



HYMANS  ROBERTSON

Cambridgeshire Pension Fund

Actuarial valuation as at 31 March 2019

Valuation report

March 2020



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1 Introduction

Background to the actuarial valuation

We have been commissioned by Cambridgeshire County Council (“the Administering Authority”) to carry out an actuarial valuation of the Cambridgeshire Pension Fund (“the Fund”) as at 31 March 2019 as required under Regulation 62 of the Local Government Pension Scheme Regulations 2013 (“the Regulations”).

The actuarial valuation is a risk management exercise with the purpose of reviewing the current funding plans and setting contribution rates for the Fund’s participating employers for the period from 1 April 2020 to 31 March 2023. This report summarises the outcomes of the valuation and the underlying advice provided to the Administering Authority throughout the valuation process.

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

- Our [2019 valuation toolkit](#) which sets out the methodology used when reviewing funding plans;
- Our papers dated March 2019 and May 2019 agreed by the Fund’s June Pension Committee which discussed the valuation assumptions;
- Our Initial Results Report dated 16 September 2019 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.

¹ Technical Actuarial Standards (TASs) are issued by the Financial Reporting Council (FRC) and set standards for certain items of actuarial work.

Reliances and Limitations

This report has been prepared for the sole use of Cambridgeshire County Council in its role as Administering Authority of the Fund to provide an actuarial valuation of the Fund as required under the Regulations. 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.

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

The following Technical Actuarial Standards¹ are applicable in relation to this report and have been complied with where material:

- TAS 100 – Principles for technical actuarial work;
- TAS 300 – Pensions.



Use of this report by other parties

This report is addressed to the Administering Authority of the Fund only. We appreciate that other parties may also seek information about the 2019 valuation process and methodology. We would encourage such parties to refer to the following publicly available documents for further information:

- The Fund's Funding Strategy Statement;
- The Fund's Investment Strategy Statement;
- Published meeting papers and minutes for the quarterly meetings of the Fund's Pensions Committee.

Considering these papers alongside this valuation report will provide a more complete view of the Fund's funding strategy and decision-making process surrounding this. These documents are available on the Fund's website or on request.

2 Valuation approach

Employer contribution rates

The purpose of the valuation is to review the current funding strategy and ensure the Fund has a contribution plan and investment strategy in place that will enable it to pay members' benefits as they fall due.

Valuations for open defined benefit multi-employer pension funds such as the Cambridgeshire Pension Fund are complex. Firstly, the time horizons are very long; benefits earned in the LGPS today will be paid out over a period of the next 80 years or more, and new members will continue to join in the future. Secondly, as they depend on unknowns such as future inflation and life expectancy, the actual value of future benefit payments is uncertain. Finally, to keep contributions affordable, the Fund invests in return seeking assets which have higher levels of future volatility.

Given the above and that the future cannot be predicted with certainty, employer contribution rates can only ever be an estimate. However, the valuation approach adopted uses an understanding of the Fund, and the uncertainties and risks discussed above, to quantify the likelihood of the contribution plan and investment strategy for each employer being sufficient to fund future benefits.

This is achieved in practice by following the process outlined below.

Step 1: The Fund sets a funding target (or funding basis) for each employer which defines the estimated amount of assets to be held to meet the future benefit payments.

Step 2: The Fund sets the funding time horizon over which the funding target is to be achieved.

Step 3: The Fund sets contributions that give a sufficiently high likelihood of meeting the funding target over the set time horizon.

These three steps are central to the “risk-based” approach to funding which is described in Guide 5 of our [2019 valuation toolkit²](#).

The risk-based approach uses an Asset Liability Model (described in Guide 6) of the [2019 valuation toolkit](#) to project each employer's future benefit payments, contributions and investment returns into the future under 5,000 possible economic scenarios. Future inflation (and therefore benefit payments) and investment returns for each asset class (and therefore asset values) are variables in the projections. Further details of these variables are provided in Appendix 2. The investment strategy underlying the projection of employer asset values is provided in Appendix 1.

By projecting the evolution of an employer's assets and benefit payments 5,000 times, a contribution rate can be set that results in a sufficient number of the future projections being successful i.e. meeting the funding target by the funding time horizon.

The risk-based approach to setting employer contributions allows the Fund and its employers to understand and quantify the level of risk inherent in funding plans, something that is not possible using a single set of assumptions alone.

Further detail on the approach to calculating contributions for individual employers, including the parameters used in the three steps for each type of employer, is set out in the Funding Strategy Statement dated November 2019.

² https://www.hymans.co.uk/media/uploads/LGPS_2019_Valuation_Toolkit_Guides.pdf

Funding position as at 31 March 2019

The valuation also offers an opportunity to measure the Fund's funding position as at 31 March 2019. Whilst this measurement has limited insight into understanding the long term ability to be able to pay members' benefits, it is a useful summary statistic.

For the purposes of this valuation we have adopted a "mark to market" approach, meaning that the Fund's assets have been taken into account at their market value and the liabilities have been valued by reference to a single set of assumptions based on market indicators at the valuation date. These assumptions are detailed in Appendix 2. As we have taken a market-related approach to the valuation of both the assets and the liabilities, we believe that they have been valued on a consistent basis.

Significant events

The figures in this report are based on our understanding of the benefit structure of the LGPS in England and Wales as at 31 March 2019. Details can be found at <http://www.lgpsregs.org/>.

McCloud ruling

The LGPS benefit structure is currently under review following the Government's loss of the right to appeal the McCloud and other similar court cases. At the time of writing, the format and scope of any benefit changes in light of the McCloud ruling is still unknown. In line with the [advice issued by the Scheme Advisory Board in May 2019](#), the following allowance has been made at the valuation for the McCloud ruling:

- Employer contribution rates: additional prudence in funding plans via an increase in the likelihood of success (step 3) when setting contribution rates;
- Measurement of funding position at 31 March 2019: no allowance.

Further details of the approach taken are set out in Section 2.7 of the Funding Strategy Statement.

Indexation and equalisation of Guaranteed Minimum Pensions (GMP)

As a result of the Government's introduction of a single-tier state pension (STP) there is currently uncertainty around who funds certain elements of increases on GMPs for members reaching State Pension Age after 6 April 2016.

As part of the introduction of STP, the Government confirmed that public service pension schemes, including the LGPS, will be responsible for funding all increases on GMP as an 'interim solution'. In their [January 2018 consultation response](#), HM Treasury confirmed that the 'interim solution' will continue to remain in place up to 5 April 2021. Thereafter the Government's preferred approach is to convert GMP to scheme pension.

For the 2019 valuation, given the Government's preference for conversion to scheme benefits, we have assumed that all increases on GMPs for members reaching State Pension Age after 6 April 2016 will be paid for by LGPS employers. This has served to increase the value placed on the liabilities.

The Government have also stated that their preferred long term indexation solution of converting GMP to scheme pension will also meet the requirements of equalisation.

3 Valuation results

Employer contribution rates

The key objective of the Fund is to set employer contributions that are likely to be sufficient to meet both the cost of new benefits accruing and to address any funding surplus or deficit relative to the funding target over the agreed time horizon. A secondary objective is to maintain relatively stable employer contribution rates.

In order to meet the above objectives, the methodology set out in Section 2 has been used to set employer contributions from 1 April 2020.

Employer contributions are made up of two elements:

- a) the estimated cost of future benefits being built up each year, after deducting members' own contributions and including an allowance for the Fund's administration expenses. This is referred to as the "*Primary rate*", and is expressed as a percentage of members' pensionable pay; plus
- b) an adjustment for the difference between the Primary rate above, and the total contribution the employer needs to pay, referred to as the "*Secondary rate*". In broad terms, the Secondary rate is in respect of benefits already accrued at the valuation date. The Secondary rate may be expressed as a percentage of pay and/or a monetary amount in each year.

The Primary rate and Secondary rate for every contributing employer in the Fund is set out in the Rates and Adjustments Certificate in Appendix 3.

Each employer has been certified primary and secondary contributions that are appropriate for that employer's circumstances and which reflects that employer's experience. However, broadly speaking:

- Primary contribution rates have been subject to some upwards pressure as a result of a weaker outlook for future investment returns and the additional prudence built into funding plans to allow for the McCloud ruling;
- Secondary contributions have decreased as employer assets have increased since 31 March 2016, reducing any extra contributions required in respect of benefits accrued to the valuation date. The impact of this on secondary contributions has been partially offset by the additional prudence built into funding plans to allow for the McCloud ruling.

The table below summarises the whole fund Primary and Secondary Contribution rates at this valuation. 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 Regulations and CIPFA guidance. The whole fund Primary and Secondary contributions calculated at the 2016 valuation of the Fund are shown for comparison.

	Last Valuation 31 March 2016		This Valuation 31 March 2019	
Primary Rate (% of pay)	18.1%		18.4%	
Secondary Rate (£)	2017/18	26,039,000	2020/21	19,425,000
	2018/19	17,959,000	2021/22	19,061,000
	2019/20	18,355,000	2022/23	19,082,000

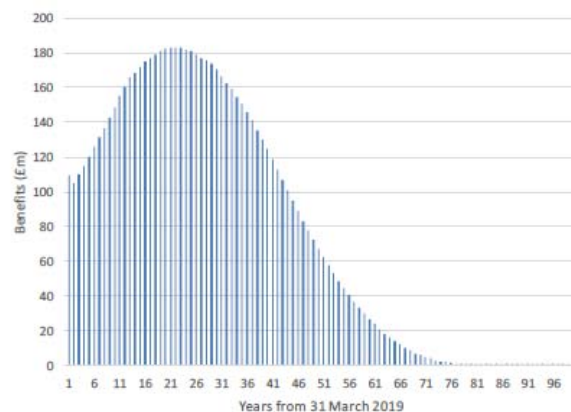
The Primary rate includes an allowance of 0.6% of pensionable pay for the Fund's expenses (0.6% at the 2016 valuation).

The average employee contribution rate is 6.3% of pensionable pay (6.3% at the 2016 valuation).

Funding position as at 31 March 2019

The funding position is a summary statistic often quoted to give an indication of the health of the fund. It is limited as it provides only a snapshot in time and is based on a single set of assumptions about the future. To measure the funding position at 31 March 2019, we compare the value of the Fund's assets on that date against the expected cost (including an allowance for future investment returns) of all the future benefit payments accrued up to the valuation date (the liabilities).

The chart below details the projected future benefit payments based on the membership data summarised in Appendix 1 and the demographic, salary and benefit increases assumptions summarised in appendix 2.



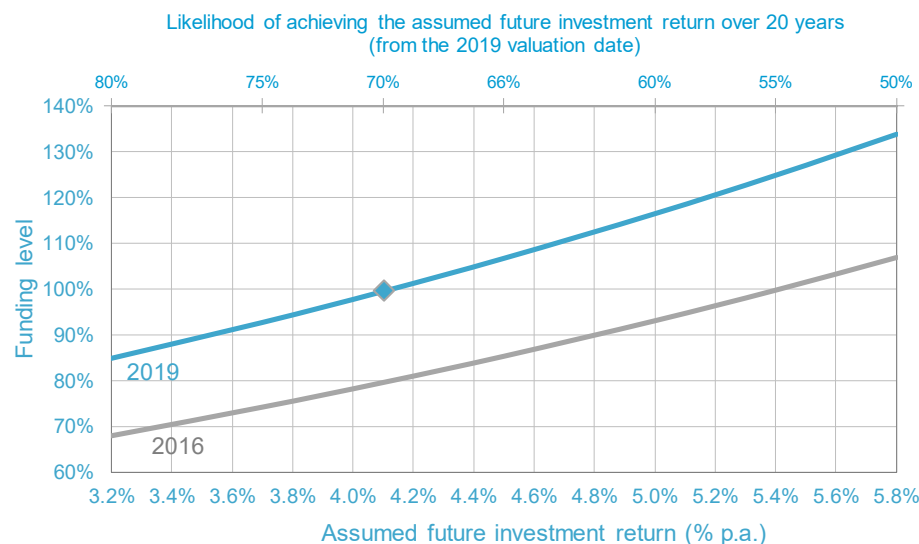
Using an assumption about the future investment return generated from the Fund's assets then allows a value to be placed on these payments in today's

money; the liabilities. The higher the assumed investment return, the lower the liability value and therefore the higher the funding level.

The value placed on the liabilities is extremely sensitive to the investment return assumption. Based on the Fund's current benchmark investment strategy (detailed in Appendix 1) and the same model used in the contribution rate calculations, it is estimated that:

- There is a 50% likelihood of the Fund's investments achieving at least an annual return of 5.8% p.a. over the next 20 years;
- There is a 70% likelihood of the Fund's investments achieving at least an annual return of 4.1% p.a. over the next 20 years; and
- There is an 80% likelihood of the Fund's investments achieving at least an annual return of 3.2% p.a. over the next 20 years.

The following chart shows how the funding level varies with the future investment return assumption (blue line). For comparison, the funding level associated with the same choice of investment return assumption at the 2016 valuation is also shown (grey line).



From this chart, we can see that:

- Regardless of the investment return assumption used, there has been a genuine improvement in the funding position at 31 March 2019 compared to the last valuation, reflecting an increase in the assets held today per pound of benefit to be paid out in future;
- The funding position would be 100% if future investment returns were around 4.1% p.a. (at 2016, the investment return would have needed to be 5.4% p.a.). The likelihood of the Fund's assets yielding at least this return is around 70%;
- If future investment returns were 5.8% p.a. then the Fund currently holds sufficient assets to meet 134% of the accrued liabilities. The likelihood of the Fund's assets yielding at least this return is 50%. 134% can therefore be considered the "best estimate" funding position.

Reported funding position

The valuation outputs are more meaningful when stakeholders can understand the likelihood, and hence the level of prudence, attached to them. The above chart does this for the measurement of the funding position.

However, there is still a requirement to report a single funding position at 31 March 2019. This reported position must include a margin of prudence.

For the purpose of reporting a funding level and an associated funding surplus/deficit for the 2019 valuation, an investment return of 4.1% p.a. has been used. It is estimated that the Fund's assets have a 70% likelihood of achieving this return.

The resulting funding position is as follows:

Valuation Date	31 March 2016	31 March 2019
Past Service Liabilities	(£m)	(£m)
Employees	953	965
Deferred Pensioners	726	886
Pensioners	1,222	1,353
Total Liabilities	2,902	3,204
Assets	2,277	3,193
Surplus / (Deficit)	(625)	(11)
Funding Level	78%	100%

There has been an improvement in the reported funding level since 31 March 2016 from 78% to 100% and a deterioration in the funding deficit from £625m to £11m.

A breakdown of the key factors that have influenced the reported funding position from 31 March 2016 to 31 March 2019 are detailed overleaf.

Change in the surplus/deficit position	Assets (£m)	Liabilities (£m)	Surplus / (Deficit) (£m)
Last valuation at 31 March 2016	2,277	2,902	(625)
Cashflows			
Employer contributions paid in	301		301
Employee contributions paid in	72		72
Benefits paid out	(305)	(305)	0
Net transfers into / out of the Fund*	(18)		(18)
Other cashflows (e.g. Fund expenses)	(7)		(7)
Expected changes in membership			
Interest on benefits already accrued		366	(366)
Accrual of new benefits		340	(340)
Membership experience vs expectations			
Salary increases greater than expected		11	(11)
Benefit increases less than expected		(1)	1
Early retirement strain (and contributions)	6	8	(2)
Ill health retirement gain		(12)	12
Early leavers greater than expected		(10)	10
Pensions ceasing greater than expected		(8)	8
Commutation greater than expected		(2)	2
Impact of GMP equalisation		5	(5)
Other membership experience		(68)	68
Changes in market conditions			
Investment returns on the Fund's assets	868		868
Changes in future inflation expectations		95	(95)
Changes in actuarial assumptions			
Change in demographic assumptions (excl. longevity)		(0)	0
Change in longevity assumptions		(78)	78
Change in salary increase assumption		6	(6)
Change in assumed rate of investment returns		(45)	45
This valuation at 31 March 2019	3,193	3,204	(11)

* We have insufficient data to value the impact on the liabilities as a result of transfers in/out

Note that figures may not sum due to rounding

Since the previous valuation, various events have taken place which affect the value placed on the liabilities, including:

- There is an interest cost of £366m. This is broadly three years of compound interest at 4.0% p.a. applied to the previous valuation liability value of £2,902m. The benefits that have been accrued to the valuation date are three years closer to payment at 31 March 2019 than they were at 31 March 2016, meaning there is less opportunity for future investment returns to help meet this cost. This serves to increase the value placed on the liabilities;
- The areas of membership experience that have had the greatest impact on the surplus/deficit position of the Fund are set out below, together with their impact on the liabilities:

	Expected	Actual	Difference	Impact on Liabilities
Pre-retirement experience				
Early leavers (no of lives)	7,377	14,823	7,446	Positive
Ill health retirements (no of lives)	198	112	(86)	Positive
Salary increases (p.a.)	3.1%	3.6%	0.5%	Negative
Post-retirement experience				
Benefit increases (p.a.)	2.1%	2.1%	(0.0%)	Broadly neutral
Pensions ceasing (£000)	5,393	5,539	146	Positive

- The changes to the longevity assumptions used for the valuation have resulted in a modest reduction in life expectancies. This has served to reduce the liabilities by £78m;
- The assumed rate of future CPI inflation has increased from 2.1% p.a. at 31 March 2016 to 2.3% p.a. at 31 March 2019. This has increased the value of the liabilities by £95m;
- The assumed rate of future investment returns has increased from 4.0% p.a. to 4.1% p.a.. This has reduced the value of the liabilities by £45m.

There has been a large increase in the value of the Fund's assets since the previous valuation because:

- The investment return on the Fund's assets for the period 31 March 2016 to 31 March 2019 was 35.5%. This has increased the value of the assets by £868m.

Projection of the funding position

The progression of the funding position will depend on various factors including future asset performance, economic conditions and membership movements. If the financial and demographic assumptions made at this valuation are borne out in practice, and there are no changes to the valuation assumptions, we project that the funding level at the 2022 valuation date will be approximately the same level to the 2019 valuation date. This allows for contributions to be paid as described in Appendix 3.

4 Sensitivity analysis

The results set out in this report are based on assumptions about the future. The actual cost of providing the benefits will depend on the actual experience of the Fund, which could be significantly better or worse than assumed. This section discusses the sensitivity of the results to some of the key assumptions.

Sensitivity of contribution rates to changes in assumptions

The approach to setting employer contribution rates mitigates the limitation of relying on one particular set of assumptions about the future by recognising the uncertainty around future investment returns and inflation. 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.

Sensitivity of the funding position to changes in assumptions

The reported valuation funding position is based on one set of actuarial assumptions about the future of the Fund. If all of the assumptions made were exactly borne out in practice then the liability value presented in this report would represent the actual cost of providing benefits from the Fund as it stands at 31 March 2019.

Sensitivity of the funding position to future investment returns

The chart in Section 3 details how the funding position varies with the future assumed investment return.

Sensitivity of the funding position to future inflation

Pensions (both in payment and in deferment) in the LGPS increase annually in line with CPI. Furthermore, benefits accrued in the CARE scheme are revalued annually in line with CPI. If future CPI inflation is higher than the assumed rate of 2.3% p.a. then the cost of the benefits will be higher than we have set out in Section 3.

The table quantifies the impact on the funding position of varying the benefit increases and CARE revaluation (CPI) assumption below.

CPI Assumption	Surplus/(Deficit)	Funding Level
% pa	(£m)	%
2.1%	84	103%
2.3%	(11)	100%
2.5%	(106)	97%

Sensitivity of the funding position to life expectancy

The main area of demographic risk is people living longer than expected. If long term mortality rates fall at a rate of 1.5% p.a. (compared to the assumed 1.25% p.a.) then members will live slightly longer than we have assumed in this valuation. The impact on the funding position is detailed below.

Long term rate of improvement	Surplus/(Deficit)	Funding Level
% pa	(£m)	%
1.25%	(11)	100%
1.50%	(35)	99%

Other demographic risks to consider

There are other risk factors which would have an impact on the funding position. Examples of these include the level of ill health retirements, withdrawals from the scheme and take up of the 50:50 option. These are probably unlikely to change in such a way that would rank them as amongst the highest risks facing the Fund and therefore there has been no further quantification of their risk.

Comment on sensitivity analysis

Note that the tables above show the effect of changes to each assumption in isolation. In reality, it is perfectly possible for the experience of the Fund to deviate from more than one of the assumptions simultaneously and so the precise effect on the funding position is therefore more complex. Furthermore, the range of assumptions shown here is by no means exhaustive and should not be considered as the limits of how extreme experience could actually be.

Other risks to consider

Regulatory, Administration and Governance risks

As well as financial and demographic risks, the Fund also faces:

- Regulatory risks – central government legislation could significantly change the cost of the scheme in the future; and
- Administration and governance risk – failures in administration processes could lead to incorrect data and inaccuracies in the actuarial calculations.

These risks are considered and monitored by the Fund as part of its ongoing risk management framework.

Resource and environment risks

The Fund is exposed to risks relating to future resource constraints and environmental changes. These risks may prove to be material.

Climate change is a complex issue for the Fund. Adverse future climate change outcomes will have an impact on future longevity, inflation, government and corporate bond yields and equity returns.

Whilst there has been no explicit increase in certified employer contribution related to climate change, these risks have been considered by the Administering Authority when assessing the output from contribution rate ('comPASS') modelling.

Risk management


Employers participating in the Fund are exposed to a number of risks. These include, but are not limited to:

- Investment risk;
- Market risks;
- Demographic risks;
- Regulatory risks;
- Administration and Governance risks;
- Resource and Environmental risks.

The Funding Strategy Statement has further details about these risks and what actions the Fund takes to monitor, mitigate and manage each one.

Post calculation events

There has recently been significant volatility in the financial markets as a result of the economic uncertainty associated with the COVID-19 pandemic. At the time of writing, we estimate the whole fund investment return to be in the region of -10 to -15% since 31 March 2019. As an open scheme, with a strong covenant, the LGPS as a whole is able to take a long term outlook when considering the general funding implications of such external events. For



employers who have a very short time horizon, recent market falls may be more immediately impactful, and the administering authority is taking steps to engage individually with these employers about the deteriorated funding position.

At the time of writing, it is very uncertain how this will affect the long term economy and investment returns. Therefore no allowance has been made for this ongoing volatility in the 2019 valuation results or contribution rates detailed in the Rates & Adjustments Certificate. This situation will be monitored closely to understand what impact it may have on the Fund and participating employers.

5 Final comments

The Fund's valuation operates within a broader framework, and this document should therefore 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 Pension Board, decisions delegated to officers, the Fund's business plan, etc;
- the Fund's risk register; and
- the information the Fund holds about the participating employers.

Intervaluation employer events

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 us in accordance with Regulation 64 of the Regulations.

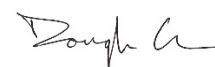
Any bulk movement of scheme members:

- involving 10 or more scheme members being transferred from or to another LGPS fund; or
- involving 2 or more scheme members being transferred from or to a non-LGPS pension arrangement;

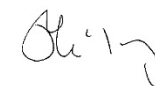
should be referred to us to consider the impact on the Fund.

Valuation frequency

Under the provisions of the LGPS regulations, the next formal valuation of the Fund is due to be carried out as at 31 March 2022 when contribution rates payable from 1 April 2023 will be set.



Douglas Green



Robert McInroy

Fellows of the Institute and Faculty of Actuaries

For and on behalf of Hymans Robertson LLP

31 March 2020

Appendices

Appendix 1 – Data

Membership data as at 31 March 2019

A summary of the membership data provided by the Administering Authority for the purposes of the valuation at 31 March 2019 is shown below. The corresponding membership data from the previous valuation is also shown for reference.

Whole Fund Membership Data	Last Valuation 31 March 2016	This Valuation 31 March 2019
Employee members		
Number	25,046	25,914
Total Actual Pay (£000)	380,833	414,741
Total Accrued Pension (£000) (CARE)	13,508	29,751
Average Age (liability weighted)	51.0	51.8
Future Working Lifetime (years)	9.2	7.0
Deferred pensioners		
Number	36,807	44,841
Total Accrued Pension (£000)	40,208	53,079
Average Age (liability weighted)	50.9	51.4
Pensioners		
Number	16,362	18,626
Total pensions in payment (£000)	75,812	85,241
Average Age (liability weighted)	67.9	68.5
Average duration of liabilities	18.7	18.1

Benchmark investment strategy

The following investment strategy, extracted from the Fund's Investment Strategy Statement, has been used to assess employer contribution rates and to set the future investment return assumption as at 31 March 2019:

% allocation	Current strategy
UK equities	10%
Overseas equities	55%
Infrastructure	5%
Private equity	5%
Total growth assets	75%
Index-linked gilts	5%
UK Corporate Bonds	7%
Total protection assets	12%
Property	10%
Alternatives	3%
Total income generating assets	13%
Grand total	100%

Other data used in this valuation

We have also relied upon asset and accounting data from the Fund's published 2016/17, 2017/18 and 2018/19 Annual Report and Accounts. Employer level cashflow data was provided by the Administering Authority and reconciled against the information shown in these documents.

Comment on data quality

The results of the valuation are dependent on the quality of the data provided to us by the Administering Authority for the specific purpose of this valuation. We have carried out validations on the membership data provided to ensure it is fit for the purpose of the valuation. Further details can be found in our report issued to the Administering Authority entitled "Data report for 2019 valuation", dated March 2020. We believe the membership data is fit for the purposes of this valuation.

Appendix 2 – Assumptions

Financial assumptions used to set employer contribution rates

Projection of assets and benefit payments

The approach to setting employer contribution rates does not rely on a single set of assumptions but involves the projection of an employer's future benefit payments, contributions and investment returns under 5,000 future economic scenarios. In this modelling, inflation (and therefore benefit payments) and investment returns for each asset class (and employer asset values) are variables and take different values in each projection.

The model underlying these projections is Hymans Robertson's proprietary economic model, the Economic Scenario Service (ESS). The ESS is a complex model to reflect the interactions and correlations between different asset classes and wider economic variables. The table below shows the calibration of the model as at 31 March 2019. All returns are shown net of fees and are the annualised total returns over 5, 10 and 20 years, except for the yields which refer to simulated yields at that time horizon.

Annualised total returns											
		Cash	Index Linked Gilts (medium)	Fixed Interest Gilts (medium)	UK Equity	Overseas Equity	Property	Corp Medium A	Inflation	17 year real yield	17 year yield
5 years	16th %ile	-0.4%	-2.3%	-2.9%	-4.1%	-4.1%	-3.5%	-2.7%	1.9%	-2.5%	0.8%
	50th %ile	0.7%	0.5%	0.3%	4.0%	4.1%	2.4%	0.8%	3.3%	-1.7%	2.1%
	84th %ile	2.0%	3.3%	3.4%	12.7%	12.5%	8.8%	4.0%	4.9%	-0.8%	3.6%
10 years	16th %ile	-0.2%	-1.8%	-1.3%	-1.5%	-1.4%	-1.5%	-0.9%	1.9%	-2.0%	1.2%
	50th %ile	1.3%	0.0%	0.2%	4.6%	4.7%	3.1%	0.8%	3.3%	-0.8%	2.8%
	84th %ile	2.9%	1.9%	1.7%	10.9%	10.8%	7.8%	2.5%	4.9%	0.4%	4.8%
20 years	16th %ile	0.7%	-1.1%	0.1%	1.2%	1.3%	0.6%	0.7%	2.0%	-0.7%	2.2%
	50th %ile	2.4%	0.3%	1.0%	5.7%	5.8%	4.3%	1.9%	3.2%	0.8%	4.0%
	84th %ile	4.5%	2.0%	2.0%	10.3%	10.4%	8.1%	3.0%	4.7%	2.2%	6.3%
Volatility (Disp) (1 yr)		1%	7%	10%	17%	17%	14%	11%	1%		

Funding target

At the end of an employer's funding time horizon, an assessment is made – for each of the 5,000 projections – of how the assets held compare to the value of assets required to meet the future benefit payments (the funding target). To value the cost of future benefits, assumptions are made about the following financial factors:

- Benefit increases and CARE revaluation;
- Salary growth;
- Investment returns (the “discount rate”).

Each of the 5,000 projections represents a different prevailing economic environment at the end of the funding time horizon and so a single, fixed value for each assumption is not appropriate for every projection. Therefore, instead of using a fixed value, each assumption is set with reference to an economic indicator. The economic indicators used are:

Assumption	Economic Indicator
Benefit increases	Future CPI inflation expectations
CARE revaluation	Future CPI inflation expectations
Salary increases	As above plus 0.5% p.a.
Future investment returns	Prevailing risk free rate of return plus margin

The Fund has three funding bases which will apply to different employers depending on their type. Each funding basis uses a different margin in the future investment return assumption.

Funding Basis	Margin above risk-free rate
Ongoing participation	1.8%
Contractor exit	Same as used to allocate assets on joining the Fund
Gilts exit	0%

Financial assumptions used to assess the funding position

Salary and Benefit Increases

Financial Assumptions (p.a.)	31 March 2016	31 March 2019
Benefit increases and CARE revaluation (CPI)	2.1%	2.3%
Salary increases	2.4%*	2.8%**

*CPI plus 0.3%

**2% until March 2020 followed by CPI plus 0.5%

Investment Return

The reported funding position is based on an assumed future investment return of 4.1% p.a.. The derivation of this assumption is set out in Section 3. The equivalent assumption at the 2016 valuation was 4.0% p.a.. This was derived in a different way, please see the 2016 valuation report for further details.

Demographic assumptions

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

Longevity

As the fund is a member of Club Vita, the baseline longevity assumptions are a bespoke set of Vita Curves that are tailored to fit the membership profile of the Fund. These curves are based on the data the Fund has provided us with for the purposes of this valuation.

We have also allowed for future improvements in mortality based on the CMI 2018 model with an allowance for smoothing of recent mortality experience and a long term rate of improvement of 1.25% p.a. for both women and men.

Longevity Assumptions	31 March 2016	31 March 2019
Baseline Longevity	Club Vita	Club Vita
Future Improvements	CMI2013, Peaked, 1.25% p.a. long term	CMI2018, Smoothed, 1.25% p.a. long term

Full details are available on request.

The longevity assumptions result in the following typical future life expectancies from age 65 (figures for 2016 shown for comparison):

Assumed Life Expectancy	31 March 2016	31 March 2019
Male		
Pensioners	22.4 years	22.0 years
Non-pensioners	24.0 years	22.7 years
Female		
Pensioners	24.4 years	24.0 years
Non-pensioners	26.3 years	25.5 years

Non-pensioners are assumed to be aged 45 at the valuation date

Other demographic assumptions

We are in the unique position of having a very large local authority data set from which to derive our other demographic assumptions. We have analysed the trends and patterns that are present in the membership of local authority funds and tailored our demographic assumptions to reflect LGPS experience. The resulting demographic assumptions are as follows:

Demographic Assumptions	
Retirements in normal health	We have adopted the retirement age pattern assumption as used for the purpose of the 2016 LGPS cost cap valuation. Further details are available on request.
Death in Service	See sample rates below
Retirements in ill health	See sample rates below
Withdrawals	See sample rates below
Promotional salary increases	See sample increases below
Family details	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 dependant of a female member is assumed to be 3 years older than her.
Commutation	25% of future retirements elect to exchange pension for additional tax free cash up to HMRC limits for service to 1 April 2008 (equivalent 64% for service from 1 April 2008).
50:50 option	1.0% of members (uniformly distributed across the age, service and salary range) will choose the 50:50 option.

Sample rates for demographic assumptions

Males

Age	Salary Scale	Incidence per 1000 active members per annum						
		Death Before Retirement FT & PT	Withdrawals		Ill Health Tier 1		Ill Health Tier 2	
			FT	PT	FT	PT	FT	PT
20	105	0.13	328.50	505.38	0.00	0.00	0.00	0.00
25	117	0.13	216.99	333.83	0.00	0.00	0.00	0.00
30	131	0.15	153.96	236.82	0.00	0.00	0.00	0.00
35	144	0.18	120.29	185.01	0.08	0.07	0.02	0.01
40	150	0.31	96.85	148.91	0.13	0.12	0.03	0.02
45	157	0.51	90.97	139.84	0.28	0.27	0.07	0.05
50	162	0.82	74.99	115.14	0.72	0.68	0.23	0.17
55	162	1.28	59.05	90.72	2.83	2.65	0.51	0.38
60	162	2.30	52.63	80.82	4.98	4.67	0.44	0.33
65	162	3.83	0.00	0.00	9.46	8.87	0.00	0.00

Females

Age	Salary Scale	Incidence per 1000 active members per annum						
		Death Before Retirement FT & PT	Withdrawals		Ill Health Tier 1		Ill Health Tier 2	
			FT	PT	FT	PT	FT	PT
20	105	0.10	261.48	378.95	0.00	0.00	0.00	0.00
25	117	0.10	175.94	254.95	0.08	0.05	0.02	0.01
30	131	0.14	147.48	213.68	0.10	0.07	0.03	0.02
35	144	0.24	127.29	184.36	0.21	0.15	0.05	0.04
40	150	0.38	105.94	153.39	0.31	0.22	0.08	0.06
45	157	0.62	98.86	143.12	0.41	0.29	0.10	0.08
50	162	0.90	83.35	120.53	0.77	0.54	0.24	0.18
55	162	1.19	62.19	90.03	2.87	2.02	0.52	0.39
60	162	1.52	50.12	72.46	4.57	3.21	0.54	0.40
65	162	1.95	0.00	0.00	8.21	5.77	0.00	0.00



Prudence in assumptions

We are required to include a degree of prudence within the valuation. This has been achieved in both the setting of contributions and assessment of funding position.

Contribution rates

- Employer funding plans have been set such that the likelihood the employer's funding target is met by the end of the funding time horizon is more than 50%. The actual likelihood varies by employer. Further detail in is the Funding Strategy Statement.

Funding position

- The Fund's investments have a 70% likelihood of returning at least the assumed return.

All other assumptions represent our "best estimate" of future experience.

The assumptions used in this valuation have been agreed with the Administering Authority and are set out in the Fund's Funding Strategy Statement dated November 2016.

Appendix 3 – Rates and Adjustments certificate

In accordance with regulation 62(4) of the 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 in order to maintain the solvency of the Fund.

The method and assumptions used to calculate the contributions set out in the Rates and Adjustments certificate are detailed in the Funding Strategy Statement dated November 2019 and in Appendix 2 of our report on the actuarial valuation dated March 2020. 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 2020 to 31 March 2023. 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 Regulations and CIPFA guidance.

Whole Fund Contribution Rate		
Primary Rate (% of pay)	18.4%	
Secondary Rate (£)	2020/21	19,425,000
	2021/22	19,061,000
	2022/23	19,082,000

The required minimum contribution rates for each employer in the Fund are set out below.

Employer code	Employer/Pool name	Contributions currently in payment 2019/2020	Primary Rate % 1 April 2020 - 31 March 2023	Secondary Rate						Total Contribution Rate		
				2020/2021		2021/2022		2022/2023		2020/2021	2021/2022	2022/2023
				% of pay	£	% of pay	£	% of pay	£			
Scheduled Bodies												
	Cambridgeshire County Council Pool	17.5% plus £4,012,000	17.8%	-0.3%	£4,012,000	-0.3%	£4,012,000	-0.3%	£4,012,000	17.5% plus £4,012,000	17.5% plus £4,012,000	17.5% plus £4,012,000
	Cambridge City Council Pool ¹	17.4%	17.6%	-0.2%	£8,905,000	-0.2%		-0.2%		17.4% plus £8,905,000	17.4%	17.4%
3	East Cambridgeshire District Council	17.2% plus £485,000	17.4%	-0.2%	£485,000	-0.2%	£485,000	-0.2%	£485,000	17.2% plus £485,000	17.2% plus £485,000	17.2% plus £485,000
	Fenland District Council Pool ²	17.4% plus £865,000	17.5%	-0.1%	£2,687,000	-0.1%		-0.1%		17.4% plus £2,687,000	17.4%	17.4%
	Huntingdonshire District Council Pool	17.3% plus £1,584,000	17.3%	0.0%	£1,584,000	0.0%	£1,584,000	0.0%	£1,584,000	17.3% plus £1,584,000	17.3% plus £1,584,000	17.3% plus £1,584,000
	South Cambridgeshire District Council Pool	17.0% plus £1,619,000	17.4%	-0.4%	£1,619,000	-0.4%	£1,619,000	-0.4%	£1,619,000	17.0% plus £1,619,000	17.0% plus £1,619,000	17.0% plus £1,619,000
	Peterborough City Council Pool	17.4% plus £1,880,000	17.5%	-0.1%	£1,880,000	-0.1%	£1,880,000	-0.1%	£1,880,000	17.4% plus £1,880,000	17.4% plus £1,880,000	17.4% plus £1,880,000
	Local Education Authority Schools (CCC)	22.0%	17.8%	4.2%		4.2%		4.2%		22.0%	22.0%	22.0%
	Local Education Authority Schools (PCC)	23.5%	17.3%	6.1%		6.1%		6.1%		23.4%	23.4%	23.4%
Major Employers												
33	Cambs & Peterborough Fire Authority	18.6% plus £364,000	16.5%	2.1%	£364,000	2.1%	£364,000	2.1%	£364,000	18.6% plus £364,000	18.6% plus £364,000	18.6% plus £364,000
647	Cambridgeshire Police and Crime Commission	22.9%	17.3%	5.6%		5.6%		5.6%		22.9%	22.9%	22.9%
655	Cambs Chief Constable	22.9%	17.3%	5.6%		5.6%		5.6%		22.9%	22.9%	22.9%

¹Cambridge City Council wish to pay a lump sum contribution of £8,905,000 in the year ending 31 March 2021. This sum is equivalent to the present value of contributions of £3,151,000 for the year ending 31 March 2021, £3,151,000 for the year ending 31 March 2022 and £3,151,000 for the year ending 31 March 2023.

²Fenland District Council wish to pay a lump sum contribution of £2,687,000 in the year ending 31 March 2021. This sum is equivalent to the present value of contributions of £865,000 for the year ending 31 March 2021, £953,000 for the year ending 31 March 2022 and £1,041,000 for the year ending 31 March 2023.

Employer code	Employer/Pool name	Contributions currently in payment 2019/2020	Primary Rate % 1 April 2020 - 31 March 2023	Secondary Rate						Total Contribution Rate		
				2020/2021		2021/2022		2022/2023		2020/2021	2021/2022	2022/2023
				% of pay	£	% of pay	£	% of pay	£			
Academies												
42	Lantern CP School Academy	20.0%	18.5%	1.9%		1.9%		1.9%		20.4%	20.4%	20.4%
46	Bar Hill Community Primary School	23.0%	18.8%	3.2%		2.7%		2.7%		22.0%	21.5%	21.5%
167	Stilton CofE Primary School	23.0%	18.4%	5.6%		6.0%		6.0%		24.0%	24.4%	24.4%
299	Thongsley Fields Primary and Nursery School	23.0%	18.3%	3.7%		3.1%		3.1%		22.0%	21.4%	21.4%
300	Discovery Primary Academy	20.3%	18.2%	1.1%		0.4%		0.4%		19.3%	18.6%	18.6%
404	Wintringham Primary Academy	18.4%	17.8%	1.6%		2.6%		3.6%		19.4%	20.4%	21.4%
452	Thomas Deacon Academy	20.0%	18.0%	1.1%		0.1%		0.0%		19.0%	18.0%	18.0%
499	Ormiston Bushfield Academy	18.6%	17.7%	0.0%		0.0%		0.0%		17.7%	17.7%	17.7%
515	Crosshall Junior	19.9%	18.8%	0.2%		0.0%		0.0%		18.9%	18.8%	18.8%
516	Crosshall Infants	18.7%	19.1%	0.0%		0.0%		0.0%		19.1%	19.1%	19.1%
522	Comberton Village College Academy	19.2%	18.4%	0.0%		0.0%		0.0%		18.4%	18.4%	18.4%
523	Kings School	20.0%	18.9%	0.0%		0.0%		0.0%		19.0%	18.9%	18.9%
524	Chilford Hundred Education Trust	18.3%	18.8%	0.0%		0.0%		0.0%		18.8%	18.8%	18.8%
526	Swavesey Village College Academy	20.0%	18.5%	0.5%		0.0%		0.0%		19.0%	18.5%	18.5%
529	Soham	20.0%	18.4%	0.6%		0.0%		0.0%		19.0%	18.4%	18.4%
530	Chesterton Community College	15.9%	17.1%	0.0%		0.0%		0.0%		17.1%	17.1%	17.1%
531	Cottenham Village College	20.0%	18.3%	0.6%		0.0%		0.0%		19.0%	18.3%	18.3%
532	Melbourn VC	19.7%	18.7%	0.0%		0.0%		0.0%		18.7%	18.7%	18.7%
533	Nene Park Academy	19.5%	18.4%	0.1%		0.0%		0.0%		18.5%	18.4%	18.4%
534	Bassingbourn Community College	20.0%	19.3%	0.0%		0.0%		0.0%		19.3%	19.3%	19.3%
535	The Centre School	16.2%	17.2%	0.0%		0.0%		0.0%		17.2%	17.2%	17.2%
536	Longsands Academy	20.0%	18.6%	0.5%		0.0%		0.0%		19.0%	18.6%	18.6%
538	St Ivo School	19.8%	18.7%	0.1%		0.0%		0.0%		18.8%	18.7%	18.7%
539	Sawston Village College	20.0%	18.1%	0.9%		0.0%		0.0%		19.0%	18.1%	18.1%
540	Bishops Creighton Academy	20.0%	17.6%	1.4%		0.4%		0.0%		19.0%	18.0%	17.6%
543	Emulf Academy	20.0%	18.6%	0.4%		0.0%		0.0%		19.0%	18.6%	18.6%
549	Sawtry Village College	20.0%	18.9%	0.1%		0.0%		0.0%		19.0%	18.9%	18.9%
550	Abbey College	20.0%	18.5%	0.4%		0.0%		0.0%		19.0%	18.5%	18.5%
551	Queen Katharine Academy	23.0%	18.0%	4.0%		3.7%		3.7%		22.0%	21.7%	21.7%
556	Bourn Academy	18.1%	18.5%	0.0%		0.0%		0.0%		18.5%	18.5%	18.5%
557	Buckden CE Primary	20.0%	18.8%	0.2%		0.0%		0.0%		19.0%	18.8%	18.8%
559	Hinchbrook Academy	18.7%	18.1%	0.0%		0.0%		0.0%		18.1%	18.1%	18.1%
561	Neale Wade Community College Academy	23.0%	18.5%	5.5%		6.1%		6.1%		24.0%	24.6%	24.6%
562	Impington Village College	18.4%	17.5%	0.0%		0.0%		0.0%		17.5%	17.5%	17.5%
566	Sir Harry Smith Community College	23.0%	18.7%	4.8%		4.8%		4.8%		23.5%	23.5%	23.5%
567	Cromwell Community College Academy	23.0%	18.5%	5.4%		6.4%		7.4%		24.0%	25.0%	26.0%
569	Middlefield Primary Academy	22.4%	18.8%	2.6%		1.6%		0.6%		21.4%	20.4%	19.4%
574	Winhills Primary School	20.0%	18.2%	0.8%		0.8%		0.8%		19.0%	19.0%	19.0%
575	Stanground Academy	23.0%	17.7%	6.3%		7.3%		8.3%		24.0%	25.0%	26.0%
577	Brooke Weston Trust	23.0%	17.9%	5.1%		5.4%		5.4%		23.0%	23.3%	23.3%
579	Kennett Primary School	23.0%	18.8%	3.2%		2.2%		2.2%		22.0%	21.0%	20.9%
589	Medeshamsted Academy (previously City of Peterborough)	16.4%	17.5%	0.0%		0.0%		0.0%		17.5%	17.5%	17.5%
601	Fulbridge Academy	21.0%	17.9%	2.1%		1.1%		1.1%		20.0%	19.0%	19.0%
605	Peckover Primary School	20.0%	17.9%	2.1%		5.4%		5.4%		20.0%	23.3%	23.3%
614	The Shade Primary School Academy	16.2%	18.0%	0.0%		0.0%		0.0%		18.0%	18.0%	18.0%
617	Burrowmoor School	20.4%	18.4%	1.1%		1.1%		1.1%		19.5%	19.5%	19.5%
618	Round House Primary School	18.0%	17.9%	0.0%		0.0%		0.0%		17.9%	17.9%	17.9%
619	North Cambridge Academy	19.2%	17.6%	0.9%		0.9%		0.9%		18.5%	18.5%	18.5%
621	Bury CE School Academy	23.1%	19.1%	4.0%		4.0%		4.0%		23.2%	23.2%	23.2%
622	Highlees Primary School	25.0%	17.9%	8.1%		8.7%		8.7%		26.0%	26.6%	26.6%

Employer code	Employer/Pool name	Contributions currently in payment 2019/2020	Primary Rate % 1 April 2020 - 31 March 2023	Secondary Rate						Total Contribution Rate		
				2020/2021		2021/2022		2022/2023		2020/2021	2021/2022	2022/2023
				% of pay	£	% of pay	£	% of pay	£			
Academies cont.												
626	Chesterton Primary School Academy	18.3%	19.3%	0.0%		0.0%		0.0%		19.3%	19.3%	19.3%
630	Nene Infants School Academy	21.3%	17.5%	2.9%		1.9%		1.4%		20.3%	19.3%	18.8%
632	Cambridge Meridian Academy Trust (HQ Staff)	20.0%	16.1%	2.9%		1.9%		0.9%		19.0%	18.0%	17.0%
633	Ramnoth Primary School	21.9%	18.6%	2.4%		2.0%		2.0%		20.9%	20.6%	20.6%
634	City of Peterborough Academy	20.0%	16.9%	2.2%		1.2%		0.2%		19.0%	18.0%	17.0%
635	Ormiston Meadows Primary School	23.0%	18.9%	5.1%		6.1%		7.1%		24.0%	25.0%	26.0%
636	Cambourne Village College	16.6%	17.7%	0.0%		0.0%		0.0%		17.7%	17.7%	17.7%
638	Park Lane Primary & Nursery School (Academy)	22.1%	18.2%	3.2%		3.2%		3.2%		21.4%	21.4%	21.4%
639	Stanground St John's CofE Primary School	24.5%	17.8%	7.1%		7.1%		7.1%		24.9%	24.9%	24.9%
640	Welland Primary School (Academy)	21.0%	17.4%	3.5%		3.5%		3.5%		20.9%	20.9%	20.9%
643	Newark Hill Primary School	23.0%	18.5%	5.6%		6.6%		7.6%		24.0%	25.0%	26.0%
644	Kimbolton Primary School	20.0%	19.0%	0.0%		0.0%		0.0%		19.0%	19.0%	19.0%
645	West Town Academy	23.0%	18.2%	5.5%		5.5%		5.5%		23.7%	23.7%	23.7%
651	Active Learning Trust HQ	19.4%	16.7%	1.7%		0.7%		0.0%		18.4%	17.4%	16.7%
653	Great Staughton Primary Academy	23.0%	18.7%	5.3%		6.3%		7.3%		24.0%	25.0%	26.0%
654	Meadow Primary School	18.0%	18.7%	0.0%		0.0%		0.0%		18.7%	18.7%	18.7%
659	Kingsfield Primary Academy	19.5%	18.4%	0.8%		0.8%		0.8%		19.2%	19.2%	19.2%
660	Hampton Academy	19.8%	17.5%	1.3%		1.0%		1.0%		18.8%	18.5%	18.5%
664	William Law Academy	23.9%	18.3%	5.2%		5.2%		5.2%		23.5%	23.5%	23.5%
668	Dogsthorpe Academy	25.0%	18.5%	7.5%		8.5%		9.5%		26.0%	27.0%	28.0%
669	Isle of Ely Primary School	15.6%	17.6%	0.0%		0.7%		0.7%		17.6%	18.3%	18.3%
671	Comberton Academy Trust HQ	19.0%	17.5%	0.5%		0.0%		0.0%		18.0%	17.5%	17.5%
672	Mepal and Witcham Primary School	19.4%	18.4%	1.0%		1.0%		1.0%		19.4%	19.4%	19.4%
673	St Andrews CofE Primary School	23.0%	19.0%	5.1%		6.0%		6.0%		24.0%	24.9%	24.9%
674	St Peter's CofE Aided Junior School	23.0%	18.3%	5.7%		6.7%		7.7%		24.0%	25.0%	26.0%
675	William De Yaxley Primary School	21.4%	18.5%	3.9%		3.9%		3.9%		22.3%	22.3%	22.3%
678	University of Cambridge Primary	20.0%	17.7%	1.3%		0.3%		0.0%		19.0%	18.0%	17.7%
682	St Mary's CofE Junior School, ELY	22.5%	18.4%	4.5%		4.5%		4.5%		22.9%	22.9%	22.9%
683	Greater Peterborough UTC	18.4%	17.7%	0.0%		0.0%		0.0%		17.7%	17.7%	17.7%
694	Elm Road	23.0%	18.3%	3.7%		3.5%		3.5%		22.0%	21.9%	21.9%
695	Millfield	23.0%	18.2%	4.3%		4.3%		4.3%		22.5%	22.5%	22.5%
696	Eyrescroft	23.0%	18.3%	5.7%		6.7%		6.9%		24.0%	25.0%	25.2%
704	St Mary's Academy (St Neots)	21.8%	18.5%	2.3%		1.3%		0.3%		20.8%	19.8%	18.8%
706	Gamlingay Village Primary	23.0%	19.1%	4.7%		4.7%		4.7%		23.8%	23.8%	23.8%
718	St Botolph's Church of England Primary Academy	21.8%	18.6%	2.2%		1.6%		1.6%		20.8%	20.3%	20.3%
724	Westwood Primary School Academy	20.5%	18.5%	1.3%		1.3%		1.3%		19.8%	19.8%	19.8%
726	Swaffham Prior CE Primary School	23.0%	19.9%	4.1%		5.1%		5.1%		24.0%	24.9%	24.9%
728	Swaffham Bulbeck CE Primary Academy	23.3%	19.5%	2.8%		2.6%		2.6%		22.3%	22.1%	22.1%
738	Hampton Vale Primary Academy	20.2%	17.2%	2.0%		1.8%		1.8%		19.2%	19.1%	19.1%
743	Braybrook Primary School	25.8%	18.6%	6.2%		5.2%		4.2%		24.8%	23.8%	22.8%
755	Own Academy Trust	22.5%	18.2%	3.3%		2.8%		2.8%		21.5%	21.0%	21.0%
902	Cambridge AP Academy	23.0%	16.7%	5.3%		4.3%		3.3%		22.0%	21.0%	20.0%
903	Octavia AP Academy	23.0%	16.5%	5.5%		4.5%		3.5%		22.0%	21.0%	20.0%
904	Trinity School (Unity)	23.0%	16.9%	5.1%		4.1%		3.1%		22.0%	21.0%	20.0%
908	Highfield Special School	23.0%	18.0%	4.0%		3.0%		2.0%		22.0%	21.0%	20.0%
909	Meadowgate Academy	23.0%	17.6%	4.4%		3.4%		2.4%		22.0%	21.0%	20.0%
910	Ermine Street Church Academy	23.0%	18.3%	3.7%		2.7%		1.7%		22.0%	21.0%	20.0%
911	Guilden Morden CoE Primary Academy	21.3%	18.0%	2.3%		1.3%		0.3%		20.3%	19.3%	18.3%
912	Linton Heights Junior Academy	21.5%	18.4%	2.1%		1.1%		0.1%		20.5%	19.5%	18.5%
915	Thomas Eaton Community Primary School	23.0%	19.0%	4.1%		4.1%		4.1%		23.1%	23.1%	23.1%
917	Wisbech St Marys CofE Primary School	23.0%	18.9%	3.2%		3.2%		3.2%		22.1%	22.1%	22.1%

Employer code	Employer/Pool name	Contributions currently in payment 2019/2020	Primary Rate % 1 April 2020 - 31 March 2023	Secondary Rate						Total Contribution Rate		
				2020/2021		2021/2022		2022/2023		2020/2021	2021/2022	2022/2023
				% of pay	£	% of pay	£	% of pay	£			
Academies cont.												
925	Cavalry Primary Academy	23.0%	18.5%	3.5%		2.5%		1.7%		22.0%	21.0%	20.2%
926	Ramsey Community Junior Academy	23.0%	19.0%	3.3%		3.3%		3.3%		22.3%	22.3%	22.3%
927	Ramsey Spinning Infant Academy	23.0%	18.7%	5.3%		5.8%		5.8%		24.0%	24.5%	24.5%
930	Gladstone Primary Academy	23.0%	17.8%	4.2%		3.4%		3.4%		22.0%	21.2%	21.2%
935	Guyhirn CoE Primary School	23.0%	18.8%	4.3%		4.3%		4.3%		23.1%	23.1%	23.1%
937	Lime Academy - Parnwell	23.0%	17.6%	5.4%		5.4%		5.4%		22.9%	22.9%	22.9%
938	Lime Academy - Abbotsmede	23.0%	17.3%	6.6%		6.6%		6.6%		23.9%	23.9%	23.9%
939	Lime Academy - Watergall	22.6%	17.8%	3.8%		3.5%		3.5%		21.6%	21.4%	21.4%
941	Hartford Junior	22.8%	18.4%	3.4%		2.4%		1.6%		21.8%	20.8%	20.0%
942	Ditton Lodge Primary School	22.5%	18.9%	2.6%		2.6%		2.6%		21.5%	21.5%	21.5%
945	Littleport & East Cambridgeshire Academy	18.9%	18.1%	0.0%		0.0%		0.0%		18.1%	18.1%	18.1%
946	Highfield Littleport Academy	20.0%	17.2%	1.8%		0.8%		0.1%		19.0%	18.0%	17.4%
948	Trumpington Park	20.5%	18.8%	0.7%		0.0%		0.0%		19.5%	18.8%	18.8%
949	Hampton Gardens Academy	16.5%	17.3%	0.0%		0.0%		0.0%		17.3%	17.3%	17.3%
950	Elm Cof E Primary School	21.2%	18.4%	1.8%		1.7%		1.7%		20.2%	20.1%	20.1%
951	Babraham CoE Primary School	23.0%	19.3%	4.7%		5.7%		6.7%		24.0%	25.0%	26.0%
953	Jeavons Wood Primary	19.3%	18.0%	1.2%		1.2%		1.2%		19.1%	19.1%	19.1%
955	Diocese of Ely Multi Academy Trust (DEMAT) H	23.0%	15.9%	8.1%		9.1%		10.1%		24.0%	25.0%	26.0%
959	Soke Education Trust	23.0%	18.7%	4.9%		4.9%		4.9%		23.6%	23.6%	23.6%
960	Earith Primary School	23.0%	19.5%	4.5%		4.6%		4.6%		24.0%	24.1%	24.1%
963	Thriplow CE Primary School	23.0%	19.1%	4.9%		5.9%		6.2%		24.0%	25.0%	25.3%
965	Orchards CE Primary School	21.1%	18.0%	2.7%		2.7%		2.7%		20.7%	20.7%	20.7%
966	Farcet CE Primary Academy	23.0%	19.1%	4.4%		4.4%		4.4%		23.4%	23.4%	23.4%
967	Fen Ditton Primary School	23.0%	18.8%	3.2%		3.2%		3.2%		22.0%	22.0%	22.0%
968	Stapleford Community Primary School	21.4%	18.5%	1.9%		1.3%		1.3%		20.4%	19.7%	19.7%
969	Bottisham Community Primary School	23.0%	19.7%	4.3%		5.3%		6.2%		24.0%	25.0%	25.9%
971	Gorefield Primary Academy	23.0%	18.8%	3.2%		3.1%		3.1%		22.0%	21.9%	21.9%
	Alderman Jacobs Academy Pool	20.0%	18.6%	0.3%		0.0%		0.0%		19.0%	18.6%	18.6%
	All Saints Inter Church VA Primary School Pool	23.0%	18.9%	5.1%		6.1%		6.4%		24.0%	25.0%	25.2%
	Arthur Mellows Academy Pool	19.6%	18.4%	0.2%		0.0%		0.0%		18.6%	18.4%	18.4%
	Bottisham Village Academy Pool	18.1%	18.3%	0.0%		0.0%		0.0%		18.3%	18.3%	18.3%
	Cambridge Academic Partnership Pool	19.0%	17.7%	0.3%		0.0%		0.0%		18.0%	17.7%	17.7%
	Cambridge Primary Education Trust Pool	23.0%	18.9%	3.1%		2.1%		1.1%		22.0%	21.0%	20.0%
	Cromwell Academy Pool	23.0%	16.9%	5.0%		4.0%		3.0%		22.0%	21.0%	20.0%
	Downham Feoffees Primary Academy Pool	21.7%	18.8%	2.8%		2.8%		2.8%		21.5%	21.5%	21.5%
	Ely College Pool	20.0%	18.6%	0.4%		0.0%		0.0%		19.0%	18.6%	18.6%
	Glebelands Primary School Academy Pool	23.0%	18.9%	4.0%		4.0%		4.0%		22.8%	22.8%	22.8%
	Godmanchester Community Academy Pool	20.0%	17.9%	2.1%		2.1%		2.1%		20.0%	20.0%	20.0%
	Hartford Infants Pool	22.1%	18.4%	2.7%		1.7%		1.1%		21.1%	20.1%	19.5%
	Leverington Primary Academy Trust Pool	20.0%	18.4%	0.6%		0.0%		0.0%		19.0%	18.4%	18.4%
	Milton CoE Primary Academy Pool	23.0%	19.0%	3.8%		3.8%		3.8%		22.8%	22.8%	22.8%
	Netherall Academy Pool	23.0%	18.4%	4.7%		4.7%		4.7%		23.0%	23.0%	23.0%
	New Road Primary School Pool	22.1%	18.9%	2.2%		1.3%		1.3%		21.1%	20.2%	20.2%
	Peterborough Keys Academies Trust Pool	23.0%	18.1%	3.9%		3.8%		3.8%		22.0%	21.9%	21.9%
	Sawtry Junior Academy Pool	23.0%	18.6%	5.0%		5.0%		5.0%		23.6%	23.6%	23.6%
	Spring Common Academy Pool	23.0%	17.9%	5.3%		5.3%		5.3%		23.2%	23.2%	23.2%
	St Bede's Inter Church Pool	23.0%	18.9%	5.1%		6.1%		7.1%		24.0%	25.0%	26.0%
	St John's CoE Primary Academy Pool	23.0%	18.5%	5.5%		5.8%		5.8%		24.0%	24.3%	24.3%
	St Peter's Academy Pool	19.8%	18.5%	0.3%		0.3%		0.3%		18.8%	18.7%	18.7%
	Upwood Primary School Pool	23.0%	20.0%	4.0%		4.5%		4.5%		24.0%	24.5%	24.5%
	Weatheralls Primary School Academy Pool	22.8%	18.3%	5.5%		5.7%		5.7%		23.8%	24.1%	24.1%
	Witchford Village College Pool	16.4%	18.4%	0.0%		0.0%		0.0%		18.4%	18.4%	18.4%

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				2020/2021		2021/2022		2022/2023		2020/2021	2021/2022	2022/2023
				% of pay	£	% of pay	£	% of pay	£			
Colleges												
127	Hills Road 6th Form College	20.0% plus £56,000	23.1%				£6,000		£12,000	23.1%	23.1% plus £6,000	23.1% plus £12,000
165	Long Road 6th Form College	19.8% plus £53,000	22.5%	0.6%		-0.2%		-1.0%		23.2%	22.4%	21.5%
215	Peterborough Regional College	19.3% plus £215,000	22.3%	0.1%		-0.3%		-0.7%		22.4%	22.0%	21.6%
	Cambridge Regional College Pool	19.7% plus £397,000	22.7%		£127,000		£80,000		£33,000	22.7% plus £127,000	22.7% plus £80,000	22.7% plus £33,000
CAB												
49	The Edmund Trust (previously known as Cambridgeshire MENCAP)	46.8%	33.9%		£22,000		£44,000		£67,000	33.9% plus £22,000	33.9% plus £44,000	33.9% plus £67,000
79	East of England Local Government Association	15.9% plus £108,000	16.6%		£79,000		£52,000		£22,000	16.6% plus £79,000	16.6% plus £52,000	16.6% plus £22,000
105	Friends Therapeutic Community Trust ³	24.5% plus £117,000	27.8%		£87,000		£89,000		£90,000	27.8% plus £87,000	27.8% plus £89,000	27.8% plus £90,000
131	Homerton College	18.2%	24.2%	-6.1%		-6.2%		-6.3%		18.1%	18.0%	17.9%
148	Kelsey Kerridge Sports Hall Trust	46.8%	34.7%		£28,000		£28,000		£28,000	34.7% plus £28,000	34.7% plus £28,000	34.7% plus £28,000
151	Kimbolton School ⁴	32.1% plus £135,000	17.9%		£95,000		£95,000		£95,000	17.9% plus £95,000	17.9% plus £95,000	17.9% plus £95,000
182	Collections Trust	46.8%	25.2%		£15,000		£15,000		£15,000	25.2% plus £15,000	25.2% plus £15,000	25.2% plus £15,000
283	Wisbech and Fenland Museum	46.8%	32.0%		£3,000		£3,000		£3,000	32.0% plus £3,000	32.0% plus £3,000	32.0% plus £3,000
434	Cross Keys Homes Limited	31.4% plus £308,000	26.2%		£239,000		£152,000		£59,000	26.2% plus £239,000	26.2% plus £152,000	26.2% plus £59,000
473	Clarion Housing Association	22.0%	46.9%		£96,000		£287,000		£479,000	46.9% plus £96,000	46.9% plus £287,000	46.9% plus £479,000
512	Peterborough Culture and Leisure (‘Vivacity’)	18.8%	31.4%	-16.3%		-20.1%		-23.8%		15.0%	11.3%	7.6%
657	Cambridgeshire & P’boro CCG	25.2% plus £36,000	31.8%		£39,000		£51,000		£64,000	31.8% plus £39,000	31.8% plus £51,000	31.8% plus £64,000
687	Cambridgeshire and Peterborough Foundation Trust (CPFT)	33.1%	30.5%	-30.5%		-30.5%		-30.5%		0.0%	0.0%	0.0%
702	Visit Cambridge and Beyond	26.2%	17.6%	-0.2%		-0.2%		-0.2%		17.4%	17.4%	17.4%
964	Family Psychological Mutual	33.7%	21.7%	7.5%		3.0%		-1.6%		29.2%	24.6%	20.1%
	Care Quality Commission Pool	30.4%	42.9%	-42.9%		-42.9%		-42.9%		0.0%	0.0%	0.0%
	Chorus Homes Pool	24.9% plus £669,000	24.9%		£425,000		£425,000		£425,000	24.9% plus £425,000	24.9% plus £425,000	24.9% plus £425,000
	Sanctuary Pool ⁴	27.9% plus £434,000	46.3%		£434,000		£434,000		£434,000	46.3% plus £434,000	46.3% plus £434,000	46.3% plus £434,000
	The Stephen Perse Foundation Pool	39.1%	24.5%	7.2%		-0.2%		-7.6%		31.7%	24.2%	16.8%

³The contribution rates quoted above for Friends Therapeutic Community Trust have been set out on the basis that the employer provides the Fund with additional reassurance regarding its current circumstance. If such reassurance is not in place by 30 September 2020, the Fund reserves the right to amend the contribution rates above.

⁴The contribution rates quoted above for Kimbolton School and Sanctuary Housing have been set on the basis that each employer obtains a form of security that is deemed appropriate by the Fund. If such a security is not in place by 30 September 2020, the Fund reserves the right to amend the contribution rates above.

Employer code	Employer/Pool name	Contributions currently in payment 2019/2020	Primary Rate % 1 April 2020 - 31 March 2023	Secondary Rate						Total Contribution Rate		
				2020/2021		2021/2022		2022/2023		2020/2021	2021/2022	2022/2023
				% of pay	£	% of pay	£	% of pay	£			
TAB												
457	Ecovert FM Limited (PFI)	30.9%	29.6%	-29.6%		-29.6%		-29.6%		0.0%	0.0%	0.0%
483	Oxford Archaeology (East)	19.3%	26.0%	-11.6%		-11.6%		-11.6%		14.3%	14.3%	14.3%
489	Serco Ltd (PCC)	9.3%	27.9%	-27.9%		-27.9%		-27.9%		0.0%	0.0%	0.0%
498	Serco Limited	2.9%	28.0%	-28.0%		-28.0%		-28.0%		0.0%	0.0%	0.0%
501	Mears Limited	0.0%	28.6%	-28.6%		-28.6%		-28.6%		0.0%	0.0%	0.0%
514	Mitie PFI Limited	11.9%	25.1%	-25.1%		-25.1%		-25.1%		0.0%	0.0%	0.0%
545	Balfour Beatty	27.7% plus £8,000	27.8%	-27.8%		-27.8%		-27.8%		0.0%	0.0%	0.0%
552	Action for Children	0.0%	27.9%	-27.9%		-27.9%		-27.9%		0.0%	0.0%	0.0%
564	Spurgeons	0.0%	25.5%	-25.5%		-25.5%		-25.5%		0.0%	0.0%	0.0%
572	Mears Ltd (SCDC Responsive Repairs Service)	0.0%	30.7%	-30.7%		-30.7%		-30.7%		0.0%	0.0%	0.0%
588	Elior UK	0.0%	28.4%	-28.4%		-28.4%		-28.4%		0.0%	0.0%	0.0%
627	Skanska	21.6%	30.7%	-17.7%		-26.3%		-30.7%		13.0%	4.4%	0.0%
629	Greenwich Leisure Limited	25.7%	33.6%	-6.0%		-4.1%		-2.3%		27.6%	29.4%	31.3%
642	Radis Group	18.0%	33.7%	-28.0%		-33.7%		-33.7%		5.7%	0.0%	0.0%
670	TSG Building Services Ltd	12.1%	27.0%	-27.0%		-27.0%		-27.0%		0.0%	0.0%	0.0%
680	Churchill Contract Services Ltd	11.1%	31.5%		£294,000					31.5% plus £294,000	31.5%	31.5%
710	NPS Property Consultants Ltd	29.3%	30.2%	-30.2%		-30.2%		-30.2%		0.0%	0.0%	0.0%
720	Caterlink UK Ltd (Emulf Academy)	35.2%	28.2%	3.5%		0.1%		-3.4%		31.7%	28.3%	24.8%
754	Nightingale Cleaning Ltd ⁴	31.5%	33.0%		£43,000		£43,000			33.0% plus £43,000	33.0% plus £43,000	33.0%
764	Freedom Leisure ⁴	22.9%	18.6%							18.6%	18.6%	18.6%
767	Caterlink (The Diamond Learning Partnership)	35.8%	33.9%							33.9%	33.9%	33.9%
774	Aramark (Cambridge Regional College)	30.8%	29.5%		£9,000		£9,000		£9,000	29.5% plus £9,000	29.5% plus £9,000	29.5% plus £9,000
	Home Close Pool	29.3% plus £52,000	30.6%	-30.6%		-30.6%		-30.6%		0.0%	0.0%	0.0%
Designating												
676	LGSS Law Ltd	21.8%	17.8%	3.9%		3.9%		3.9%		21.7%	21.7%	21.7%
693	Bar Hill Parish Council	36.8%	22.9%	8.5%		3.2%		-2.2%		31.4%	26.1%	20.7%
931	Balsham Parish Council	36.8%	23.2%	8.5%		3.4%		-1.7%		31.7%	26.6%	21.5%

⁴As at the valuation date, the Employer had not made any employee or employer contributions to the Fund. In calculating the contribution rate, we have assumed that these contributions have since been paid.

We may need to revisit our calculations if the contribution payments are not backdated.

Employer code	Employer/Pool name	Contributions currently in payment 2019/2020	Primary Rate % 1 April 2020 - 31 March 2023	Secondary Rate						Total Contribution Rate		
				2020/2021		2021/2022		2022/2023		2020/2021	2021/2022	2022/2023
				% of pay	£	% of pay	£	% of pay	£			
Resolution												
	Resolution Bodies Pool	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
19	Bretton Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
35	Burnt Fen IDB	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
36	Burwell Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
53	City of Ely Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
54	Conservators of the River Cam ⁶	46.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
64	Chatteris Town Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
100	Feldale Internal Drainage Board	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
111	Gamlingay Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
136	Huntingdon Town Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
161	Linton Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
162	Littleport & Downham District IDB	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
176	Middle Fen & Mere IDB	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
178	Middle Level Commissioners	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
188	Newborough Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
189	North Level Internal drainage Board	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
240	Somersham Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
242	Sawtry Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
243	Sawston Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
245	Soham Town Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
247	St. Ives Town Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
250	St. Neots Town Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
252	Swaffham Internal Drainage Board	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
260	Thorney Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
276	Waterbeach Level IDB	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
277	Waterbeach Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
281	Whittlesey Internal Drainage Board	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
282	Wimblington Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
295	Yaxley Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
439	Sutton Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
440	Cambourne Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
447	Little Paxton Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
448	Little Downham Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
449	Haddenham Level Drainage Commissioners	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
459	Wisbech Town Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
470	Eye Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
504	Haddenham Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
565	Farcet Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
581	Histon & Impington Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
591	Caldecote Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
602	Swavesey Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
603	Orton Waterville Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
641	Witcham Parish Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%
679	Whittlesey Town Council	36.8%	21.5%	0.0%		0.0%		0.0%		21.5%	21.5%	21.5%

⁶The Fund are currently in discussion with the Conservators of the River Cam over their designating body status, based on their precepting powers.

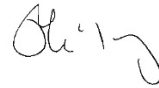
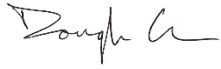
Employer code	Employer/Pool name	Contributions currently in payment 2019/2020	Primary Rate % 1 April 2020 - 31 March 2023	Secondary Rate						Total Contribution Rate		
				2020/2021		2021/2022		2022/2023		2020/2021	2021/2022	2022/2023
				% of pay	£	% of pay	£	% of pay	£			
Post 2019 Valuation Employers												
	757 Welbourne Primary Academy	23.0%	19.7%	4.3%		5.3%		5.8%		24.0%	25.0%	25.5%
	765 Warboys Primary School	23.0%	21.5%	2.5%		3.5%		4.5%		24.0%	25.0%	26.0%
	766 Holme CofE Primary School	23.0%	21.3%	2.7%		3.3%		3.3%		24.0%	24.6%	24.6%
	790 Oakington CofE Primary School Acadmey	23.0%	21.3%	2.7%		3.6%		3.6%		24.0%	24.9%	24.9%
	791 St Luke's CofE Primary School	23.0%	20.9%	3.1%		4.1%		5.1%		24.0%	25.0%	26.0%
	794 The Galfrid Primary School	23.0%	22.5%	1.5%		2.5%		3.5%		24.0%	25.0%	26.0%
	796 Hampton Lakes Primary School	19.0%	20.2%	-0.2%		0.0%		0.0%		20.0%	20.2%	20.2%
	797 St Thomas More Catholic Primary School	23.0%	23.7%	0.3%		1.3%		2.3%		24.0%	25.0%	26.0%
	798 Somersham Primary School	23.0%	21.3%	2.7%		3.7%		4.7%		24.0%	25.0%	26.0%
No Actives												
	7 Peterborough Development Corporation											
	16 Anglia Higher Education College											
	28 Bowthorpe Hall											
	34 Centre 33											
	38 Connexions											
	39 Cambs Assoc of Social Welfare											
	40 Drinksense											
	41 Cambridge & County Folk Museum											
	43 Cambridge Institute of Education											
	44 Cambridge ITEC											
	50 Cambridge College of Agriculture & Horticulture											
	55 The Cresset											
	58 Commissions East Limited											
	65 Cambs Career Guidance											
	66 Doddington Parish Council											
	76 Eastern Arts Board											
	89 Impington Parish Council											
	95 Farmland Museum											
	108 Fulbourn Parish Council											
	128 Histon & Impington Recreational Ground											
	132 Holmewood & District IDB											
	133 Huntingdonshire Citizens Advice Bureau											
	135 Huntingdon & Godmanchester											
	152 Kimbolton & Stonely Parish Council											
	153 Kings's School Pboro											
	164 Littleport Parish Council											
	173 Mepal Outdoor Centre											
	180 Milton Parish Council											
	184 Methodist Homes for the Aged											
	186 Nene Valley Research Committee											
	211 Peterborough Council for Voluntary Service											
	214 Westgate Project											
	230 Screen East Ltd											
	232 Ramsey Town Council											
	246 St. Columba Group Therapy Centre											
	249 St. Martin's Day Care Centre											

Employer code	Employer/Pool name	Contributions currently in payment 2019/2020	Primary Rate % 1 April 2020 - 31 March 2023	Secondary Rate						Total Contribution Rate		
				2020/2021		2021/2022		2022/2023		2020/2021	2021/2022	2022/2023
				% of pay	£	% of pay	£	% of pay	£			
No Actives cont.												
258	St. Neots Museum Limited											
259	Cambridge Federation of Tenants											
265	Tydd St. Giles Parish Council											
280	Whittlesey Fifth I D B											
296	Turning the Red Lights Green											
427	Cambridgeshire & Peterborough MHT											
433	Old West Internal Drainage Board											
446	Homerton School of Health Studies											
450	Hardwick Parish Council											
477	Cambridge Sports Lake Trust											
502	Edwards and Blake Limited											
503	Aaron Services Ltd											
505	Fire Regional Control Centre											
511	Mepal Parish Council											
597	Cheveley Parish Council											

Further comments

- Contributions expressed as a percentage of payroll should be paid into Cambridgeshire Pension Fund (“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.
- There has been significant volatility in the financial markets during February and March 2020 as a result of the Covid-19 pandemic. This volatility may impact funding balance sheets for those employers planning to exit the Fund during the period covered by this Rates and Adjustments Certificate. In order to effectively manage employer exits from the Fund, the Administering Authority reserves the right to revisit the contribution rates for employers that are expected to cease participation in the Fund before 31 March 2023. An employer will be contacted by the Administering Authority in this instance.

Signature:



Name:

Douglas Green

Robert McInroy

Qualification:

Fellows of the Institute and Faculty of Actuaries

Firm:

Hymans Robertson LLP
20 Waterloo Street
Glasgow
G2 6DB

Date:

31 March 2020

Appendix 4 – Section 13 dashboard

The following information has been provided to assist the Government Actuary's Department in complying with Section 13 of the Public Service Pensions Act.

Item	
Past service funding position - local funding basis	
Funding level (assets/liabilities)	100%
Funding level (change since last valuation)	21% increase
Asset value used at the valuation	£3,192,962,000
Value of liabilities	£3,203,610,000
Surplus (deficit)	£10,648,000
Discount rate(s)	4.1% p.a.
Assumed pension increases (CPI)	2.3% p.a.
Method of derivation of discount rate, plus any changes since previous valuation	There is a 70% likelihood that the Fund's investments will return at least 4.1% over the next 20 years based on a stochastic asset projection. The assumption at the 2016 valuation was 1.8% above the yield available on long-dated fixed interest gilts.
Assumed life expectancies at age 65:	
Average life expectancy for current pensioners - men currently age 65	22.0 years
Average life expectancy for current pensioners - women currently age 65	24.0 years
Average life expectancy for future pensioners - men currently age 45	22.7 years
Average life expectancy for future pensioners - women currently age 45	25.5 years
Past service funding position - SAB basis (for comparison purposes only)	
Market value of assets	£3,192,962,000
Value of liabilities	£2,879,282,000
Funding level on SAB basis (assets/liabilities)	111%
Funding level on SAB basis (change since last valuation)	17% increase
Contribution rates payable	
Primary contribution rate	18.4% of pay
Secondary contribution rate (cash amounts in each year in line with CIPFA guidance):	
Secondary contribution rate 2020/21	£19,425,000
Secondary contribution rate 2021/22	£19,061,000
Secondary contribution rate 2022/23	£19,082,000
Giving total expected contributions:	
Total expected contributions 2020/21 (£ figure based on assumed payroll of £426.482m)	£98,032,000
Total expected contributions 2021/22 (£ figure based on assumed payroll of £438.555m)	£99,893,000
Total expected contributions 2022/23 (£ figure based on assumed payroll of £450.970m)	£102,203,000
Average employee contribution rate (% of pay)	6.3% of pay
Employee contribution rate (£ figure based on assumed payroll of £426.482m)	£26,895,000
Additional information	
Percentage of liabilities relating to employers with deficit recovery periods of longer than 20 years	0%
Percentage of total liabilities that are in respect of Tier 3 employers	9%