



VALUATION REPORT

London Borough of Newham Pension Fund

Actuarial valuation as at 31 March 2019

Dr Barry McKay FFA | Barnett Waddingham LLP



Introduction

We have been asked by London Borough of Newham, the administering authority for the London Borough of Newham Pension Fund (the Fund), to carry out an actuarial valuation of the Fund as at 31 March 2019. The Fund is part of the Local Government Pension Scheme (LGPS), a defined benefit statutory scheme administered in accordance with the Local Government Pension Scheme Regulations 2013 (the Regulations) as amended.

The purpose of the valuation is to review the financial position of the Fund and to set appropriate contribution rates for each employer in the Fund for the period from 1 April 2020 to 31 March 2023 as required under Regulation 62 of the Regulations. Contributions are set to cover any shortfall between the assumed cost of providing benefits built up by members at the valuation date and the assets held by the Fund and also to cover the cost of benefits that active members will build up in the future.

This report is provided further to earlier advice dated 27 September 2019 which set out the background to the valuation and explained the underlying methods and assumptions derivation.

This report summarises the results of the valuation and is addressed to the administering authority of the Fund. It is not intended to assist any user other than the administering authority in making decisions or for any other purpose and neither we nor Barnett Waddingham LLP accept liability to third parties in relation to this advice.

This advice complies with Technical Actuarial Standards (TASs) issued by the Financial Reporting Council – in particular TAS 100: Principles for Technical Actuarial Work and TAS 300: Pensions.

We would be pleased to discuss any aspect of this report in more detail.

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Executive summary

Some of the key results contained within this report are set out below:

1.

Funding position

Using the agreed assumptions, the Fund had assets sufficient to cover 96% of the accrued liabilities as at 31 March 2019. This has increased from 85% as at 31 March 2016. This is mainly due to strong investment returns achieved by the Fund, however the gains have been partially offset by a reduction in future returns.

2.

Contributions

The average primary rate has increased from 14.5% to 17.0% of pay since the 2016 valuation. Secondary contributions have typically decreased due to the improved funding level. Total contributions have therefore been kept as stable as possible. Individual employer contributions are set out in Appendix 4 in the Rates and Adjustments Certificate to cover the period from 1 April 2020 to 31 March 2023.

3.

Method and assumptions

The resulting method and assumptions are set out in Appendix 2 and we believe they are appropriate for the 31 March 2019 valuation.

4.

McCloud

Regulatory uncertainties have put upward pressure on the 2019 valuation results. An allowance for McCloud/Sargeant has been made in the discount rate and more detail is included within this report.

5.

Next valuation

Despite the consultation to move local actuarial valuations to a quadrennial cycle, the next actuarial valuation should be carried out with an effective date of 31 March 2022.

Background to valuation approach

The purpose of the 2019 actuarial valuation is to set appropriate contribution rates for each employer in the Fund for the period from 1 April 2020 to 31 March 2023, as required under Regulation 62 of the LGPS Regulations.

The contribution rates consist of two elements, the primary rate and the secondary rate:

- The primary rate for each employer is the employer's future service contribution rate (i.e. the rate required to meet the cost of future accrual of benefits) expressed as a percentage of pay.
- The secondary rate is an adjustment to the primary rate to arrive at the total rate each employer is required to pay (for example, to allow for deficit recovery). The secondary rate may be expressed as a percentage of pay or a monetary amount.

Regulation 62 specifies four requirements that the actuary "must have regard" to and these are detailed below:

1. The existing and prospective liabilities arising from circumstances common to all those bodies
2. The desirability of maintaining as nearly a constant a primary rate as possible
3. The current version of the administering authority's Funding Strategy Statement (FSS)

4. The requirement to secure the "solvency" of the pension fund and the "long-term cost efficiency" of the Scheme, so far as relating to the pension fund

The wording of the second objective is not ideal in that it appears to be aimed towards the primary rate rather than taking into account the surplus or deficit of the employer. We believe that if we achieve reasonably stable total individual employer rates (which seems like a preferable objective) then we will also meet the regulatory aim.

Definitions for "solvency" and "long-term cost efficiency" are included in CIPFA's Funding Strategy Statement guidance. These can be briefly summarised as:

- ensuring that employers are paying in contributions that cover the cost of benefit accrual and target a fully funded position over an appropriate time period using appropriate actuarial assumptions, and
- ensuring that employers have the financial capacity to increase contributions (or there is an alternative plan in place) should contributions need to be increased in future.

We have considered these four requirements when providing our advice and choosing the method and assumptions used. A number of reports and discussions have taken place with the administering authority before agreeing

the final assumptions to calculate the results and set contribution rates. In particular:

- The initial results report dated 27 September 2019 which provides information and results on a whole fund basis as well as more detailed background to the method and derivation of the assumptions.
- The Funding Strategy Statement which will confirm the approach in setting employer contributions.

Note that all these documents are not necessarily in the public domain.

The final assumptions have been agreed with the administering authority. We suggest that the Fund's Funding Strategy Statement is reviewed to ensure that it is consistent with this approach as well as complying with the updated version of CIPFA's Funding Strategy Statement guidance.

We confirm that in our opinion the agreed assumptions are appropriate for the purpose of the valuation. Assumptions in full are set out in Appendix 2.

Regulatory uncertainties

There are currently a few important regulatory uncertainties surrounding the 2019 valuation as follows:

- Effect of the McCloud and Sargeant cases and the cost cap on the future and historic LGPS benefits structure
- Change in timing of future actuarial valuations from a triennial cycle
- Guaranteed Minimum Pensions (GMP) equalisation

Although it is unclear what impact these uncertainties will have on the future benefits of individual members, we have considered these issues in the assumptions used to set the contribution rates for employers. We have made an allowance for the McCloud/Sargeant cases in our derivation of the discount rate and our approach taken to the treatment of McCloud/Sargeant will be disclosed in the Funding Strategy Statement.

Membership data

A summary of the membership data used for the valuation is set out in Appendix 1.

The membership data has been checked for reasonableness and we have compared the membership data with information in the Fund accounts. Any missing or inconsistent data has been estimated where necessary. While this should not be seen as a full audit of the data, we are happy that the data is sufficiently accurate for the purposes of the valuation.

Benefits

Full details of the benefits being valued are set out in the Regulations as amended and summarised on the [LGPS website](#) and the Fund's membership booklet. We have made no allowance for discretionary benefits.

Valuation of liabilities

To calculate the value of the liabilities, we estimate the future cashflows which will be made to and from the Fund throughout the future lifetime of existing active members, deferred benefit members, pensioners and their dependants.

We then discount these projected cashflows using the discount rate which is essentially a calculation of the amount of money which, if invested now, would be sufficient together with the income and growth in the accumulating assets to make these payments in future, using our assumption about investment returns.

This amount is called the present value (or, more simply, the value) of members' benefits. Separate calculations are made in respect of benefits arising in relation to membership before the valuation date (past service) and for membership after the valuation date (future service).

To produce the future cashflows or liabilities and their present value we need to formulate assumptions about the factors affecting the Fund's future finances such as inflation, salary increases, investment returns, rates of mortality, early retirement and staff turnover etc.

The assumptions used in projecting the future cashflows in respect of both past service and future service are summarised in Appendix 2.

Assets

We have been provided with audited Fund accounts for each of the three years to 31 March 2019.

The market asset valuation as at 31 March 2019 was £1,436,011,000. Please note that this excludes members' additional voluntary contributions (AVCs).

For the purposes of the valuation, we use a smoothed value of the assets rather than the market value. The financial assumptions that we use in valuing the liabilities are smoothed around the valuation date so that the market conditions used are the average of the daily observations over the period 1 January 2019 to 30 June 2019. Therefore we value the assets in a consistent way and apply the same smoothing adjustment to the market value of the assets.

The smoothed asset valuation as at 31 March 2019 was £1,432,000,000. This was based on a smoothing adjustment of 99.7%.

The Fund's long-term investment strategy has been taken into consideration in the derivation of the discount rate assumption. The investment strategy is set out in the Fund's Investment Strategy Statement (ISS) that should be made publicly available on the Fund's website.

Previous valuation

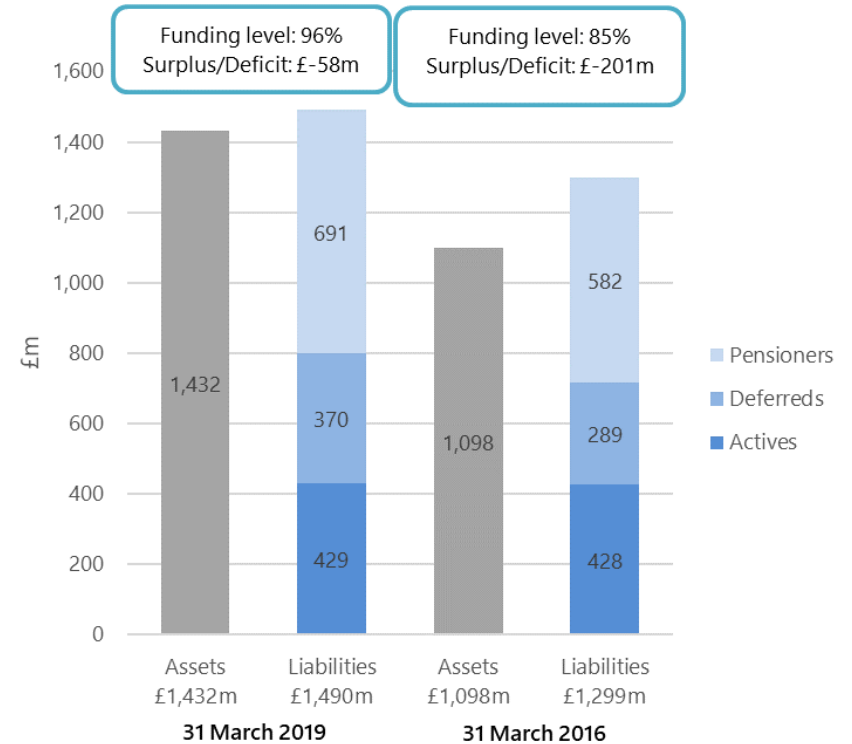
The previous valuation was carried out as at 31 March 2016 by Barnett Waddingham LLP. The results are summarised in the valuation report dated 31 March 2017 and reported a deficit of £201,000,000.

Results

Funding position

A comparison is made of the value of the existing assets with the value of the accrued liabilities. If there is an excess of assets over the liabilities then there is a surplus. If the converse applies there is a deficit.

Using the assumptions summarised in Appendix 2, the results of the valuation in terms of funding position are set out in the graph below. This shows how well funded the Fund was at the current and previous valuation dates.



There was a deficit of £58,000,000 in the Fund at the valuation date, corresponding to a funding level of 96%.

Contribution rates

The total contribution rate payable by employers consists of two elements: the primary rate and the secondary rate.

Primary rate

Using the assumptions summarised in Appendix 2, the resulting average primary rate across the whole Fund is set out in the table below after allowing for member contributions.

The primary rate for the whole Fund is the weighted average (by Pensionable Pay) of the individual employers' primary rates (after allowing for member contributions).

Primary rate	Valuation basis	Previous valuation
	31 March 2019 % of payroll p.a.	31 March 2016 % of payroll p.a.
Average total future service rate	23.6%	21.2%
Less average member rate	-6.6%	-6.7%
Fund primary rate	17.0%	14.5%

Active members pay contributions to the Fund as a condition of membership in line with the rates required under the Regulations.

Please note that expenses are dealt with in the derivation of the discount rate and therefore we make no explicit allowance in the primary rate for expenses.

Secondary rate

The secondary rate is an adjustment to the primary rate to arrive at the total rate each employer is required to pay (for example, to allow for deficit recovery). Where there is a deficit, contributions should be set to restore the funding positions to 100% over an agreed "recovery period".

Please note that the recovery period for individual employers varies across the Fund but the administering authority will set out their approach in their FSS to setting recovery periods to address each employer's shortfalls. Where there is a surplus, in line with the Fund's FSS this may be reflected in contribution rates.

The primary and secondary rate of the individual employer contributions payable are set out in the Rates and Adjustments Certificate in Appendix 4. These will differ from the primary rate set out above as well as varying from each other as they are either based on the employer's own membership and experience.

The secondary contributions agreed with individual employers have been set at this valuation in order to restore the Fund to a funding position of 100% over a period of up to 17 years to 31 March 2037.

In Appendix 4 we also disclose the sum of the secondary rates for the whole Fund for each of the three years beginning 1 April 2020.

Standardised basis

As part of our calculations we have considered the results on the standardised basis as set by the Scheme Advisory Board (SAB). We are required to provide

the Scheme Advisory Board with the results for the Fund for comparison purposes.

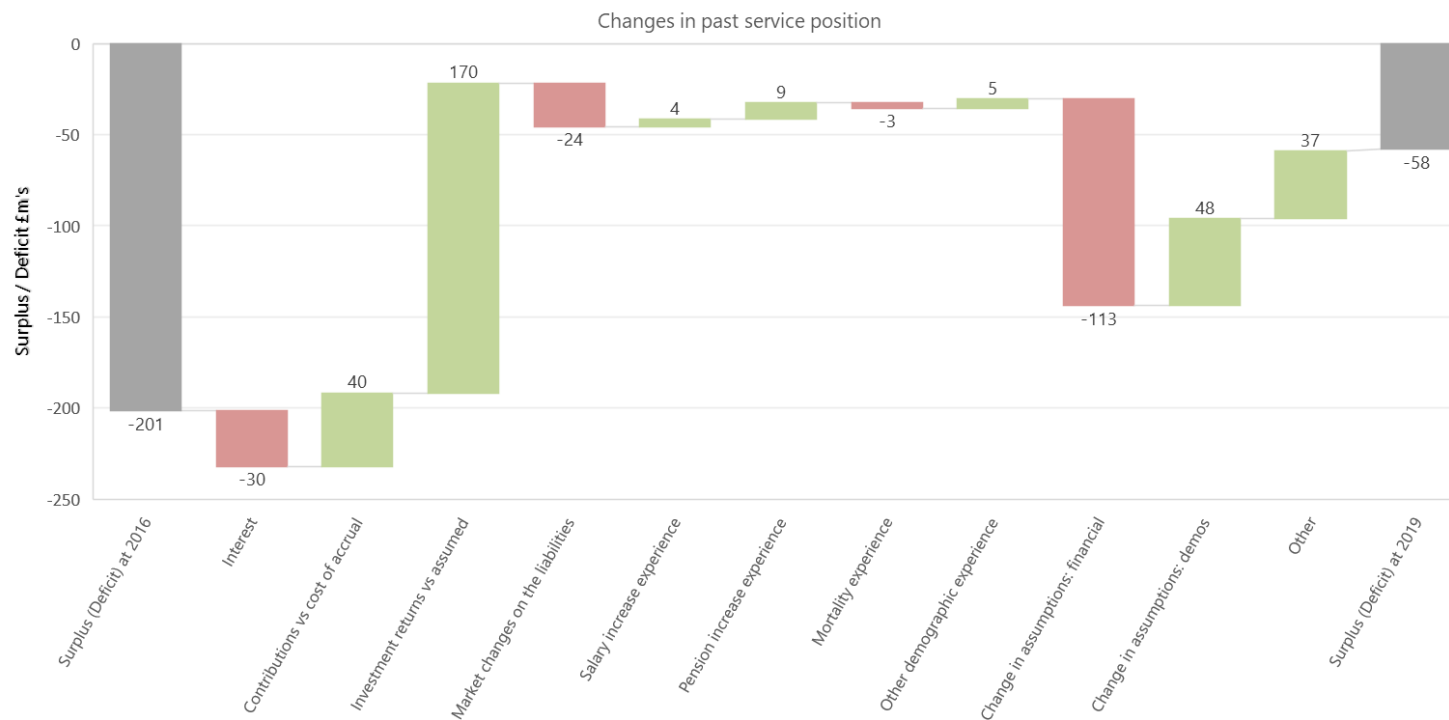
The standardised basis is set by the Government Actuary's Department (GAD) with some of the assumptions used being set locally (such as mortality) and some are set at Scheme level (including all the financial assumptions). It is not used to set contributions as it does not reflect the Fund's investment strategy or the administering authority's attitude to risk; contributions are set using the funding basis.

The results on the standardised basis as at 31 March 2019 are set out in the dashboard in Appendix 3. The dashboard has been introduced since the previous valuation to assist readers to compare LGPS valuation reports and the information will be used by GAD in their Section 13 review of the LGPS funds.

Reconciliation to the previous valuation

Funding position

The previous valuation revealed a deficit of £201,000,000. The key factors that have influenced the funding level of the Fund over the period are illustrated in the chart below.



Experience

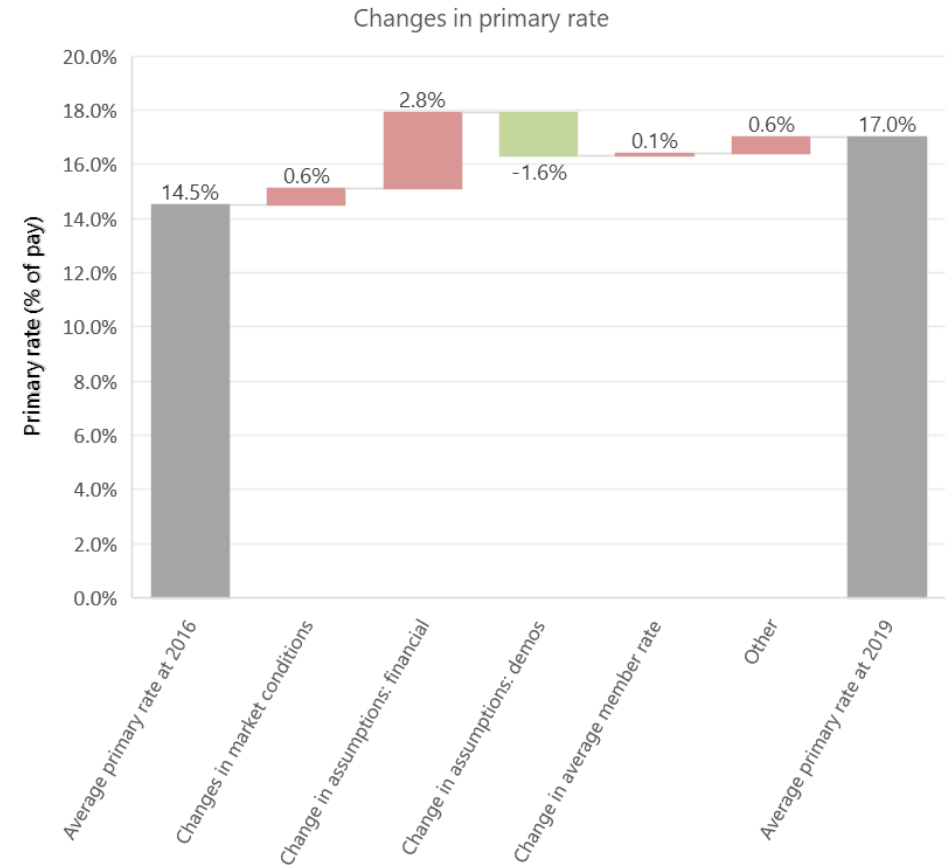
- Investment returns have been strong since 2016 leading to an estimated improvement in the position of around £170m. The Fund has returned around 10% p.a. compared with the assumed return of around 5.4% p.a. over the three year period. Please note that the assumed return is a long-term assumption.
- Contributions paid were higher than the cost of benefits accrued as the employers made deficit contributions resulting in an improvement in the position of around £40m.
- Salary increases were lower than assumed and pension increases were slightly less than assumed resulting in an overall profit of £13m.

Assumptions

- A review of the approach when setting the financial assumptions combined with the change in market conditions resulted in an increase in the liabilities of £137m.
- Updating the mortality assumptions, mainly to allow for a fall in future life expectancies, resulted in a decrease in the liabilities of £48m.

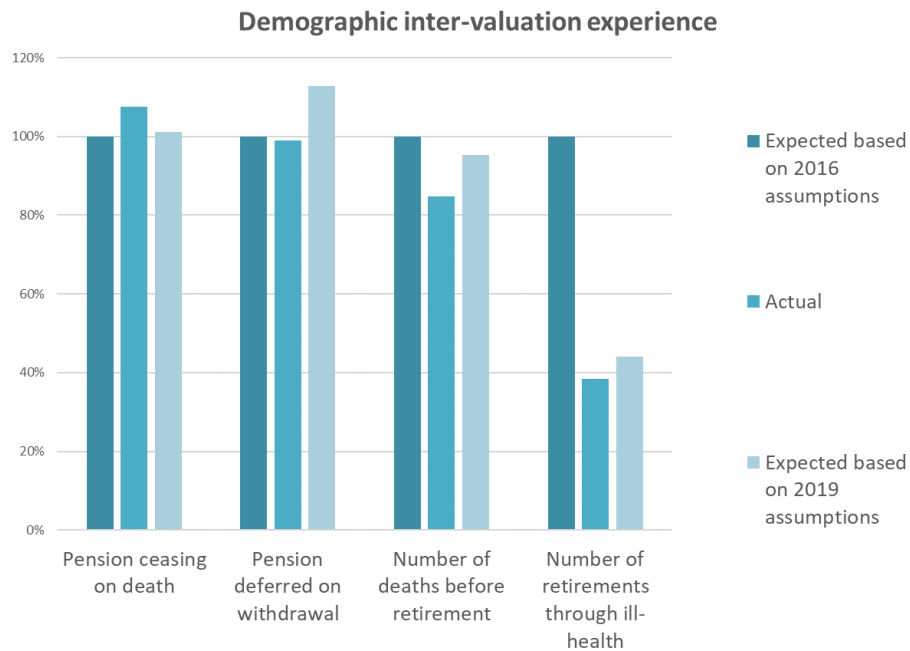
Primary contribution rate

The previous valuation resulted in an average primary rate of 14.5% of Pensionable Pay. The reasons for the change in the cost of future benefit accrual are set out in the reconciliation chart below.



Comparing experience with assumptions

A comparison of the actual demographic experience of members of the Fund over the intervalation period, with that assumed by the assumptions adopted at the last valuation in 2016 is shown in the graph below. The graph also shows how the assumptions adopted for this valuation would have compared with those adopted at 2016.



Sensitivities to the liabilities

The results set out in this report are based on a particular set of assumptions. The actual cost of providing the benefits will depend on the actual experience, which could be significantly better or worse than assumed. The sensitivity of the results to some of the key assumptions is set out in the table below.

Sensitivity analysis - Past service funding position

Valuation basis	Decrease discount rate by 0.1% p.a.	Increase CPI inflation by 0.1%	Increase salary assumption by 0.5%	Increase initial addition to mortality improvement by 0.5%	Increase long-term rate of mortality improvement by 0.25%
£m	£m	£m	£m	£m	£m
Smoothed asset value	1,432	1,432	1,432	1,432	1,432
Total past service liabilities	1,490	1,515	1,498	1,501	1,507
Surplus (Deficit)	-58	-83	-66	-69	-75
Funding level	96%	95%	96%	95%	95%

Sensitivities to the primary contribution rate

The calculated primary contribution rate required to fund benefits as they are earned from year to year will also be affected by the particular set of assumptions chosen. The sensitivity of the primary rate to changes in some key assumptions is shown below. Please note that the primary rate set out below does not include any adjustment via the secondary rate. The total contribution rate payable by employers will be a combination of the primary rate and a secondary rate adjustment, further details can be found in Appendix 4.

The figures in the table are shown relative to the primary rate of 17.0% of Pensionable Pay on the agreed funding basis.

Sensitivity analysis - Primary rate

	Valuation basis	Decrease discount rate by 0.1% p.a.	Increase CPI inflation by 0.1%	Increase initial addition to mortality improvement by 0.5%	Increase long-term rate of mortality improvement by 0.25%
	% of pay	% of pay	% of pay	% of pay	% of pay
Total future service rate	23.6%	24.2%	23.8%	23.8%	23.8%
less employee contribution rate	-6.6%	-6.6%	-6.6%	-6.6%	-6.6%
Total primary rate	17.0%	17.6%	17.2%	17.2%	17.2%

Final comments

Funding Strategy Statement (FSS)

The assumptions used for the valuation must be documented in a revised Funding Strategy Statement to be agreed between the Fund Actuary and the administering authority.

Risks

There are many factors that affect the Fund's funding position and could lead to the Fund's funding objectives not being met within the timescales expected. Some of the key risks that could have a material impact on the Fund are:

- Employer covenant risk
- Investment risk
- Inflation risk
- Mortality risk
- Member options risk
- Regulatory risk

Sensitivity to some of these risks were set out in the sensitivities section of this report. Please note that this is not an exhaustive list. Further information on these risks and more can be found in our initial results report and will be set out in greater detail in the Funding Strategy Statement.

Rates and Adjustments Certificate

The contributions payable in respect of benefit accrual and any deficit contributions under each employer's recovery period have been set out in Appendix 4 in the Rates and Adjustments Certificate in accordance with Regulation 62 of the Regulations and cover the period from 1 April 2020 to 31 March 2023. In this certificate no allowance will be made for additional costs arising which need to be met by additional contributions by the employer such as non-ill health early retirements.

The contributions in the Rates and Adjustments Certificate are set so that each employer's assets (including future contributions) are projected to be sufficient to cover the benefit payments for their members, on the assumptions set out in this report. Where there is currently a deficit for an individual employer, recovery of this deficit is targeted in line with the Fund's FSS and all employers are projected to be fully funded after a recovery period length of up to 17 years with effect from the 2019 valuation.

This document has been agreed between the administering authority and the Fund Actuary. Contributions have been set which in our opinion meet the regulatory requirements and the funding objectives set out in the Fund's Funding Strategy Statement.

This report must be made available to members on request.

Post valuation events

Since the valuation date there has been some very significant movements in investment markets and in particular over the three months to 31 March 2020, largely driven by the COVID-19 crisis. However, our funding model is designed to help withstand short-term volatility in markets as it is a longer term model and we also use smoothed assumptions over a six-month period with the ultimate aim of setting stable contributions for employers.

Therefore, although the falls in equity and corporate bond markets have been significant, the ongoing funding position under our model will not have fallen to the same extent, as the model helps to mitigate some of the impact of extreme events.

Due to the timing of these movements in the valuation process, and to the anticipated effect on the ongoing funding position, please note that no adjustments have been made to the valuation results or to the employer contributions previously agreed. The results are based on the position as at 31 March 2019 and this information on "post valuation events" is provided for information only.

We will continue to monitor the Fund's funding position and raise any individual employer cases with the Fund that we consider need any special attention. The impact of the COVID-19 crisis will be fully considered as part of the 2022 valuation when we revisit employer contributions.

The next formal valuation is due to be carried out as at 31 March 2022 however we would recommend that the financial position of the Fund is monitored regularly during the period leading up to the next formal valuation. We would be happy to give more detail about the ways that this can be achieved.



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Barnett Waddingham LLP

Appendices

Appendix 1 Summary of membership data and benefits

Membership data

The membership data has been provided to us by the Local Pensions Partnership (LPP) on behalf of the Fund's administrators. We have relied on information supplied by the administering authority being accurate.

The membership data has been checked for reasonableness and we have compared the membership data with information in the Fund's accounts. The numbers in the tables below relate to the number of records and so will include members in receipt of, or potentially in receipt of, more than one benefit. The active and deferred membership will differ from the data in the Fund's accounts. This is due to us being made aware of a number of unprocessed leavers who were included as active members in the valuation data, but actually left before 31 March 2019. We have allowed for these members as deferred, however in the Fund's accounts they will be allowed for as active members. .

Any missing or inconsistent data has been estimated where necessary. Whilst this should not be seen as a full audit of the data, we are happy that the data is sufficiently accurate for the purposes of the valuation.

Membership summary

A summary of the membership data used in the valuation is as follows. The membership data from the previous valuation is also shown for comparison. The 2019 average ages are weighted by liability calculated on the funding basis, while the 2016 average ages are unweighted.

Active members

	31 March 2019			31 March 2016		
	Number	Pensionable pay £ms	Average age	Number	Pensionable pay £ms	Average age
Males	2,346	68	54	2,463	66	44
Females	6,379	124	53	5,983	113	45
Total	8,725	192	53	8,446	178	44

For comparison the unweighted average age of active members at the valuation date is 46.

Deferred members (including undecided)

	31 March 2019			31 March 2016		
	Number	Current Pension £ms	Average age	Number	Current Pension £ms	Average age
Males	4,099	10	52	3,445	8	46
Females	8,462	14	52	6,671	11	46
Total	12,561	23	52	10,116	19	46

For comparison the unweighted average age of deferred members at the valuation date is 46.

Pensioner and dependant members

	31 March 2019			31 March 2016		
	Number	Current Pension £ms	Average age	Number	Current Pension £ms	Average age
Males	2,756	24	68	2,591	22	71
Females	3,710	19	67	3,285	15	71
Dependants	1,158	4	67	1,118	4	75
Total	7,624	47	68	6,994	41	72

For comparison, the unweighted average age of pensioner and dependant members at the valuation date is 72.

Projected retirements

In the table below we have set out the number of members who are assumed to reach retirement age over the period from 1 April 2019 to 31 March 2023 as required under the Regulations.

Members may retire for a number of reasons including reaching normal retirement age, retiring through ill-health or redundancy. The amounts set out in the table below are the new retirement benefit amounts, as at the current valuation date that are assumed to come into payment in each of the intervaluation years.

Projected new benefits

Year to	Number of members	Retirement benefits £ms
31/03/2020	479	6
31/03/2021	416	4
31/03/2022	492	5
31/03/2023	506	7

Allowance for GMP equalisation

On 26 October 2018 the judgement was published for the Lloyds Banking Group Pensions Trustees Ltd vs Lloyds Bank Plc & Ors on how their Guaranteed Minimum Pensions (GMPs) should be equalised. However, HM Treasury (HMT) have confirmed that the GMP judgement “does not impact on the current method used to achieve equalisation and indexation in public service pension schemes”, which is set out here:

www.gov.uk/government/consultations/indexation-and-equalisation-of-gmp-in-public-service-pension-schemes/consultation-on-indexation-and-equalisation-of-gmp-in-public-service-pension-schemes

On 22 January 2018, the Government published the outcome to its indexation and equalisation of GMP in public service pension schemes consultation, concluding that the requirement for public service pension schemes to fully

protect the GMP element of individuals' public service pension would be extended to those individuals reaching State Pension Age (SPA) before 6 April 2021. HMT published a Ministerial Direction on 4 December 2018 to implement this outcome, with effect from 6 April 2016.

The assumption made at the 2019 valuation is that funds pay limited increases for members that have reached SPA by 6 April 2016, with the Government providing the remainder of the inflationary increase and that funds will be required to pay the full indexation on GMPs for those attaining SPA after 6 April 2016. This effectively assumes that the Government extends their current policy indefinitely and we believe this is a sensible approach to making an interim allowance for GMP equalisation.

Appendix 2 Summary of assumptions

A summary of the assumptions adopted for the valuation at 31 March 2019 is set out below. The assumptions used in the previous valuation are also given below for comparison.

Summary of financial assumptions

Assumptions	Assumptions used for the 2019 valuation	Assumptions used for the 2016 valuation
Financial assumptions		
Market date	31 March 2019	31 March 2016
CPI inflation	2.6% p.a.	2.4% p.a.
Salary increases		
<i>Short-term</i>	n/a	CPI to 31 March 2020
<i>Long-term</i>	3.6% p.a.	3.9% p.a.
Discount rate	5.0% p.a.	5.4% p.a.
Pension increases on GMP	Funds will pay limited increases for members that have reached SPA by 6 April 2016, with the Government providing the remainder of the inflationary increases. For members that reach SPA after this date , we have assumed that Funds are required to pay the entire inflationary increases	

Summary of demographic assumptions

Assumptions	Assumptions used for the 2019 valuation	Assumptions used for the 2016 valuation
Demographic assumptions		
Post-retirement mortality	Male / Female	Male / Female
<i>Member base tables</i>	S3PA_H	S2PA
<i>Member mortality multiplier</i>	90% / 95%	100% / 95%
<i>Dependant base tables</i>	S3DA	S2DFA / S2PMA
<i>Dependant mortality multiplier</i>	100%	100% / 95%
<i>Projection model</i>	CMI 2018	CMI 2015
<i>Long-term rate of improvement</i>	1.25% p.a.	1.5% p.a.
<i>Smoothing parameter</i>	7.5	n/a
<i>Initial addition to improvements</i>	0.5% p.a.	n/a
Retirement assumption	Weighted average of each tranche retirement age	
Pre-retirement decrements	GAD 2016 scheme valuation with no salary scale with 125% multiplier for males and 100% multiplier for females, 50% IH decrement	GAD 2013 scheme valuation
50:50 assumption	Member data	Member data
Commutation	50% of maximum	50% of maximum
% members with qualifying dependant	75% / 70%	75% / 70%
Age difference	Males are 3 years older	Males are 3 years older

Demographic assumptions – sample rates

The following tables set out some sample rates of the demographic assumptions used in the calculations. These sample rates are based on those set by the Government Actuary's Department (GAD) based on analysis of the Local Government Pension Scheme (LGPS) in England and Wales.

Allowance for ill-health early retirements

A small proportion of members are assumed to retire early due to ill health. In the table below we set out an extract of some sample rates from the GAD tables used:

Age	Males	Females
25	0.01%	0.00%
30	0.01%	0.01%
35	0.02%	0.01%
40	0.04%	0.03%
45	0.09%	0.06%
50	0.18%	0.13%
55	0.36%	0.28%
60	0.74%	0.62%
65	1.51%	1.34%

Please note the above rates are the raw decrements as set by GAD. Our assumption is that there will be 50% of the number of ill-health retirements assumed by GAD.

The proportion of ill-health early retirements falling into each tier category has been assumed to be as follows for both males and females:

Tier 1	Tier 2	Tier 3
75%	15%	10%

Death before retirement

A small number of members are assumed to die before reaching retirement age. In the table below we set out an extract of some sample rates from the GAD tables used:

Age	Males	Females
25	0.02%	0.01%
30	0.03%	0.01%
35	0.05%	0.02%
40	0.06%	0.03%
45	0.09%	0.05%
50	0.13%	0.08%
55	0.21%	0.12%
60	0.32%	0.19%
65	0.50%	0.29%

Please note the above rates are the raw decrements as set by GAD. We have applied a 125% multiplier to the rates assumed by GAD for males.

Allowance for withdrawals

This assumption is regarding active members who leave service to move to deferred member status. Active members are assumed to leave service at the following sample rates:

Age	Males	Females
25	9.21%	10.17%
30	7.25%	8.07%
35	5.70%	6.40%
40	4.48%	5.07%
45	3.53%	4.03%
50	2.78%	3.19%
55	2.18%	2.53%
60	1.72%	2.01%
65	1.35%	1.59%

Appendix 3 Dashboard

Past service funding position - local funding basis

Funding level (assets/liabilities)	96%
Funding level (change since previous valuation)	11%
Asset value used at the valuation	£1,432,000,000
Value of liabilities	£1,490,000,000
Surplus (deficit)	-£58,000,000
Discount rate(s)	5.0% p.a.
Assumed pension increases (CPI)	2.6% p.a.
Method of derivation of discount rate, plus any changes since previous valuation	In line with the Funding Strategy Statement.
Assumed life expectancies at age 65:	
Average life expectancy for current pensioners - men currently age 65	21.2 years
Average life expectancy for current pensioners - women currently age 65	23.8 years
Average life expectancy for future pensioners - men currently age 45	22.7 years
Average life expectancy for future pensioners - women currently age 45	25.4 years

Past service funding position - SAB basis (for comparison purposes only)

Market value of assets	£1,436,011,000
Value of liabilities	£1,425,000,000
Funding level on SAB basis (assets/liabilities)	101%
Funding level on SAB basis (change since last valuation)	13%

Contribution rates payable

Primary contribution rate	17.0% of pay
Secondary contribution rate (cash amounts in each year in line with CIPFA guidance)	
Secondary contribution rate 2020/21	£4,639,000
Secondary contribution rate 2021/22	£4,807,000
Secondary contribution rate 2022/23	£4,981,000
Giving total expected contributions:	
Total expected contributions 2020/21 (£ figure based on assumed payroll of £199.3m)	£38,518,000
Total expected contributions 2021/22 (£ figure based on assumed payroll of £206.6m)	£39,922,000
Total expected contributions 2022/23 (£ figure based on assumed payroll of £214.1m)	£41,376,000
Average employee contribution rate (% of pay)	6.6% of pay
Employee contribution rate (£ figure based on assumed payroll of £199.3m)	£13.2m p.a.
Additional information	
Percentage of liabilities relating to employers with deficit recovery periods longer than 20 years	0%
Percentage of total liabilities that are in respect of Tier 3 employers	3%

Appendix 4 Rates and Adjustments Certificate

Regulatory background

In accordance with Regulation 62 of the Local Government Pension Scheme Regulations we have made an assessment of the contributions that should be paid into the Fund by participating employers for the period 1 April 2020 to 31 March 2023.

The method and assumptions used to calculate the contributions set out in the Rates and Adjustments Certificate are detailed in the Funding Strategy Statement and our report on the actuarial valuation dated March 2020.

The primary rate of contribution as defined by Regulation 62(5) for each employer for the period 1 April 2020 to 31 March 2023 is set out in the table overleaf. The primary rate is the employer's contribution towards the cost of benefits accruing in each of the three years beginning 1 April 2020. In addition each employer pays a secondary contribution as required under Regulation 62(7) that when combined with the primary rate results in the minimum total contributions as set out below. This secondary rate is based on their particular circumstances and so individual adjustments are made for each employer.

Secondary rate summary

The secondary rates across the entire Fund (as a percentage of projected Pensionable Pay and as a monetary amount) in each of the three years in the period 1 April 2020 to 31 March 2023 is set out in the table below.

Secondary Contributions			
Total as a % of payroll	2.3%	2.3%	2.3%
Equivalent to total monetary amounts of	£4.6m	£4.8m	£5.0m

General notes

Employers may pay further amounts at any time and future periodic contributions, or the timing of contributions, may be adjusted on a basis approved by us as the Fund Actuary. The administering authority, with the advice from us as the Fund Actuary may allow some or all of these contributions to be treated as a prepayment and offset against future certified contributions.

The certified contributions include an allowance for expenses and the expected cost of lump sum death benefits but exclude early retirement strain and augmentation costs which are payable by participating employers in addition.

The monetary amounts are payable in 12 monthly instalments throughout the relevant year unless agreed by the administering authority and an individual employer.

Employer Code	Employer name	Primary rate	Secondary rate (% pay plus monetary adjustment)			Total contributions i.e. primary rate plus secondary rate			Specific notes
			(% pay)	2020/21	2021/22	2022/23	2020/21	2021/22	
Government bodies									
London Borough of Newham									
70	London Borough of Newham	16.8%	£3,187k	£3,303k	£3,423k	16.8% plus £3,187k	16.8% plus £3,303k	16.8% plus £3,423k	A
Academies									
798	London Academy of Excellence	12.2%	-0.2%	-0.2%	-0.2%	12.0%	12.0%	12.0%	
80	Big Education Trust	12.8%	-0.8%	-0.8%	-0.8%	12.0%	12.0%	12.0%	
73	Stratford Academy	16.6%	-1.0%	-1.0%	-1.0%	15.6%	15.6%	15.6%	

85	East London Science School	16.3%	-	-	-	16.3%	16.3%	16.3%
83	Brampton Manor Trust	16.4%	7.1%	7.1%	7.1%	23.5%	23.5%	23.5%
82	Chobham Academy	13.0%	-	-	-	13.0%	13.0%	13.0%
86	Community Links Academy Trust	13.6%	-	-	-	13.6%	13.6%	13.6%
89	Learning in Harmony Trust	17.0%	3.5%	3.5%	3.5%	20.5%	20.5%	20.5%
91	Our Lady of Grace Catholic Academy Trust	18.3%	9.3%	9.3%	9.3%	27.6%	27.6%	27.6%
95	Leading Learning Trust	15.9%	4.6%	4.6%	4.6%	20.5%	20.5%	20.5%
789	EKO Trust	15.5%	4.3%	4.3%	4.3%	19.8%	19.8%	19.8%
788	Community Schools Trust	17.4%	4.7%	4.7%	4.7%	22.1%	22.1%	22.1%
781	Boleyn Trust	17.2%	6.6%	6.6%	6.6%	23.8%	23.8%	23.8%
103	Tapscott Trust	16.2%	2.4%	2.4%	2.4%	18.6%	18.6%	18.6%
101	Brittania Education Trust	16.4%	5.2%	5.2%	5.2%	21.6%	21.6%	21.6%
105	David Ross Education Trust	12.0%	-	-	-	12.0%	12.0%	12.0%
104	Agate Momentum Trust	16.7%	2.3%	2.3%	2.3%	19.0%	19.0%	19.0%
780	New Vision Trust	17.1%	2.5%	2.5%	2.5%	19.6%	19.6%	19.6%
110	Burnt Mill Academy Trust	20.1%	1.3%	1.3%	1.3%	21.4%	21.4%	21.4%
111	City of London Academies Trust	14.8%	1.5%	1.5%	1.5%	16.3%	16.3%	16.3%
114	Newham Community Schools Trust	15.1%	1.6%	1.6%	1.6%	16.7%	16.7%	16.7%

Colleges								
71	North College of Further Education	16.3%	-	-	-	16.3%	16.3%	16.3%
72	NEWVIC	15.9%	-1.7%	-1.7%	-1.7%	14.2%	14.2%	14.2%
92	London Design and Engineering UTC	13.8%	£950	£980	£1,020	13.8% plus £950	13.8% plus £980	13.8% plus £1,020
Admitted bodies								
793	MITIE	23.0%	-2.8%	-2.8%	-2.8%	20.2%	20.2%	20.2%
794	RM Education	12.1%	£43,000	£44,600	£46,200	12.1% plus £43,000	12.1% plus £44,600	12.1% plus £46,200
799	Active Newham	18.2%	-0.6%	-0.6%	-0.6%	17.6%	17.6%	17.6%
81	Newham Partnership Working	17.0%	0.6%	0.6%	0.6%	17.6%	17.6%	17.6%
93	Olive Dining	23.7%	£660	£680	£710	23.7% plus £660	23.7% plus £680	23.7% plus £710
84	Churchill	28.1%	-	-	-	28.1%	28.1%	28.1%
96	Wilson Jones	21.7%	-7.2%	-7.2%	-7.2%	14.5%	14.5%	14.5%
90	CJIT (CRI)	12.0%	2.7%	2.7%	2.7%	14.7%	14.7%	14.7%
87	Oasis Community Learning	12.8%	-	-	-	12.8%	12.8%	12.8%
94	Birkin Services	16.0%	£1,450	£1,500	£1,550	16.0% plus £1,450	16.0% plus £1,500	16.0% plus £1,550
99	Public Realm Services	20.8%	£15,000	£15,500	£16,100	20.8% plus £15,000	20.8% plus £15,500	20.8% plus £16,100
786	Enabled Living Healthcare Ltd	17.0%	1.5%	1.5%	1.5%	18.5%	18.5%	18.5%
109	Juniper Ventures	20.3%	£54,300	£56,300	£58,300	20.3% plus £54,300	20.3% plus £56,300	20.3% plus £58,300

782	The Good Support Company	18.2%	£15,400	£15,900	£16,500	18.2% plus £15,400	18.2% plus £15,900	18.2% plus £16,500
784	iXact Limited	19.7%	-	-	-	19.7%	19.7%	19.7%
783	Mint Holding Ltd	19.4%	1.0%	1.0%	1.0%	20.4%	20.4%	20.4%
108	ECAM	17.9%	£1,760	£1,830	£1,890	17.9% plus £1,760	17.9% plus £1,830	17.9% plus £1,890
102	Early Start Ltd	15.2%	-	-	-	15.2%	15.2%	15.2%
107	Language Shop	12.5%	£1,310	£1,350	£1,400	12.5% plus £1,310	12.5% plus £1,350	12.5% plus £1,400
98	Better Together	17.8%	£1,640	£1,700	£1,760	17.8% plus £1,640	17.8% plus £1,700	17.8% plus £1,760
117	Chartwells	17.1%	-	-	-	17.1%	17.1%	17.1%
787	London Network for Pest Solutions	16.3%	£3,500	£3,620	£3,750	16.3% plus £3,500	16.3% plus £3,620	16.3% plus £3,750
116	Olive Dining Ltd (Cumberland)	20.1%	-	-	-	20.1%	20.1%	20.1%
115	Olive Dining (St Angela's Ursuline School)	22.8%	£210	£210	£220	22.8% plus £210	22.8% plus £210	22.8% plus £220
113	Pabulum (Lister School)	20.5%	-	-	-	20.5%	20.5%	20.5%
97	Pabulum Limited (Monega School)	22.8%	-5.9%	-5.9%	-5.9%	16.9%	16.9%	16.9%
112	Juniper Pursuits	20.4%	£27,400	£28,400	£29,400	20.4% plus £27,400	20.4% plus £28,400	20.4% plus £29,400

Specific notes

The note referred to in the table above is as follows:

A The Council have opted to pay their annual primary and secondary contributions covering the period from 1 April 2020 to 31 March 2023 in advance by the end of April 2020. They would like to pre-pay the total expected discounted contributions assuming their payroll is 80% of expected, and then make a balancing payment at the end of each of the three years in line with the actual payroll.

To reflect the expected investment returns on the advance payment, the total contributions payable shown above should be multiplied by a factor depending on the period they are to be paid in, to calculate the required prepayment. These factors should be 0.976 for the period 2020/21, 0.929 for the period 2021/22 and 0.885 for the period 2022/23.

The Council has agreed with the Administering Authority and the Fund Actuary in advance, an estimate of pensionable pay for each year covered by the Rates and Adjustment certificate which is to be used to base the pre-paid primary contributions. The pensionable pay is estimated to be £128million for each of the three periods. The prepayment is calculated by multiplying 80% of the estimated payroll with the primary rate, adding the secondary rate and applying the relevant discounting factor for each period. Taking this into account, the initial payment to be made by the end of April 2020 is £57.2m.

At the end of each subsequent period the Council must make good any underpayment in contributions, if the actual pensionable pay for each period is higher than the estimated payroll of £102.4m (i.e. 80% of £128m). This amount should be made in March of the relevant period and should also include some interest to take into account these payments being made in arrears. The interest factor to be applied is 1.025.

Post valuation employers

One new employer has joined the Fund on or after 1 April 2019 and their rate was certified at their date of joining and have been reviewed as part of the 2019 valuation process. The table summarises the start date and contributions required from this employer.

Start date	Employer name	Primary rate (% pay)	Secondary rate (% pay plus monetary adjustment)			Total contributions i.e. primary (% of pay) plus secondary		
			2020/21	2021/22	2022/23	2020/21	2021/22	2022/23
1 August 2019	XMA Ltd	20.4%	-	-	-	20.4%	20.4%	20.4%