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London Borough of Harrow Pension Fund

Report on the actuarial valuation at 31 March 2022

Steven Law FFA

Malcolm Stanley FIA

29 March 2022 For and on behalf of Hymans Robertson LL

Hymans Robertson LLP is authorised and regulated by the Financial Conduct Authority

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Executive Summary

The key result of the valuation of the London Borough of Harrow Pension Fund as at 31 March 2022 are set out below. Further explanation of the outcomes of the valuation are contained in the remainder of this report.

Contribution rates

The contribution rates for individual employers set at this valuation can be found in the <u>Rates & Adjustments certificate</u>. Table 1 shows the combined individual employer rates set at this valuation and the last valuation (31 March 2019).

Table 1: Whole fund contribution rates compared with the previous valuation

	This valuation 31 March 2022			aluation rch 2019
Primary Rate	18.1% of pay		19.2% of pay	
Secondary Rate	2023/2024	£5,423,000	2020/2021	£5,894,000
	2024/2025	£5,216,000	2021/2022	£5,894,000
	2025/2026	£5,048,000	2022/2023	£5,894,000

- The Primary rate has decreased due to the removal of additional prudence for McCloud which was included in 2019 (McCloud is now valued within the past service position and therefore impacts the Secondary rate)
- The Secondary rate has decreased due to good investment performance since the last valuation

Funding position

At 31 March 2022, the past service funding position has improved from the last valuation at 31 March 2019. Table 2 shows the reported funding position at the current and previous valuation.

Table 2: Reported funding position at 31 March 2022 compared with 31 March 2019

31 March 2022	31 March 2019
(£m)	(£m)
344	278
207	178
506	447
1,057	903
1,018	851
(39)	(52)
96%	94%
	(£m) 344 207 506 1,057 1,018 (39)

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Approach to valuation



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Valuation Purpose

The triennial actuarial valuation is an important part of the Fund's risk management framework. Its main purpose is to ensure the Fund continues to have a contribution plan and investment strategy that will achieve the objectives set out in the Funding Strategy Statement.

We have been commissioned by London Borough of Harrow (the Administering Authority) to carry out a valuation of the London Borough of Harrow Pension Fund (the Fund) as at 31 March 2022. This fulfils Regulation 62 of the Local Government Pension Scheme Regulations 2013. This report marks the culmination of the valuation process and contains its two key outcomes:

1

Employer contribution rates for the period 1 April 2023 to 31 March 2026.



The funding level of the Fund at 31 March 2022.

Further information on the valuation process, methodology and strategy is set out in the publicly available Funding Strategy Statement, Investment Strategy Statement and published papers and minutes of the Fund's Pensions Committee. Additional material is also contained in <u>Hymans Robertson's LGPS 2022 valuation</u> toolkit.

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Setting employer contribution rates

Employer contributions need to be set at a level which ensures the Fund has a reasonable likelihood of having enough money to pay members' benefits. Identifying the amount of benefits that may be paid is complex as those earned today might only start being paid in 50 years' time. Over that time period, there is significant uncertainty over factors which affect the cost of benefits, eg inflation, investment returns. These uncertainties are allowed for by taking a risk-based approach to setting employer contribution rates. This approach is built around three key funding decisions set by the Fund and asset-liability modelling.

Key funding decisions

For each employer, the Fund determines the most appropriate choice for the following three funding decisions. Further detail is set out in the Funding Strategy Statement.



What is the funding target for each employer?

Will the employer remain in the Fund for the long-term or exit at some point

What is the funding time horizon? How long will the employer participate in the Fund

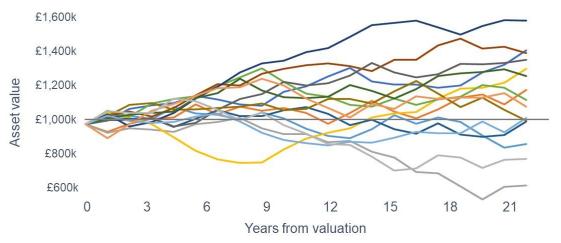
What is the required likelihood?

How much funding risk can the employer's covenant support

Modelling approach

Asset-liability modelling is used to project each employer's assets and benefit payments into the future using 5,000 different economic scenarios. The economic scenarios are generated using Hymans Robertson's Economic Scenario Service (ESS) (further information in <u>Appendix 2</u>).

Picture 1: sample progression of employer asset values



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Measuring the funding level

The past service funding level is measured at the valuation. Whilst it is limited in providing insight into a funding plan, it is a useful high-level summary statistic. To measure the funding level, a market-related approach is taken to calculating both the assets and the liabilities (so they are consistent with each other).

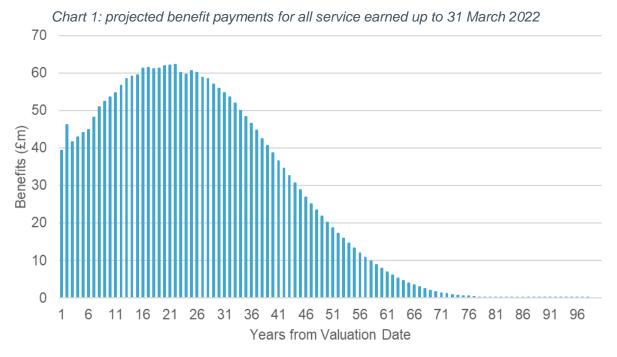
- The market value of the Fund's assets at the valuation date have been used.
- The liabilities have been valued using assumptions based on market indicators at the valuation date (these assumptions are detailed in Appendix 2).

Further detail on the liabilities

The liabilities are the value of all future payments to members based on all benefits earned up to the valuation date, expressed in today's money.

Chart 1 shows the projected payments for all members in the Fund at the valuation date. The projections are based on the membership data provided for the valuation (<u>Appendix 1</u>), the assumptions (<u>Appendix 2</u>) and our understanding of the LGPS benefit structure as at 31 March 2022 (details at <u>www.lgpsregs.org</u>).

To express the future payments in today's money, the projections are discounted with an assumed future investment return on the Fund's assets (the discount rate).



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Valuation results



Employer contribution rates

The primary objective of the Fund is to set employer contribution rates that will adequately cover the cost of benefits which will accrue in the future and any costs related to benefits already earned. A secondary objective is to ensure the rates are as stable as possible. The risk-based approach detailed earlier is used to meet both these objectives.

The employer contribution rate is made up of two components.

- 1. A primary rate: the level sufficient to cover all new benefits.
- 2. A secondary rate: any adjustment to the primary rate including the costs associated with sufficiently funding benefits accrued up to the valuation date.

Each employer has a contribution rate which is appropriate to their circumstances and these can be found in the <u>Rates & Adjustments</u> <u>Certificate</u>. Broadly speaking:

- Primary rates have decreased as the additional prudence built in for McCloud in 2019 has been removed in 2022.
- Secondary rates have decreased due to strong investment performance since the previous valuation.

However all employers will be different and the contribution rate will reflect the membership and experiences of each employer.

Table 3 shows the total of all employer contribution rates to be paid into the Fund over the period 1 April 2023 to 31 March 2026.

		aluation ch 2022		aluation ch 2019
Primary Rate	18.1% of pay 19.2% of p		of pay	
Secondary Rate	2023/2024 £5,423,000		2020/2021	£5,894,000
	2024/2025	£5,216,000	2021/2022	£5,894,000
	2025/2026	£5,048,000	2022/2023	£5,894,000

Table 3: Whole-fund contribution rate, compared with the previous valuation

The primary rate includes an allowance of 1.2% of pensionable pay for the Fund's expenses (1.1% at 31 March 2019).

Employees pay a contribution to the Fund in addition to these rates. These rates are set by the LGPS Regulations. The average employee contribution rate at 31 March 2022 is 6.7% of pay (6.4% at 31 March 2019).



Funding level

The funding level is the ratio of assets to liabilities. The market value of the assets at the valuation date are known. The value of the liabilities is uncertain given that the level of future investment returns are unknown.

Therefore, the liabilities and funding level have been calculated across a range of different investment returns (the discount rate).

To help better understand funding risk, the likelihood of the Fund's investment strategy (detailed in <u>Appendix 1</u>) achieving certain levels of return has also been calculated.

Chart 2 shows how the funding level varies with future investment return assumptions at 31 March 2022 (blue line). The green line shows the same analysis at 31 March 2019.

- The funding level is 100% if future investment returns are c.4.6% pa.
- The likelihood of the Fund's assets yielding at least this return is around 67%.
- The comparator at 2019 was a return of 4.7% pa which had a likelihood of 65%.
- The funding position at 2022 is stronger than 2019.
- There is a 50% likelihood of an investment return of 6.0% pa. So the best-estimate funding level is 124% at 31 March 2022 (117% at 2019).

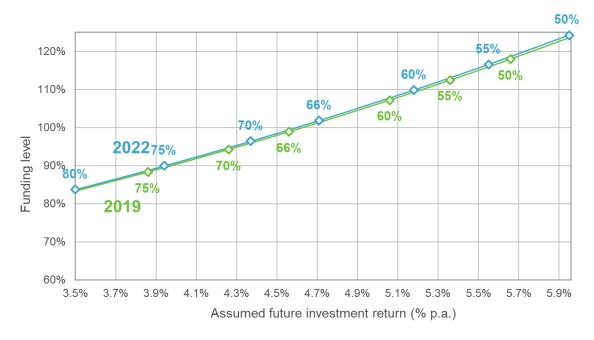


Chart 2: funding level across a range of future investment returns

Figures on each line show the likelihood of the Fund's assets exceeding that level of return over the next 20 years

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Single funding level as at 31 March 2022

Whilst the chart on the previous page provides a better understanding of the past service funding position, there is still a requirement to report a single funding level at 31 March 2022.

To report a single funding level and funding surplus/deficit for the 2022 valuation, a discount rate of 4.4% pa has been used. There is a 70% likelihood associated with a future investment return of 4.4% pa.

Table 4 details the liabilities, split by member status and the market value of assets at the valuation date. The results at the 2019 formal valuation are shown for comparison.

The funding level and surplus/deficit figures provide a high-level snapshot of the funding position of the Fund as at 31 March 2022, however there are limitations:

- The liabilities are calculated using a single set of assumptions about the future and so are very sensitive to the choice of assumptions.
- The market value of assets held by the Fund will change on a daily basis.

The future progression of the funding position is uncertain. If the financial and demographic assumptions made at this valuation actually occur, employers pay contributions in line with the R&A certificate and there are no other changes in the financial or demographic environment, we project that the funding level at the next valuation (31 March 2025) will be approximately 100%.

Table 4: Reported funding level

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This valuation 31 March 2022	Last valuation 31 March 2019
(£m)	(£m)
344	278
207	178
506	447
1,057	903
1,018	851
(39)	(52)
96%	94%
	31 March 2022 (£m) 344 207 506 1,057 1,018 (39)

Important: the reported funding level does not directly drive the contribution rates for employers. The contribution rates consider how assets and liabilities will evolve over time in different economic scenarios and also reflect each employer's funding profile and covenant.

Changes since the last valuation

Events between 2019 and 2022

The most significant external event to occur since the last valuation has been the Covid-19 pandemic. The experience analysis below shows that there has been a lower than expected amount of pensions ceasing over the period. However, the impact on the funding position has been small.

Other significant factors occurring which affect the funding strategy of the Fund have been the better than expected investment returns. This has had a material positive impact on the funding position and employers' secondary contribution rates.

Financial

Table 5: analysis of financ	ial experience be	tween 2019 an	d 2022 valuation	S
	Expected	Actual	Difference	Impact on funding position
Investment returns				
3 year period	13.5%	21.1%	7.6%	+£65m
Annual	4.3% pa	6.6% pa	2.3% pa	

Membership

Table 6: analysis of membership experience between 2019 and 2022 valuations

	Expected	Actual	Difference	Impact on funding position
Pre-retirement				
Early leavers	1,412	1,612	200	+£0m
III-health retirements	32	32	0	+£1m
Salary increases	3.3% pa	4.2% pa	0.9% pa	-£5m
Post-retirement				
Benefit increases	2.3% pa	1.8% pa	-0.6% pa	+£13m
Pension ceasing	£2.3m	£2.1m	-£0.2m	-£4m

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Changes since the last valuation

Future outlook

Expectations about the future, which inform the assumptions used to value the liabilities, have changed since the last valuation. The most significant changes are:

- Future inflation: this is expected to be on average higher than at 2019 due to the current level of high inflation.
- Investment returns: due to changes in financial markets, future investment returns are now expected to be higher than at the last valuation.

Factor	What does it affect?	What's changed?	Impact on liabilities
Future investment returns	The rate at which future benefit payments are discounted back, ie the discount rate assumption	Future investment returns slightly higher at 2022 than at 2019. The required return is now 4.4% pa vs. 4.3% pa at 2019.	Decrease of £17m
Inflation	The rate at which pensions in payment and deferment and CARE pots increase	Significant increase in short-term future inflation expectations.	Increase of £65m
Salary increases	The rate at which future salaries increase. This affects benefits that are still linked to final salary, ie accrued before 1 April 2014	No material change since last valuation given competing factors e.g. tighter budgetary conditions vs. strong job market and pressure from National Living Wage increases.	Increase of £3m
Current life expectancy	How long we expect people to live for based on today's current observed mortality rates.	Slight reduction in life expectancy based on current observed data (not allowing for Covid-related excess deaths)	Decrease of £1m
Future improvements in life expectancy	How we expect life expectancies to change (increase) in the future.	Uncertainty about effectiveness of mitigations against life expectancy increases in the LGPS i.e. State Pension Age increases and Cost Cap. Need to better reflect wider pension and insurance industry long-term expectations.	Increase of £5m

Table 7: summary of change in future outlook



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Reconciling the overall change in funding position

The tables below provide insight into the funding position change between 31 March 2019 and 31 March 2022. Firstly, the changes we expect to happen (Table 8), which relate mostly to items on the asset side. Then the impact of actual experience (Table 9), which mainly affects the liabilities.

Expected development

Table 8: expected development of funding position between 2019 and 2022 valuations

Change in the surplus/deficit position	Surplus / Deficit
	£m
Last valuation at 31 March 2019	(52)
Cashflows	
Employer contributions paid in	82
Employee contributions paid in	22
Other cashflows (e.g. Fund expenses)	(10)
Expected changes	
Expected investment returns	115
Interest on benefits already accrued	(121)
Accrual of new benefits	(97)
Expected position at 31 March 2022	(61)

Impact of actual events

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Table 9: impact of actual events on the funding position at 31 March 2022

Change in the surplus/deficit position	Surplus / Deficit
	£m
Expected position at 31 March 2022	(61)
Events between 2019 and 2022	
Salary increases greater than expected	(5)
Benefit increases less than expected	13
Early retirement strain (and contributions)	0
III health retirement strain	1
Early leavers less than expected	0
Commutation less than expected	(1)
McCloud remedy	(2)
Other membership experience	12
Higher than expected investment returns	65
Changes in future expectations	
Investment returns	17
Inflation	(65)
Salary increases	(3)
Longevity	(5)
Other demographic assumptions	(5)
Actual position at 31 March 2022	(39)

Numbers may not sum due to rounding

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Sensitivity & risk analysis



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Sensitivity and risk analysis: assumptions

There is risk and uncertainty inherent with funding benefit payments that will be paid out many years in the future. The Fund is aware of these and has in place a risk register which is regularly reviewed. Additionally, as part of the valuation, the Fund reviews sources of risk that may impact its funding position and the contribution rates payable by employers.

This section discusses some of the most significant sources of funding risk (assumptions, regulatory, administration and governance and climate change). Further information of the Fund's approach to funding risk management, including monitoring, mitigation and management, is set out in the Funding Strategy Statement.

The valuation results depend on the actuarial assumptions made about the future. By their nature, these assumptions are uncertain which means it is important to understand their sensitivity and risk levels.

Contribution rates

The risk-based approach to setting employer contribution rates mitigates the limitation of relying on one set of assumptions. Therefore, there is no need to carry out additional analysis of the sensitivity of contribution rates to changes in financial assumptions. The contribution rates are sensitive to changes in demographic assumptions. The results in this section in relation to the funding position can be broadly applied to the contribution rates.

Funding level Financial assumptions

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On page 10, we have already set out how the results vary with the assumed future investment return. The table below considers inflation.

Table 10: sensitivity of funding position to inflation assumption

CPI Assumption	Surplus/ (Deficit)	Funding Level
p.a.	£m	%
2.5%	(9)	99%
2.7%	(39)	96%
2.9%	(70)	94%

Demographic assumptions

The main area of demographic risk is if people live longer than expected. The table below shows the impact of longer term longevity rates improving at a faster rate (1.75% pa vs 1.5% pa used in the results)

Table 11: sensitivity of funding position to longevity assumption

Long term rate of improvement	Surplus/ (Deficit)	Funding Level		
p.a.	£m	%		
1.50%	(39)	96%		
1.75%	(47)	96%		



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Sensitivity and risk analysis: other risks

Regulatory, Administration and Governance risks

Potential risks in this area include change in central government legislation which changes the future cost of the LGPS and failures in administration processes leading to incorrect data and inaccuracies in actuarial calculations. At this valuation, specific risks include:

- **McCloud:** the remedy to resolve the McCloud case is yet to be formalised in regulations. However, an allowance has been included for this expected benefit change at the 2022 valuation as directed by the Department of Levelling Up, Housing and Communities in their letter dated March 2022.
- **Goodwin:** the remedy to this issue is still uncertain, it is difficult to identify who it would apply to and its impact is estimated to be very small for a LGPS fund (0.1-0.2% of liabilities). Therefore, no allowance has been made for this case at the 2022 valuation.
- **Cost Cap:** a legal challenge is ongoing in relation to the 2016 cost cap valuation and no information is known about the outcome of the 2020 cost cap valuation. At this valuation, no allowance has been made for any changes to the benefit structure that may occur as a result of a cost cap valuation.
- **GMP indexation:** it is assumed that all increases on GMPs for members reaching State Pension Age after 6 April 2016 will be paid for by LGPS employers. This is the same approach that was taken for the 2019 valuation.

Post valuation events

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Since 31 March 2022, there has been significant volatility in the financial markets. These events affect the value of the Fund's assets and liabilities.

- The Fund's investment return from 31 March 2022 up to 28 February 2023 has been less than anticipated.
- Liability valuations are likely to be lower at 28 February than at 31 March 2022 due to rises in expected future investment returns and lower long term inflation expectations (noting that the impact will be damped by the higher than expected pension increase of 10.1% in April 2023).

The combined impact has resulted in a marked increase in funding levels over the period from 31 March 2022 to 28 February 2023.

As an open scheme, with a strong covenant, the Fund takes a long-term view when considering the funding impact of such events. For employers who have a very short time horizon, recent volatility may be more immediately impactful, and the Fund has engaged with these employers as appropriate.

No explicit allowance has been made for this volatility in the valuation results or contribution rates detailed in the Rates & Adjustments Certificate. The Fund will continue to monitor changes in the financial and demographic environment as part of its ongoing risk management approach.

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Sensitivity and risk analysis: climate change

Background

Climate change is a major source of uncertainty which could affect future investment returns, inflation and life expectancies. Therefore, the Fund has explicitly explored the resilience of its funding and investment strategy to future potential climate change outcomes.

It is impossible to confidently quantify the effect of climate risk given the significant uncertainty over the impact of different possible climate outcomes. Instead, three different climate change scenarios have been considered as a stress-test (instead of trying to predict how climate change affects the funding level in the future).

All the scenarios assume that there will be a period of disruption linked either to the response to climate risk (transition risks) or the effect of it (physical risks). This disruption will lead to high volatility in financial markets, and the later the disruption, the more pronounced it will be.

Further detail on the scenarios is shown in guide 10 of Hymans Robertson's LGPS 2022 valuation toolkit.

Outcome of analysis

The Fund has set its funding and investment strategy using asset-liability modelling and considering two main risk metrics:

- Likelihood of success the chance of being fully funded in 20 years' time
- Downside risk the average worst 5% of funding levels in 20 years' time

When exploring the potential impact of climate change, the Fund has compared how these risk metrics change under each climate change scenario (against the 'Core' model used when setting the funding and investment strategy). The stress test results for the Fund are shown in Table 12 below.

Table 12: sensitivity of funding model to climate risk

Scenario	Likelihood of success	Downside risk
Core	76%	46%
Green Revolution	75%	47%
Delayed Transition	72%	44%
Head in the Sand	70%	42%

The results are worse in the climate scenarios. This is to be expected given that they are purposefully stress-tests and all the scenarios are bad outcomes. Whilst the risk metrics are weaker, they are not materially so and not enough to suggest that the funding and investment strategy are unduly exposed to climate change risk. The Fund will continue to monitor this risk as more information emerges and climate change modelling techniques evolve.

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Final comments



Final comments

The Fund's valuation operates within a broader framework, and this document should be considered alongside the following:

- The Funding Strategy Statement, which in particular highlights how different types of employer in different circumstances have their contributions calculated
- The Investment Strategy Statement, which sets out the investment strategy for the Fund
- The general governance of the Fund, such as meetings of the Pensions Committee and Local Pensions Board, decisions delegated to officers, the Fund's business plan, etc
- The Fund's risk register

New employers joining the Fund

Any new employers or admission bodies joining the Fund should be referred to the Fund Actuary to assess the required level of contribution. Depending on the number of transferring members the ceding employer's rate may also need to be reviewed.

Cessations and bulk transfers

Any employer who ceases to participate in the Fund should be referred to the Fund Actuary in accordance with Regulation 64 of the LGPS regulations.

Any bulk movement of scheme members:

- involving 10 or more scheme members being transferred from or to another LGPS fund in accordance with Regulation 103 of the LGPS regulations.
- involving 2 or more scheme members being transferred from or to a non-LGPS pension arrangement in accordance with Regulation 98 of the LGPS regulations.

should be referred to the Fund Actuary to consider the impact on the Fund.

Valuation frequency

Under the LGPS regulations, the next formal valuation of the Fund is due to be carried out as at 31 March 2025 where contribution rates payable from 1 April 2026 will be set.



SIGNATURE

Malcolm Stanley FIA

Steven Law FFA 29 March 2023 For and on behalf of Hymans Robertson LLP

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Appendices





Membership data

A summary of the membership data provided by the Fund for the 2022 valuation is set out in Table 13. The corresponding membership data from the previous valuation is also shown for reference.

The results of the valuation are dependent on the quality of the data used. We have carried out a series of validation checks on the data supplied to us by the Administering Authority to ensure that it is fit for purpose.

Asset data

To check the membership data and derive employer asset values, we have used asset and accounting data and employer level cashflow data provided by the Fund.

Table 13: Whole fund membership data as at 31 March 2022 and 31 March 2019

Whole Fund Membership Data	This Valuation 31 March 2022	Last Valuation 31 March 2019
Employee members		
Number	5,366	5,342
Total actual pay (£000)	112,691	101,951
Total accrued pension (£000)	20,499	17,492
Average age (liability weighted)	54.8	53.9
Deferred pensioners (including undecideds)		
Number	7,612	7,650
Total accrued pension (£000)	11,747	10,947
Average age (liability weighted)	53.3	52.2
Pensioners and dependants		
Number	6,452	5,800
Total pensions in payment (£000)	33,543	30,206
Average age (liability weighted)	70.2	69.1

Data

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Investment strategy

A summary of the investment strategy allocation used for the calculation of employer contribution rates and to derive the future assumed investment return is set out in Table 14.

Table 14: Investment strategy used for the 2022 valuation

% allocation	Core Strategy
UK corporate bonds (A rated)	10.0%
Diversified Growth Fund	5.5%
Emerging market equities	10.4%
Overseas equities	39.6%
UK Index Linked Gilts	5.0%
Infrastructure Equity	12.5%
Multi Asset Credit	10.0%
Private equity	1.0%
Property	6.0%
Total	100.0%

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Assumptions

To set and agree assumptions for the valuation an in-depth analysis and review was carried out in February 2022 and subsequent assumptions agreed by the Pensions Committee

Financial assumptions

Setting employer contribution rates

An asset-liability model is used to set employer contributions at the 2022 valuation. This model relies on Hymans Robertson's proprietary economic model, the Economic Scenario Service (ESS). The ESS reflects the uncertainty associated with future levels of inflation and asset returns and the interactions and correlations between different asset classes and wider economic variables. In the short term (first few years), the models are fitted with current financial market expectations. Over the longer term, models are built around views of fundamental economic parameters, for example equity risk premium, credit spreads and long term inflation. The table below shows the calibration of the ESS at 31 March 2022. Further information on the assumptions used for contribution rate setting is included in the Funding Strategy Statement.

 Table 15: ESS individual asset class return distributions at 31 March 2022

	Asset class annualised total returns										Inflation/Yields				
Time period	Percentile	Index Linked Gilts (medium)	Index Linked Gilts (long)	Private Equity	Property	Emerging Market Equity	Unlisted Infrastruct ure Equity	Diversified Growth Fund (low equity beta)	Multi Aseet Credit (sub inv grade)	Global Corporate FI GBP Hedged	All World Equity GBP Hedged	CorpMediu m A	Inflation (CPI)	17 year real yield (CPI)	17 year yield
	16 th	-1.9%	-3.1%	-1.2%	-0.6%	-2.5%	0.7%	1.4%	1.7%	0.6%	-0.3%	-0.1%	1.6%	-1.7%	1.1%
10 years	50 th	0.2%	-0.7%	9.4%	4.4%	5.8%	5.9%	3.2%	3.5%	2.2%	5.9%	1.6%	3.3%	-0.5%	2.5%
	84 th	2.4%	2.0%	20.1%	9.5%	14.4%	11.2%	5.1%	5.2%	3.5%	11.9%	3.2%	4.9%	0.7%	4.3%
	16 th	-1.5%	-2.6%	2.4%	1.4%	0.1%	2.6%	2.1%	2.8%	1.6%	1.9%	1.1%	1.2%	-0.7%	1.3%
20 years	50 th	0.1%	-0.9%	10.0%	5.0%	6.3%	6.5%	3.8%	4.4%	2.8%	6.4%	2.1%	2.7%	1.1%	3.2%
	84 th	1.9%	0.8%	17.6%	8.9%	12.8%	10.6%	5.7%	6.0%	3.9%	11.0%	3.2%	4.3%	2.7%	5.7%
	16 th	-0.3%	-1.1%	4.7%	2.6%	2.1%	3.9%	2.5%	3.6%	2.3%	3.5%	2.0%	0.9%	-0.6%	1.1%
40 years	50 th	1.2%	0.3%	10.3%	5.5%	6.8%	7.0%	4.4%	5.3%	3.6%	6.8%	3.1%	2.2%	1.3%	3.3%
	84 th	3.1%	1.9%	16.1%	8.8%	11.7%	10.3%	6.5%	7.1%	5.2%	10.4%	4.4%	3.7%	3.2%	6.1%
	Volatility (5yr)	7%	9%	30%	15%	26%	15%	5%	6%	5%	18%	7%	3%	-	-



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Assumptions

Financial assumptions Calculating the funding level

The table below summarises the assumptions used to calculate the funding level at 31 March 2022, along with a comparison at the last valuation.

Assumption	This valuation 31 March 2022	Required for	Last valuation 31 March 2019
Discount rate	4.4% pa	To place a present value on all the benefits promised to scheme members at the valuation date. The Fund's assets are estimated to have a 70% likelihood of returning above the discount rate.	4.3% pa
Benefit increases / CARE revaluation	2.7% pa	To determine the size of future benefit payments.	2.3% pa
Salary increases	3.7% pa	To determine the size of future final-salary linked benefit payments.	3.0% pa

Table 16: Summary of assumptions used for measuring the funding level, compared to last valuation on 31 March 2019

Allowing for the McCloud remedy

Allowance has been included for this expected benefit change at the 2022 valuation as directed by the Department of Levelling Up, Housing and Communities in their letter dated March 2022. Further technical detail about this assumption is set out in guide 13 of Hymans Robertson's LGPS 2022 valuation toolkit.

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Assumptions

Demographic assumptions

The same demographic assumptions are used in setting contribution rates and assessing the current funding level.

Longevity

Table 17: Summary of longevity assumptions

	This valuation 31 March 2022	Last valuation 31 March 2019
Baseline assumption	VitaCurves based on member- level lifestyle factors	VitaCurves based on member- level lifestyle factors
Future improvements	CMI 2021 model Initial addition = 0.25% (both Female and Male) Smoothing factor = 7.0 1.5% pa long-term rate of improvement	CMI 2018 model Initial addition = 0.25% (Female), 0.5% (Male) Smoothing factor = 7.0 1.25% pa long-term rate of improvement

Further information on these assumptions can be provided upon request. Sample rates are included on the next page.

Other demographic assumptions

Table 18: Summary of other demographic assumptions

Death in service	See sample rates in Tables 19 & 20
Retirements in ill health	See sample rates in Tables 19 & 20
Withdrawals	See sample rates in Tables 19 & 20
Promotional salary increases	See sample rates in Tables 19 & 20
Commutation	50% of future retirements elect to exchange pension for additional tax free cash up to HMRC limits
50:50 option	0.5% of members (uniformly distributed across the age, service and salary range) will choose the 50:50 option (main scheme) if they are currently in the main scheme (50:50 scheme).
Retirement age	The earliest age at which a member can retire with their benefits unreduced
Proportion married	A varying proportion of members are assumed to have a dependant at retirement or on earlier death. For example, at age 60 this is assumed to be 90% for males and 85% for females. The dependant of a male member is assumed to be 3 years younger than him and the dependent of a female member is assumed to be 3 years older than her.

Assumptions

Sample rates for demographic assumptions

Males

Table 19: Sample rates of male demographic assumptions

Age	Salary Scale	Death Before Retirement	Withdrawals		III Health Tier 1		III Health Tier 2	
		FT & PT	FT	РТ	FT	РТ	FT	РТ
20	105	0.17	404.31	813.01	0.00	0.00	0.00	0.00
25	117	0.17	267.06	537.03	0.00	0.00	0.00	0.00
30	131	0.20	189.49	380.97	0.00	0.00	0.00	0.00
35	144	0.24	148.05	297.63	0.10	0.07	0.02	0.01
40	150	0.41	119.20	239.55	0.16	0.12	0.03	0.02
45	157	0.68	111.96	224.96	0.35	0.27	0.07	0.05
50	162	1.09	92.29	185.23	0.90	0.68	0.23	0.17
55	162	1.70	72.68	145.94	3.54	2.65	0.51	0.38
60	162	3.06	64.78	130.02	6.23	4.67	0.44	0.33
65	162	5.10	0.00	0.00	11.83	8.87	0.00	0.00

Females

Table 20: Sample rates of female demographic assumptions

Age	Salary Scale	Death Before Retirement	Withd	Withdrawals		III Health Tier 1		III Health Tier 2	
		FT & PT	FT	РТ	FT	РТ	FT	РТ	
20	105	0.10	352.42	467.37	0.00	0.00	0.00	0.00	
25	117	0.10	237.14	314.44	0.10	0.07	0.02	0.01	
30	131	0.14	198.78	263.54	0.13	0.10	0.03	0.02	
35	144	0.24	171.57	227.38	0.26	0.19	0.05	0.04	
40	150	0.38	142.79	189.18	0.39	0.29	0.08	0.06	
45	157	0.62	133.25	176.51	0.52	0.39	0.10	0.08	
50	162	0.90	112.34	148.65	0.97	0.73	0.24	0.18	
55	162	1.19	83.83	111.03	3.59	2.69	0.52	0.39	
60	162	1.52	67.55	89.37	5.71	4.28	0.54	0.40	
65	162	1.95	0.00	0.00	10.26	7.69	0.00	0.00	

Figures are incidence rates per 1,000 members except salary scale. FT and PT denoted full-time and part-time members respectively.

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Reliances and limitations

We have been commissioned by London Borough of Harrow ("the Administering Authority") to carry out a full actuarial valuation of the London Borough of Harrow Pension Fund ("the Fund") as at 31 March 2022 as required under Regulation 62 of the Local Government Pension Scheme Regulations 2013 ("the Regulations").

This report is addressed to the Administering Authority. It has been prepared by us as actuaries to the Fund and is solely for the purpose of summarising the main outcomes of the 2022 actuarial valuation. It has not been prepared for any other third party or for any other purpose. We make no representation or warranties to any third party as to the accuracy or completeness of this report, no reliance should be placed on this report by any third party and we accept no responsibility or liability to any third party in respect of it.

Hymans Robertson LLP is the owner of all intellectual property rights in this report. All such rights are reserved.

This summary report is the culmination of other communications in relation to the valuation, in particular:

- Our <u>2022 valuation toolkit</u> which sets out the methodology used when reviewing funding plans
- Our paper to the Fund's Pension Committee dated September 2022 which discusses the funding strategy for the Fund's council
- Our paper to the Fund's Pension Committee dated February 2022 which discusses the valuation assumptions
- Our initial results report dated September 2022 which outlines the whole fund results and inter-valuation experience

• The Funding Strategy Statement which details the approach taken to adequately fund the current and future benefits due to members

The totality of our advice complies with the Regulations as they relate to actuarial valuations.

The following Technical Actuarial Standards apply to this advice, and have been complied with where material and to a proportionate degree. They are:

- TAS100 Principles for technical actuarial work
- TAS300 Pensions

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Term	Explanation
50:50 option	An option for LGPS members to pay half contributions and earn half the retirement benefit (pre-retirement protection benefits are unreduced).
Asset-liability modelling	An approach to modelling and understanding risk for a pension fund. The assets and liabilities are projected forward into the future under many different future scenarios of inflation, investment returns and interest rates. The future scenarios are then analysed to understand the risk associated with a particular combination of contribution rates and investment strategy. Different combinations of contribution rates and/or investment strategies may be tested.
Baseline longevity	The rates of death (by age and sex) in a given group of people based on current observed data.
Club Vita	A firm of longevity experts we partner with for longevity analysis. They combine data from thousands of pension schemes and use it to create detailed baseline longevity assumptions at member-level, as well as insight on general longevity trends and future improvements.
Commutation	The option for members to exchange part of their annual pension for a one-off lump sum at retirement. In the LGPS, every £1 of pension exchanged gives the member £12 of lump sum. The amounts that members commute is heavily influenced by tax rules which set an upper limit on how much lump sum can be taken tax-free.
CPI inflation	The annual rate of change of the Consumer Prices Index (CPI). The CPI is the UK government's preferred measure of inflation and is the measure used to increase LGPS (and all other public sector pension scheme) benefits each year.
Deferred pensioners	A former employee who has left employment (or opted out of the pension fund) but is not yet in receipt of their benefits from the fund.
Demographic assumptions	Assumptions concerned with member and employer choices rather than macroeconomic or financial factors. For example, retirement age or promotional salary scales. Demographic assumptions typically determine the timing of benefit payments.

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Glossary

Term	Explanation
Discount rate	A number used to place a single value on a stream of future payments, allowing for expected future investment returns.
Employee members	Members who are currently employed by employers who participate in the fund and paying contributions into the fund.
ESS	Economic Scenario Service - Hymans Robertson's proprietary economic scenario generator used to create thousands of simulations of future inflation, asset class returns and interest rates.
Funding position	 The extent to which the assets held by the fund at 31 March 2022 cover the accrued benefits ie the liabilities. The two measures of the funding position are: the funding level - the ratio of assets to liabilities; and the funding surplus/deficit - the difference between the asset and liabilities values.
Inflation	Prices tend to increase over time, which is called inflation. Inflation is measured in different ways, using a different 'basket' of goods and mathematical formulas.
Liabilities	An employer's liability value is the single value at a given point in time of all the benefit payments expected to be made in future to all members. Benefit payments are projected using demographic and financial assumptions and the liability is calculated using a discount rate.
Longevity improvements	An assumption about how rates of death will change in future. Typically we assume that death rates will fall and life expectancies will improve over time, continuing the long-running trend.
Pensioners	A former employee who is in receipt of their benefits from the fund. This category includes eligible dependants of the former employee.

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Glossary

Term	Explanation
Primary rate	The estimated cost of future benefits, expressed in percentage of pay terms. The primary rate will include an allowance to cover the fund's expenses.
Prudence	To be prudent means to err on the side of caution in the overall set of assumptions. We build prudence into the choice of discount rate by choosing an assumption with a prudence Level of more than 50%. All other assumptions aim to be best estimate.
Prudence Level	A percentage indicating the likelihood that a discount rate assumption will be achieved in practice, based on the ESS model. The higher the prudence level, the more prudent the discount rate is.
Secondary rate	An adjustment to the primary rate, generally to reflect costs associated with benefits that have already been earned up to the valuation date. This may be expressed as a percentage of pay and/or monetary amount.
Withdrawal	Refers to members leaving the scheme before retirement. These members retain an entitlement to an LGPS pension when they retire, but are no longer earning new benefits.

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Rates & Adjustments certificate



Rates and Adjustments Certificate

In accordance with Regulation 62 of the LGPS regulations, we have assessed the contributions that should be paid into the London Borough of Harrow Pension Fund (the Fund) by participating employers for the period 1 April 2023 to 31 March 2026 in order to maintain the solvency of the Fund.

The method and assumptions used to calculate the contributions set out in this Rates and Adjustments certificate are detailed in the Funding Strategy Statement dated March 2023 and in Appendix 2 of the report on the actuarial valuation dated March 2023. These assumptions underpin our estimate of the number of members who will become entitled to a payment of pensions under the provisions of the LGPS and the amount of liabilities arising in respect of such members.

The table below summarises the whole fund primary and secondary contribution rates for the period 1 April 2023 to 31 March 2026. The primary rate is the payroll weighted average of the underlying individual employer primary rates and the secondary rate is the total of the underlying individual employer secondary rates, calculated in accordance with the LGPS regulations and CIPFA guidance. The secondary rate has been shown both as a monetary amount and an equivalent percentage of the projected pensionable pay.

		This valuation 31 March 2022	
Primary rate		18.1% of pay	
Secondary rate		Monetary amount	Equivalent to % of payroll
	2023/24	£5,423,000	4.4%
	2024/25	£5,216,000	4.1%
	2025/26	£5,048,000	3.8%

The required minimum contribution rates for each employer in the Fund are set out in the remained of this certificate.

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Employer code	Employer name		Primary rate	Secondary ra 2023/24	te (% of pay plus moneta	ry amount) 2025/26	Total contributio	ons (primary rate plus 2024/25	secondary rate) 2025/26	Notes
Scheduled	Padias	۴)	6 of pay)	2023/24	2024/23	2023/20	2023/24	2024/23	2023/20	
Scheduled										4.8.0
	London Borough of Harrow			8% plus £6,000,000	-1.8% plus £6,000,000 -1	.8% plus £6,000,000		-		1 & 2
5	Stanmore College		17.2%				17.2%	17.2%	17.2%	
11	St Dominic's Sixth Form Co	ollege	18.8%				18.8%	18.8%	18.8%	
Admitted B	Bodies									
2	North London Collegiate So	chool	35.4%	£71,000	£71,000	£71,000	35.4% plus £71,000	35.4% plus £71,000	35.4% plus £71,000	
35	Linbrook Services (aka. Wa	ates)	22.2%				22.2%	22.2%	22.2%	
43	Govindas		29.1%	-9.3%	-9.3%	-9.3%	19.8%	19.8%	19.8%	
62	Evergreen Catering (Harro	w High)	19.8%				19.8%	19.8%	19.8%	3
63	Evergreen Catering (Aylwa	rd)	19.7%				19.7%	19.7%	19.7%	3
68	Evergreen LBH Harrow		19.1%				19.1%	19.1%	19.1%	3
71	Evergreen Cleaning		19.9%				19.9%	19.9%	19.9%	3
72	SOS Ltd		24.9%				24.9%	24.9%	24.9%	3
73	PSC Group		19.1%				19.1%	19.1%	19.1%	3
74	SOS Longfield		24.9%				24.9%	24.9%	24.9%	3
75	PSC Vaughan		19.1%				19.1%	19.1%	19.1%	3
76	PSC Roxeth		19.1%				19.1%	19.1%	19.1%	3
77	Brayborne Facilities		27.7%				27.7%	27.7%	27.7%	3
581	ISS Catering Bentley Wood	k	22.0%				22.0%	22.0%	22.0%	3
582	ISS Catering Hatch End		22.6%				22.6%	22.6%	22.6%	3
583	ISS Catering Harrow High		23.5%				23.5%	23.5%	23.5%	3

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Employer	Employer name		Primary rate	Secondary rate	e (% of pay plus monetal	ry amount)	Total contributions	(primary rate plus sec	ondary rate)	Notes
code			(% of pay)	2023/24	2024/25	2025/26	2023/24	2024/25	2025/26	
584	ISS Catering Park H	ligh	22.5%				22.5%	22.5%	22.5%	3
585	ISS Catering Nower	Hill	22.5%				22.5%	22.5%	22.5%	3
Academie	S									
	Avanti School MAT		17.5%	0.5%			18.0%	17.5%	17.5%	4
	Blessed Holy Family	V Catholic Academy Trus	it 18.9%	4.5%	4.3%	4.3%	23.4%	23.2%	23.2%	5
	Bentley Wood and A	Aylward MAT	18.5%	5.1%	4.1%	3.1%	23.6%	22.6%	21.6%	6
	Harrow High		17.6%	5.3%	4.3%	3.3%	22.9%	21.9%	20.9%	7
28	Canons High		17.9%	4.4%	3.4%	2.4%	22.3%	21.3%	20.3%	
30	Hatch End High Sch	nool (Academy)	17.9%	5.8%	5.2%	5.2%	23.7%	23.1%	23.1%	
31	Nower Hill		17.9%	4.0%	3.0%	2.0%	21.9%	20.9%	19.9%	
32	Park High		18.1%	5.6%	5.6%	5.6%	23.7%	23.7%	23.7%	
33	Rooks Heath		18.2%	4.9%	3.9%	2.9%	23.1%	22.1%	21.1%	
37	Salvatorian College		17.8%	10.7%	9.7%	8.7%	28.5%	27.5%	26.5%	
40	Alexandra School		17.6%	5.4%	4.4%	3.8%	23.0%	22.0%	21.4%	
42	Jubilee School (Free	e School)	17.9%	0.4%			18.3%	17.9%	17.9%	
44	Heathland and Whit	efriars	18.1%	3.8%	2.8%	1.8%	21.9%	20.9%	19.9%	
51	St Bernadette's Aca	demy	17.8%	5.0%	5.0%	5.0%	22.8%	22.8%	22.8%	
53	Pinner High School		17.8%	0.7%			18.5%	17.8%	17.8%	
54	St Jerome School		18.3%	1.6%	1.6%	1.6%	19.9%	19.9%	19.9%	
55	Earlsmead Academ	У	18.7%	4.0%	3.9%	3.9%	22.7%	22.6%	22.6%	
59	Welldon Park Schoo	bl	18.1%	5.1%	4.1%	3.1%	23.2%	22.2%	21.2%	

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Employer	Employer name	Primary rate	Secondary rate	e (% of pay plus moneta	ry amount)		(primary rate plus se	condary rate)	Notes
code		(% of pay)	2023/24	2024/25	2025/26	2023/24	2024/25	2025/26	
60	Priestmead School	18.5%	5.0%	4.0%	4.0%	23.5%	22.5%	22.5%	
70	Hujjat Primary School	19.1%	2.1%	1.1%	0.1%	21.2%	20.2%	19.2%	

Notes to the Rates and Adjustments Certificate

- 1. The following active employers are pooled with the London Borough of Harrow: London Borough of Harrow (1), Cannon Lane F&M School (15) and Grange Primary School (57)
- 2. The equivalent total contribution rate as a percentage of pay for the London Borough of Harrow Pool is 23.0% of pensionable pay.
- 3. Employer participates under a pass through arrangement. Please note, the primary rate shown is the agreed pass through rate for each employer and does not necessarily reflect the underlying cost of benefits accruing.
- 4. The following active employers are pooled with Avanti School MAT: Krishna Avanti School (36), Avanti House Primary Free School (38), Avanti Trust (52) and Avanti House Secondary Free School (56)
- 5. The following active employers are pooled with Blessed Holy Family Catholic Academy Trust: Sacred Heart (64), St John Fisher (65), St Josephs Primary (66) and St Georges Primary (67)
- 6. The following active employers are pooled with Bentley Wood and Aylward MAT: Bentley Wood (27) and Aylward School (45)
- 7. Harrow High is pooled with its legacy admission body.

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Further comments to the Rates and Adjustments Certificate

- Contributions expressed as a percentage of payroll should be paid into the Fund at a frequency in accordance with the requirements of the Regulations •
- Further sums should be paid to the Fund to meet the costs of any early retirements and/or augmentations using methods and factors issued by us from time to time or as otherwise agreed.
- The certified contribution rates represent the minimum level of contributions to be paid. Employing authorities may pay further amounts at any time and future periodic contributions may be adjusted on a basis approved by the Fund Actuary.
- The monetary contributions set out in the certificate above can be prepaid in advance with appropriate adjustments for interest as and when agreed with the • Administering Authority. Under these circumstances a revised Rates and Adjustments certificate may be issued reflecting any advance payments.



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Steven Law FFA 29 March 2023 For and on behalf of Hymans Robertson LLP



Malcolm Stanley FIA





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Section 13 Dashboard



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Section 13 dashboard

To be completed once GAD confirm required information

