777,066)
Total changes	\$ (352,054,066)

Below is a brief description of each of the above components:

- *Expected Values* refer to the change that would have occurred had experience matched all the assumptions between July 1, 2013 and July 1, 2015.
- *Census Changes* refer to the impact of population changes between July 1, 2013 and July 1, 2015.
- *Change in Discount Rate* refers to the impact that a change in discount rate had on the liability between July 1, 2013 and July 1, 2015. The discount rate was lowered from 5.59% to 4.0%, reflecting the actual amount of payments made to the CERBT in addition to benefits paid.
- *Change due to implicit subsidy* refers to the change in method for valuing “true” cost of providing retiree medical coverage. The true cost of coverage for retirees age 55-64 is greater than the cost of the same coverage for the typical group of active employees. Employers who

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**TOTAL – SECTION III – VALUATION RESULTS**

treat the cost as being the same often are providing implicit subsidies for retirees. The cost difference, implicit subsidy, is equal to the “true” cost of providing retiree medical coverage minus the average active/retiree cost (i.e. the premium charged). Until recently, an implicit subsidy was assumed to not exist for community rated plans. However, Actuarial Standard of Practice (ASOP) No. 6 modified this assumption, making it necessary to value an implied subsidy cost for these plans effective for actuarial valuations on or after March 31, 2015. Since the City of Oakland participates in the Public Employees' Medical and Hospital Care Act (PEMHCA) plans, which are considered community rated plans, the City has not needed to value an implied subsidy cost until this actuarial valuation.

- *Change in Demographic Assumptions* refers to the change in the rates of retirement, withdrawal, disability retirement, and mortality. These assumptions are used for participants in CalPERS, and are based on the most recent CalPERS Experience Study completed January 2014 and approved by the CalPERS Board in February 2014.
- *Change in Claims and Trend Assumptions* refers to the change in expected current and future healthcare claims and expense costs.

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**TOTAL – SECTION IV – SENSITIVITY**

The liabilities and ARC produced in this report are sensitive to the assumptions used. The tables below show the impact of a 1% increase or decrease in the healthcare trend rates on the GASB actuarial liability and the ARC to provide some measure of sensitivity.

Table IV-1 TOTAL Sensitivity to Health Care Trend Rates - Unfunded Actuarial Liability			
Health Care Trend Rate	-1%	Base	+1%
<b>Actuarial Liability</b>			
Active Employees	\$ 350,847,251	\$ 418,137,173	\$ 505,580,760
Retirees and Beneficiaries	399,362,707	444,754,469	499,385,254
Total	\$ 750,209,958	\$ 862,891,642	\$ 1,004,966,014
Assets	2,901,346	2,901,346	2,901,346
<b>Unfunded Actuarial Liability</b>	<b>\$ 747,308,612</b>	<b>\$ 859,990,296</b>	<b>\$ 1,002,064,668</b>

Table IV-2 TOTAL Sensitivity to Health Care Trend Rates - GASB ARC for FYE 2016			
Health Care Trend Rate	-1%	Base	+1%
Total Normal Cost at beginning of year	\$ 29,453,591	\$ 36,134,303	\$ 45,110,763
UAL Amortization at beginning of year	30,509,740	35,110,100	40,910,451
Interest to End of Year	2,398,533	2,849,776	3,440,849
<b>Total ARC</b>	<b>\$ 62,361,864</b>	<b>\$ 74,094,179</b>	<b>\$ 89,462,063</b>

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**TOTAL – SECTION IV – SENSITIVITY**

The tables below show the impact of a 1% increase or decrease in the discount rates on the GASB actuarial liability and the ARC to provide some measure of sensitivity.

Table IV-3 TOTAL Sensitivity to Discount Rates - Unfunded Actuarial Liability			
Discount Rate	3.00%	4.00%	5.00%
<b>Actuarial Liability</b>			
Active Employees	\$ 502,938,154	\$ 418,137,173	\$ 351,503,298
Retirees and Beneficiaries	509,040,489	444,754,469	392,910,235
Total	\$ 1,011,978,643	\$ 862,891,642	\$ 744,413,533
Assets	2,901,346	2,901,346	2,901,346
<b>Unfunded Actuarial Liability</b>	<b>\$ 1,009,077,297</b>	<b>\$ 859,990,296</b>	<b>\$ 741,512,187</b>

Table IV-4 TOTAL Sensitivity to Discount Rates - GASB ARC for FYE 2016			
Discount Rate	3.00%	4.00%	5.00%
Total Normal Cost at beginning of year	\$ 46,861,867	\$ 36,134,303	\$ 28,188,501
UAL Amortization at beginning of year	36,062,946	35,110,100	34,303,699
Interest to End of Year	3,316,993	2,849,776	2,499,688
<b>Total ARC</b>	<b>\$ 86,241,806</b>	<b>\$ 74,094,179</b>	<b>\$ 64,991,888</b>

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**TOTAL – SECTION V – ACCOUNTING DISCLOSURES**

**Statements No. 43 and 45 of the Governmental Accounting Standards Board (GASB)** established standards for accounting and financial reporting of Other Postemployment Benefit (OPEB) information by governmental employers and plans. In accordance with those statements, we have prepared the following disclosures.

***Net OPEB Obligation***

The table below shows the development of the Net OPEB Obligation (NOO) for the fiscal years ending June 30, 2014 and June 30, 2015 and projects the Net OPEB Obligation for the fiscal year ending June 30, 2016.

<p style="text-align: center;"><b>Table V-1</b> <b>TOTAL</b> <b>Development of Net OPEB Obligation</b></p>			
<b>Fiscal Year Ending</b>	<b>June 30, 2014</b>	<b>June 30, 2015</b>	<b>June 30, 2016</b>
1. Discount rate	5.59%	5.59%	4.00%
2. Net OPEB Obligation (NOO) at beginning of fiscal year	\$ 215,252,287	\$ 235,094,820	\$ 256,921,507
3. Annual Required Contribution (ARC)	\$ 39,418,149	\$ 39,418,149	\$ 74,094,179
4. Interest on NOO at discount rate to end of fiscal year	12,032,603	13,141,800	10,276,860
5. Adjustment to the ARC	10,975,269	10,975,269	10,908,683
6. Annual OPEB Cost (3) + (4) - (5)	\$ 40,475,483	\$ 41,584,680	\$ 73,462,356
7. Net employer contribution			
Contributions to CERBT	\$ 2,240,687	\$ 665,616	\$ 1,100,000
Net Benefit Payments	18,392,263	19,092,377	24,259,800
Total	\$ 20,632,950	\$ 19,757,993	\$ 25,359,800
8. Change in Net OPEB Obligation (6) - (7)	\$ 19,842,533	\$ 21,826,687	\$ 48,102,557
<b>9. Net OPEB Obligation at end of fiscal year (2) + (8)</b>	<b>\$ 235,094,820</b>	<b>\$ 256,921,507</b>	<b>\$ 305,024,063</b>

*\* June 30, 2014 results are from prior actuary, while June 30, 2015 results are from the City's June 30, 2015 CAFR.*

The Net OPEB Obligation (NOO) at June 30, 2015 was provided in the City's June 30, 2015 Comprehensive Annual Financial Report. The Annual Required Contribution for the fiscal year ending June 30, 2016 is based on the July 1, 2015 valuation. The interest on Net OPEB Obligation is calculated using the assumed discount rate as shown in the table. The adjustment to the ARC is an open 30-year level percent of payroll amortization of the NOO. The employer contributions were provided by the City for the fiscal year ending June 30, 2015 and are assumed to equal the explicit benefit payments, the estimated implicit subsidy and the actual contribution to the CERBT in fiscal year ending June 30, 2016.

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**TOTAL – SECTION V – ACCOUNTING DISCLOSURES**

***Schedule of Funding Progress***

The schedule of funding progress compares the assets used for funding purposes to the comparable liabilities to determine how well the Plan is funded and how this status has changed over the past several years. The actuarial liability is compared to the actuarial value of assets to determine the funding ratio. The actuarial liability under GASB is determined assuming that the Plan is ongoing and participants continue to terminate employment, retire, etc., in accordance with the actuarial assumptions.

Table V-2 TOTAL Schedule of Funding Progress *						
Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Liability (b)	Unfunded Actuarial Liability (UAL) (b-a)	Funded Ratio (a/b)	Annual Covered Payroll (c)	UAL as Percentage of Covered Payroll ((b-a)/c)
7/1/2015	\$ 2,901,346	\$ 862,891,642	\$ 859,990,296	0%	\$ 360,857,850	238.3%
7/1/2013	0	463,850,944	463,850,944	0%	322,169,793	144.0%
7/1/2012	0	553,530,074	553,530,074	0%	304,373,447	181.9%
7/1/2010	0	520,882,498	520,882,498	0%	310,154,816	167.9%

\* Figures prior to July 1, 2015 calculated by prior actuary

***Schedule of Employer Contributions***

The schedule of employer contributions shows whether the employer has made contributions that are consistent with the parameters established by GASB for calculating the ARC and the Annual OPEB Cost.

Table V-3 TOTAL Schedule of Employer Contributions *				
Fiscal Year Ending	Annual OPEB Cost (AOC)	City Contributions	Percentage of AOC Contributed	Net OPEB Obligation
2016	\$ 73,462,356	\$ 25,359,800	35%	\$ 305,024,063
2015	41,584,680	19,757,993	48%	256,921,507
2014	40,475,483	20,632,950	51%	235,094,820
2013	46,291,501	17,622,496	38%	215,252,287
2012	46,400,740	16,795,999	36%	186,583,282

\* Figures prior to FYE June 30, 2016 calculated by the prior actuary.



**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**TOTAL – SECTION V – ACCOUNTING DISCLOSURES**

We have also provided a *Note to Required Supplementary Information* for the financial statements in Table V-4.

Table V-4 TOTAL NOTE TO REQUIRED SUPPLEMENTARY INFORMATION	
The information presented in the required supplementary schedules was determined as part of the actuarial valuation at the date indicated. Additional information as of the latest actuarial valuation follows.	
Valuation Date	July 1, 2015
Actuarial Cost Method	Entry Age Normal
Amortization Method	Level Percentage of Pay, Open Period
Remaining Amortization Period	30 years
Asset Valuation Method	Market Value
Actuarial Assumptions:	
Blended Discount Rate	4.00%
Investment Rate of Return	7.28%
Expected Return on City Assets	3.80%
Rate of Salary Increases used for amortization of the UAL	2.50%
Ultimate Rate of Medical Inflation	4.50%
Years to Ultimate Rate of Medical Inflation	20 years
Inflation	2.50%

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**POLICE – SECTION I – SUMMARY**

***Funding Policy***

The City's funding policy is to partially pre-fund the actuarially determined Other Postemployment Benefits (OPEB) costs, which include both normal costs and amortization of unfunded actuarial liability, by contributing to the California Employers' Retiree Benefit Trust (CERBT) sponsored by CalPERS. The CERBT Fund is a Section 115 trust fund dedicated to prefunding Other Postemployment Benefits (OPEB) for all eligible California public agencies. The City expects to contribute \$0.4 million to the CERBT annually in addition to the benefit payments for retirees currently with medical coverage.

***Valuation Results***

The table below presents the key results of the July 1, 2015 valuation compared to those of the last actuarial valuation as of July 1, 2013.

<b>Table I-1</b>		
<b>POLICE</b>		
<b>Summary of Key Valuation Results</b>		
	<b>July 1, 2013</b>	<b>July 1, 2015</b>
Actuarial Liability (AL)	\$ 191,685,144	\$ 366,025,819
Assets	0	1,163,070
Unfunded Actuarial Liability (UAL)	\$ 191,685,144	\$ 364,862,749
<b>Fiscal Year Ending</b>	<b>June 30, 2014</b>	<b>June 30, 2016</b>
Annual Required Contribution	\$ 17,272,137	\$ 33,262,412
Actual / Expected Contribution	\$ 7,626,776	\$ 9,524,739
Expected Net Explicit Benefit Payments	\$ 6,529,820	\$ 8,038,029
Expected Net Implicit Benefit Payments	N/A	1,086,710
Expected Net Total Benefit Payments	\$ 6,529,820	\$ 9,124,739
Actual / Expected Net OPEB Obligation at End of Fiscal Year	\$ 99,475,455	\$ 133,357,092
Discount Rate	5.59%	4.00%

This report reflects claims, premiums and expenses determined as of July 1, 2015. There have been no significant changes in experience, population or plan design since the last valuation. However, there were changes in assumptions since the prior valuation which had an effect on the costs of the Plan.

Additionally, an implicit subsidy was first valued for this actuarial valuation. An implicit subsidy measures the actual cost per participant against the charged cost, or premium. Until recently, an implicit subsidy was assumed to not exist for community rated plans. However, Actuarial Standard of Practice (ASOP) No. 6 modified this assumption, making it necessary to value an implied subsidy cost for these plans effective for actuarial valuations on or after March 31, 2015. Since the City of Oakland participates in the Public Employees' Medical and Hospital Care Act (PEMHCA) plans, which are considered community rated plans, the City has not needed to value an implied subsidy cost until this actuarial valuation.

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**POLICE – SECTION I – SUMMARY**

The Annual Required Contribution (ARC) for the fiscal year ending June 30, 2016 increased by \$15.6 million over the expected ARC due to the following: \$1.4 million due to the covered population, \$6.8 million due to a change in the discount rate to align with the City's contribution practices, \$5.9 million due to recognizing the implicit subsidy, \$0.8 million due to changes in future expected decrements, and \$0.7 million due to changes in anticipated health care costs and their increases.

The Unfunded Actuarial Liability (UAL) increased by approximately \$151 million over the expected UAL. More detail on the causes of this change can be found in the valuation results section of this report.

The figures provided in this report are highly sensitive to the assumptions used.

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**POLICE – SECTION II – ASSETS**

The Plan's preceding valuation of liabilities was performed as of July 1, 2013. Table II-1 below shows the reconciliation of assets for the fiscal year ending July 1, 2015 that were used to develop the FYE 2016 ARC. Assets were allocated based on the percentage of the Actuarial Liability associated with the Police members. The market value of assets returned -0.2% during the year. Benefit payments are net of the retiree premiums payable for coverage. The City is expected to contribute \$0.4 million to the CERBT on an annual basis.

Table II-1 POLICE Reconciliation of Assets	
<b>Valuation Assets as of July 1, 2013</b>	<b>\$ 0</b>
Contributions - to CERBT	925,958
Contributions - net benefit payments	6,700,818
Net Benefit Payments	(6,700,818)
Net Investment Earnings	0
<b>Valuation Assets as of July 1, 2014</b>	<b>\$ 925,958</b>
Contributions - to CERBT	239,161
Contributions - net benefit payments	7,621,587
Net Benefit Payments	(7,621,587)
Net Investment Earnings	(2,048)
<b>Valuation Assets as of July 1, 2015</b>	<b>\$ 1,163,070</b>

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**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**POLICE – SECTION III – VALUATION RESULTS**

This section of the report calculates the current and expected future contribution requirements under the City's funding policy. Table III-1 below shows the actuarial liabilities for the Plan as of July 1, 2013 and July 1, 2015, as well as expected amounts as of July 1, 2016. The expected results were calculated using standard roll-forward techniques. Asset projections were calculated based on an assumed 7.28% rate of return and assuming the expected benefits along with an additional \$0.4 million contribution to the CERBT will be paid in the year ending June 30, 2016.

<b>Table III-1</b> <b>POLICE</b> <b>Unfunded Actuarial Liability Police</b>			
	<b>July 1, 2013</b>	<b>July 1, 2015</b>	<b><i>Projected to July 1, 2016</i></b>
<b>Present Value of Future Benefits</b>			
Active Employees	\$ 170,795,309	\$ 395,694,114	\$ 411,521,879
Retirees and Beneficiaries	101,690,365	210,994,409	210,128,741
Total	\$ 272,485,674	\$ 606,688,523	\$ 621,650,620
<b>Actuarial Liability</b>			
Active Employees	\$ 89,994,779	\$ 155,031,410	\$ 179,003,296
Retirees and Beneficiaries	101,690,365	210,994,409	210,128,741
Total	\$ 191,685,144	\$ 366,025,819	\$ 389,132,037
Assets	0	1,163,070	1,647,742
<b>Unfunded Actuarial Liability (UAL)</b>	<b>\$ 191,685,144</b>	<b>\$ 364,862,749</b>	<b>\$ 387,484,296</b>
Funded Ratio	0%	0%	0%
Covered Payroll	\$ 100,628,250	\$ 114,085,254	\$ 116,937,385
UAL as percentage of Covered Payroll	190%	320%	331%

Please note, however, that GASB only requires disclosure of the above actuarial liability in the notes to financial statements and does not require immediate recognition of the entire liability on the balance sheet. GASB's requirement is to book the Annual OPEB Cost (the ARC adjusted for the difference between the amortization of the NOO and interest on the NOO), and the cumulative difference between the Annual OPEB Cost and actual contributions, beginning in the FYE June 30, 2008, as the NOO on the balance sheet.

The ARC consists of two parts: (1) the *normal cost*, which represents the annual cost attributable to service earned in a given year and (2) the 30-year open amortization of the UAL as a level percentage of payroll. Under the City's current funding policy, the City intends to contribute \$0.4 million to the CERBT and pay benefit payments outside of the CERBT. The difference between the actual contributions made (benefits provided plus additional contributions to the CERBT) and the Annual OPEB Cost is the increase in expense on the financial statements of the City.

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**POLICE – SECTION III – VALUATION RESULTS**

In Table III-2 below, we show the FYE 2014, FYE 2016, and the expected FYE 2017 Annual Required Contribution under the City's funding policy. The assumed discount rate was 5.59% for the fiscal year end 2014 and 4.0% for the fiscal year end 2016 and 2017. It is assumed the City's funding policy is to pay \$0.4 million to the CERBT annually in addition to benefits paid outside of the CERBT. The UAL amortization is based on an open 30-year amortization period.

Table III-2 POLICE GASB ARC			
Fiscal Year Ending	June 30, 2014	June 30, 2016	Projected to June 30, 2017
Normal Cost at beginning of year *	\$ 7,297,321	\$ 17,087,144	\$ 17,856,065
UAL Amortization at beginning of year *	9,511,400	14,895,944	15,819,495
Interest to end of year	463,416	1,279,324	1,347,022
<b>Total ARC</b>	<b>\$ 17,272,137</b>	<b>\$ 33,262,412</b>	<b>\$ 35,022,583</b>

\* June 30, 2014 Normal Cost and UAL Amortization are as of the middle of the year.

Table III-3 shows the expected benefit payments and retiree contributions through the fiscal year ending June 30, 2025. In calculating the liabilities, we project these figures for the life of each existing participant. This projects the anticipated eligible retirees and the change in both claims and premiums. These benefit payments include the explicit and implicit benefit payments and exclude payments made by retirees towards their premiums.

Table III-3 POLICE				
Fiscal Year Ending June 30,	Expected Net Implicit Benefit Payments	Expected Net Explicit Benefit Payments	Expected Net ACA Benefit Payments	Total Expected Net Benefit Payments
2016	\$ 1,086,710	\$ 8,038,029	\$ -	\$ 9,124,739
2017	1,206,300	8,665,767	-	9,872,067
2018	1,297,110	9,298,876	-	10,595,986
2019	1,486,446	10,009,252	-	11,495,698
2020	1,591,218	10,705,781	-	12,297,000
2021	1,861,044	11,522,940	93,951	13,477,935
2022	2,219,522	12,392,536	125,082	14,737,140
2023	2,563,070	13,273,386	154,506	15,990,963
2024	3,070,097	14,282,770	196,828	17,549,695
2025	3,557,954	15,310,809	233,737	19,102,500

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**POLICE – SECTION III – VALUATION RESULTS**

***Reconciliation***

Table III-4 provides an estimate of the major factors contributing to the change in liability since the last actuarial valuation.

<b>Table III-4</b> <b>POLICE</b> <b>Reconciliation of Actuarial Liability</b>	
Actuarial Liability at July 1, 2013	\$ 191,685,144
Normal Cost at middle of year	7,297,321
Expected Benefit Payments paid throughout the year	(6,529,820)
Interest	10,736,360
Expected Actuarial Liability at July 1, 2014	\$ 203,189,005
Normal Cost at middle of year	7,662,187
Expected Benefit Payments paid throughout the year	(6,893,949)
Interest	11,379,446
Expected Actuarial Liability at July 1, 2015	\$ 215,336,688
Actuarial Liability at July 1, 2015	366,025,819
Gain or (Loss)	\$ (150,689,131)
Gain or (Loss) due to:	
Census changes	\$ (3,501,830)
Change in discount rate	(50,654,836)
Change due to implicit subsidy	(62,805,104)
Change in demographic assumptions	(20,767,169)
Change in claims and trend assumptions	(12,960,192)
Total changes	\$ (150,689,131)

Below is a brief description of each of the above components:

- *Expected Values* refer to the change that would have occurred had experience matched all the assumptions between July 1, 2013 and July 1, 2015.
- *Census Changes* refer to the impact of population changes between July 1, 2013 and July 1, 2015.
- *Change in Discount Rate* refers to the impact that a change in discount rate had on the liability between July 1, 2013 and July 1, 2015. The discount rate was lowered from 5.59% to 4.0%, reflecting the actual amount of payments made to the CERBT in addition to benefits paid.
- *Change due to implicit subsidy* refers to the change in method for valuing “true” cost of providing retiree medical coverage. The true cost of coverage for retirees age 55-64 is greater than the cost of the same coverage for the typical group of active employees. Employers who

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**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**POLICE – SECTION III – VALUATION RESULTS**

treat the cost as being the same often are providing implicit subsidies for retirees. The cost difference, implicit subsidy, is equal to the “true” cost of providing retiree medical coverage minus the average active/retiree cost (i.e. the premium charged). Until recently, an implicit subsidy was assumed to not exist for community rated plans. However, Actuarial Standard of Practice (ASOP) No. 6 modified this assumption, making it necessary to value an implied subsidy cost for these plans effective for actuarial valuations on or after March 31, 2015. Since the City of Oakland participates in the Public Employees' Medical and Hospital Care Act (PEMHCA) plans, which are considered community rated plans, the City has not needed to value an implied subsidy cost until this actuarial valuation.

- *Change in Demographic Assumptions* refers to the change in the rates of retirement, withdrawal, disability retirement, and mortality. These assumptions are used for participants in CalPERS, and are based on the most recent CalPERS Experience Study completed January 2014 and approved by the CalPERS Board in February 2014.
- *Change in Claims and Trend Assumptions* refers to the change in expected current and future healthcare claims and expense costs.



**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**POLICE – SECTION IV – SENSITIVITY**

The liabilities and ARC produced in this report are sensitive to the assumptions used. The tables below show the impact of a 1% increase or decrease in the healthcare trend rates on the GASB actuarial liability and the ARC to provide some measure of sensitivity.

Table IV-1 POLICE Sensitivity to Health Care Trend Rates - Unfunded Actuarial Liability			
Health Care Trend Rate	-1%	Base	+1%
<b>Actuarial Liability</b>			
Active Employees	\$ 124,522,745	\$ 155,031,410	\$ 195,216,857
Retirees and Beneficiaries	185,463,740	210,994,409	242,513,990
Total	\$ 309,986,485	\$ 366,025,819	\$ 437,730,847
Assets	1,163,070	1,163,070	1,163,070
<b>Unfunded Actuarial Liability</b>	<b>\$ 308,823,415</b>	<b>\$ 364,862,749</b>	<b>\$ 436,567,777</b>

Table IV-2 POLICE Sensitivity to Health Care Trend Rates - GASB ARC for FYE 2016			
Health Care Trend Rate	-1%	Base	+1%
Total Normal Cost at beginning of year	\$ 13,346,373	\$ 17,087,144	\$ 22,183,409
UAL Amortization at beginning of year	12,608,074	14,895,944	17,823,385
Interest to End of Year	1,038,178	1,279,324	1,600,272
<b>Total ARC</b>	<b>\$ 26,992,625</b>	<b>\$ 33,262,412</b>	<b>\$ 41,607,066</b>

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**POLICE – SECTION IV – SENSITIVITY**

The tables below show the impact of a 1% increase or decrease in the discount rates on the GASB actuarial liability and the ARC to provide some measure of sensitivity.

<b>Table IV-3</b> <b>POLICE</b> <b>Sensitivity to Discount Rates - Unfunded Actuarial Liability</b>			
<b>Discount Rate</b>	<b>3.00%</b>	<b>4.00%</b>	<b>5.00%</b>
<b>Actuarial Liability</b>			
Active Employees	\$ 189,237,914	\$ 155,031,410	\$ 128,465,817
Retirees and Beneficiaries	245,008,745	210,994,409	184,092,280
Total	\$ 434,246,659	\$ 366,025,819	\$ 312,558,097
Assets	1,163,070	1,163,070	1,163,070
<b>Unfunded Actuarial Liability</b>	<b>\$ 433,083,589</b>	<b>\$ 364,862,749</b>	<b>\$ 311,395,027</b>

<b>Table IV-4</b> <b>POLICE</b> <b>Sensitivity to Discount Rates - GASB ARC for FYE 2016</b>			
<b>Discount Rate</b>	<b>3.00%</b>	<b>4.00%</b>	<b>5.00%</b>
Total Normal Cost at beginning of year	\$ 22,343,863	\$ 17,087,144	\$ 13,226,213
UAL Amortization at beginning of year	15,477,774	14,895,944	14,405,699
Interest to End of Year	1,512,865	1,279,324	1,105,276
<b>Total ARC</b>	<b>\$ 39,334,502</b>	<b>\$ 33,262,412</b>	<b>\$ 28,737,188</b>

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**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**POLICE – SECTION V – ACCOUNTING DISCLOSURES**

**Statements No. 43 and 45 of the Governmental Accounting Standards Board (GASB)** established standards for accounting and financial reporting of Other Postemployment Benefit (OPEB) information by governmental employers and plans. In accordance with those statements, we have prepared the following disclosures.

***Net OPEB Obligation***

The table below shows the development of the Net OPEB Obligation (NOO) for the fiscal years ending June 30, 2014 and June 30, 2015 and projects the Net OPEB Obligation for the fiscal year ending June 30, 2016.

<p style="text-align: center;"><b>Table V-1</b> <b>POLICE</b> <b>Development of Net OPEB Obligation</b></p>			
<b>Fiscal Year Ending</b>	<b>June 30, 2014</b>	<b>June 30, 2015</b>	<b>June 30, 2016</b>
1. Discount rate	5.59%	5.59%	4.00%
2. Net OPEB Obligation (NOO) at beginning of fiscal year	\$ 89,390,999	\$ 99,475,455	\$ 109,889,660
3. Annual Required Contribution (ARC)	\$ 17,272,137	\$ 17,272,137	\$ 33,262,412
4. Interest on NOO at discount rate to end of fiscal year	4,996,957	5,560,678	4,395,586
5. Adjustment to the ARC	4,557,862	4,557,862	4,665,828
6. Annual OPEB Cost (3) + (4) - (5)	\$ 17,711,232	\$ 18,274,953	\$ 32,992,171
7. Net employer contribution			
Contributions to CERBT	\$ 925,958	\$ 239,161	\$ 400,000
Net Benefit Payments	6,700,818	7,621,587	9,124,739
Total	\$ 7,626,776	\$ 7,860,747	\$ 9,524,739
8. Change in Net OPEB Obligation (6) - (7)	\$ 10,084,456	\$ 10,414,206	\$ 23,467,432
<b>9. Net OPEB Obligation at end of fiscal year (2) + (8)</b>	<b>\$ 99,475,455</b>	<b>\$ 109,889,660</b>	<b>\$ 133,357,092</b>

*\* June 30, 2014 results are from prior actuary, while June 30, 2015 results are from the City's June 30, 2015 CAFR.*

The Net OPEB Obligation (NOO) at June 30, 2015 was provided in the City's June 30, 2015 Comprehensive Annual Financial Report. The Annual Required Contribution for the fiscal year ending June 30, 2016 is based on the July 1, 2015 valuation. The interest on Net OPEB Obligation is calculated using the assumed discount rate as shown in the table. The adjustment to the ARC is an open 30-year level percent of payroll amortization of the NOO. The employer contributions were provided by the City for the fiscal year ending June 30, 2015 and are assumed to equal the explicit benefit payments, the estimated implicit subsidy and the actual contribution to the CERBT in fiscal year ending June 30, 2016.

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**POLICE – SECTION V – ACCOUNTING DISCLOSURES**

***Schedule of Funding Progress***

The schedule of funding progress compares the assets used for funding purposes to the comparable liabilities to determine how well the Plan is funded and how this status has changed over the past several years. The actuarial liability is compared to the actuarial value of assets to determine the funding ratio. The actuarial liability under GASB is determined assuming that the Plan is ongoing and participants continue to terminate employment, retire, etc., in accordance with the actuarial assumptions.

<b>Table V-2</b> <b>POLICE</b> <b>Schedule of Funding Progress *</b>						
Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Liability (b)	Unfunded Actuarial Liability (UAL) (b-a)	Funded Ratio (a/b)	Annual Covered Payroll (c)	UAL as Percentage of Covered Payroll ((b-a)/c)
7/1/2015	\$ 1,163,070	\$ 366,025,819	\$ 364,862,749	0%	\$ 114,085,254	319.8%
7/1/2013	0	191,685,144	191,685,144	0%	100,628,250	190.5%
7/1/2012	0	231,558,435	231,558,435	0%	98,703,132	234.6%
7/1/2010	0	210,589,599	210,589,599	0%	92,858,584	226.8%

\* Figures prior to July 1, 2015 calculated by prior actuary

***Schedule of Employer Contributions***

The schedule of employer contributions shows whether the employer has made contributions that are consistent with the parameters established by GASB for calculating the ARC and the Annual OPEB Cost.

<b>Table V-3</b> <b>POLICE</b> <b>Schedule of Employer Contributions *</b>					
Fiscal Year Ending	Annual OPEB Cost (AOC)	City Contributions	Percentage of AOC Contributed	Net OPEB Obligation	
2016	\$ 32,992,171	\$ 9,524,739	29%	\$ 133,357,092	
2015	18,274,953	7,860,747	43%	109,889,660	
2014	17,711,232	7,626,776	43%	99,475,455	
2013	20,618,453	6,541,945	32%	89,390,999	
2012	20,842,480	5,937,459	28%	75,314,491	

\* Figures prior to FYE 6/30/2016 calculated by the prior actuary.

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**POLICE – SECTION V – ACCOUNTING DISCLOSURES**

We have also provided a *Note to Required Supplementary Information* for the financial statements in Table V-4.

Table V-4 POLICE NOTE TO REQUIRED SUPPLEMENTARY INFORMATION	
The information presented in the required supplementary schedules was determined as part of the actuarial valuation at the date indicated. Additional information as of the latest actuarial valuation follows.	
Valuation Date	July 1, 2015
Actuarial Cost Method	Entry Age Normal
Amortization Method	Level Percentage of Pay, Open Period
Remaining Amortization Period	30 years
Asset Valuation Method	Market Value
Actuarial Assumptions:	
Blended Discount Rate	4.00%
Investment Rate of Return	7.28%
Expected Return on City Assets	3.80%
Rate of Salary Increases used for amortization of the UAL	2.50%
Ultimate Rate of Medical Inflation	4.50%
Years to Ultimate Rate of Medical Inflation	20 years
Inflation	2.50%

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**FIRE – SECTION I – SUMMARY**

***Funding Policy***

The City's funding policy is to partially pre-fund the actuarially determined Other Postemployment Benefits (OPEB) costs, which include both normal costs and amortization of unfunded actuarial liability, by contributing to the California Employers' Retiree Benefit Trust (CERBT) sponsored by CalPERS. The CERBT Fund is a Section 115 trust fund dedicated to prefunding Other Postemployment Benefits (OPEB) for all eligible California public agencies. The City expects to contribute \$0.3 million to the CERBT annually in addition to the benefit payments for retirees currently with medical coverage.

***Valuation Results***

The table below presents the key results of the July 1, 2015 valuation compared to those of the last actuarial valuation as of July 1, 2013.

<b>Table I-1</b> <b>FIRE</b> <b>Summary of Key Valuation Results</b>		
	<b>July 1, 2013</b>	<b>July 1, 2015</b>
Actuarial Liability (AL)	\$ 124,897,686	\$ 232,600,579
Assets	0	779,594
Unfunded Actuarial Liability (UAL)	\$ 124,897,686	\$ 231,820,985
<b>Fiscal Year Ending</b>	<b>June 30, 2014</b>	<b>June 30, 2016</b>
Annual Required Contribution	\$ 10,795,250	\$ 19,586,655
Actual / Expected Contribution	\$ 5,116,639	\$ 7,000,263
Expected Net Explicit Benefit Payments	\$ 4,848,908	\$ 5,279,045
Expected Net Implicit Benefit Payments	N/A	1,421,219
Expected Net Total Benefit Payments	\$ 4,848,908	\$ 6,700,263
Actual / Expected Net OPEB Obligation at End of Fiscal Year	\$ 59,230,449	\$ 77,760,791
Discount Rate	5.59%	4.00%

This report reflects claims, premiums and expenses determined as of July 1, 2015. There have been no significant changes in experience, population or plan design since the last valuation. However, there were changes in assumptions since the prior valuation which had an effect on the costs of the Plan.

Additionally, an implicit subsidy was first valued for this actuarial valuation. An implicit subsidy measures the actual cost per participant against the charged cost, or premium. Until recently, an implicit subsidy was assumed to not exist for community rated plans. However, Actuarial Standard of Practice (ASOP) No. 6 modified this assumption, making it necessary to value an implied subsidy cost for these plans effective for actuarial valuations on or after March 31, 2015. Since the City of Oakland participates in the Public Employees' Medical and Hospital Care Act (PEMHCA) plans, which are considered community rated plans, the City has not needed to value an implied subsidy cost until this actuarial valuation.

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**FIRE – SECTION I – SUMMARY**

The Annual Required Contribution (ARC) for the fiscal year ending June 30, 2016 increased by \$8.6 million over the expected ARC due to the following: \$4.1 million due to a change in the discount rate to align with the City's contribution practices, \$3.6 million due to recognizing the implicit subsidy, \$0.2 million due to changes in future expected decrements, and \$0.7 million due to changes in anticipated healthcare costs and their increases.

The Unfunded Actuarial Liability (UAL) increased by approximately \$95 million over the expected UAL. More detail on the causes of this change can be found in the valuation results section of this report.

The figures provided in this report are highly sensitive to the assumptions used.

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**FIRE – SECTION II – ASSETS**

The Plan's preceding valuation of liabilities was performed as of July 1, 2013. Table II-1 below shows the reconciliation of assets for the fiscal year ending July 1, 2015 that were used to develop the FYE 2016 ARC. Assets were allocated based on the percentage of the Actuarial Liability associated with the Fire members. The market value of assets returned -0.2% during the year. Benefit payments are net of the retiree premiums payable for coverage. The City is expected to contribute \$0.3 million to the CERBT on an annual basis.

<b>Table II-1</b>	
<b>FIRE</b>	
<b>Reconciliation of Assets</b>	
<b>Valuation Assets as of July 1, 2013</b>	<b>\$ 0</b>
Contributions - to CERBT	603,333
Contributions - net benefit payments	5,116,639
Net Benefit Payments	(5,116,639)
Net Investment Earnings	0
<b>Valuation Assets as of July 1, 2014</b>	<b>\$ 603,333</b>
Contributions - to CERBT	177,596
Contributions - net benefit payments	5,106,864
Net Benefit Payments	(5,106,864)
Net Investment Earnings	(1,335)
<b>Valuation Assets as of July 1, 2015</b>	<b>\$ 779,594</b>



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**FIRE – SECTION III – VALUATION RESULTS**

This section of the report calculates the current and expected future contribution requirements under the City's funding policy. Table III-1 below shows the actuarial liabilities for the Plan as of July 1, 2013 and July 1, 2015, as well as expected amounts as of July 1, 2016. The expected results were calculated using standard roll-forward techniques. Asset projections were calculated based on an assumed 7.28% rate of return and assuming the expected benefits along with an additional \$0.3 million contribution to the CERBT will be paid in the year ending June 30, 2016.

<b>Table III-1</b> <b>FIRE</b> <b>Unfunded Actuarial Liability Fire</b>			
	<b>July 1, 2013</b>	<b>July 1, 2015</b>	<b>Projected to July 1, 2016</b>
<b>Present Value of Future Benefits</b>			
Active Employees	\$ 108,587,693	\$ 233,988,105	\$ 243,347,629
Retirees and Beneficiaries	61,162,692	111,209,256	108,824,671
<b>Total</b>	<b>\$ 169,750,385</b>	<b>\$ 345,197,361</b>	<b>\$ 352,172,301</b>
<b>Actuarial Liability</b>			
Active Employees	\$ 63,734,994	\$ 121,391,323	\$ 135,990,696
Retirees and Beneficiaries	61,162,692	111,209,256	108,824,671
<b>Total</b>	<b>\$ 124,897,686</b>	<b>\$ 232,600,579</b>	<b>\$ 244,815,368</b>
<b>Assets</b>	<b>0</b>	<b>779,594</b>	<b>1,136,349</b>
<b>Unfunded Actuarial Liability (UAL)</b>	<b>\$ 124,897,686</b>	<b>\$ 231,820,985</b>	<b>\$ 243,679,019</b>
<b>Funded Ratio</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>
<b>Covered Payroll</b>	<b>\$ 61,723,369</b>	<b>\$ 74,501,036</b>	<b>\$ 76,363,562</b>
<b>UAL as percentage of Covered Payroll</b>	<b>202%</b>	<b>311%</b>	<b>319%</b>

Please note, however, that GASB only requires disclosure of the above actuarial liability in the notes to financial statements and does not require immediate recognition of the entire liability on the balance sheet. GASB's requirement is to book the Annual OPEB Cost (the ARC adjusted for the difference between the amortization of the NOO and interest on the NOO), and the cumulative difference between the Annual OPEB Cost and actual contributions, beginning in the FYE June 30, 2008, as the NOO on the balance sheet.

The ARC consists of two parts: (1) the *normal cost*, which represents the annual cost attributable to service earned in a given year and (2) the 30-year open amortization of the UAL as a level percentage of payroll. Under the City's current funding policy, the City intends to contribute \$0.3 million to the CERBT and pay benefit payments outside of the CERBT. The difference between the actual contributions made (benefits provided plus additional contributions to the CERBT) and the Annual OPEB Cost is the increase in expense on the financial statements of the City.

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**FIRE – SECTION III – VALUATION RESULTS**

In Table III-2 below, we show the FYE 2014, FYE 2016, and the expected FYE 2017 Annual Required Contribution under the City's funding policy. The assumed discount rate was 5.59% for the fiscal year end 2014 and 4.0% for the fiscal year end 2016 and 2017. It is assumed the City's funding policy is to pay \$0.3 million to the CERBT annually in addition to benefits paid outside of the CERBT. The UAL amortization is based on an open 30-year amortization period.

Table III-2 FIRE GASB ARC			
Fiscal Year Ending	June 30, 2014	June 30, 2016	Projected to June 30, 2017
Normal Cost at beginning of year *	\$ 4,308,199	\$ 9,368,962	\$ 9,790,565
UAL Amortization at beginning of year *	6,197,412	9,464,360	9,948,478
Interest to end of year	289,639	753,333	789,562
<b>Total ARC</b>	<b>\$ 10,795,250</b>	<b>\$ 19,586,655</b>	<b>\$ 20,528,605</b>

\* June 30, 2014 Normal Cost and UAL Amortization are as of the middle of the year.

Table III-3 shows the expected benefit payments and retiree contributions through the fiscal year ending June 30, 2025. In calculating the liabilities, we project these figures for the life of each existing participant. This projects the anticipated eligible retirees and the change in both claims and premiums. These benefit payments include the explicit and implicit benefit payments and exclude payments made by retirees towards their premiums.

Table III-3 FIRE				
Fiscal Year Ending June 30,	Expected Net Implicit Benefit Payments	Expected Net Explicit Benefit Payments	Expected Net ACA Benefit Payments	Total Expected Net Benefit Payments
2016	\$ 1,421,219	\$ 5,279,045	\$ -	\$ <b>6,700,263</b>
2017	1,486,264	5,672,632	-	<b>7,158,895</b>
2018	1,518,171	6,039,964	-	<b>7,558,135</b>
2019	1,701,893	6,515,923	-	<b>8,217,815</b>
2020	1,798,149	6,962,071	-	<b>8,760,220</b>
2021	1,880,564	7,382,993	36,443	<b>9,300,000</b>
2022	1,849,310	7,745,538	44,205	<b>9,639,053</b>
2023	2,036,938	8,297,108	58,144	<b>10,392,190</b>
2024	2,249,087	8,890,182	75,198	<b>11,214,467</b>
2025	2,355,201	9,451,148	89,695	<b>11,896,045</b>

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**FIRE – SECTION III – VALUATION RESULTS**

***Reconciliation***

Table III-4 provides an estimate of the major factors contributing to the change in liability since the last actuarial valuation.

Table III-4 FIRE Reconciliation of Actuarial Liability	
Actuarial Liability at July 1, 2013	\$ 124,897,686
Normal Cost at middle of year	4,308,199
Expected Benefit Payments paid throughout the year	(4,848,908)
Interest	6,966,873
Expected Actuarial Liability at July 1, 2014	\$ 131,323,850
Normal Cost at middle of year	4,523,609
Expected Benefit Payments paid throughout the year	(5,156,264)
Interest	7,323,561
Expected Actuarial Liability at July 1, 2015	\$ 138,014,756
Actuarial Liability at July 1, 2015	232,600,579
Gain or (Loss)	\$ (94,585,823)
Gain or (Loss) due to:	
Census changes	\$ (923,651)
Change in discount rate	(30,502,418)
Change due to implicit subsidy	(40,119,436)
Change in demographic assumptions	(11,865,436)
Change in claims and trend assumptions	(11,174,882)
Total changes	\$ (94,585,823)

Below is a brief description of each of the above components:

- *Expected Values* refer to the change that would have occurred had experience matched all the assumptions between July 1, 2013 and July 1, 2015.
- *Census Changes* refer to the impact of population changes between July 1, 2013 and July 1, 2015.
- *Change in Discount Rate* refers to the impact that a change in discount rate had on the liability between July 1, 2013 and July 1, 2015. The discount rate was lowered from 5.59% to 4.0%, reflecting the actual amount of payments made to the CERBT in addition to benefits paid.
- *Change due to implicit subsidy* refers to the change in method for valuing “true” cost of providing retiree medical coverage. The true cost of coverage for retirees age 55-64 is greater than the cost of the same coverage for the typical group of active employees. Employers who

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**FIRE – SECTION III – VALUATION RESULTS**

treat the cost as being the same often are providing implicit subsidies for retirees. The cost difference, implicit subsidy, is equal to the “true” cost of providing retiree medical coverage minus the average active/retiree cost (i.e. the premium charged). Until recently, an implicit subsidy was assumed to not exist for community rated plans. However, Actuarial Standard of Practice (ASOP) No. 6 modified this assumption, making it necessary to value an implied subsidy cost for these plans effective for actuarial valuations on or after March 31, 2015. Since the City of Oakland participates in the Public Employees' Medical and Hospital Care Act (PEMHCA) plans, which are considered community rated plans, the City has not needed to value an implied subsidy cost until this actuarial valuation.

- *Change in Demographic Assumptions* refers to the change in the rates of retirement, withdrawal, disability retirement, and mortality. These assumptions are used for participants in CalPERS, and are based on the most recent CalPERS Experience Study completed January 2014 and approved by the CalPERS Board in February 2014.
- *Change in Claims and Trend Assumptions* refers to the change in expected current and future healthcare claims and expense costs.

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**FIRE – SECTION IV – SENSITIVITY**

The liabilities and ARC produced in this report are sensitive to the assumptions used. The tables below show the impact of a 1% increase or decrease in the healthcare trend rates on the GASB actuarial liability and the ARC to provide some measure of sensitivity.

Table IV-1 FIRE Sensitivity to Health Care Trend Rates - Unfunded Actuarial Liability			
Health Care Trend Rate	-1%	Base	+1%
<b>Actuarial Liability</b>			
Active Employees	\$ 99,049,108	\$ 121,391,323	\$ 150,139,930
Retirees and Beneficiaries	99,031,898	111,209,256	125,793,504
Total	\$ 198,081,006	\$ 232,600,579	\$ 275,933,434
Assets	779,594	779,594	779,594
<b>Unfunded Actuarial Liability</b>	<b>\$ 197,301,412</b>	<b>\$ 231,820,985</b>	<b>\$ 275,153,840</b>

Table IV-2 FIRE Sensitivity to Health Care Trend Rates - GASB ARC for FYE 2016			
Health Care Trend Rate	-1%	Base	+1%
Total Normal Cost at beginning of year	\$ 7,511,824	\$ 9,368,962	\$ 11,811,967
UAL Amortization at beginning of year	8,055,059	9,464,360	11,233,474
Interest to End of Year	622,675	753,333	921,818
<b>Total ARC</b>	<b>\$ 16,189,558</b>	<b>\$ 19,586,655</b>	<b>\$ 23,967,259</b>

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**FIRE – SECTION IV – SENSITIVITY**

The tables below show the impact of a 1% increase or decrease in the discount rates on the GASB actuarial liability and the ARC to provide some measure of sensitivity.

Table IV-3 FIRE Sensitivity to Discount Rates - Unfunded Actuarial Liability			
Discount Rate	3.00%	4.00%	5.00%
<b>Actuarial Liability</b>			
Active Employees	\$ 146,869,231	\$ 121,391,323	\$ 101,455,399
Retirees and Beneficiaries	126,380,202	111,209,256	98,849,910
Total	\$ 273,249,433	\$ 232,600,579	\$ 200,305,309
Assets	779,594	779,594	779,594
<b>Unfunded Actuarial Liability</b>	<b>\$ 272,469,839</b>	<b>\$ 231,820,985</b>	<b>\$ 199,525,715</b>

Table IV-4 FIRE Sensitivity to Discount Rates - GASB ARC for FYE 2016			
Discount Rate	3.00%	4.00%	5.00%
Total Normal Cost at beginning of year	\$ 12,240,067	\$ 9,368,962	\$ 7,250,622
UAL Amortization at beginning of year	9,737,673	9,464,360	9,230,422
Interest to End of Year	879,110	753,333	659,242
<b>Total ARC</b>	<b>\$ 22,856,850</b>	<b>\$ 19,586,655</b>	<b>\$ 17,140,286</b>

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**FIRE – SECTION V – ACCOUNTING DISCLOSURES**

**Statements No. 43 and 45 of the Governmental Accounting Standards Board (GASB)** established standards for accounting and financial reporting of Other Postemployment Benefit (OPEB) information by governmental employers and plans. In accordance with those statements, we have prepared the following disclosures.

***Net OPEB Obligation***

The table below shows the development of the Net OPEB Obligation (NOO) for the fiscal years ending June 30, 2014 and June 30, 2015 and projects the Net OPEB Obligation for the fiscal year ending June 30, 2016.

<b>Table V-1</b> <b>FIRE</b> <b>Development of Net OPEB Obligation</b>			
<b>Fiscal Year Ending</b>	<b>June 30, 2014</b>	<b>June 30, 2015</b>	<b>June 30, 2016</b>
1. Discount rate	5.59%	5.59%	4.00%
2. Net OPEB Obligation (NOO) at beginning of fiscal year	\$ 53,290,074	\$ 59,230,449	\$ 65,335,071
3. Annual Required Contribution (ARC)	\$ 10,795,250	\$ 10,795,250	\$ 19,586,655
4. Interest on NOO at discount rate to end of fiscal year	2,978,915	3,310,982	2,613,403
5. Adjustment to the ARC	2,717,151	2,717,151	2,774,075
6. Annual OPEB Cost (3) + (4) - (5)	\$ 11,057,014	\$ 11,389,081	\$ 19,425,983
7. Net employer contribution			
Contributions to CERBT	\$ 603,333	\$ 177,596	\$ 300,000
Net Benefit Payments	4,513,306	5,106,864	6,700,263
Total	\$ 5,116,639	\$ 5,284,459	\$ 7,000,263
8. Change in Net OPEB Obligation (6) - (7)	\$ 5,940,375	\$ 6,104,622	\$ 12,425,720
<b>9. Net OPEB Obligation at end of fiscal year (2) + (8)</b>	<b>\$ 59,230,449</b>	<b>\$ 65,335,071</b>	<b>\$ 77,760,791</b>

\* June 30, 2014 results are from prior actuary, while June 30, 2015 results are from the City's June 30, 2015 CAFR.

The Net OPEB Obligation (NOO) at June 30, 2015 was provided in the City's June 30, 2015 Comprehensive Annual Financial Report. The Annual Required Contribution for the fiscal year ending June 30, 2016 is based on the July 1, 2015 valuation. The interest on Net OPEB Obligation is calculated using the assumed discount rate as shown in the table. The adjustment to the ARC is an open 30-year level percent of payroll amortization of the NOO. The employer contributions were provided by the City for the fiscal year ending June 30, 2015 and are assumed to equal the explicit benefit payments, the estimated implicit subsidy and the actual contribution to the CERBT in fiscal year ending June 30, 2016.

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**FIRE – SECTION V – ACCOUNTING DISCLOSURES**

***Schedule of Funding Progress***

The schedule of funding progress compares the assets used for funding purposes to the comparable liabilities to determine how well the Plan is funded and how this status has changed over the past several years. The actuarial liability is compared to the actuarial value of assets to determine the funding ratio. The actuarial liability under GASB is determined assuming that the Plan is ongoing and participants continue to terminate employment, retire, etc., in accordance with the actuarial assumptions.

<b>Table V-2</b> <b>FIRE</b> <b>Schedule of Funding Progress *</b>						
Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Liability (b)	Unfunded Actuarial Liability (UAL) (b-a)	Funded Ratio (a/b)	Annual Covered Payroll (c)	UAL as Percentage of Covered Payroll ((b-a)/c)
7/1/2015	\$ 779,594	\$ 232,600,579	\$ 231,820,985	0%	\$ 74,501,036	311.2%
7/1/2013	0	124,897,686	124,897,686	0%	61,723,369	202.4%
7/1/2012	0	149,352,503	149,352,503	0%	60,205,139	248.1%
7/1/2010	0	143,045,373	143,045,373	0%	63,739,551	224.4%

*\* Figures prior to July 1, 2015 calculated by prior actuary*

***Schedule of Employer Contributions***

The schedule of employer contributions shows whether the employer has made contributions that are consistent with the parameters established by GASB for calculating the ARC and the Annual OPEB Cost.

<b>Table V-3</b> <b>FIRE</b> <b>Schedule of Employer Contributions *</b>					
Fiscal Year Ending	Annual OPEB Cost (AOC)	City Contributions	Percentage of AOC Contributed	Net OPEB Obligation	
2016	\$ 19,425,983	\$ 7,000,263	36%	\$ 77,760,791	
2015	11,389,081	5,284,459	46%	65,335,071	
2014	11,057,014	5,116,639	46%	59,230,449	
2013	12,792,606	4,761,138	37%	53,290,074	
2012	12,352,016	4,470,622	36%	45,258,606	

*\* Figures prior to FYE 6/30/2016 calculated by the prior actuary.*



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**FIRE – SECTION V – ACCOUNTING DISCLOSURES**

We have also provided a *Note to Required Supplementary Information* for the financial statements in Table V-4.

<b>Table V-4</b>	
<b>FIRE</b>	
<b>NOTE TO REQUIRED SUPPLEMENTARY INFORMATION</b>	
The information presented in the required supplementary schedules was determined as part of the actuarial valuation at the date indicated. Additional information as of the latest actuarial valuation follows.	
Valuation Date	July 1, 2015
Actuarial Cost Method	Entry Age Normal
Amortization Method	Level Percentage of Pay, Open Period
Remaining Amortization Period	30 years
Asset Valuation Method	Market Value
Actuarial Assumptions:	
Blended Discount Rate	4.00%
Investment Rate of Return	7.28%
Expected Return on City Assets	3.80%
Rate of Salary Increases used for amortization of the UAL	2.50%
Ultimate Rate of Medical Inflation	4.50%
Years to Ultimate Rate of Medical Inflation	20 years
Inflation	2.50%

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**MISCELLANEOUS – SECTION I – SUMMARY**

***Funding Policy***

The City's funding policy is to partially pre-fund the actuarially determined Other Postemployment Benefits (OPEB) costs, which include both normal costs and amortization of unfunded actuarial liability, by contributing to the California Employers' Retiree Benefit Trust (CERBT) sponsored by CalPERS. The CERBT Fund is a Section 115 trust fund dedicated to prefunding Other Postemployment Benefits (OPEB) for all eligible California public agencies. The City expects to contribute \$0.4 million to the CERBT annually in addition to the benefit payments for retirees currently with medical coverage.

***Valuation Results***

The table below presents the key results of the July 1, 2015 valuation compared to those of the last actuarial valuation as of July 1, 2013.

<b>Table I-1</b> <b>MISCELLANEOUS</b> <b>Summary of Key Valuation Results</b>		
	<b>July 1, 2013</b>	<b>July 1, 2015</b>
Actuarial Liability (AL)	\$ 147,268,114	\$ 264,265,244
Assets	0	958,682
Unfunded Actuarial Liability (UAL)	\$ 147,268,114	\$ 263,306,562
<b>Fiscal Year Ending</b>	<b>June 30, 2014</b>	<b>June 30, 2016</b>
Annual Required Contribution	\$ 11,350,762	\$ 21,245,112
Actual / Expected Contribution	\$ 7,889,535	\$ 8,834,797
Expected Net Explicit Benefit Payments	\$ 6,794,635	\$ 6,177,373
Expected Net Implicit Benefit Payments	N/A	2,257,424
Expected Net Total Benefit Payments	\$ 6,794,635	\$ 8,434,797
Actual / Expected Net OPEB Obligation at End of Fiscal Year	\$ 76,388,916	\$ 93,906,182
Discount Rate	5.59%	4.00%

This report reflects claims, premiums and expenses determined as of July 1, 2015. There have been no significant changes in experience, population or plan design since the last valuation. However, there were changes in assumptions since the prior valuation which had an effect on the costs of the Plan.

Additionally, an implicit subsidy was first valued for this actuarial valuation. An implicit subsidy measures the actual cost per participant against the charged cost, or premium. Until recently, an implicit subsidy was assumed to not exist for community rated plans. However, Actuarial Standard of Practice (ASOP) No. 6 modified this assumption, making it necessary to value an implied subsidy cost for these plans effective for actuarial valuations on or after March 31, 2015. Since the City of Oakland participates in the Public Employees' Medical and Hospital Care Act

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**MISCELLANEOUS – SECTION I – SUMMARY**

(PEMHCA) plans, which are considered community rated plans, the City has not needed to value an implied subsidy cost until this actuarial valuation.

The Annual Required Contribution (ARC) for the fiscal year ending June 30, 2016 increased by \$10.2 million over the expected ARC due to the following: a decrease of \$0.7 million due to the covered population, \$4.0 million due to a change in the discount rate to align with the City's contribution practices, \$5.5 million due to recognizing the implicit subsidy, \$1.1 million due to changes in future expected decrements, and \$0.3 million due to changes in anticipated health care costs and their increases.

The Unfunded Actuarial Liability (UAL) increased by approximately \$107 million over the expected UAL. More detail on the causes of this change can be found in the valuation results section of this report.

The figures provided in this report are highly sensitive to the assumptions used.

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**MISCELLANEOUS – SECTION II – ASSETS**

The Plan's preceding valuation of liabilities was performed as of July 1, 2013. Table II-1 below shows the reconciliation of assets for the fiscal year ending July 1, 2015 that were used to develop the FYE 2016 ARC. Assets were allocated based on the percentage of the Actuarial Liability associated with the Miscellaneous members. The market value of assets returned -0.2% during the year. Benefit payments are net of the retiree premiums payable for coverage. The City is expected to contribute \$0.4 million to the CERBT on an annual basis.

<b>Table II-1</b> <b>MISCELLANEOUS</b> <b>Reconciliation of Assets</b>	
<b>Valuation Assets as of July 1, 2013</b>	<b>\$ 0</b>
Contributions - to CERBT	711,396
Contributions - net benefit payments	7,889,535
Net Benefit Payments	(7,889,535)
Net Investment Earnings	0
<b>Valuation Assets as of July 1, 2014</b>	<b>\$ 711,396</b>
Contributions - to CERBT	248,860
Contributions - net benefit payments	6,363,926
Net Benefit Payments	(6,363,926)
Net Investment Earnings	(1,574)
<b>Valuation Assets as of July 1, 2015</b>	<b>\$ 958,682</b>

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**MISCELLANEOUS – SECTION III – VALUATION RESULTS**

This section of the report calculates the current and expected future contribution requirements under the City's funding policy. Table III-1 below shows the actuarial liabilities for the Plan as of July 1, 2013 and July 1, 2015, as well as expected amounts as of July 1, 2016. The expected results were calculated using standard roll-forward techniques. Asset projections were calculated based on an assumed 7.28% rate of return and assuming the expected benefits along with an additional \$0.4 million contribution to the CERBT will be paid in the year ending June 30, 2016.

<b>Table III-1</b> <b>MISCELLANEOUS</b> <b>Unfunded Actuarial Liability Miscellaneous</b>			
	<b>July 1, 2013</b>	<b>July 1, 2015</b>	<b>Projected to July 1, 2016</b>
<b>Present Value of Future Benefits</b>			
Active Employees	\$ 102,862,464	\$ 227,471,264	\$ 236,570,115
Retirees and Beneficiaries	<u>71,531,693</u>	<u>122,550,804</u>	<u>118,850,997</u>
Total	\$ 174,394,157	\$ 350,022,068	\$ 355,421,112
<b>Actuarial Liability</b>			
Active Employees	\$ 75,736,421	\$ 141,714,440	\$ 157,448,342
Retirees and Beneficiaries	<u>71,531,693</u>	<u>122,550,804</u>	<u>118,850,997</u>
Total	\$ 147,268,114	\$ 264,265,244	\$ 276,299,340
Assets	<u>0</u>	<u>958,682</u>	<u>1,428,474</u>
<b>Unfunded Actuarial Liability (UAL)</b>	<b>\$ 147,268,114</b>	<b>\$ 263,306,562</b>	<b>\$ 274,870,865</b>
Funded Ratio	0%	0%	1%
Covered Payroll	\$ 159,818,174	\$ 172,271,560	\$ 176,578,349
UAL as percentage of Covered Payroll	92%	153%	156%

Please note, however, that GASB only requires disclosure of the above actuarial liability in the notes to financial statements and does not require immediate recognition of the entire liability on the balance sheet. GASB's requirement is to book the Annual OPEB Cost (the ARC adjusted for the difference between the amortization of the NOO and interest on the NOO), and the cumulative difference between the Annual OPEB Cost and actual contributions, beginning in the FYE June 30, 2008, as the NOO on the balance sheet.

The ARC consists of two parts: (1) the *normal cost*, which represents the annual cost attributable to service earned in a given year and (2) the 30-year open amortization of the UAL as a level percentage of payroll. Under the City's current funding policy, the City intends to contribute \$0.4 million to the CERBT and pay benefit payments outside of the CERBT. The difference between the actual contributions made (benefits provided plus additional contributions to the CERBT) and the Annual OPEB Cost is the increase in expense on the financial statements of the City.

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**MISCELLANEOUS – SECTION III – VALUATION RESULTS**

In Table III-2 below, we show the FYE 2014, FYE 2016, and the expected FYE 2017 Annual Required Contribution under the City's funding policy. The assumed discount rate was 5.59% for the fiscal year end 2014 and 4.0% for the fiscal year end 2016 and 2017. It is assumed the City's funding policy is to pay \$0.4 million to the CERBT annually in addition to benefits paid outside of the CERBT. The UAL amortization is based on an open 30-year amortization period.

<b>Table III-2</b> <b>MISCELLANEOUS</b> <b>GASB ARC</b>			
<b>Fiscal Year Ending</b>	<b>June 30, 2014</b>	<b>June 30, 2016</b>	<i>Projected to</i> <b>June 30, 2017</b>
Normal Cost at beginning of year *	\$ 3,738,787	\$ 9,678,197	\$ 10,113,716
UAL Amortization at beginning of year *	7,307,431	10,749,795	11,221,921
Interest to end of year	304,544	817,120	853,425
<b>Total ARC</b>	<b>\$ 11,350,762</b>	<b>\$ 21,245,112</b>	<b>\$ 22,189,062</b>

\* June 30, 2014 Normal Cost and UAL Amortization are as of the middle of the year.

Table III-3 shows the expected benefit payments and retiree contributions through the fiscal year ending June 30, 2025. In calculating the liabilities, we project these figures for the life of each existing participant. This projects the anticipated eligible retirees and the change in both claims and premiums. These benefit payments include the explicit and implicit benefit payments and exclude payments made by retirees towards their premiums.

<b>Table III-3</b> <b>MISCELLANEOUS</b>				
<b>Fiscal Year</b> <b>Ending June 30,</b>	<b>Expected Net</b> <b>Implicit Benefit</b> <b>Payments</b>	<b>Expected Net</b> <b>Explicit Benefit</b> <b>Payments</b>	<b>Expected Net</b> <b>ACA Benefit</b> <b>Payments</b>	<b>Total Expected</b> <b>Net Benefit</b> <b>Payments</b>
2016	\$ 2,257,424	\$ 6,177,373	\$ -	\$ <b>8,434,797</b>
2017	2,474,866	6,841,960	-	<b>9,316,826</b>
2018	2,634,230	7,504,838	-	<b>10,139,068</b>
2019	2,889,215	8,244,678	-	<b>11,133,893</b>
2020	3,125,951	8,965,695	-	<b>12,091,646</b>
2021	3,443,991	9,718,660	60,297	<b>13,222,948</b>
2022	3,560,288	10,461,909	81,219	<b>14,103,416</b>
2023	3,834,668	11,235,834	108,572	<b>15,179,074</b>
2024	4,135,423	11,996,773	133,839	<b>16,266,035</b>
2025	4,296,058	12,790,151	154,427	<b>17,240,635</b>

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**MISCELLANEOUS – SECTION III – VALUATION RESULTS**

***Reconciliation***

Table III-4 provides an estimate of the major factors contributing to the change in liability since the last actuarial valuation.

<b>Table III-4</b> <b>MISCELLANEOUS</b> <b>Reconciliation of Actuarial Liability</b>	
Actuarial Liability at July 1, 2013	\$ 147,268,114
Normal Cost at middle of year	3,738,787
Expected Benefit Payments paid throughout the year	(6,794,635)
Interest	8,148,038
Expected Actuarial Liability at July 1, 2014	\$ 152,360,304
Normal Cost at middle of year	3,925,726
Expected Benefit Payments paid throughout the year	(7,225,855)
Interest	8,425,957
Expected Actuarial Liability at July 1, 2015	\$ 157,486,132
Actuarial Liability at July 1, 2015	264,265,244
Gain or (Loss)	\$ (106,779,112)
Gain or (Loss) due to:	
Census changes	\$ 1,509,196
Change in discount rate	(35,033,172)
Change due to implicit subsidy	(61,378,990)
Change in demographic assumptions	(6,234,154)
Change in claims and trend assumptions	(5,641,992)
Total changes	\$ (106,779,112)

Below is a brief description of each of the above components:

- *Expected Values* refer to the change that would have occurred had experience matched all the assumptions between July 1, 2013 and July 1, 2015.
- *Census Changes* refer to the impact of population changes between July 1, 2013 and July 1, 2015.
- *Change in Discount Rate* refers to the impact that a change in discount rate had on the liability between July 1, 2013 and July 1, 2015. The discount rate was lowered from 5.59% to 4.0%, reflecting the actual amount of payments made to the CERBT in addition to benefits paid.
- *Change due to implicit subsidy* refers to the change in method for valuing “true” cost of providing retiree medical coverage. The true cost of coverage for retirees age 55-64 is greater than the cost of the same coverage for the typical group of active employees. Employers who

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**MISCELLANEOUS – SECTION III – VALUATION RESULTS**

treat the cost as being the same often are providing implicit subsidies for retirees. The cost difference, implicit subsidy, is equal to the “true” cost of providing retiree medical coverage minus the average active/retiree cost (i.e. the premium charged). Until recently, an implicit subsidy was assumed to not exist for community rated plans. However, Actuarial Standard of Practice (ASOP) No. 6 modified this assumption, making it necessary to value an implied subsidy cost for these plans effective for actuarial valuations on or after March 31, 2015. Since the City of Oakland participates in the Public Employees' Medical and Hospital Care Act (PEMHCA) plans, which are considered community rated plans, the City has not needed to value an implied subsidy cost until this actuarial valuation.

- *Change in Demographic Assumptions* refers to the change in the rates of retirement, withdrawal, disability retirement, and mortality. These assumptions are used for participants in CalPERS, and are based on the most recent CalPERS Experience Study completed January 2014 and approved by the CalPERS Board in February 2014.
- *Change in Claims and Trend Assumptions* refers to the change in expected current and future healthcare claims and expense costs.



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**MISCELLANEOUS – SECTION IV – SENSITIVITY**

The liabilities and ARC produced in this report are sensitive to the assumptions used. The tables below show the impact of a 1% increase or decrease in the healthcare trend rates on the GASB actuarial liability and the ARC to provide some measure of sensitivity.

<b>Table IV-1</b> <b>MISCELLANEOUS</b> <b>Sensitivity to Health Care Trend Rates - Unfunded Actuarial Liability</b>			
<b>Health Care Trend Rate</b>	<b>-1%</b>	<b>Base</b>	<b>+1%</b>
<b>Actuarial Liability</b>			
Active Employees	\$ 127,275,398	\$ 141,714,440	\$ 160,223,973
Retirees and Beneficiaries	114,867,069	122,550,804	131,077,760
Total	\$ 242,142,467	\$ 264,265,244	\$ 291,301,733
Assets	958,682	958,682	958,682
<b>Unfunded Actuarial Liability</b>	<b>\$ 241,183,785</b>	<b>\$ 263,306,562</b>	<b>\$ 290,343,051</b>

<b>Table IV-2</b> <b>MISCELLANEOUS</b> <b>Sensitivity to Health Care Trend Rates - GASB ARC for FYE 2016</b>			
<b>Health Care Trend Rate</b>	<b>-1%</b>	<b>Base</b>	<b>+1%</b>
Total Normal Cost at beginning of year	\$ 8,595,394	\$ 9,678,197	\$ 11,115,387
UAL Amortization at beginning of year	9,846,607	10,749,795	11,853,591
Interest to End of Year	737,680	817,120	918,759
<b>Total ARC</b>	<b>\$ 19,179,681</b>	<b>\$ 21,245,112</b>	<b>\$ 23,887,737</b>

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**MISCELLANEOUS – SECTION IV – SENSITIVITY**

The tables below show the impact of a 1% increase or decrease in the discount rates on the GASB actuarial liability and the ARC to provide some measure of sensitivity.

Table IV-3 MISCELLANEOUS Sensitivity to Discount Rates - Unfunded Actuarial Liability			
Discount Rate	3.00%	4.00%	5.00%
<b>Actuarial Liability</b>			
Active Employees	\$ 166,831,009	\$ 141,714,440	\$ 121,582,082
Retirees and Beneficiaries	137,651,542	122,550,804	109,968,045
Total	\$ 304,482,551	\$ 264,265,244	\$ 231,550,127
Assets	958,682	958,682	958,682
<b>Unfunded Actuarial Liability</b>	<b>\$ 303,523,869</b>	<b>\$ 263,306,562</b>	<b>\$ 230,591,445</b>

Table IV-4 MISCELLANEOUS Sensitivity to Discount Rates - GASB ARC for FYE 2016			
Discount Rate	3.00%	4.00%	5.00%
Total Normal Cost at beginning of year	\$ 12,277,937	\$ 9,678,197	\$ 7,711,666
UAL Amortization at beginning of year	10,847,499	10,749,795	10,667,579
Interest to End of Year	925,017	817,120	735,170
<b>Total ARC</b>	<b>\$ 24,050,453</b>	<b>\$ 21,245,112</b>	<b>\$ 19,114,415</b>

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**MISCELLANEOUS – SECTION V – ACCOUNTING DISCLOSURES**

**Statements No. 43 and 45 of the Governmental Accounting Standards Board (GASB)** established standards for accounting and financial reporting of Other Postemployment Benefit (OPEB) information by governmental employers and plans. In accordance with those statements, we have prepared the following disclosures.

***Net OPEB Obligation***

The table below shows the development of the Net OPEB Obligation (NOO) for the fiscal years ending June 30, 2014 and June 30, 2015 and projects the Net OPEB Obligation for the fiscal year ending June 30, 2016.

<p style="text-align: center;"><b>Table V-1</b>  <b>MISCELLANEOUS</b>  <b>Development of Net OPEB Obligation</b></p>			
<b>Fiscal Year Ending</b>	<b>June 30, 2014</b>	<b>June 30, 2015</b>	<b>June 30, 2016</b>
1. Discount rate	5.59%	5.59%	4.00%
2. Net OPEB Obligation (NOO) at beginning of fiscal year	\$ 72,571,214	\$ 76,388,916	\$ 81,696,775
3. Annual Required Contribution (ARC)	\$ 11,350,762	\$ 11,350,762	\$ 21,245,112
4. Interest on NOO at discount rate to end of fiscal year	4,056,731	4,270,140	3,267,871
5. Adjustment to the ARC	3,700,256	3,700,256	3,468,780
6. Annual OPEB Cost (3) + (4) - (5)	\$ 11,707,237	\$ 11,920,646	\$ 21,044,203
7. Net employer contribution			
Contributions to CERBT	\$ 711,396	\$ 248,860	\$ 400,000
Net Benefit Payments	7,178,139	6,363,926	8,434,797
Total	\$ 7,889,535	\$ 6,612,786	\$ 8,834,797
8. Change in Net OPEB Obligation (6) - (7)	\$ 3,817,702	\$ 5,307,860	\$ 12,209,406
<b>9. Net OPEB Obligation at end of fiscal year (2) + (8)</b>	<b>\$ 76,388,916</b>	<b>\$ 81,696,775</b>	<b>\$ 93,906,182</b>

\* June 30, 2014 results are from prior actuary, while June 30, 2015 results are from the City's June 30, 2015 CAFR.

The Net OPEB Obligation (NOO) at June 30, 2015 was provided in the City's June 30, 2015 Comprehensive Annual Financial Report. The Annual Required Contribution for the fiscal year ending June 30, 2016 is based on the July 1, 2015 valuation. The interest on Net OPEB Obligation is calculated using the assumed discount rate as shown in the table. The adjustment to the ARC is an open 30-year level percent of payroll amortization of the NOO. The employer contributions were provided by the City for the fiscal year ending June 30, 2015 and are assumed to equal the explicit benefit payments, the estimated implicit subsidy and the actual contribution to the CERBT in fiscal year ending June 30, 2016.

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**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**MISCELLANEOUS – SECTION V – ACCOUNTING DISCLOSURES**

***Schedule of Funding Progress***

The schedule of funding progress compares the assets used for funding purposes to the comparable liabilities to determine how well the Plan is funded and how this status has changed over the past several years. The actuarial liability is compared to the actuarial value of assets to determine the funding ratio. The actuarial liability under GASB is determined assuming that the Plan is ongoing and participants continue to terminate employment, retire, etc., in accordance with the actuarial assumptions.

<b>Table V-2</b> <b>MISCELLANEOUS</b> <b>Schedule of Funding Progress *</b>						
Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Liability (b)	Unfunded Actuarial Liability (UAL) (b-a)	Funded Ratio (a/b)	Annual Covered Payroll (c)	UAL as Percentage of Covered Payroll ((b-a)/c)
7/1/2015	\$ 958,682	\$ 264,265,244	\$ 263,306,562	0%	\$ 172,271,560	152.8%
7/1/2013	0	147,268,114	147,268,114	0%	159,818,174	92.1%
7/1/2012	0	172,619,136	172,619,136	0%	145,465,176	118.7%
7/1/2010	0	167,247,526	167,247,526	0%	153,556,681	108.9%

\* Figures prior to July 1, 2015 calculated by prior actuary

***Schedule of Employer Contributions***

The schedule of employer contributions shows whether the employer has made contributions that are consistent with the parameters established by GASB for calculating the ARC and the Annual OPEB Cost.

<b>Table V-3</b> <b>MISCELLANEOUS</b> <b>Schedule of Employer Contributions *</b>					
Fiscal Year Ending	Annual OPEB Cost (AOC)	City Contributions	Percentage of AOC Contributed	Net OPEB Obligation	
2016	\$ 21,044,203	\$ 8,834,797	42%	\$ 93,906,182	
2015	11,920,646	6,612,786	55%	81,696,775	
2014	11,707,237	7,889,535	67%	76,388,916	
2013	12,880,442	6,319,413	49%	72,571,214	
2012	13,206,244	6,387,918	48%	66,010,185	

\* Figures prior to FYE 6/30/2016 calculated by the prior actuary.

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**MISCELLANEOUS – SECTION V – ACCOUNTING DISCLOSURES**

We have also provided a *Note to Required Supplementary Information* for the financial statements in Table V-4.

<b>Table V-4</b>	
<b>MISCELLANEOUS</b>	
<b>NOTE TO REQUIRED SUPPLEMENTARY INFORMATION</b>	
The information presented in the required supplementary schedules was determined as part of the actuarial valuation at the date indicated. Additional information as of the latest actuarial valuation follows.	
Valuation Date	July 1, 2015
Actuarial Cost Method	Entry Age Normal
Amortization Method	Level Percentage of Pay, Open Period
Remaining Amortization Period	30 years
Asset Valuation Method	Market Value
Actuarial Assumptions:	
Blended Discount Rate	4.00%
Investment Rate of Return	7.28%
Expected Return on City Assets	3.80%
Rate of Salary Increases used for amortization of the UAL	2.50%
Ultimate Rate of Medical Inflation	4.50%
Years to Ultimate Rate of Medical Inflation	20 years
Inflation	2.50%

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**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

**Member Data**

<b>TOTAL</b>			
<b>Valuation Date</b>	<b>July 1, 2012</b>	<b>July 1, 2015</b>	<b>% Change</b>
<b>Active Employees</b>			
Eligible for retirement benefits	1,010	1,087	7.6%
Not eligible for retirement benefits	2,068	2,260	9.3%
<b>Total</b>	<b>3,078</b>	<b>3,347</b>	<b>8.7%</b>
Average Age	46.2	45.7	-1.1%
Average Service	12.9	12.2	-5.6%
Covered Payroll	\$ 304,373,447	\$ 360,857,850	18.6%
<b>Inactive with Medical Coverage</b>			
Retired participants & Surviving Spouses	2,525	2,603	3.1%
Spouses	1,037	1,020	-1.6%
<b>Total</b>	<b>3,562</b>	<b>3,623</b>	<b>1.7%</b>

<b>POLICE</b>			
<b>Valuation Date</b>	<b>July 1, 2012</b>	<b>July 1, 2015</b>	<b>% Change</b>
<b>Active Employees *</b>			
Eligible for retirement benefits	42	46	9.5%
Not eligible for retirement benefits	605	676	11.7%
<b>Total</b>	<b>647</b>	<b>722</b>	<b>11.6%</b>
Average Age	40.2	38.1	-5.1%
Average Service	12.7	10.5	-17.6%
Covered Payroll	\$ 98,703,132	\$ 114,085,254	15.6%
<b>Inactive with Medical Coverage **</b>			
Retired participants & Surviving Spouses	669	730	9.1%
Spouses	351	375	6.8%
<b>Total</b>	<b>1,020</b>	<b>1,105</b>	<b>8.3%</b>

\* There were no active employees eligible for the Retention I or II benefits in either 2015 or 2012.

\*\* There were 117 retirees and 6 beneficiaries with Retention I benefits and 61 retirees with Retention II benefits in 2015. For comparison, there were 123 retirees and 9 beneficiaries with Retention I benefits and 61 retirees with Retention II benefits in 2012.

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**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

<b>FIRE</b>			
<b>Valuation Date</b>	<b>July 1, 2012</b>	<b>July 1, 2015</b>	<b>% Change</b>
<b>Active Employees</b>			
Eligible for retirement benefits	92	112	21.7%
Not eligible for retirement benefits	319	311	-2.5%
<b>Total</b>	<b>411</b>	<b>423</b>	<b>2.9%</b>
Average Age	43.7	43.5	-0.5%
Average Service	14.1	13.8	-1.9%
Covered Payroll	\$ 60,205,139	\$ 74,501,036	23.7%
<b>Inactive with Medical Coverage</b>			
Retired participants & Surviving Spouses	595	584	-1.8%
Spouses	326	315	-3.4%
<b>Total</b>	<b>921</b>	<b>899</b>	<b>-2.4%</b>

<b>MISCELLANEOUS</b>			
<b>Valuation Date</b>	<b>July 1, 2012</b>	<b>July 1, 2015</b>	<b>% Change</b>
<b>Active Employees</b>			
Eligible for retirement benefits	876	929	6.1%
Not eligible for retirement benefits	1,144	1,273	11.3%
<b>Total</b>	<b>2,020</b>	<b>2,202</b>	<b>9.0%</b>
Average Age	48.6	48.6	0.0%
Average Service	12.7	12.4	-2.4%
Covered Payroll	\$ 145,465,176	\$ 172,271,560	18.4%
<b>Inactive with Medical Coverage</b>			
Retired participants & Surviving Spouses	1,261	1,289	2.2%
Spouses	360	330	-8.3%
<b>Total</b>	<b>1,621</b>	<b>1,619</b>	<b>-0.1%</b>

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**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

Eligible Active Employees as of July 1, 2015									
TOTAL									
Years of Service									
Age Group	< 5	5 - 9	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35 +	Total
Under 25	48	0	0	0	0	0	0	0	48
25 to 30	207	16	1	0	0	0	0	0	224
30 to 35	193	127	31	0	0	0	0	0	351
35 to 40	125	159	142	58	0	0	0	0	484
40 to 45	86	80	121	177	22	1	0	0	487
45 to 50	52	91	123	123	82	67	0	0	538
50 to 55	56	62	96	101	78	108	16	1	518
55 to 60	39	46	64	64	44	69	29	3	358
60 to 65	17	31	33	34	33	37	17	4	206
Over 65	8	17	29	19	20	31	6	3	133
<b>Total</b>	<b>831</b>	<b>629</b>	<b>640</b>	<b>576</b>	<b>279</b>	<b>313</b>	<b>68</b>	<b>11</b>	<b>3,347</b>

Eligible Active Employees as of July 1, 2015									
POLICE									
Years of Service									
Age Group	< 5	5 - 9	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35 +	Total
Under 25	29	0	0	0	0	0	0	0	29
25 to 30	112	6	0	0	0	0	0	0	118
30 to 35	73	53	10	0	0	0	0	0	136
35 to 40	19	45	37	27	0	0	0	0	128
40 to 45	4	24	18	77	10	0	0	0	133
45 to 50	1	10	6	39	39	37	0	0	132
50 to 55	0	5	2	10	7	14	0	0	38
55 to 60	0	0	0	2	1	1	0	0	4
60 to 65	0	0	0	1	0	2	0	0	3
Over 65	0	0	0	0	0	0	0	1	1
<b>Total</b>	<b>238</b>	<b>143</b>	<b>73</b>	<b>156</b>	<b>57</b>	<b>54</b>	<b>0</b>	<b>1</b>	<b>722</b>



**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

Eligible Active Employees as of July 1, 2015									
FIRE									
Years of Service									
Age Group	< 5	5 - 9	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35 +	Total
Under 25	4	0	0	0	0	0	0	0	4
25 to 30	20	3	0	0	0	0	0	0	23
30 to 35	15	17	9	0	0	0	0	0	41
35 to 40	7	15	43	21	0	0	0	0	86
40 to 45	1	3	33	45	6	1	0	0	89
45 to 50	0	4	17	21	11	13	0	0	66
50 to 55	0	2	13	22	20	19	2	0	78
55 to 60	1	0	1	2	11	5	5	0	25
60 to 65	0	0	0	1	2	0	3	1	7
Over 65	0	0	0	0	1	1	2	0	4
<b>Total</b>	<b>48</b>	<b>44</b>	<b>116</b>	<b>112</b>	<b>51</b>	<b>39</b>	<b>12</b>	<b>1</b>	<b>423</b>

Eligible Active Employees as of July 1, 2015									
MISCELLANEOUS									
Years of Service									
Age Group	< 5	5 - 9	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35 +	Total
Under 25	15	0	0	0	0	0	0	0	15
25 to 30	75	7	1	0	0	0	0	0	83
30 to 35	105	57	12	0	0	0	0	0	174
35 to 40	99	99	62	10	0	0	0	0	270
40 to 45	81	53	70	55	6	0	0	0	265
45 to 50	51	77	100	63	32	17	0	0	340
50 to 55	56	55	81	69	51	75	14	1	402
55 to 60	38	46	63	60	32	63	24	3	329
60 to 65	17	31	33	32	31	35	14	3	196
Over 65	8	17	29	19	19	30	4	2	128
<b>Total</b>	<b>545</b>	<b>442</b>	<b>451</b>	<b>308</b>	<b>171</b>	<b>220</b>	<b>56</b>	<b>9</b>	<b>2,202</b>

**CITY OF OAKLAND**  
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**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

Status Reconciliation TOTAL					
	Active	Retired	Disabled	Survivor	Total
<b>Members on July 1, 2012</b>	<b>3,078</b>	<b>1,972</b>	<b>298</b>	<b>241</b>	<b>5,589</b>
New Hires	906	0	0	0	906
Retired	(189)	189	0	0	0
Terminated	(355)	0	0	0	(355)
Became Disabled	(92)	0	92	0	0
Death	(1)	(37)	0	38	0
Dropped Coverage	0	(200)	(9)	(43)	(252)
Show ups	0	39	18	5	62
<b>Members on July 1, 2015</b>	<b>3,347</b>	<b>1,963</b>	<b>399</b>	<b>241</b>	<b>5,950</b>

Status Reconciliation POLICE					
	Active	Retired	Disabled	Survivor	Total
<b>Members on July 1, 2012</b>	<b>647</b>	<b>451</b>	<b>148</b>	<b>62</b>	<b>1,308</b>
New Hires	236	0	0	0	236
Retired	(28)	28	0	0	0
Terminated	(67)	0	0	0	(67)
Became Disabled	(66)	0	66	0	0
Death	0	(8)	0	8	0
Dropped Coverage	0	(43)	(7)	(13)	(63)
Show ups	0	19	17	2	38
<b>Members on July 1, 2015</b>	<b>722</b>	<b>447</b>	<b>224</b>	<b>59</b>	<b>1,452</b>

Status Reconciliation FIRE					
	Active	Retired	Disabled	Survivor	Total
<b>Members on July 1, 2012</b>	<b>411</b>	<b>391</b>	<b>150</b>	<b>61</b>	<b>1,013</b>
New Hires	63	0	0	0	63
Retired	(17)	17	0	0	0
Terminated	(8)	0	0	0	(8)
Became Disabled	(26)	0	26	0	0
Death	0	(10)	0	10	0
Dropped Coverage	0	(51)	(2)	(12)	(65)
Show ups	0	3	1	0	4
<b>Members on July 1, 2015</b>	<b>423</b>	<b>350</b>	<b>175</b>	<b>59</b>	<b>1,007</b>

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**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

	Status Reconciliation				
	MISCELLANEOUS				
	Active	Retired	Disabled	Survivor	Total
<b>Members on July 1, 2012</b>	<b>2,020</b>	<b>1,130</b>	<b>0</b>	<b>118</b>	<b>3,268</b>
New Hires	607	0	0	0	607
Retired	(144)	144	0	0	0
Terminated	(280)	0	0	0	(280)
Became Disabled	0	0	0	0	0
Death	(1)	(19)	0	20	0
Dropped Coverage	0	(106)	0	(18)	(124)
Show ups	0	17	0	3	20
<b>Members on July 1, 2015</b>	<b>2,202</b>	<b>1,166</b>	<b>0</b>	<b>123</b>	<b>3,491</b>

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**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

**Economic Assumptions**

- 1. Measurement Date:** July 1, 2015
- 2. Expected Return on Plan Assets:** 7.28% per year for funds invested with the CERBT Strategy 1
- 3. Expected Return on City Assets:** 3.80% per year, based on the last available rate prior to the actuarial valuation date according to the Bond Buyer GO 20-year Bond Municipal Bond Index
- 4. Blended Discount Rate used for Valuation Purposes:** 4.00% per year, net of investment and administrative expenses.

The discount rate used for GASB 43 and 45 disclosures is a weighted average of the expected return on Plan assets (7.28%) and the expected return on City assets (3.80%). If contributions to the Plan were equal to the Annual Required Contribution (ARC), the discount rate would be 7.28%. If contributions to the Plan were just equal to the benefit payments for the next year, the discount rate would be 3.80%. Since contributions are between these two amounts, the discount rate is a weighted average of these two discount rates where the weights reflect how close contributions are expected to be to the ARC as opposed to the benefit payments.

It is assumed the City's funding policy is to pay \$1.1 million to the CERBT annually in addition to benefits paid outside of the CERBT.

- 5. Consumer Price Index (CPI):** 2.50%
- 6. Annual Rate of Payroll Growth:** For purposes of amortizing the Unfunded Actuarial Liability as a level percent of payroll, a 2.50% annual rate of pay growth is assumed.

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**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

- 7. Salary Increase:** Representative values of the assumed annual salary increases are shown below.

Public Agency Police							
Attained	Sample Salary Increases at each Service						
Age	0	5	10	15	20	25	30
20	0.1500	0.0610					
25	0.1500	0.0610	0.0450				
30	0.1470	0.0610	0.0450	0.0450			
35	0.1430	0.0580	0.0450	0.0450	0.0450		
40	0.1310	0.0550	0.0430	0.0450	0.0450	0.0450	
45	0.1190	0.0520	0.0410	0.0430	0.0450	0.0450	0.0450
50	0.1190	0.0490	0.0370	0.0410	0.0430	0.0450	0.0450
55	0.1190	0.0490	0.0330	0.0370	0.0410	0.0430	0.0450
60	0.1190	0.0490	0.0330	0.0330	0.0370	0.0410	0.0430
65	0.1190	0.0490	0.0330	0.0330	0.0330	0.0370	0.0410

Public Agency Fire							
Attained	Sample Salary Increases at each Service						
Age	0	5	10	15	20	25	30
20	0.2000	0.0690					
25	0.2000	0.0690	0.0470				
30	0.1980	0.0690	0.0470	0.0440			
35	0.1960	0.0640	0.0470	0.0440	0.0420		
40	0.1680	0.0590	0.0460	0.0440	0.0420	0.0400	
45	0.1410	0.0550	0.0440	0.0420	0.0420	0.0400	0.0380
50	0.1410	0.0510	0.0420	0.0400	0.0390	0.0400	0.0380
55	0.1410	0.0510	0.0410	0.0390	0.0360	0.0370	0.0380
60	0.1410	0.0510	0.0410	0.0380	0.0360	0.0340	0.0360
65	0.1410	0.0510	0.0410	0.0380	0.0360	0.0340	0.0340

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**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

Attained Age	Public Agency Miscellaneous Sample Salary Increases at each Service						
	0	5	10	15	20	25	30
20	0.1220	0.0640					
25	0.1220	0.0640	0.0460				
30	0.1160	0.0640	0.0460	0.0420			
35	0.1090	0.0600	0.0460	0.0420	0.0390		
40	0.1020	0.0550	0.0430	0.0420	0.0390	0.0370	
45	0.0950	0.0520	0.0410	0.0400	0.0390	0.0370	0.0350
50	0.0950	0.0480	0.0390	0.0380	0.0380	0.0370	0.0350
55	0.0950	0.0480	0.0370	0.0360	0.0360	0.0360	0.0350
60	0.0950	0.0480	0.0370	0.0340	0.0340	0.0340	0.0340
65	0.0950	0.0480	0.0370	0.0340	0.0330	0.0330	0.0330

- 8. Changes Since Prior Valuation:** Since the last actuarial valuation as of July 1, 2013, the discount rate was updated to 4.00% to reflect a blended discount rate between the expected return on contributions to the CERBT Trust and the expected return on City assets. Also, the salary increase assumption was updated to align with the most recent CalPERS experience study, adopted by the CalPERS Board in February 2014.
- 9. Rationale for Economic Actuarial Assumptions:** The salary increase rates are the assumptions used for participants in CalPERS, and are based on the most recent CalPERS Experience Study completed January 2014 and approved by the CalPERS Board in February 2014. The other economic assumptions are based on our review of the current economic environment.

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**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

**Demographic Assumptions**

City of Oakland employees participate in the California Public Employers' Retirement System (CalPERS). CalPERS determined the assumed rates of retirement, withdrawal, disabled retirement, and mortality for use in their actuarial valuations. Periodically, CalPERS will review these assumptions through an experience study, the most recent of which was completed in January 2014 and adopted by the CalPERS Board in February 2014. These assumptions will also be used by the City of Oakland in relation to when their employees will receive benefits under their pension plan.

- 1. Rates of Retirement:** Rate of eligible active members retiring within the next year, based on CalPERS assumptions adopted in February 2014. There are separate rates for Police, Fire, and Miscellaneous members.

*Police:*

Public Agency Police 3.0% @ 50							
Attained	Sample Retirement Rates at each Service						
Age	5	10	15	20	25	30	35
50	0.0500	0.0500	0.0500	0.0990	0.2400	0.3140	0.3790
51	0.0340	0.0340	0.0340	0.0720	0.1980	0.2600	0.3120
52	0.0330	0.0330	0.0330	0.0710	0.1980	0.2590	0.3110
53	0.0390	0.0390	0.0390	0.0800	0.2120	0.2770	0.3330
54	0.0450	0.0450	0.0450	0.0920	0.2290	0.3000	0.3610
55	0.0520	0.0520	0.0520	0.1050	0.2480	0.3230	0.3890
56	0.0420	0.0420	0.0420	0.0870	0.2210	0.2890	0.3470
57	0.0430	0.0430	0.0430	0.0880	0.2230	0.2920	0.3510
58	0.0540	0.0540	0.0540	0.1090	0.2550	0.3330	0.4010
59	0.0540	0.0540	0.0540	0.1080	0.2530	0.3300	0.3980
60	0.0600	0.0600	0.0600	0.1210	0.2720	0.3550	0.4280
61	0.0480	0.0480	0.0480	0.0980	0.2380	0.3110	0.3750
62	0.0610	0.0610	0.0610	0.1220	0.2740	0.3570	0.4310
63	0.0570	0.0570	0.0570	0.1150	0.2630	0.3430	0.4140
64	0.0690	0.0690	0.0690	0.1370	0.2960	0.3850	0.4660
65	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

Attained Age	Public Agency Police 3.0% @ 55 Sample Retirement Rates at each Service						
	5	10	15	20	25	30	35
50	0.0040	0.0040	0.0040	0.0040	0.0150	0.0860	0.0860
51	0.0140	0.0140	0.0140	0.0140	0.0340	0.1140	0.1140
52	0.0260	0.0260	0.0260	0.0260	0.0600	0.1540	0.1540
53	0.0380	0.0380	0.0380	0.0380	0.0830	0.1880	0.1880
54	0.0710	0.0710	0.0710	0.0710	0.1510	0.2920	0.2920
55	0.0610	0.0610	0.0610	0.0610	0.1310	0.2610	0.2610
56	0.0720	0.0720	0.0720	0.0720	0.1530	0.2950	0.2950
57	0.0650	0.0650	0.0650	0.0650	0.1400	0.2730	0.2730
58	0.0660	0.0660	0.0660	0.0660	0.1420	0.2770	0.2770
59	0.1180	0.1180	0.1180	0.1180	0.2470	0.4370	0.4370
60	0.0650	0.0650	0.0650	0.0650	0.1380	0.2720	0.2720
61	0.0840	0.0840	0.0840	0.0840	0.1780	0.3320	0.3320
62	0.1080	0.1080	0.1080	0.1080	0.2260	0.4050	0.4050
63	0.0840	0.0840	0.0840	0.0840	0.1780	0.3320	0.3320
64	0.0840	0.0840	0.0840	0.0840	0.1780	0.3320	0.3320
65	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Attained Age	Public Agency Safety Police 2.7% @ 57 Sample Retirement Rates at each Service						
	5	10	15	20	25	30	35
50	0.0138	0.0138	0.0138	0.0138	0.0253	0.0451	0.0535
51	0.0123	0.0123	0.0123	0.0123	0.0226	0.0402	0.0477
52	0.0249	0.0249	0.0249	0.0249	0.0456	0.0812	0.0963
53	0.0497	0.0497	0.0497	0.0497	0.0909	0.1621	0.1920
54	0.0662	0.0662	0.0662	0.0662	0.1211	0.2160	0.2559
55	0.0854	0.0854	0.0854	0.0854	0.1563	0.2785	0.3300
56	0.0606	0.0606	0.0606	0.0606	0.1108	0.1975	0.2340
57	0.0711	0.0711	0.0711	0.0711	0.1300	0.2318	0.2747
58	0.0628	0.0628	0.0628	0.0628	0.1149	0.2049	0.2427
59	0.1396	0.1396	0.1396	0.1396	0.1735	0.2544	0.3014
60	0.1396	0.1396	0.1396	0.1396	0.1719	0.2506	0.2969
61	0.1396	0.1396	0.1396	0.1396	0.1719	0.2506	0.2969
62	0.1396	0.1396	0.1396	0.1396	0.1719	0.2506	0.2969
63	0.1396	0.1396	0.1396	0.1396	0.1719	0.2506	0.2969
64	0.1396	0.1396	0.1396	0.1396	0.1719	0.2506	0.2969
65	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000



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**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

*Fire:*

Public Agency Fire 3.0% @ 50							
Attained	Sample Retirement Rates at each Service						
Age	5	10	15	20	25	30	35
50	0.0200	0.0200	0.0200	0.0400	0.1300	0.1920	0.2020
51	0.0080	0.0080	0.0080	0.0230	0.1070	0.1640	0.1730
52	0.0230	0.0230	0.0230	0.0430	0.1360	0.1980	0.2090
53	0.0230	0.0230	0.0230	0.0430	0.1350	0.1980	0.2080
54	0.0270	0.0270	0.0270	0.0480	0.1430	0.2070	0.2180
55	0.0430	0.0430	0.0430	0.0700	0.1740	0.2440	0.2570
56	0.0530	0.0530	0.0530	0.0850	0.1960	0.2690	0.2850
57	0.0540	0.0540	0.0540	0.0860	0.1970	0.2710	0.2870
58	0.0520	0.0520	0.0520	0.0840	0.1930	0.2680	0.2830
59	0.0750	0.0750	0.0750	0.1160	0.2390	0.3210	0.3410
60	0.0650	0.0650	0.0650	0.1020	0.2190	0.2980	0.3160
61	0.0760	0.0760	0.0760	0.1170	0.2410	0.3240	0.3430
62	0.0680	0.0680	0.0680	0.1060	0.2240	0.3040	0.3220
63	0.0270	0.0270	0.0270	0.0490	0.1430	0.2080	0.2200
64	0.0940	0.0940	0.0940	0.1430	0.2770	0.3660	0.3890
65	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

Public Agency Fire 3.0% @ 55							
Attained	Sample Retirement Rates at each Service						
Age	5	10	15	20	25	30	35
50	0.0010	0.0010	0.0010	0.0060	0.0160	0.0690	0.0690
51	0.0020	0.0020	0.0020	0.0060	0.0180	0.0710	0.0710
52	0.0120	0.0120	0.0120	0.0210	0.0400	0.0980	0.0980
53	0.0320	0.0320	0.0320	0.0490	0.0850	0.1490	0.1490
54	0.0570	0.0570	0.0570	0.0870	0.1440	0.2170	0.2170
55	0.0730	0.0730	0.0730	0.1090	0.1790	0.2590	0.2590
56	0.0640	0.0640	0.0640	0.0970	0.1610	0.2380	0.2380
57	0.0630	0.0630	0.0630	0.0950	0.1570	0.2330	0.2330
58	0.0650	0.0650	0.0650	0.0990	0.1630	0.2410	0.2410
59	0.0880	0.0880	0.0880	0.1310	0.2130	0.2990	0.2990
60	0.1050	0.1050	0.1050	0.1550	0.2510	0.3440	0.3440
61	0.1180	0.1180	0.1180	0.1750	0.2820	0.3800	0.3800
62	0.0870	0.0870	0.0870	0.1280	0.2100	0.2950	0.2950
63	0.0670	0.0670	0.0670	0.1000	0.1650	0.2430	0.2430
64	0.0670	0.0670	0.0670	0.1000	0.1650	0.2430	0.2430
65	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Public Agency Safety Fire 2.7% @ 57							
Attained	Sample Retirement Rates at each Service						
Age	5	10	15	20	25	30	35
50	0.0065	0.0065	0.0065	0.0065	0.0101	0.0151	0.0170
51	0.0081	0.0081	0.0081	0.0081	0.0125	0.0187	0.0211
52	0.0164	0.0164	0.0164	0.0164	0.0254	0.0380	0.0428
53	0.0442	0.0442	0.0442	0.0442	0.0680	0.1018	0.1149
54	0.0606	0.0606	0.0606	0.0606	0.0934	0.1397	0.1576
55	0.0825	0.0825	0.0825	0.0825	0.1269	0.1900	0.2143
56	0.0740	0.0740	0.0740	0.0740	0.1140	0.1706	0.1925
57	0.0901	0.0901	0.0901	0.0901	0.1387	0.2077	0.2343
58	0.0790	0.0790	0.0790	0.0790	0.1217	0.1821	0.2054
59	0.0729	0.0729	0.0729	0.0729	0.1123	0.1681	0.1897
60	0.1135	0.1135	0.1135	0.1135	0.1747	0.2615	0.2950
61	0.1136	0.1136	0.1136	0.1136	0.1749	0.2618	0.2953
62	0.1136	0.1136	0.1136	0.1136	0.1749	0.2618	0.2953
63	0.1136	0.1136	0.1136	0.1136	0.1749	0.2618	0.2953
64	0.1136	0.1136	0.1136	0.1136	0.1749	0.2618	0.2953
65	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

*Miscellaneous:*

Public Agency Miscellaneous 2.7% @ 55							
Attained	Sample Retirement Rates at each Service						
Age	5	10	15	20	25	30	35
50	0.0040	0.0090	0.0140	0.0350	0.0550	0.0950	0.1000
51	0.0020	0.0060	0.0110	0.0300	0.0500	0.0900	0.0940
52	0.0060	0.0120	0.0170	0.0380	0.0590	0.0990	0.1050
53	0.0100	0.0170	0.0240	0.0460	0.0680	0.1100	0.1170
54	0.0320	0.0440	0.0570	0.0850	0.1130	0.1600	0.1730
55	0.0760	0.1010	0.1250	0.1650	0.2050	0.2650	0.2890
56	0.0550	0.0740	0.0930	0.1270	0.1600	0.2140	0.2330
57	0.0500	0.0680	0.0860	0.1180	0.1510	0.2040	0.2220
58	0.0550	0.0740	0.0930	0.1270	0.1610	0.2150	0.2340
59	0.0610	0.0820	0.1020	0.1380	0.1740	0.2290	0.2500
60	0.0690	0.0930	0.1160	0.1540	0.1920	0.2500	0.2730
61	0.0860	0.1130	0.1410	0.1830	0.2250	0.2880	0.3150
62	0.1050	0.1380	0.1710	0.2180	0.2660	0.3340	0.3670
63	0.1030	0.1350	0.1670	0.2150	0.2620	0.3290	0.3610
64	0.1090	0.1430	0.1770	0.2260	0.2750	0.3440	0.3780
65	0.1340	0.1740	0.2150	0.2700	0.3260	0.4010	0.4420
66	0.1470	0.1910	0.2350	0.2940	0.3540	0.4330	0.4770
67	0.1210	0.1580	0.1960	0.2480	0.3000	0.3720	0.4090
68	0.1130	0.1470	0.1820	0.2320	0.2820	0.3520	0.3870
69	0.1170	0.1530	0.1890	0.2400	0.2910	0.3620	0.3980
70	0.1410	0.1830	0.2260	0.2830	0.3410	0.4180	0.4610
71	0.1110	0.1460	0.1800	0.2290	0.2790	0.3480	0.3830
72	0.0760	0.1010	0.1260	0.1660	0.2060	0.2660	0.2910
73	0.1050	0.1370	0.1700	0.2180	0.2650	0.3330	0.3660
74	0.1450	0.1880	0.2320	0.2900	0.3490	0.4270	0.4710
75	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

Attained Age	Public Agency Miscellaneous 2.5% @ 55 Sample Retirement Rates at each Service						
	5	10	15	20	25	30	35
50	0.0040	0.0090	0.0190	0.0290	0.0490	0.0940	0.1000
51	0.0040	0.0090	0.0190	0.0290	0.0490	0.0940	0.1000
52	0.0040	0.0090	0.0200	0.0300	0.0500	0.0950	0.1010
53	0.0080	0.0140	0.0250	0.0360	0.0580	0.1040	0.1100
54	0.0240	0.0340	0.0500	0.0660	0.0910	0.1420	0.1520
55	0.0660	0.0880	0.1150	0.1420	0.1790	0.2410	0.2630
56	0.0420	0.0570	0.0780	0.0980	0.1280	0.1840	0.1990
57	0.0410	0.0570	0.0770	0.0970	0.1280	0.1830	0.1980
58	0.0450	0.0610	0.0830	0.1040	0.1360	0.1920	0.2080
59	0.0550	0.0740	0.0980	0.1230	0.1570	0.2160	0.2350
60	0.0660	0.0880	0.1150	0.1420	0.1790	0.2410	0.2630
61	0.0720	0.0950	0.1240	0.1530	0.1910	0.2550	0.2780
62	0.0990	0.1300	0.1660	0.2020	0.2480	0.3190	0.3500
63	0.0920	0.1210	0.1550	0.1890	0.2330	0.3020	0.3310
64	0.0910	0.1190	0.1530	0.1870	0.2310	0.2990	0.3280
65	0.1220	0.1600	0.2020	0.2450	0.2970	0.3740	0.4120
66	0.1380	0.1790	0.2260	0.2720	0.3290	0.4110	0.4520
67	0.1140	0.1490	0.1890	0.2290	0.2790	0.3540	0.3890
68	0.1000	0.1310	0.1680	0.2040	0.2500	0.3220	0.3530
69	0.1140	0.1490	0.1890	0.2290	0.2790	0.3540	0.3890
70	0.1270	0.1650	0.2090	0.2530	0.3060	0.3850	0.4240
71	0.1130	0.1480	0.1880	0.2280	0.2770	0.3520	0.3870
72	0.1090	0.1430	0.1820	0.2210	0.2700	0.3430	0.3770
73	0.0740	0.0980	0.1280	0.1570	0.1960	0.2600	0.2850
74	0.0510	0.0700	0.0930	0.1160	0.1490	0.2070	0.2250
75	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

Attained Age	Public Agency Miscellaneous 2% @ 62 Sample Retirement Rates at each Service						
	5	10	15	20	25	30	35
52	0.0103	0.0132	0.0160	0.0188	0.0216	0.0244	0.0272
53	0.0131	0.0167	0.0202	0.0238	0.0273	0.0309	0.0345
54	0.0213	0.0272	0.0330	0.0388	0.0446	0.0504	0.0562
55	0.0440	0.0560	0.0680	0.0800	0.0920	0.1040	0.1160
56	0.0303	0.0385	0.0468	0.0550	0.0633	0.0715	0.0798
57	0.0363	0.0462	0.0561	0.0660	0.0759	0.0858	0.0957
58	0.0465	0.0592	0.0718	0.0845	0.0972	0.1099	0.1225
59	0.0578	0.0735	0.0893	0.1050	0.1208	0.1365	0.1523
60	0.0616	0.0784	0.0952	0.1120	0.1288	0.1456	0.1624
61	0.0619	0.0788	0.0956	0.1125	0.1294	0.1463	0.1631
62	0.0968	0.1232	0.1496	0.1760	0.2024	0.2288	0.2552
63	0.0888	0.1131	0.1373	0.1615	0.1857	0.2100	0.2342
64	0.0941	0.1197	0.1454	0.1710	0.1967	0.2223	0.2480
65	0.1287	0.1638	0.1989	0.2340	0.2691	0.3042	0.3393
66	0.1045	0.1330	0.1615	0.1900	0.2185	0.2470	0.2755
67	0.1045	0.1330	0.1615	0.1900	0.2185	0.2470	0.2755
68	0.1045	0.1330	0.1615	0.1900	0.2185	0.2470	0.2755
69	0.1045	0.1330	0.1615	0.1900	0.2185	0.2470	0.2755
70	0.1254	0.1596	0.1938	0.2280	0.2622	0.2964	0.3306
71	0.1254	0.1596	0.1938	0.2280	0.2622	0.2964	0.3306
72	0.1254	0.1596	0.1938	0.2280	0.2622	0.2964	0.3306
73	0.1254	0.1596	0.1938	0.2280	0.2622	0.2964	0.3306
74	0.1254	0.1596	0.1938	0.2280	0.2622	0.2964	0.3306
75	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

- 2. Rates of Withdrawal:** Rate of eligible active members terminating employment (not due to retirement, death, or disability) within the next year, based on CalPERS assumptions adopted in February 2014. There are separate rates for Police, Fire, and Miscellaneous members.

Attained Age	Public Agency Police Sample Termination Rates at each Service							
	0	5	10	15	20	25	30	35
20	0.10130	0.02490						
21	0.10130	0.02490						
22	0.10130	0.02490						
23	0.10130	0.02490						
24	0.10130	0.02490						
25	0.10130	0.02490	0.01790					
26	0.10130	0.02490	0.01790					
27	0.10130	0.02490	0.01790					
28	0.10130	0.02490	0.01790					
29	0.10130	0.02490	0.01790					
30	0.10130	0.02490	0.01790	0.01090				
31	0.10130	0.02490	0.01790	0.01090				
32	0.10130	0.02490	0.01790	0.01090				
33	0.10130	0.02490	0.01790	0.01090				
34	0.10130	0.02490	0.01790	0.01090				
35	0.10130	0.02490	0.01790	0.01090	0.00820			
36	0.10130	0.02490	0.01790	0.01090	0.00820			
37	0.10130	0.02490	0.01790	0.01090	0.00820			
38	0.10130	0.02490	0.01790	0.01090	0.00820			
39	0.10130	0.02490	0.01790	0.01090	0.00820			
40	0.10130	0.02490	0.01790	0.01090	0.00820	0.00700		
41	0.10130	0.02490	0.01790	0.01090	0.00820	0.00700		
42	0.10130	0.02490	0.01790	0.01090	0.00820	0.00700		
43	0.10130	0.02490	0.01790	0.01090	0.00820	0.00700		
44	0.10130	0.02490	0.01790	0.01090	0.00820	0.00700		
45	0.10130	0.02490	0.01790	0.01090	0.00820	0.00700	0.00650	
46	0.10130	0.02490	0.01790	0.01090	0.00820	0.00700	0.00650	
47	0.10130	0.02490	0.01790	0.01090	0.00820	0.00700	0.00650	
48	0.10130	0.02490	0.01790	0.01090	0.00820	0.00700	0.00650	
49	0.10130	0.02490	0.01790	0.01090	0.00820	0.00700	0.00650	
50	0.10130	0.00860	0.00530	0.00270	0.00170	0.00120	0.00090	0.00090
51	0.10130	0.00860	0.00530	0.00270	0.00170	0.00120	0.00090	0.00090
52	0.10130	0.00860	0.00530	0.00270	0.00170	0.00120	0.00090	0.00090
53	0.10130	0.00860	0.00530	0.00270	0.00170	0.00120	0.00090	0.00090
54	0.10130	0.00860	0.00530	0.00270	0.00170	0.00120	0.00090	0.00090

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

Attained Age	Public Agency Fire Sample Termination Rates at each Service							
	0	5	10	15	20	25	30	35
20	0.07100	0.01910						
21	0.07100	0.01910						
22	0.07100	0.01910						
23	0.07100	0.01910						
24	0.07100	0.01910						
25	0.07100	0.01910	0.00700					
26	0.07100	0.01910	0.00700					
27	0.07100	0.01910	0.00700					
28	0.07100	0.01910	0.00700					
29	0.07100	0.01910	0.00700					
30	0.07100	0.01910	0.00700	0.00640				
31	0.07100	0.01910	0.00700	0.00640				
32	0.07100	0.01910	0.00700	0.00640				
33	0.07100	0.01910	0.00700	0.00640				
34	0.07100	0.01910	0.00700	0.00640				
35	0.07100	0.01910	0.00700	0.00640	0.00580			
36	0.07100	0.01910	0.00700	0.00640	0.00580			
37	0.07100	0.01910	0.00700	0.00640	0.00580			
38	0.07100	0.01910	0.00700	0.00640	0.00580			
39	0.07100	0.01910	0.00700	0.00640	0.00580			
40	0.07100	0.01910	0.00700	0.00640	0.00580	0.00500		
41	0.07100	0.01910	0.00700	0.00640	0.00580	0.00500		
42	0.07100	0.01910	0.00700	0.00640	0.00580	0.00500		
43	0.07100	0.01910	0.00700	0.00640	0.00580	0.00500		
44	0.07100	0.01910	0.00700	0.00640	0.00580	0.00500		
45	0.07100	0.01910	0.00700	0.00640	0.00580	0.00500	0.00480	
46	0.07100	0.01910	0.00700	0.00640	0.00580	0.00500	0.00480	
47	0.07100	0.01910	0.00700	0.00640	0.00580	0.00500	0.00480	
48	0.07100	0.01910	0.00700	0.00640	0.00580	0.00500	0.00480	
49	0.07100	0.01910	0.00700	0.00640	0.00580	0.00500	0.00480	
50	0.07100	0.00290	0.00090	0.00060	0.00050	0.00030	0.00030	0.00030
51	0.07100	0.00290	0.00090	0.00060	0.00050	0.00030	0.00030	0.00030
52	0.07100	0.00290	0.00090	0.00060	0.00050	0.00030	0.00030	0.00030
53	0.07100	0.00290	0.00090	0.00060	0.00050	0.00030	0.00030	0.00030
54	0.07100	0.00290	0.00090	0.00060	0.00050	0.00030	0.00030	0.00030

**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

Attained Age	Public Agency Miscellaneous Sample Termination Rates at each Service							
	0	5	10	15	20	25	30	35
20	0.17420	0.09460						
21	0.17300	0.09310						
22	0.17160	0.09150						
23	0.17020	0.09000						
24	0.16880	0.08840						
25	0.16740	0.08680	0.07490					
26	0.16600	0.08520	0.07330					
27	0.16460	0.08360	0.07160					
28	0.16340	0.08210	0.07000					
29	0.16200	0.08050	0.06850					
30	0.16060	0.07900	0.06680	0.05810				
31	0.15920	0.07740	0.06520	0.05660				
32	0.15780	0.07580	0.06360	0.05490				
33	0.15640	0.07420	0.06200	0.05330				
34	0.15500	0.07260	0.06040	0.05190				
35	0.15370	0.07110	0.05870	0.05030	0.04500			
36	0.15240	0.06950	0.05720	0.04870	0.04330			
37	0.15100	0.06800	0.05560	0.04720	0.04170			
38	0.14960	0.06640	0.05390	0.04560	0.04030			
39	0.14820	0.06480	0.05230	0.04410	0.03860			
40	0.14680	0.06320	0.05070	0.04240	0.03700	0.03120		
41	0.14540	0.06160	0.04900	0.04090	0.03530	0.02950		
42	0.14410	0.06010	0.04750	0.03940	0.03370	0.02790		
43	0.14280	0.05850	0.04590	0.03780	0.03200	0.02630		
44	0.14140	0.05700	0.04430	0.03620	0.03050	0.02460		
45	0.14000	0.05540	0.04270	0.03470	0.02900	0.02290	0.01610	
46	0.13860	0.05380	0.04100	0.03310	0.02730	0.02120	0.01450	
47	0.13720	0.05220	0.03940	0.03150	0.02570	0.01960	0.01270	
48	0.13580	0.05060	0.03770	0.03000	0.02400	0.01790	0.01100	
49	0.13450	0.04910	0.03610	0.02840	0.02250	0.01630	0.00930	
50	0.13320	0.01160	0.00710	0.00320	0.00210	0.00110	0.00050	0.00010
51	0.13180	0.01130	0.00680	0.00300	0.00190	0.00100	0.00040	0.00010
52	0.13040	0.01090	0.00650	0.00290	0.00180	0.00090	0.00030	0.00010
53	0.12900	0.01050	0.00620	0.00270	0.00160	0.00070	0.00020	0.00010
54	0.12760	0.01010	0.00580	0.00250	0.00140	0.00060	0.00010	0.00010



**CITY OF OAKLAND**  
**JULY 1, 2015 EMPLOYEES' POSTRETIREMENT HEALTH INSURANCE PLAN VALUATION**

**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

- 2. Rates of Disability Retirement:** Rate of eligible active members becoming disabled within the next year, based on CalPERS assumptions adopted in February 2014. There are separate rates for Police, Fire, and Miscellaneous members.

Attained Age	Public Agency Police			
	Non-Duty		Duty Related	
	Male	Female	Male	Female
20	0.0001	0.0001	0.0000	0.0000
25	0.0001	0.0001	0.0017	0.0017
30	0.0002	0.0002	0.0048	0.0048
35	0.0003	0.0003	0.0079	0.0079
40	0.0004	0.0004	0.0110	0.0110
45	0.0005	0.0005	0.0141	0.0141
50	0.0008	0.0008	0.0185	0.0185
55	0.0013	0.0013	0.0479	0.0479
60	0.0020	0.0020	0.0602	0.0602
65	0.0020	0.0020	0.0728	0.0728
70	0.0020	0.0020	0.0855	0.0855
75	0.0020	0.0020	0.0984	0.0984

Attained Age	Public Agency Fire			
	Non-Duty		Duty Related	
	Male	Female	Male	Female
20	0.0001	0.0001	0.0001	0.0001
25	0.0001	0.0001	0.0003	0.0003
30	0.0001	0.0001	0.0007	0.0007
35	0.0001	0.0001	0.0016	0.0016
40	0.0001	0.0001	0.0030	0.0030
45	0.0002	0.0002	0.0053	0.0053
50	0.0005	0.0005	0.0277	0.0277
55	0.0010	0.0010	0.0409	0.0409
60	0.0015	0.0015	0.0583	0.0583
65	0.0015	0.0015	0.0809	0.0809
70	0.0015	0.0015	0.1096	0.1096
75	0.0015	0.0015	0.1455	0.1455

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**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

Attained Age	Public Agency Miscellaneous			
	Non-Duty		Duty Related	
	Male	Female	Male	Female
20	0.0002	0.0001	0.0000	0.0000
25	0.0002	0.0001	0.0000	0.0000
30	0.0002	0.0002	0.0000	0.0000
35	0.0005	0.0008	0.0000	0.0000
40	0.0012	0.0016	0.0000	0.0000
45	0.0019	0.0022	0.0000	0.0000
50	0.0021	0.0023	0.0000	0.0000
55	0.0022	0.0018	0.0000	0.0000
60	0.0022	0.0014	0.0000	0.0000
65	0.0021	0.0012	0.0000	0.0000
70	0.0018	0.0011	0.0000	0.0000
75	0.0014	0.0012	0.0000	0.0000

**3. Rates of Mortality:** The following tables are based on CalPERS assumptions adopted in 2014.

Pre-Retirement: CalPERS 2014 Non-Work Related Mortality Table for non-work related deaths before retirement  
 CalPERS 2014 Work Related Mortality Table for work related deaths before retirement

Healthy Annuitants: CalPERS 2014 Service Retiree and Beneficiary Mortality Table

Disabled Annuitants: CalPERS 2014 Non-Work Related Disability Retiree Mortality Table for the mortality of non-work related disabled annuitants  
 CalPERS 2014 Work Related Disability Retiree Mortality Table for the mortality of work related disabled annuitants

*No adjustments for mortality improvement were made between the date of the table and the valuation date.*

*To reflect mortality improvements, the healthy mortality (service retirements and beneficiaries) rates include 20 years of projected mortality improvement using Scale BB published by the Society of Actuaries. For disabled mortality, no future improvements are included in these rates.*

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**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

**4. Plan Election at Retirement:**

Plan	Police & Fire	Miscellaneous
United Healthcare	20%	15%
Kaiser	55%	70%
PERSChoice	15%	10%
PERSCare	10%	5%

Once a retiree waives coverage, we have assumed they do not re-elect a medical plan.

**5. Percent of Retirees Electing Coverage:**

	Not Reimbursement Eligible	Reimbursement Eligible
Police	N/A	95%
Fire	N/A	95%
Miscellaneous	50%	95%

**6. Family Composition:**

	Male	Female
Police	70%	70%
Fire	80%	80%
Miscellaneous*	70%	50%

\* Miscellaneous spouses participate only after member's death

- 7. Dependent Age:** For current active employees, males are assumed to be two-years older than their spouses. For current retirees, actual spouse date of birth was used, if known.
- 8. Data Assumption:** Police members eligible for Retention I and Retention II benefits were provided by Aon during the conversion process. These two groups are a closed set of retirees. Retention I benefits were assumed to be \$6,000 for any member missing service.
- 9. Changes since Prior Valuation:** Rates of retirement, withdrawal, disabled retirement, and mortality have been updated since the last actuarial valuation to align with the most recent CalPERS experience study, adopted by the CalPERS Board in February 2014. Additionally, the assumption for which medical plan a member will elect at retirement has been updated to align with the most recent experience.
- 10. Rationale for Demographic Actuarial Assumptions:** The rates of retirement, withdrawal, disability retirement, and mortality are the assumptions used for participants in CalPERS, and are based on the most recent CalPERS Experience Study completed January 2014 and approved by the CalPERS Board in February 2014. The other demographic assumptions are from the July 1, 2012 report and believed to be reasonable based on our review of the July 1, 2012 and July 1, 2015 data.

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**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

**Claim and Expense Assumptions**

- 1. Average Annual Claims and Expense Assumptions:** The following claim and expense assumptions are applicable from July 1, 2015 to June 30, 2016 for Retirees and Spouses. Active employees assumed to retire will use a blended curve based on the plan elections shown in the demographic section. Subsequent years' costs are based on the first year cost adjusted with trend.

Age	United Healthcare		Kaiser		PERSCare		PERSCheck	
	Male	Female	Male	Female	Male	Female	Male	Female
20	\$ 3,370	\$ 5,176	\$ 2,726	\$ 4,187	\$ 2,865	\$ 4,400	\$ 2,581	\$ 3,964
25	3,491	6,464	2,824	5,228	2,968	5,495	2,673	4,950
30	3,931	8,053	3,180	6,514	3,342	6,847	3,011	6,167
35	4,876	8,515	3,944	6,887	4,145	7,239	3,734	6,521
40	6,172	9,005	4,992	7,284	5,247	7,656	4,726	6,896
45	8,327	10,067	6,736	8,143	7,079	8,558	6,377	7,709
50	11,128	11,649	9,001	9,422	9,461	9,903	8,522	8,921
55	14,820	13,377	11,987	10,820	12,599	11,373	11,349	10,244
60	18,425	14,715	14,903	11,903	15,664	12,510	14,110	11,269
64	20,870	15,625	16,882	12,639	17,743	13,284	15,983	11,966
65	3,432	2,318	3,458	2,335	4,407	2,976	4,004	2,705
70	3,946	2,720	3,975	2,740	5,066	3,492	4,603	3,173
75	4,463	3,192	4,496	3,215	5,730	4,098	5,206	3,724

- 2. Excise Tax:** The Patient Protection and Affordable Care Act created an excise tax on high cost plans effective in 2020. The tax will be equal to 40% of the value of employer provided coverage in excess of certain thresholds. Since the excise tax is not tax deductible, an adjustment factor is applied to the results assuming a 35% tax rate for non-Kaiser plans and 0% for Kaiser plans, since the tax is expected to be paid by the insurer and then passed on to the employer. For the City of Oakland we have projected the tax thresholds increase at an assumed CPI of 2.5%.

2018 Excise Tax Thresholds *		
Plan	Retiree Only	Retiree + 1
<b>Pre-65</b>	\$11,850	\$30,950
<b>Post-65</b>	\$10,200	\$27,500

\* These thresholds will be updated before the tax takes effect in 2020 and indexed for inflation in future years.

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**APPENDIX A – PARTICIPANT DATA, ASSUMPTIONS AND METHODS**

3. **Annual Trend:** The following annual trend rates were applied to the Average Annual Claims and Expense Assumptions to project these costs into the future.

*Premiums and Claim Curves:*

Beginning January 1,	Trend	Beginning January 1,	Trend
2015	7.50%	2025	6.00%
2016	7.35	2026	5.85
2017	7.20	2027	5.70
2018	7.05	2028	5.55
2019	6.90	2029	5.40
2020	6.75	2030	5.25
2021	6.60	2031	5.10
2022	6.45	2032	4.95
2023	6.30	2033	4.80
2024	6.15	2034	4.65
		2035+	4.50

4. **Annual Claim Loads:** Claim costs for retirees below age 65 have been loaded for the cost of children enrolled as dependents of eligible retirees. The claim costs for Kaiser and United Healthcare were loaded 3.1% and the claim costs for the CalPERS PPO plans were loaded by 2.4%. This figure is based on the expected cost for children using claim cost data provided by CalPERS to assist participating entities in developing age based claim costs. This data can be found on the CalPERS website in the file entitled “pemhca-implicit-subsidy-data.xls”. This assumption implicitly assumes that future retirees will have the same child distribution as the current population.
5. **Annual Limits:** Assumed to increase at the same rate as medical trend.
6. **Lifetime Maximums:** Unlimited
7. **Medicare:** All participants are assumed to enroll in Medicare at age 65.
8. **Geography:** Implicitly assumed to remain the same as current retirees.
9. **Retention I Benefit for Police:** 0.00%
10. **Assumed Future Increases of the CalPERS Minimum Employer Contribution for PEMHCA Coverage:** 3.00%
11. **Assumed Future Increases of the Additional Reimbursement for Miscellaneous Employees:** 0.00%

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- 12. Changes since Last Valuation:** The annual claim curves were updated to reflect the most recent claim experience. The health care trends were updated to reflect the current market place. The implicit subsidy was recognized.

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## **Methodology**

**Actuarial Cost Method:** The Entry Age Normal Actuarial Cost method is used to determine costs. Under this funding method, a normal cost rate is determined as a level percent of pay for each active plan member and then summed to produce the total normal cost for the City.

The actuarial liability is that portion of the present value of projected benefits that will not be paid by future employer normal costs or member contributions. The difference between this liability and funds accumulated as of the same date is referred to as the unfunded actuarial liability.

The portion of the actuarial liability in excess of OPEB Trust's assets is amortized to develop an additional costs or savings which is added to each year's employer normal cost. Under this cost method, actuarial gains and losses are directly reflected in the size of the unfunded actuarial liability. A rolling 30-year amortization period was used under the Actuarial funding scenario meaning a 30-year amortization continues to be used for Unfunded Actuarial Liability. The amortization method is a level percent of expected pay amortization method, assuming a 2.5% annual increase in pay due to inflation.

**Asset Valuation Method:** Assets are valued at market value.

**Claims Method:** The claim cost curves were developed based on the experience of the entire CalPERS population, using data provided by CalPERS. This data can be found on the CalPERS website in the file entitled "pemhca-implicit-subsidy-data.xls". The data provided claim experience for all covered members (employees/retirees, covered spouses, and covered children) by age, PEMHCA rating area, and benefit plan. We used this data to develop the expected cost by age for the covered membership for the specific benefit plans and PEMHCA rating areas used by the covered City of Oakland population. The cost of covered children was converted to a load on the non-Medicare eligible retirees.

We have reflected the "true" cost of coverage for retirees. The "true" cost of coverage for retirees age 55-64 is greater than the cost of the same coverage for the typical group of active employees. Employers who treat the cost as being the same often are providing implicit subsidies for retirees. The cost difference, implicit subsidy, is equal to the "true" cost of providing retiree medical coverage minus the average active/retiree cost.

We have reflected the Patient Protection and Affordable Care Act created an excise tax on high cost plans effective in 2020. The tax will be equal to 40% of the value of employer provided coverage in excess of certain thresholds. However, this report does not reflect future changes in benefits, subsidies, penalties, or administrative costs that may be required as a result of the Patient Protection and Affordable Care Act of 2010, related legislation, or regulations.

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**Changes since Last Valuation:** There were no changes to actuarial methods since the prior valuation. However, the implicit subsidy was recognized and claims were updated to reflect the most recent experience.



## APPENDIX B – SUBSTANTIVE PLAN PROVISIONS

A summary of the Post-Retirement Health Plan benefits and contribution provisions are as follows.

### Eligibility

Full-time active employees are automatically eligible to receive postretirement medical coverage with CalPERS after retiring directly from the City.

The following summarizes eligibility for a pension benefit from the City of Oakland:

#### Police

- Tier One (Classic Members): 3% @ age 50
  - Employees are eligible to retire at age 50
- Tier Two (New hires as of February 8, 2012): 3% @ age 55
  - Employees are eligible to retire at age 50
- Tier Three (New hires as of January 1, 2013): 2.7% @ age 57
  - Employees are eligible to retire at age 50
- *Disability:* At least five years of service for non-duty disability, and no requirement for line of duty disability
- *Death:* At least five years of service for non-duty death, and no requirement for duty death

#### Fire

- Tier One (Classic Members): 3% @ age 50
  - Employees are eligible to retire at age 50
- Tier Two (New hires as of February 8, 2012): 3% @ age 55
  - Employees are eligible to retire at age 50
- Tier Three (New hires as of January 1, 2013): 2.7% @ age 57
  - Employees are eligible to retire at age 50
- *Disability:* At least five years of service for non-duty disability, and no requirement for line of duty disability
- *Death:* At least five years of service for non-duty death, and no requirement for duty death

#### Miscellaneous

- Tier One (Classic Members): Classic Formula 2.7% @ age 55
  - Employees are eligible to retire at age 50
- Tier Two (New hires as of June 8, 2012): Classic Formula 2.5% @ age 55
  - Employees are eligible to retire at age 50
- Tier Three (New hires as of January 1, 2013): New Formula 2% @ age 62
  - Employees are eligible to retire at age 52
- *Disability:* At least five years of service for non-duty disability, and no requirement for duty disability
- *Death:* At least five years of service for non-duty death, and no requirement for duty death

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Active members are vested after five years of service, however must retire directly from the City to be eligible for a post-retirement health benefit.

A police or fire employee who becomes disabled in the line of duty will be provided health insurance coverage immediately upon disablement.

An employee who becomes disabled outside of work and has completed 5 years of CalPERS credited service will be provided health insurance coverage upon disablement.

Employees must retire within 120 days of separation to be eligible for CalPERS health benefits. If retired within 120 days of separation, employees can enroll in CalPERS health benefits after retirement even if not enrolled in active coverage while working. If the retiree declines enrollment when first eligible, they still have the opportunity to enroll themselves and/or eligible dependents in the future. If the retirement date is more than 120 days after separation from employment, the retiree is not eligible for coverage at retirement or at any future date.

**Spouse and Dependent Coverage**

If a retiree is eligible for health insurance coverage, the Plan will also provide health coverage for the retiree's spouse and/or dependent children. This coverage will continue for as long as the spouse is alive.

If an active employee who has met the requirements to retire with health insurance coverage dies before retiring, the Plan will provide health coverage for the spouse and/or dependent children for as long as the spouse is alive.

**Benefits**

The City of Oakland plan is a single employer plan that provides retirees and dependents the same medical benefits that are available to active employees for participants under age 65. Once a participant turns age 65, the Plan provides benefits that coordinate with Medicare. Participants that are eligible for premium free Medicare Part A must sign up for Medicare Part B as soon as they become eligible or CalPERS coverage will be cancelled. The City participates in the CalPERS health program, referred to as PEMHCA (Public Employees' Medical and Hospital Care Act).

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**Participant Cost Sharing Contributions**

**Police**

The City contributes up to a fixed amount per month to CalPERS based on the level of coverage elected by the retiree. The 2015 and 2016 fixed amounts are shown in the table below. The fixed amount increases annually until it is equal to 100% of the employer contribution for active employees (or the Kaiser Bay Area premium). Assembly Bill 2544 states that beginning in 2008, retiree contributions should be equal to the number of years an agency has been in the PEMHCA program, multiplied by 5% of the current employer contribution for actives, but not increased more than \$100 per year. As of 2015, the City of Oakland has been in the PEMHCA program for 25 years.

	Monthly Fixed Employer Contribution	
	2015	2016
Single	\$ 714.45	\$ 746.47
Two-party	\$ 1,171.01	\$ 1,271.01
Multi-party	\$ 1,283.80	\$ 1,383.80

Survivors of uniformed officers killed in the line of duty have their full premium paid by the City.

Retention I: Police officers who had at least 21 years of City service as of June 30, 1996 receive an additional fixed annual benefit during retirement, as outlined below.

Years of Service as of 6/30/1996	Annual Retiree Benefit	Annual Survivor Benefit
21	\$1,500	\$750
22	\$2,000	\$1,000
23	\$2,500	\$1,250
24	\$3,000	\$1,500
25+	\$7,000	\$4,665

These amounts may only be used to pay for post-retirement benefits such as, health insurance premiums, dental insurance premiums, life insurance premiums, disability insurance premiums, vision insurance premiums, prescription drug insurance premiums, and eligible expenses under a qualified dependent care program. Retirees and survivors are eligible to receive these benefits for life. If an officer is terminated for cause then he/she is no longer eligible.

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Retention II: A Closed group of officers are eligible for the following additional benefit.

- a) Eligible employees, upon retirement, and depending upon the number of years of service at retirement, will receive 60% - 100% of the difference in the cost of the Bay Area Kaiser medical premium for the coverage level selected, minus the dollar amount contributed by the City directly to PERS on behalf of the retiree. The benefit schedule is as follows.

<b>Years of Service as of 6/30/1996</b>	<b>Annual Reimbursement Percentage</b>
21	60%
22	70%
23	80%
24	90%
25+	100%

- b) Eligible employees, upon retirement and depending upon the number of years of service at retirement, will receive the same 60% - 100% of the premium cost of dental coverage. The dental premium for 2015 is \$178.12 per month.

**Fire**

The City contributes up to a fixed amount per month to CalPERS based on the level of coverage elected by the retiree. The 2015 and 2016 fixed amounts are shown in the table below. The fixed amount increases annually until it is equal to 100% of the employer contribution for active employees (or the Kaiser Bay Area premium). Assembly Bill 2544 states that beginning in 2008, retiree contributions should be equal to the number of years an agency has been in the PEMHCA program, multiplied by 5% of the current employer contribution for actives, but not increased more than \$100 per year. As of 2015, the City of Oakland has been in the PEMHCA program for 25 years.

	<b>Monthly Fixed Employer Contribution</b>	
	<b>2015</b>	<b>2016</b>
Single	\$ 714.45	\$ 746.47
Two-party	\$ 1,234.90	\$ 1,334.90
Multi-party	\$ 1,364.14	\$ 1,464.14

Survivors of uniformed officers killed in the line of duty have their full premium paid by the City.

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**Miscellaneous**

The City contributes a fixed copayment per retiree per month to CalPERS. The fixed copayment is equal to \$122 per month in 2015 and \$125 per month in 2016. The copayment will be adjusted annually by CalPERS to reflect the increase in the medical care component of the Consumer Price Index.

Employees with at least 10 years of City service at retirement are eligible for an additional reimbursement from the City up to \$425.42 per retiree per month. The copayment and reimbursement combined cannot exceed the CalPERS medical premium.

**Medical Premiums:** Initial premiums for this valuation as of July 1, 2015 are based on a blend of the 2015 and the 2016 PEMHCA premium rates shown below:

2015 Monthly PEMHCA Premium Rates		
Plan	Retiree Only	Retiree + 1
<b>Pre-65</b>		
United Healthcare	\$ 850.67	\$ 1,701.34
Kaiser	714.45	1,428.90
PERSCare	775.08	1,550.16
PERSChoice	700.84	1,401.68
<b>Post-65</b>		
United Healthcare	267.41	534.82
Kaiser	295.51	591.02
PERSCare	368.76	737.52
PERSChoice	339.47	678.94

2016 Monthly PEMHCA Premium Rates		
Plan	Retiree Only	Retiree + 1
<b>Pre-65</b>		
United Healthcare	\$ 955.44	\$ 1,910.88
Kaiser	746.47	1,492.94
PERSCare	889.27	1,778.54
PERSChoice	798.36	1,596.72
<b>Post-65</b>		
United Healthcare	320.98	641.96
Kaiser	297.23	594.46
PERSCare	408.04	816.08
PERSChoice	366.38	732.76

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Benefit Categories	Kaiser HMO	UnitedHealthcare HMO
General Plan Information		
• Annual Deductible		
– Individual	\$0	\$0
– Family	\$0	\$0
• Coinsurance	100%	100%
• Office Visit / Exam	\$15 copay	\$15 copay
• Outpatient Specialist Visit	\$15 copay	\$15 copay
• Annual Out-of-Pocket Limit		
– Individual	\$1,500 (see EOC for items not included in copay max)	\$1,500 (see EOC for items not included in copay max)
– Family	\$3,000 (see EOC for items not included in copay max)	\$3,000 (see EOC for items not included in copay max)
• Lifetime Plan Maximum	Unlimited	Unlimited
Preventive Services		
• Well Child Care	100%	100%
• Immunizations	100%	100%
• Well Woman Exams	100%	100%
• Mammograms	100% (some procedures may require a copay)	100%
• Adult Periodic Exams w/Preventive Tests	100%	100%
• Diagnostic X-Ray and Lab Tests	100% (some procedures may require a copay)	100%
Maternity Care		
• Pregnancy and Maternity Care ( <i>Pre-Natal Care</i> )	100%	100%
Inpatient Hospital Services		
• Inpatient Hospitalization	100%	100%
• Pre-Authorization of Services Required	Yes	Yes
• Semi-Private Room & Board, including Services and Supplies	100%	100%
Surgical Services		
• Outpatient Facility Charge	\$15 copay	100%
Emergency Room	\$50 copay; waived if admitted	\$50 copay; waived if admitted

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**APPENDIX B – SUBSTANTIVE PLAN PROVISIONS**

Benefit Categories	Kaiser HMO	UnitedHealthcare HMO
Ambulance		
• Air	100%	100%
• Ground	100%	100%
Urgent Care	\$15 copay	\$15 copay
Mental Health Benefits		
• Inpatient Care	100% (see EOC for more detailed coverage)	100% (see EOC for more detailed coverage)
• Outpatient Care	\$15 copay (see EOC for more detailed coverage)	\$15 copay (see EOC for more detailed coverage)
Substance Abuse		
• Inpatient Hospitalization	100%	100%
• Inpatient Detoxification Services	100% (see EOC for more detailed coverage)	100% (see EOC for more detailed coverage)
• Outpatient Services	\$15 copay (see EOC for more detailed coverage)	\$15 copay (see EOC for more detailed coverage)
Prescription Drugs		
• Retail		
– Generic	\$5 copay	\$5 copay
– Brand ( <i>Formulary / Preferred</i> )	\$20 copay	\$20 copay
– Brand ( <i>Non-Formulary / Non-Preferred</i> )		\$50 copay
– Number of Days Supply	30 days	30 days
• Mail Order		
– Generic	\$10 copay for 30-day supply \$10 copay for 31-100 day supply	\$10 copay
– Brand ( <i>Formulary / Preferred</i> )	\$40 copay for 30-day supply \$40 copay for 31-100 day supply	\$40 copay
– Brand ( <i>Non-Formulary / Non-Preferred</i> )		\$100 copay
– Number of Days Supply	100 days (30-day supply for certain drugs)	90 days

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Benefit Categories	Kaiser HMO	UnitedHealthcare HMO
Other Services and Supplies		
• Durable Medical Equipment & Prosthetic Devices	100%	100%
• Home Health Care	100% (prior authorization required; custodial care not covered)	100% (prior authorization required; custodial care not covered)
• Skilled Nursing or Extended Care Facility	100%; up to 100 days/cal year	100%; up to 100 days/cal year
• Hospice Care	100%	100%
• Chiropractic Services	\$15 copay (when medically necessary); up to 20 visits/cal year; combined with Acupuncture	\$15 copay up to 20 visits/cal year; combined with Acupuncture
• Acupuncture	\$15 copay (when medically necessary); up to 20 visits/cal year; combined with Chiropractic	\$15 copay up to 20 visits/cal year; combined with Chiropractic
Vision		
• Exam Copay	100%	100% (members 18+ years one visit/year)
• Exam Benefit Frequency	12 months	12 months
Hearing		
• Screening	100%	100%
• Aid(s)	\$1,000 max every 36 months for both ears	\$1,000 max every 36 months for both ears
Infertility		
• Diagnosis	50%; see Plan Certificate for more details	50% of covered charges; see Plan Certificate for more details
• Treatment	50%; see Plan Certificate for more details	50% of covered charges; see Plan Certificate for more details
Outpatient Rehabilitative Therapy Services		
• Physical	\$15 copay	\$15 copay
• Occupational	\$15 copay	\$15 copay
• Speech	\$15 copay	\$15 copay



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Benefit Categories	PERS Choice	
	In-Network	Out-of-Network
General Plan Information		
• Annual Deductible		
– Individual	\$500 (not transferable between plans)	\$500 (not transferable between plans)
– Family	\$1,000 (not transferable between plans)	\$1,000 (not transferable between plans)
• Coinsurance	80%	60%
• Office Visit / Exam	\$20 copay	60%
• Outpatient Specialist Visit	\$20 copay	60%
• Annual Out-of-Pocket Limit		
– Individual	\$3,000	\$3,000
– Family	\$6,000	\$6,000
• Lifetime Plan Maximum	Unlimited	Unlimited
Preventive Services		
• Well Child Care	100% (some restrictions apply; see EOC)	60%
• Immunizations	100% (some restrictions apply; see EOC)	60%
• Well Woman Exams	100% (some restrictions apply; see EOC)	60%
• Mammograms	80%	60%
• Adult Periodic Exams w/Preventive Tests	100% (some restrictions apply; see EOC)	60%
• Diagnostic X-Ray and Lab Tests	80%	60%
Maternity Care		
• Pregnancy and Maternity Care ( <i>Pre-Natal Care</i> )	80%	60%
Inpatient Hospital Services		
• Inpatient Hospitalization	80%	60%
• Pre-Authorization of Services Required	Yes	Yes
• Semi-Private Room & Board, including Services and Supplies	80%	60%
Surgical Services		
• Outpatient Facility Charge	80%	60%

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Benefit Categories	PERS Choice	
	In-Network	Out-of-Network
Emergency Room	\$50 copay; waived if admitted	\$50 copay; waived if admitted
Ambulance		
• Air	80%	80%
• Ground	80%	80%
Urgent Care	\$20 copay	60%
Mental Health Benefits		
• Inpatient Care	80%	60%
• Outpatient Care	\$20 copay/office visit; 80% facility	60%
Substance Abuse		
• Inpatient Hospitalization	80%	60%
• Outpatient Services	\$20 copay/office visit 80% facility	60%
Prescription Drugs		
• Retail		
– Generic	\$5 copay	\$5 copay
– Brand ( <i>Formulary/Preferred</i> )	\$20 copay	\$20 copay
– Brand ( <i>Non-Formulary / Non-Preferred</i> )	\$50 copay	\$50 copay
– Number of Days Supply	30 days	30 days
• Mail Order		
– Generic	\$10 copay (\$1,000 copay/ person/cal year; excludes non-preferred brands)	\$10 copay (\$1,000 copay/ person/cal year; excludes non-preferred brands)
– Brand ( <i>Formulary/Preferred</i> )	\$40 copay (\$1,000 copay/ person/cal year; excludes non-preferred brands)	\$40 copay (\$1,000 copay/ person/cal year; excludes non-preferred brands)
– Brand ( <i>Non-Formulary / Non-Preferred</i> )	\$100 copay (\$1,000 copay/ person/cal year; excludes non-preferred brands)	\$100 copay (\$1,000 copay/ person/cal year; excludes non-preferred brands)
– Number of Days Supply	90 days	90 days

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Benefit Categories	PERS Choice	
	In-Network	Out-of-Network
Other Services and Supplies		
• Durable Medical Equipment & Prosthetic Devices	80% (pre-certification required for equipment)	60% (pre-certification required for equipment)
• Home Health Care	80% (up to 45 visits/cal year; pre-authorization required)	60% (up to 45 visits/cal year; pre-authorization required)
• Skilled Nursing or Extended Care Facility	80% first 10 days; 70% next 90 days (pre-certification required; up to 100 days/cal year)	60% (pre-certification required; up to 100 days/cal year)
• Hospice Care	80%	80%
• Chiropractic Services	\$15 copay; combined with Acupuncture; up to 20 visits/cal year	60% combined with Acupuncture; up to 20 visits/cal year
• Acupuncture	\$15 copay; combined with Chiropractic; up to 20 visits/cal year	60% combined with Chiropractic; up to 20 visits/cal year
Hearing		
• Screening	80%	60%
• Aid(s)	80% (\$1,000 every 36 months)	60% (\$1,000 every 36 months)
Infertility		
• Diagnosis	Not covered	Not covered
• Treatment	Not covered	Not covered
Outpatient Rehabilitative Therapy Services		
• Physical	80% up to 24 visits/cal year	60% up to 24 visits/cal year
• Occupational	80% up to 24 visits/cal year	80% up to 24 visits/cal year
• Speech	80% up to 24 visits/cal year	60% up to 24 visits/cal year

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Benefit Categories	PERSCare	
	In-Network	Out-of-Network
General Plan Information		
• Annual Deductible		
– Individual	\$500 (not transferable between plans)	\$500 (not transferable between plans)
– Family	\$1,000 (not transferable between plans)	\$1,000 (not transferable between plans)
• Coinsurance	90%	60%
• Office Visit / Exam	\$20 copay	60%
• Outpatient Specialist Visit	\$20 copay	60%
• Annual Out-of-Pocket Limit		
– Individual	\$2,000	\$2,000
– Family	\$4,000	\$4,000
• Lifetime Plan Maximum	Unlimited	Unlimited
Preventive Services		
• Well Child Care	100% (some restrictions apply; see EOC)	60%
• Immunizations	100% (some restrictions apply; see EOC)	60%
• Well Woman Exams	100% (some restrictions apply; see EOC)	60%
• Mammograms	90%	60%
• Adult Periodic Exams w/Preventive Tests	100% (some restrictions apply; see EOC)	60%
• Diagnostic X-Ray and Lab Tests	90%	60%
Maternity Care		
• Pregnancy and Maternity Care ( <i>Pre-Natal Care</i> )	90%	60%
Inpatient Hospital Services		
• Inpatient Hospitalization	\$250/admission	\$250/admission
• Pre-Authorization of Services Required	Yes	Yes
• Semi-Private Room & Board, including Services and Supplies	90%	60%
Surgical Services		
• Outpatient Facility Charge	90%	60%

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Benefit Categories	PERSCare	
	In-Network	Out-of-Network
Emergency Room	\$50 copay/ER Room; 90% all other services	\$50 copay/ER Room; 90% all other services
Ambulance		
• Air	90%	90%
• Ground	90%	90%
Urgent Care	\$20 copay	60%
Mental Health Benefits		
• Inpatient Care	90% after \$250 admit fee	60% after \$250 admit fee
• Outpatient Care	\$20 copay/office visit; 90% facility	60%
Substance Abuse		
• Inpatient Hospitalization	90% after \$250 admit fee	60% after \$250 admit fee
• Outpatient Services	\$20 copay/office visit 90% facility	60%
Prescription Drugs		
• Retail		
– Generic	\$5 copay	\$5 copay
– Brand ( <i>Formulary/Preferred</i> )	\$20 copay	\$20 copay
– Brand ( <i>Non-Formulary / Non-Preferred</i> )	\$50 copay	\$50 copay
– Number of Days Supply	34 days	N/A
• Mail Order		
– Generic	\$10 copay (\$1,000 copay/ person/cal year; excludes non-preferred brands)	\$10 copay (\$1,000 copay/ person/cal year; excludes non-preferred brands)
– Brand ( <i>Formulary/Preferred</i> )	\$40 copay (\$1,000 copay/ person/cal year; excludes non-preferred brands)	\$40 copay (\$1,000 copay/ person/cal year; excludes non-preferred brands)
– Brand ( <i>Non-Formulary / Non-Preferred</i> )	\$100 copay (\$1,000 copay/ person/cal year; excludes non-preferred brands)	\$100 copay (\$1,000 copay/ person/cal year; excludes non-preferred brands)
– Number of Days Supply	90 days	90 days

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**APPENDIX B – SUBSTANTIVE PLAN PROVISIONS**

Benefit Categories	PERSCare	
	In-Network	Out-of-Network
Other Services and Supplies		
• Durable Medical Equipment & Prosthetic Devices	90% (pre-certification required for equipment \$1,000+)	60% (pre-certification required for equipment \$1,000+)
• Home Health Care		
• Skilled Nursing or Extended Care Facility	90% first 10 days; 80% next 170 days (pre-certification required; up to 180 days/cal year)	60% (pre-certification required; up to 180 days/cal year)
• Hospice Care		
• Chiropractic Services	\$15 copay combined with Acupuncture; up to 20 visits/cal year	60% combined with Acupuncture; up to 20 visits/cal year
• Acupuncture	\$15 copay; combined with Chiropractic; up to 20 visits/cal year	60% combined with Chiropractic; up to 20 visits/cal year
Hearing		
• Screening	90%	60%
• Aid(s)	90% (\$1,000 every 36 months)	60% (\$1,000 every 36 months)
Infertility		
• Diagnosis	Not covered	Not covered
• Treatment	Not covered	Not covered
Outpatient Rehabilitative Therapy Services		
• Physical	90%	60%
• Occupational	90%	60%
• Speech	90% up to 24 visits/cal year	60% up to 24 visits/cal year

**Changes since Last Valuation**

None.

**APPENDIX C – GLOSSARY OF TERMS**

**1. Actuarial Assumptions**

Assumptions as to the occurrence of future events affecting costs, such as: mortality, withdrawal, disablement and retirement; changes in compensation and Government provided benefits; rates of investment earnings and asset appreciation or depreciation; procedures used to determine the Actuarial Value of Assets; characteristics of future entrants for Open Group Actuarial Cost Methods; and other relevant items.

**2. Actuarial Cost Method**

A procedure for determining the Actuarial Present Value of Plan benefits and expenses and for developing an actuarially equivalent allocation of such value to time periods, usually in the form of a Normal Cost and an Actuarial Liability.

**3. Actuarial Gain (Loss) (Called Actuarial Experience Gain and Loss)**

A measure of the difference between actual experience and that expected based upon a set of Actuarial Assumptions during the period between two Actuarial Valuation dates, as determined in accordance with a particular Actuarial Cost Method.

**4. Actuarial Liability**

That portion, as determined by a particular Actuarial Cost Method, of the Actuarial Present Value of projected benefits which will not be paid by future Normal Costs.

**5. Actuarial Present Value (Present Value)**

The value of an amount or series of amounts payable or receivable at various times, determined as of a given date by the application of a particular set of Actuarial Assumptions. For purposes of this standard, each such amount or series of amounts is:

- a. adjusted for the probable financial effect of certain intervening events (such as changes in compensation levels, Social Security, marital status, etc.),
- b. multiplied by the probability of the occurrence of the event (such as survival, death, disability, termination of employment, etc.) on which the payment is conditioned, and
- c. discounted according to an assumed rate (or rates) of return to reflect the time value of money.

As a simple example: assume you owe \$100 to a friend one year from now. Also, assume there is a 1% probability of your friend dying over the next year, in which case you won't be obligated to pay him. If the assumed investment return is 10%, the actuarial present value is:

Amount		Probability of Payment		$\frac{1}{(1+\text{Discount Rate})}$	
\$100	x	(1 - .01)	x	1/(1+.1)	= \$90

**APPENDIX C – GLOSSARY OF TERMS**

**6. Actuarial Valuation**

The determination, as of a valuation date, of the Normal Cost, Actuarial Liability, Actuarial Value of Assets, and related Actuarial Present Values for the Plan.

**7. Actuarial Value of Assets**

The value of cash, investments and other property belonging to a Plan, as used by the actuary for the purpose of an Actuarial Valuation. The purpose of an Actuarial Value of Assets is to smooth out fluctuations in market values. This way, long-term costs are not distorted by short-term fluctuations in the market.

**8. Amortization**

The portion of the Plan contribution which is designed to pay interest on and to amortize the Unfunded Actuarial Liability.

**9. Discount Rate**

The estimated long-term interest yield on the investments that are expected to be used to finance the payment of benefits, with consideration given to the nature and mix of current and expected investments and the basis used to determine the Actuarial Value of Assets.

**10. Funded Ratio**

The Actuarial Value of Assets expressed as a percentage of the Actuarial Liability.

**11. Normal Cost**

That portion of the Actuarial Present Value of the Plan benefits and expenses which is allocated to a valuation year by the Actuarial Cost Method.

**12. Per Person Cost Trend, i.e., Healthcare Cost Trend Rate**

The rate of change in per capita health claims costs over time as a result of factors such as medical inflation, utilization of healthcare services, plan design, and technological developments.

**13. Projected Unit Credit Actuarial Cost Method**

A method under which the benefits (projected or un-projected) of each individual included in an actuarial valuation are allocated by a consistent formula to valuation years.

**14. Unfunded Actuarial Liability**

The excess of the Actuarial Liability over the Actuarial Value of Assets.



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**APPENDIX D – ABBREVIATION LIST**

Actuarial Liability (AL)  
Actuarial Valuation Report (AVR)  
Annual Required Contribution (ARC)  
Coordination of Benefits (COB)  
Deductible and Coinsurance (DC)  
Durable Medical Equipment (DME)  
Employee Assistance Program (EAP)  
Employee Benefits Division (EBD)  
Fiscal Year Ending (FYE)  
Governmental Accounting Standards Board (GASB)  
Hospital Emergency Room (ER)  
In-Network (INN)  
Inpatient (IP)  
Line of Duty Act (LODA)  
Medicare Eligible (ME)  
Net Other Postemployment Benefit (NOO)  
Non-Medicare Eligible (NME)  
Not Applicable (NA)  
Office Visit (OV)  
Other Postemployment Benefit (OPEB)  
Out-of-Network (OON)  
Out-of-Pocket (OOP)  
Outpatient (OP)  
Pay-as-you-go (PAYGo)  
Per Person Per Month (PPPM)  
Pharmacy (Rx)  
Preferred Provider Organization (PPO)  
Primary Care Physician (PCP)  
Specialist Care Provider (SCP)  
Summary Plan Description (SPD)  
Unfunded Actuarial Liability (UAL)  
Urgent Care (UC)