FALKIRK COUNCIL

Subject: PENSION FUND – ACTUARIAL VALUATION AS AT 31/3/2014

Meeting: JOINT MEETING OF THE PENSIONS PANEL AND COMMITTEE

Date: 12 MARCH 2015

Author: CHIEF FINANCE OFFICER

1. INTRODUCTION

1.1 The Fund actuary, Hymans Robertson, has carried out a valuation of the Pension Fund as at 31 March 2014 in accordance with Regulation 32 of the Local Government Pension Scheme (Administration) (Scotland) Regulations 2008.

- 1.2 The purpose of the valuation is to establish the financial position of the Fund and set an appropriate rate of employers' contribution for the next three years (i.e. from April, 2015 until March, 2018).
- 1.3 The results of the valuation, as it impacted on the Fund as a whole, were presented to the Joint Meeting of Panel and Committee on 11 December 2014.
- 1.4 The signed valuation report is attached as an Appendix to this report and contains both details of the whole fund position as well as the contribution rates to be paid by each of the Fund's participating employers.

2. VALUATION RESULTS

2.1 The key results of the valuation at 31 March 2014 are set out below, together with the results from the last valuation on 31 March 2011.

	2011 Valuation	2014 Valuation
	(£m)	(£m)
Liabilities	£1,392	£1,860
Assets	£1,199	£1,577
Deficit	£,193	£,283
Funding Level	86.1%	84.8%

- 2.2 The results show that the deficit (i.e. the difference between liabilities and assets) has risen from from £193m to £283m and that there has been a slight fall in the funding level from 86% to 85%.
- 2.3 The table overleaf shows the contribution rates that are necessary to meet the cost of ongoing benefit accrual (i.e. future service rate) and deficit payments over a 20 year recovery period (i.e. past service deficit).

	2011 Valuation	2014 Valuation
	(% of pay)	(% of pay)
Cost of Future Service	16.2%	17.9%
Past Service Deficit	4.3%	5.5%
Total Employer Contribution Rate	20.5%	23.4%
Employee Contribution	6.5%	5.8%

- 2.4 The increase in the deficit and rise in the theoretical employer contribution rate is mainly attributable to the fall in yields on Government Bonds which has placed a higher value on the Fund's liabilities.
- 2.5 Other material factors to emerge from the valuation are:
 - Employee contributions are expected to fall due to LGPS 2015
 - Average age of members has stayed unchanged largely due to auto enrolment of new members
 - Three yearly Fund return was 27.7% against the targeted actuarial return of 18.8%
 - Club Vita analysis has allowed more Fund specific longevity assumptions to be applied

3. EMPLOYER CONTRIBUTION RATES

- 3.1 In calculating a contribution rate for each fund employer, the actuary will take the terms of the Funding Strategy Statement into account, and in particular, factors such as;
 - the intervaluation experience of the employer
 - the demographic profile of an employer's membership
 - the strength of the employer covenant
 - the type of organisation (local authority, admitted body, contractor)
 - whether an employer is part of pooled group
 - whether an employer is open or closed to new members
 - whether an employer is approaching a cessation scenario
- 3.2 The pooled groupings within the Fund are set out in detail in the Funding Strategy Statement and are as follows:
 - the local authority pool, comprising Clackmannanshire, Falkirk and Stirling Councils, and the Joint Valuation Board; and
 - the small admission bodies pool
- 3.3 The use of a pool is of particular benefit to the smaller admitted bodies as it enables them to enjoy a more stable contribution rate than would be otherwise be the case.

4. STABILISATION

- 4.1 In view of the financial pressures faced by Fund employers in meeting their theoretical contribution rate, the actuary was again asked to explore the impact of capping contribution increases. The result of the actuarial modelling indicates that it remains justifiable to limit employer contribution rate changes to +/- 0.5% of pay per annum for the three years from 1 April 2015, subject to this strategy known as stabilisation being available only to employers with a strong covenant. This is also subject to employers paying a minimum of their future service rate and a material contribution towards the past service deficit.
- 4.2 In relation to the three Councils who account for around 80% of the Fund their theoretical employer contribution rate is roughly 25% of pay. However, as a result of stabilisation, the actuary was comfortable with and has authorised the undernoted rates:

2015/16 - 21% 2016/17 - 21% 2017/18 - 21.5%

- 4.3 Employers whose contribution rates have been "stabilised", and who are paying less than their theoretical rate may find their funding level deteriorating over the next valuation period especially if economic conditions do not improve. These employers have been made aware of the risks of stabilising and will be advised that they should consider making additional payments to the Fund if possible.
- 4.4 The contribution rates of employers who are not participating in the stabilisation strategy have been calculated, in the case of smaller admitted bodies, on a pooled basis, and for remaining employers, according to their individual circumstances.

5. COMMUNICATION AND ENGAGEMENT

- 5.1 Details of individual contribution rates were circulated to employers in mid-January.
- 5.2 The Pensions Manager and the Fund Actuary have held individual meetings with around 25 (out of 36) fund employers. The meetings disclosed that several of the employers mainly small admitted bodies wish to investigate exiting from the Fund. Overall, the meetings have elicited a positive response and have helped ensure that employers understand the true nature of their liabilities and the consequences of closure.

6. CONCLUSION

- 6.1 The 2014 actuarial valuation has disclosed that the funding level is 85% largely unchanged from level shown at the 2011 valuation. The size of the deficit has increased to £283m, due in the main to the fall in gilt yields.
- 6.2 An up to date assessment of the funding level will be provided at the next Committee meeting.

7. **RECOMMENDATION**

7.1 The Panel and Committee are asked to note the contents of the 2014 Pension Fund Valuation Report prepared by the Fund Actuary, Hymans Robertson.

Chief Finance Officer

Date: 1 March 2015

Contact Officer: Alastair McGirr

LIST OF BACKGROUND PAPERS

NIL

Hymans Robertson LLP has carried out an actuarial valuation of the Falkirk Council Pension Fund ("the Fund") as at 31 March 2014, details of which are set out in the report dated DATE ("the Report"), addressed to Falkirk Council ("the Client"). The Report was prepared for the sole use and benefit of our Client and not for any other party; and Hymans Robertson LLP makes no representation or warranties to any third party as to the accuracy or completeness of the Report.

The Report was not prepared for any third party and it will not address the particular interests or concerns of any such third party. The Report is intended to advise our Client on the past service funding position of the Fund at 31 March 2014 and employer contribution rates from 1 April 2015, and should not be considered a substitute for specific advice in relation to other individual circumstances.

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Falkirk Council Pension Fund 2014 Actuarial Valuation Valuation Report

HYMANS **‡** ROBERTSON

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1 Executive summary

We have carried out an actuarial valuation of the Falkirk Council Pension Fund ('the Fund') as at 31 March 2014. The results are presented in this report and are briefly summarised below.

Funding position

The table below summarises the financial position of the Fund at 31 March 2014 in respect of benefits earned by members up to this date.

	31 March 2011	31 March 2014
Past Service Position	(£m)	(£m)
Past Service Liabilities	1,392	1,860
Market Value of Assets	1,199	1,577
Surplus / (Deficit)	(194)	(283)
Funding Level	86.1%	84.8%

The results show that the Fund had not met its objective of holding sufficient assets to meet the estimated current cost of the past service benefits as at 31 March 2014. The funding level has decreased from 86%, at the 2011 valuation to 85% at this valuation. This has resulted in the deficit rising from £194m at 31 March 2011 to £283m at 31 March 2014.

The increase in deficit reflects the adverse conditions which the Fund has had to contend with since the previous valuation. In particular, the decrease in the real gilt yield has increased the value placed on the Fund's liabilities. This has been partially offset by better than expected returns on the Fund's assets.

Contribution rates

The table below summarises the average employer contribution rate that would be required, based on this triennial valuation.

	31 March 2011	31 March 2014
Contribution Rates	(% of pay)	(% of pay)
Employer future service rate (incl. expenses)	16.2%	17.9%
Past Service Adjustment (20 year spread)	4.3%	5.5%
Total employer contribution rate (incl. expenses)	20.5%	23.4%
Employee contribution rate	6.5%	5.8%
Expenses	0.2%	0.2%

The increase in the total employer contribution rate is primarily due to the decrease in the real gilt yields which has increased both the employer future service rate and the past service adjustment.

The common contribution rate is a theoretical figure. In practice, each employer that participates in the Fund has its own underlying funding position and circumstances, giving rise to its own contribution rate requirement. The minimum contributions to be paid by each employer from 1 April 2015 to 31 March 2018 are shown in the Rates and Adjustment Certificate in **Appendix G**.



2 Introduction

Purpose

We have carried out an actuarial valuation of the Falkirk Council Pension Fund as at 31 March 2014.

- This valuation report complies with all of the relevant regulations and professional standards, as set out in section 7.
- The figures in this report are based on our understanding of the benefit structure of the LGPS as at 31 March 2014, and changes being implemented from 1 April 2015, details of which are provided in Appendix B.
- 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. This data is summarised in **Appendix D**.
- As part of the valuation, assumptions must be made which are discussed in **section 3** as well as in **Appendix E.** Details of our valuation approach is covered in **Appendix C.**
- The valuation results are then covered in **section 4**.
- We look at some of the risks the Fund faces in section 5 and consider any post valuation events in Appendix F.
- The valuation is just one aspect of the operation of the Fund, and related issues are covered in section 6.
- In **Appendix G** we then set out the individual employer contribution requirements from 1 April 2015.
- In **Appendix H** we show the expected cost of future ill health retirements (per annum).

Component reports

This document is an "aggregate" report, i.e. it is the culmination of various "component" reports and discussions, in particular:

- The data report (dated 8 December 2014 and mentioned in **section 7**);
- The Initial Results Report (dated 8 December 2014) which outlined the preliminary assumption proposals and whole fund results;
- The formal agreement by the Administering Authority of the actuarial assumptions used in this document, at a meeting dated 11 December 2014;
- The stabilisation modelling carried out for certain employers, as detailed in our report and presentation to the Administering Authority dated 3 November 2014;
- The Funding Strategy Statement, confirming the different contribution rate setting approaches for different types of employer or in different circumstances.

Note that not all of these documents may be in the public domain.



3 Assumptions

Actuarial assumptions

Assumptions must be made about the factors affecting the Fund's finances in the future. Broadly speaking, our assumptions fall into two categories – financial and demographic.

Demographic assumptions typically try to forecast **when** benefits will come into payment and what form these will take. For example, when members will retire (e.g. at their normal retirement age or earlier), how long they will then survive and whether a dependant's pension will be paid.

Financial assumptions typically try to anticipate the **size** of these benefits. For example, how large members' final salaries will be at retirement and how their pensions will increase over time. In addition, the financial assumptions also help us to estimate how much all these benefits will cost the Fund in today's money.

Financial assumptions

A summary of the main financial assumptions adopted for the valuation of members' benefits are shown below.

	31 March 2011		31 March 2014	
Financial assumptions	Nominal	Real	Nominal	Real
Discount Rate	5.9%	3.1%	5.1%	2.4%
Salary Increases*	5.1%**	2.3%	4.0%	1.3%
Price Inflation / Pension Increases	2.8%	-	2.7%	-

^{*} Plus an allowance for promotional pay increases.

Discount rate

The funding valuation is effectively a planning exercise, to assess the funds needed to meet the benefits as they fall due. In order to place a current value on the future benefit payments from the Fund, an assumption about future investment returns is required in order to "discount" future benefit payments back to the valuation date at a suitable rate.

For a funding valuation such as this, the discount rate is set by taking into account the Fund's current and expected future investment strategy and, in particular, how this strategy is expected to outperform the returns from Government bonds over the long term. The additional margin for returns in excess of that available on Government bonds is called the Asset Outperformance Assumption (AOA).

The selection of an appropriate AOA is a matter of judgement and the degree of risk inherent in the Fund's investment strategy should always be considered as fully as possible.

Although there has been a slight downward shift in the expected returns on risky assets since the 2011 valuation, we believe the expected returns in excess of the returns on government bonds to be broadly unchanged since 2011. Therefore, we are satisfied that an AOA of 1.6% p.a. is a prudent assumption for the purposes of this valuation. This results in a discount rate of 5.1% p.a.

Price inflation / pension increases

As was the case at the 2011 valuation, we expect the average long term difference between RPI and CPI to be 0.8% p.a.

At the previous valuation, the assumption for RPI was derived from market data as the difference between the yield on long-dated fixed interest and index-linked government bonds. At this valuation, we have adopted a similar approach.

^{** 1%} p.a. until 31 March 2013, reverting to 5.1% p.a. thereafter.



Salary increases

The long term assumption for salary increases is RPI plus 0.5% p.a. This translates to CPI plus 1.3% p.a. This is a change in approach from 2011 where we assumed 1% p.a. for 2 years and RPI plus 1.5% p.a. thereafter.

We have set a lower long term rate of salary growth to reflect both short term pay constraints and the belief that general economic growth and hence pay growth may be at a lower level than historically experienced for a prolonged period of time.

Note that this assumption is made in respect of the general level of salary increases (e.g. as a result of inflation and other macroeconomic factors). We also make a separate allowance for expected pay rises granted in the future as a result of promotion. This assumption takes the form of a set of tables which model the expected promotional pay awards based on each member's age and class. Please see **Appendix E**.

Longevity

The main demographic assumption to which the valuation results are most sensitive is that relating to the longevity of the Fund's members. For this valuation, we have adopted assumptions which give the following sample average future life expectancies for members:

	Actives & Deferreds		Current Pensioner	
Assumed life expectancy at age 65	Male	Female	Male	Female
2011 valuation - baseline	19.3	22.2	19.3	22.2
2011 valuation - improvements	22.0	25.0	20.7	23.8
2014 valuation - baseline	19.8	22.4	19.8	21.8
2014 valuation - improvements	24.3	26.3	22.1	23.8

Further details of the mortality assumptions adopted for this valuation can be found in **Appendix E**. Note that the figures for actives and deferreds assume that they are aged 45 at the valuation date.

Assets

We have taken the assets of the Fund into account at their market value as indicated in the audited accounts for the period ended 31 March 2014.

In our opinion, the basis for placing a value on members' benefits is consistent with that for valuing the assets both are related to market conditions at the valuation date.

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 tailor our demographic assumptions to reflect LGPS experience.

Details of these assumptions are set out in **Appendix E**. Further commentary on these was included in the Initial Results Report.

Further comments on the assumptions

As required for Local Government Pension Scheme valuations, our proposed approach to this valuation must include a degree of prudence. This has been achieved by explicitly allowing for a margin of prudence in the AOA.



For the avoidance of doubt, we believe that all other proposed assumptions represent the "best estimate" of future experience. This effectively means that there is a 50% chance that future experience will be better or worse than the chosen assumption.

Taken as a whole, we believe that our proposed assumptions are more prudent than the best estimate. The assessed liability value on a "neutral" best estimate (not prudent) basis would perhaps be 15% to 20% lower than the figures shown here.



4 Results

The Administering Authority has prepared a Funding Strategy Statement which sets out its funding objectives for the Fund. In broad terms, the main 'past service' objective is to hold sufficient assets in the Fund to meet the assessed cost of members' past service benefits and the main 'future service' objective is to maintain a relatively stable employer contribution rate. These objectives are potentially conflicting.

Past service

In assessing the extent to which the past service funding objective was met at the valuation date, we have used the actuarial assumptions described in the previous section of this report and funding method described in **Appendix C**. The table below compares the value of the assets and liabilities at 31 March 2014. The 31 March 2011 results are also shown for reference.

The results are presented in the form of a "funding level"; this is the ratio of the market value of assets to the assessed cost of members' past service benefits ("liabilities").

A funding level of 100% would correspond to the funding objective being met at the valuation date.

Valuation Date	31 March 2011	31 March 2014
Past Service Position	(£m)	(£m)
Past Service Liabilities		
Employees	703	930
Deferred Pensioners	160	216
Pensioners	529	714
Total Liabilities	1,392	1,860
Market Value of Assets	1,199	1,577
Surplus / (Deficit)	(194)	(283)
Funding Level	86.1%	84.8%

The main funding objective was not met: there was a shortfall of assets to the assessed cost of members' benefits of £283m.



Summary of changes to the funding position

The chart below illustrates the factors that caused the funding position to deteriorate between 31 March 2011 and 31 March 2014:



Further comments on some of the items in this chart:

- There is an interest cost of £37m. This is broadly three years of compound interest at 5.9% p.a. applied to the previous valuation deficit of £194m.
- Employer contributions paid to the fund since 2011 have been greater than the cost of benefits accrued over this period, leading to a gain of £33m.
- Investment returns being higher than expected since 2011 led to a gain of £113m. This is roughly the difference between the actual three-year return (roughly 28%) and expected three-year return (roughly 19%) applied to the whole fund assets from the previous valuation of £1,199m, with a further allowance made for cashflows during the period.
- Actual experience over the period relates to the specific elements of member experience we are able to
 analyse and measure. In particular, the combined effect of early leaver, ill health retirement, salary
 growth, pension increases, pensioner longevity, cash commutation and early retirement experience since
 2011 led to a loss of £9m. Please see the Initial Results document for more detail on the observed
 membership experience at the 2014 valuation.
- The impact of the change in demographic assumptions has been a loss of around £29m. Underlying this figure, changes to the ill health early retirements assumption have had a positive impact but this has been more than offset by assuming fewer withdrawals than at 2011.
- The change in longevity assumptions (baseline and improvements) has given rise to a gain of £50m. This is mainly due to the change in assumed baseline longevity (i.e. the adoption of Club Vita tables), the effect of which has been partially offset by the change in assumed future longevity improvements.
- The change in financial conditions between the previous valuation has led to a loss of £168m. This is due to a decrease in the real discount rate between 2011 and 2014.
- Other experience items, such as changes in the membership data, have served to increase the deficit at this valuation by around £42m.



Note that the benefit changes that come into effect as at 1 April 2015 do not change the funding position as all past service benefits to 31 March 2014 are protected.

Future service

We have calculated the average long-term contribution rate that the Fund employers would need to pay to meet the estimated cost of members' benefits that will be earned after 31 March 2014 (the 'future service contribution rate'). Again, we have used the assumptions set out in the previous section of this report and the method set out in **Appendix C**. The resulting contribution rate is that which should (if the actuarial assumptions about the future are borne out in practice) ensure that the Administering Authority's main future service funding objective is met. The table below details this future service contribution rate for 31 March 2014 and shows the 31 March 2011 rate for comparison.

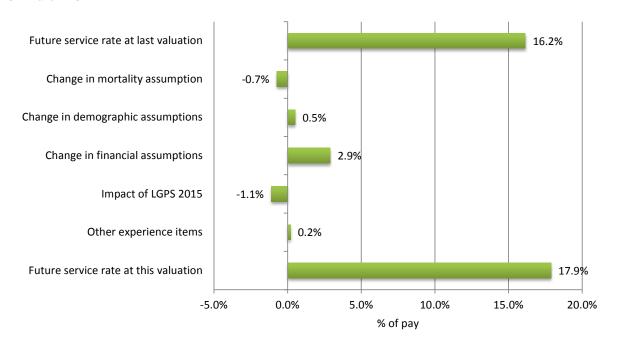
Valuation Date	31 March 2011	31 March 2014
Future service rate	% of pay	% of pay
Employer future service rate (excl. expenses)	16.0%	17.7%
Expenses	0.2%	0.2%
Total employer future service rate (incl. expenses)	16.2%	17.9%
Employee contribution rate	6.5%	5.8%

Note that the employee contribution rate includes any additional contributions being paid by employees as at 31 March 2014 into the Fund. This future service contribution rate makes no allowance for the past service deficit in the Fund described above.

The average future service rate for Fund employers is 17.9% of pay. This rate is calculated as at 31 March 2014 and therefore forms part of the total contribution rate payable by employers from 1 April 2015. Note this rate makes an allowance for changes to the benefit structure that takes effect from 1 April 2015. In practice, a future service rate for each employer has been calculated which is based on their particular circumstances and membership profile. The rate above is an average future service rate for the Fund as a whole.

Summary of changes to the future service rate

The chart below illustrates the factors that caused the future service rate to increase between 31 March 2011 and 31 March 2014:





As can be seen from this chart, the factors that have had the biggest impact on the future service rate between 2011 and 2014 are broadly similar to those discussed for the past service position.

In addition to this, the impact of the LGPS 2015 scheme has resulted in a reduction in contribution rate of 1.1% of payroll.

Total common contribution rate payable

The total (or "common") contribution rate payable is the average future service rate for Fund employers plus an additional amount to recover the deficit and bring the funding level back to 100% over a period of 20 years, as set out in the Funding Strategy Statement. This additional amount is referred to as the past service adjustment.

The common contribution rate based on the funding position as at 31 March 2014 is detailed below along with the results for 31 March 2011:

Valuation Date	31 March 2011	31 March 2014
Total contribution rate	% of pay	% of pay
Future service rate (incl. expenses)	16.2%	17.9%
Past Service Adjustment (20 year spread)	4.3%	5.5%
Total employer contribution rate	20.5%	23.4%

This does not represent the rate which any one employer is actually required to pay, nor is it the average of the actual employer rates. The actual employer contributions payable from 1 April 2015 are given in **Appendix G**, and these have been devised in line with the Funding Strategy Statement: see **section 6**.



5 Risk Assessment

The valuation results depend critically on the actuarial assumptions that are made about the future of the Fund. If all of the assumptions made at this valuation were exactly borne out in practice then the results presented in this document would represent the true cost of the Fund as it currently stands at 31 March 2014.

However, no one can predict the future with certainty and it is unlikely that future experience will exactly match all of our assumptions. The future therefore presents a variety of risks to the Fund and these should be considered as part of the valuation process. In particular:

- The main risks to the financial health of the Fund should be identified.
- Where possible, the financial significance of these risks should be **quantified**.
- Consideration should be given as to how these risks can then be controlled or mitigated.
- These risks should then be monitored to assess whether any mitigation is actually working.

This section investigates the potential implications of the actuarial assumptions not being borne out in practice.

Set out below is a brief assessment of the main risks and their effect on the valuation results, beginning with a look at the effect of changing the main assumptions and then focusing on the two most significant risks – namely investment risk and longevity risk.

Sensitivity of valuation results to changes in assumptions

The table below gives an indication of the sensitivity of the valuation results to small changes in some of the main assumptions used.

Assumption	Change	Deficit (£m)	Future service rate (% of pay)
Discount rate	Increases by 0.5%	Falls by £182m	Falls by 3.0%
Salary increases	Increases by 0.5%	Rises by £58m	-
Price inflation / pension increases	Increases by 0.5%	Rises by £124m	Rises by 3.0%
Life expectancy	Increases by 1 year	Rises by £56m	Rises by 0.7%

This is not an exhaustive list of the assumptions used in the valuation. For example, changes to the assumed level of withdrawals and ill health retirements will also have an effect on the valuation results. However, the table contains those assumptions that typically are of most interest and have the greatest impact.

Note that the table shows 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 our assumptions simultaneously and so the precise effect on the funding position is more complex.



Investment risk

Sensitivity of valuation results to market conditions and investment performance

As the assets of the Fund are taken at their market value, volatility in investment performance can have an immediate and tangible effect on the funding level and deficit. This is particularly relevant because the Fund is invested predominantly in riskier assets such as equities and equity-type investments (e.g. property). A rise or fall in the level of equity markets has a direct impact on the financial position of the Fund, which may seem obvious.

Less obvious is the effect of anticipated investment performance on the Fund's liabilities (and future service cost). Here it is the returns available on government bonds that are of crucial importance, as the discount rate that we use to place a value on the Fund's liabilities is based on gilt yields at the valuation date plus a margin of 1.6% p.a.

The table below shows how the funding level (top), deficit (middle, in £m) and total contribution rate (bottom, as % of pay) would vary if investment conditions at 31 March 2014 had been different. The level of the FTSE 100 Price index is taken as a suitable proxy for asset performance whilst the index-linked gilt yield is taken as a yardstick for the valuation of liabilities.

٥		83%	88%	93%
Yield	-0.20%	(295)	(208)	(121)
Ξ		22.5%	20.7%	19.0%
Gilt		80%	85%	89%
eq	0.0%	(370)	(283)	(196)
Linked		25.1%	23.4%	21.7%
		77%	81%	86%
Index	-0.2%	(449)	(362)	(275)
<u>ق</u>		27.8%	26.1%	24.5%
		6098	6598	7098
		FTSE 100 Price Index		

The shaded box contains the results for this valuation. Note that this does not take account of the performance of all asset classes held by the Fund (e.g. overseas equities, property, bonds, cash etc.) but it does serve to highlight, in broad terms, the sensitivity of the valuation results to investment conditions at the valuation date.

Note that the scenarios illustrated above are by no means exhaustive. They should not be taken as the limit of how extreme future investment experience could be. The discount rate assumption adopted at this valuation is expected to be appropriate over the long term. Short term volatility of equity markets does not invalidate this assumption.

Longevity risk

The valuation results are also very sensitive to unexpected changes in future longevity. All else being equal, if longevity improves in the future at a faster pace than allowed for in the valuation assumptions, the funding level will decline and the required employer contribution rates will increase.

Recent medical advances, changes in lifestyle and a greater awareness of health-related matters have resulted in life expectancy amongst pension fund members improving in recent years at a faster pace than was originally foreseen. It is unknown whether and to what extent such improvements will continue in the future.

For the purposes of this valuation, we have selected assumptions that we believe make an appropriate allowance for future improvements in longevity, based on the actual experience of the Fund since the previous valuation.



The table below shows how the valuation results at 31 March 2014 are affected by adopting different longevity assumptions.

		Impact	
Longevity assumption	Funding level	Deficit (£m)	Future service rate
2014 valuation (valuation improvements)	85%	(283)	17.9%
2014 valuation (further improvements)	81%	(360)	18.8%
1 year extra	79%	(418)	19.6%

Full details of the longevity improvements adopted at this valuation are set out in Appendix E.

The "further improvements" are a more cautious set of improvements that, in the short term, assume the 'cohort effect' of strong improvements in life expectancy currently being observed amongst a generation born around the early and mid-1930s will continue to strengthen for a few more years before tailing off. This is known as "non-peaked".

The "1 year extra" figures relative to a further year of life expectancies beyond those assumed in "further improvements".

Again, the range of assumptions shown here is by no means exhaustive and should not be considered as the limits of how extreme future longevity experience could be.

Other risks to consider

The table below summarises the effect that changes in some of the other valuation assumptions and risk factors would have on the funding position. Note that these are probably unlikely to have a large financial impact on the Fund and therefore the analysis is qualitative rather than quantitative.

	Im	pact
Factor	Funding level	Future service rate
Greater level of ill health retirement	Decreases	Marginal
Reduced level of withdrawals	Decreases	Marginal
Rise in average age of employee members	Marginal effect	Increases
Lower take up of 50:50 option	No impact	Increases

One further risk to consider is the possibility of future changes to Regulations that could materially affect the benefits that members become entitled to. It is difficult to predict the nature of any such changes but it is not inconceivable that they could affect not just the cost of benefits earned after the change but could also have a retrospective effect on the past service position (as the move from RPI to CPI-based pension increases already has).

Managing the risks

Whilst there are certain things, such as the performance of investment markets or the life expectancy of members, that are not directly within the control of the pension fund, that does not mean that nothing can be done to understand them further and to mitigate their effect. Although these risks are difficult (or impossible) to eliminate, steps can be taken to manage them.

Ways in which some of these risks can be managed could be:

- Set aside a specific reserve to act as a cushion against adverse future experience (possibly by selecting a set of actuarial assumptions that are deliberately more prudent).
- Take steps internally to monitor the decisions taken by members and employers (e.g. relating to early / ill health retirements or salary increases) in a bid to curtail any adverse impact on the Fund.



- Pooling certain employers together at the valuation and then setting a single (pooled) contribution rate
 that they will all pay. This can help to stabilise contribution rates (at the expense of cross-subsidy
 between the employers in the pool during the period between valuations).
- Carrying out a review of the future security of the Fund's employers (i.e. assessing the strength of employer covenants).
- Carry out a bespoke analysis of the longevity of Fund members and monitor how this changes over time, so that the longevity assumptions at the valuation provide as close a fit as possible to the particular experience of the Fund. This is what Club Vita does.
- Undertake an asset-liability modelling exercise that investigates the effect on the Fund of possible
 investment scenarios that may arise in the future. An assessment can then be made as to whether long
 term, secure employers in the Fund can stabilise their future contribution rates (thus introducing more
 certainty into their future budgets) without jeopardising the long-term health of the Fund. This is exactly
 what our comPASS tool does (see below).
- Purchasing ill health liability insurance to mitigate the risk of an ill health retirement impacting on solvency and funding level of an individual employer where appropriate.
- Monitoring different employer characteristics in order to build up a picture of the risks posed. Examples include membership movements, cash flow positions and employer events such as cessations.

We would be delighted to set out in more detail the risks that affect the Fund and discuss with you possible strategies for managing them.

Stabilisation of contribution rates (comPASS)

There can be occasions when the market-related employer contribution rate is not affordable or achievable in practice in the short term. This can occur in times of tight fiscal control or where budgets have been set in advance of new employer contribution rates being available.

In view of this possibility, the Administering Authority has carried out extensive modelling to explore the long term effect on the Fund of capping future contribution increases (and decreases).

The comPASS modelling that we carry out makes an explicit allowance for the possible future investment risks that the Fund may encounter over the period of stabilisation. By doing so, the aim is to justify whether or not the long-term health of the Fund will be adversely impacted by the application of a cap on changes to contribution rates.



6 Related issues

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 Statement of Investment Principles (e.g. the discount rate must be consistent with the Fund's asset strategy);
- the general governance of the Fund, such as meetings of the Pensions Committee, decisions delegated to officers, the Fund's business plan, etc.;
- the Fund's risk register;
- the register of Fund employers.

Further recommendations

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 2017. In light of the uncertainty of future financial conditions, we recommend that the financial position of the Fund (and for individual employers in some cases) is monitored by means of interim funding reviews in the period up to this next formal valuation. This will give early warning of changes to funding positions and possible contribution rate changes.

Investment strategy and risk management

We recommend that the Administering Authority continues to regularly review its investment strategy and ongoing risk management programme.

New employers joining the Fund

Any new employers or admission bodies joining the Fund should be referred to the Fund actuary for individual calculation as to the required level of contribution.

Additional payments

Employers may make voluntary additional contributions to recover any shortfall over a shorter period, subject to agreement with the Administering Authority and after receiving the relevant actuarial advice.

Further sums should be paid to the Fund by employers to meet the capital costs of any unreduced early retirements, reduced early retirements before age 60 and/or augmentation (i.e. additional membership or additional pension) using the methods and factors issued by me from time to time or as otherwise agreed.

In addition, payments may be required to be made to the Fund by employers to meet the capital costs of any ill-health retirements that exceed those allowed for within our assumptions. Further details of the ill-health budget allowed for can be found in **Appendix H**.



Cessations and bulk transfers

Any Admission Body who ceases to participate in the Fund should be referred to us in accordance with Regulation 62 of the Administration 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.



7 Reliances and limitations

Scope

This document has been requested by and is provided to Falkirk Council in its capacity as Administering Authority to the Falkirk Council Pension Fund. It has been prepared by Hymans Robertson LLP to fulfil the statutory obligations in accordance with regulation 36 of the Administration Regulations. None of the figures should be used for accounting purposes (e.g. under FRS17, FRS102 or IAS19) or for any other purpose (e.g. a termination valuation under Regulation 34(1)).

This document should not be released or otherwise disclosed to any third party without our prior written consent, in which case it should be released in its entirety. Hymans Robertson LLP accepts no liability to any other party unless we have expressly accepted such liability.

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 previously issued a separate report confirming that the data provided is fit for the purposes of this valuation and have commented on the quality of the data provided. The data used in our calculations is as per our report of 8 December 2014.

Actuarial Standards

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

- TAS R Reporting;
- TAS D Data;
- TAS M Modelling; and
- Pensions TAS.

Catherine McFadyen

Fellow of the Institute and Faculty of Actuaries

DATE

Steven Scott

Fellow of the Institute and Faculty of Actuaries

DATE

¹ Technical Actuarial Standards (TASs) are issued by the Financial Reporting Council (FRC) and set standards for certain items of actuarial work, including the information and advice contained in this report.



Appendix A: About the pension fund

For more details please refer to the Fund's Funding Strategy Statement.

The purpose of the Fund is to provide retirement and death benefits to its members. It is part of the Local Government Pension Scheme (LGPS) and is a multi-employer defined benefit pension scheme.

Defined benefit pension scheme

In a defined benefit scheme such as this, the nature of retirement benefits that members are entitled to is known in advance. For example, it is known that members will receive a pension on retirement that is linked to their salary and pensionable service according to a pre-determined formula.

However, the precise cost to the Fund of providing these benefits is **not** known in advance. The estimated cost of these benefits represents a liability to the Fund and assets must be set aside to meet this. The relationship between the value of the liabilities and the value of the assets must be regularly assessed and monitored to ensure that the Fund can fulfil its core objective of providing its members with the retirement benefits that they have been promised.

Liabilities

The Fund's liabilities are the benefits that will be paid in the future to its members (and their dependants).

The precise timing and amount of these benefit payments will depend on future experience, such as when members will retire, how long they will live for in retirement and what economic conditions will be like both before and after retirement. Because these factors are not known in advance, assumptions must be made about future experience. The valuation of these liabilities must be regularly updated to reflect the degree to which actual experience has been in line with these assumptions.

Assets

The Fund's assets arise from the contributions paid by its members and their employers and the investment returns that they generate. The way these assets are invested is of fundamental importance to the Fund. The selection, monitoring and evolution of the Fund's investment strategy are key responsibilities of the Administering Authority.

As the estimated cost of the Fund's liabilities is regularly re-assessed, this effectively means that the amount of assets required to meet them is a moving target. As a result, at any given time the Fund may be technically in surplus or in deficit.

A contribution strategy must be put in place which ensures that each of the Fund's employers pays money into the Fund at a rate which will target the cost of its share of the liabilities in respect of benefits already earned by members and those that will be earned in the future.

The long-term nature of the Fund

The pension fund is a long-term commitment. Even if it were to stop admitting new members today, it would still be paying out benefits to existing members and dependants for many decades to come. It is therefore essential that the various funding and investment decisions that are taken now recognise this and come together to form a coherent long-term strategy.

In order to assist with these decisions, the Regulations require the Administering Authority to obtain a formal valuation of the Fund every three years. Along with the Funding Strategy Statement, this valuation will help determine the funding objectives that will apply from 1 April 2015.



Appendix B: Summary of the Fund's benefits

Provided below is a brief summary of the non-discretionary benefits that we have taken into account for active members at this valuation. This should not be taken as a comprehensive statement of the exact benefits to be paid. For further details please see the Regulations.

Provision	Benefit Structure To 31 March 2009	Benefit Structure From 1 April 2009 to 31 March 2015	Benefit Structure From 1 April 2015
Normal retirement age (NRA)	Age 65.	Age 65.	Equal to the individual member's State Pension Age (minimum 65).
Earliest	As per NRA (age 65).		As per NRA (minimum age 65).
retirement age (ERA) on which immediate	age 60 on attaining 25	eing a member of the scheme	Protections apply to active members in the scheme for pensions earned up to 1 April 2015, due to:
unreduced benefits can be paid on		to satisfy the rule of 85 prior	a) Accrued benefits relating to pre April 2015 service at age 65.
voluntary membership (whole year			b) Continued 'Rule of 85' protection for qualifying members.
	The benefits relating to various segments of scheme membership are protected as follows, which means their benefits are calculated based on the above definitions of earliest retirement age in relation to these protected periods of scheme membership.		c) Members within 10 years of existing NRA at 1 April 2012 – no change to when they can retire and no decrease in pension they receive at existing NRA.
	(a) A member born on 3 membership up to 31 M	31 March 1960 or earlier – larch 2020 protected;	
		n the scheme immediately 06 – membership up to 31	
Member contributions	Officers - 6% of pensionable pay	Tiered rates (5.5%-12.0%) depending upon level of full-	Banded rates varying between 5.5% and 12.0% on five different tranches of
	Manual Workers – 5% of pensionable pay if has protected lower rates rights or 6% for post 31 March 1998 entrants or former	time equivalent pay. A mechanism for sharing any increased scheme costs between employers and scheme members is to be included in the LGPS regulations.	actual pay. A mechanism for sharing any increased scheme costs between employers and scheme members will be included in the LGPS regulations in due course.
	entrants with no protected rights.		Contribution rates are based on actual pay rather than full-time equivalent pay.
Pensionable pay	All salary, wages, fees and other payments in respect of the employment, excluding non-contractual overtime and some other specified amounts.		Pay including contractual overtime and additional hours but excluding non-contractual elements.
	Some scheme member agreements.	s may be covered by special	



Provision	Benefit Structure To 31 March 2009	Benefit Structure From 1 April 2009 to 31 March 2015	Benefit Structure From 1 April 2015
Final pay	leaving the scheme. Al some cases, e.g. where service or a drop in pen Will be required for the respect of the final sala	statutory underpin and in ry link that may apply in pers of the CARE scheme	N/A
Period of scheme membership	may be granted (e.g. tra arrangements, augmen award of additional pen	the Fund. Additional periods ansfers from other pension tation, or from April 2009 the sion). For part time members, portionate with regard to their	N/A
Normal retirement benefits at NRA	Annual Retirement Pension - 1/80th of final pay for each year of scheme membership. Lump Sum Retirement Grant - 3/80th of final pay for each year of scheme membership. Additional lump sum can be provided by commutation of pension (within overriding limits) on a basis of £12 additional lump sum for each £1 of pension surrendered.	Scheme membership to 31 March 2009: Annual Retirement Pension - 1/80th of final pay for each year of scheme membership. Lump Sum Retirement Grant - 3/80th of final pay for each year of scheme membership. Scheme membership from 1 April 2009: Annual Retirement Pension - 1/60th of final pay for each year of scheme membership. Lump Sum Retirement Grant – none except by commutation of pension.	Scheme membership from 1 April 2015: Annual Retirement Pension - 1/49th of pensionable pay (or assumed pensionable pay) for each year of scheme membership revalued to NRA in line with CPI. Lump Sum Retirement Grant - none except by commutation of pension.



Provision	Benefit Structure To 31 March 2009	Benefit Structure From 1 April 2009 to 31 March 2015	Benefit Structure From 1 April 2015
Option to increase retirement lump sum benefit	benefits come into payment, members have the option to exchange ('commute') some of the retirement pension into additional lump sum. The terms for the conversion of pension in to lump sum is £12 of lump sum for every £1 of annual pension surrendered.	Scheme membership to 31 March 2009: At the time that benefits come into payment, members have the option to exchange ('commute') some of the retirement pension into additional lump sum. The terms for the conversion of pension in to lump sum is £12 of lump sum for every £1 of annual pension surrendered. Scheme membership from 1 April 2009: No automatic lump sum. Any lump sum is to be provided by commutation of pension. The terms for the conversion of pension in to lump sum is £12 of lump sum for every £1 of annual pension surrendered.	No automatic lump sum. Any lump sum is to be provided by commutation of pension (within overriding HMRC limits). The rule for the conversion of pension to lump sum is £12 of lump sum for every £1 of annual pension surrendered.
Voluntary early retirement benefits (non ill-health)		60, subject to reduction on at in some circumstances (in otections).	On retirement from age 60, subject to reduction on account of early payment in some circumstances (in accordance with ERA protections).
Employer's consent early retirement benefits (non ill-health)	On retirement after age 50 with employer's consent a pension and lump sum based on actual scheme membership completed may be paid.	On retirement after age 55 (or age 50 for active members with certain protections on grounds of redundancy of efficiency) with employer's consent a pension and lump sum based on actual scheme membership completed may be paid.	Benefits paid on redundancy or efficiency grounds (for members aged 55 or over) are paid with no actuarial reduction. Otherwise, benefits are subject to reduction on account of early payment as mentioned in the previous row, unless this is waived by the employer.
	Benefits paid on redundancy or efficiency grounds are paid with no actuarial reduction. Otherwise, benefits are subject to reduction on account of early payment, unless this is waived by the employer.		



Drovinio	Donofit Ctrustum T	Donofit Church Fuere 4	Donofit Ctrusture From 4 April 2045
Provision	Benefit Structure To 31 March 2009	Benefit Structure From 1 April 2009 to 31 March 2015	Benefit Structure From 1 April 2015
Ill-health benefits	In the event of premature retirement due to permanent illhealth or incapacity, an immediate pension and lump sum are paid based on actual scheme membership plus an enhancement period of scheme membership. The enhancement period is dependent on scheme membership at date of leaving and is seldom more than 6 years 243 days. No reduction is applied due to early payment.	In the event of premature retirement due to permanent ill-health or incapacity and a reduced likelihood of obtaining gainful employment (local government or otherwise) before age 65, an immediate pension and lump sum are due based on actual scheme membership plus an enhanced period of scheme membership. The enhancement period is: 25% of the period to age 65, if there is reasonable prospect of undertaking gainful employment before age 65; or 100% of the period to age 65, if there is no likelihood of undertaking gainful employment prior to age 65.	As a result of permanent ill-health or incapacity and a reduced likelihood of obtaining gainful employment (local government or otherwise) before age 65. Immediate payment of unreduced benefits. Enhanced to scheme membership, dependent on severity of ill health. 100% of prospective pension to age 65 where no likelihood of undertaking any gainful employment prior to age 65. 25% of prospective pension to age 65 where reasonable prospect of undertaking gainful employment before reaching age 65.
Flexible retirement	After 5th April 2006, a member who has attained the age of 50, with his employer's consent, reduces the hours he works, or the grade in which he is employed, may elect in writing to the appropriate Administering Authority that such benefits may, with his employer's consent, be paid to him notwithstanding that he has not retired from that employment. Benefits are paid immediately and subject to actuarial reduction unless the reduction is waived by the employer.	consent, reduces the hours he employed, may make a request Administering Authority to receive	eive all or part of his benefits, and subject to actuarial reduction unless



Provision	Benefit Structure To 31 March 2009	Benefit Structure From 1 April 2009 to 31 March 2015 Benefit Structure From 1 April 2015
Pension increases	arising from the paymer are increased partially u	t, deferred pensions and dependant's pensions other than benefits nt of additional voluntary contributions are increased annually. Pensions under the Pensions (Increases) Act 1971 and partially in accordance with (depending on the proportions relating to pre 88 GMP, post 88 GMP and
Death after retirement	A spouse's or civil partner's pension of one half of the member's pension (generally post 1 April 1972 service for widowers' pension and post 6 April 1988 for civil partners) is payable; plus If the member dies within five years of retiring and before age 75 the balance of five years' pension payments will be paid in the form of a lump sum; plus Children's pensions may also be payable.	A spouse's, civil partner's or nominated cohabiting partner's pension payable at a rate of 1/160th of the member's total membership multiplied by final pay is payable; plus If the member dies within ten years of retiring and before age 75 the balance of ten years' pension payments will be paid in the form of a lump sum; plus Children's pensions may also be payable.
Death in service	A lump sum of two times final pay; plus A spouse's or civil partner's pension of one half of the illhealth retirement pension that would have been paid to the scheme member if he had retired on the day of death (generally post 1 April 1972 service for widowers' pension and post 6 April 1988 for civil partners); plus	A lump sum of three times final pay; plus A spouse's, civil partner's or cohabiting partner's pension payable at a rate of 1/160th of the member's total (augmented to age 65) membership, multiplied by final pay; plus Children's pensions may also be payable.
Leaving service options	A transfer payment to e in value to the deferred If the member has com	pleted two years or more scheme membership, deferred benefits with at conditions similar to general retirement provisions; or either a new employer's scheme or a suitable insurance policy, equivalent pension; or epleted less than two years scheme membership, a return of the member's est, less a State Scheme premium deduction and less tax at the rate of



Provision	Benefit Structure To 31 March 2009	Benefit Structure From 1 April 2009 to 31 March 2015	Benefit Structure From 1 April 2015
State pension scheme			on and the benefits payable to each ired to enable the Fund to be contracted-
Assumed pensionable pay		N/A	This applies in cases of reduced contractual pay (CP) resulting from sickness, child related and reserve forces absence. In these circumstances benefits are based on an assumption of what pay would have been had the reduction not occurred.
50/50 option		N/A	Optional arrangement allowing 50% of main benefits to be accrued on a 50% contribution rate.

Note: Certain categories of members of the Fund are entitled to benefits that differ from those summarised above.

Discretionary benefits

The LGPS Regulations give employers a number of discretionary powers. The effect on benefits or contributions as a result of the use of these provisions as currently contained within the Local Government Pension Scheme Regulations has been allowed for in this valuation to the extent that this is reflected in the membership data provided. No allowance has been made for the future use of discretionary powers that will be contained within the scheme from 1 April 2015.



Appendix C: About the valuation

For more details please refer the Fund's Funding Strategy Statement.

It is important to realise that the actual cost of the pension fund (i.e. how much money it will ultimately have to pay out to its members in the form of benefits) is currently unknown. This cost will not be known with certainty until the last benefit is paid to the last pensioner. The core purpose of this valuation is to estimate what this cost will be, so that the Fund can then develop a strategy to meet it.

Such a valuation can only ever be an estimate – as the future cannot be predicted with certainty. However, as actuaries, we can use our understanding of the Fund and the factors that affect it to determine an anticipated cost which is as sensible and realistic as possible. A decision can then be made as to how much is set aside now to meet this anticipated cost. The pace of this funding can vary according to the level of prudence that is built into the valuation method and assumptions.

For this valuation, as for the previous valuation, our calculations identify separately the expected cost of members' benefits in respect of scheme membership completed before the valuation date ("past service") and that which is expected to be completed after the valuation date ("future service").

Past service

The principal measurement here is the comparison at the valuation date of the assets (taken at market value) and the value placed on the Fund's liabilities (calculated using a market-based approach). By maintaining a link to the market in both cases, this helps ensure that the assets and liabilities are valued in a consistent manner. Our calculation of the Fund's liabilities also explicitly allows for expected future pay and pension increases.

The funding level is the ratio of assets to liabilities at the valuation date. A funding level of less/more than 100% implies that there is a deficit/surplus in the Fund at the valuation date.

The funding target is to eliminate any deficit (or surplus) over a specified period and therefore get back to a funding level of 100%. To do so, additional contributions may be required to be paid into the Fund, either via lump sums or by increasing the employer's contribution rate. These additional contributions are known as the past service adjustment.

Future service

In addition to benefits that have already been earned by members prior to the valuation date, employee members will continue to earn new benefits in the future. The cost of these new benefits must be met by both employers and employees. The employers' share of this cost is known as the future service contribution rate.

For the valuation results for the Fund as a whole, we have calculated the future service rate as the cost of benefits being earned by members over the year following the valuation, taking account of expected future salary increases until retirement. If new entrants are admitted to the Fund to the extent that the overall membership profile remains broadly unchanged (and if the actuarial assumptions are unchanged) then the future service rate should be reasonably stable.

This funding method we have used is known as the Projected Unit Method. As well as the whole fund, it is appropriate for individual employers that continue to admit new entrants to the Fund.



However, some participating employers may have a policy of not admitting new entrants. In this case, the membership profile will inevitably begin to age. Under these circumstances, the Projected Unit Method is arguably no longer appropriate and will not promote sufficient stability in the future service rate. For these employers, we will adopt a funding method known as the Attained Age Method, which effectively looks at the cost of benefits that members will earn over the entirety of their remaining working lifetime (rather than just the year following the valuation).

Combining this future service rate with any past service adjustment required to repay a deficit (or reduce a surplus) gives us the total contribution rate. The total rate for the Fund as a whole is known as the common contribution rate. This is really just a notional figure. In practice, each individual employer will have a contribution rate which reflects their own particular circumstances.

The sensitivity of valuation results

The aim of this valuation is not only to determine these important figures but also to demonstrate their sensitivity to a number of key influences. This will promote an understanding of how the expected cost of the Fund may change in response to uncertain future events (e.g. changes in life expectancy or investment returns). Please refer to **section 5** for details of the sensitivity analysis.



Appendix D: Data

This section contains a summary of the membership, investment and accounting data provided by the Administering Authority for the purposes of this valuation (the corresponding membership and investment data from the previous valuation is also shown for reference). For further details of the data, and the checks and amendments performed in the course of this valuation, please refer to our separate report.

Membership data - whole fund

Employee members

	31 Mar	ch 2011	31 March 2014		
	Number Pensionable Pay*		Number	Pensionable Pay*	
	(0003)			(£000)	
Total employee membership	12,887	244,944	14,783	285,193	

^{*}actual pay (not full-time equivalent).

Deferred pensioners

•	31 Mar	ch 2011	31 Ma	rch 2014
	Number	Deferred pension	Number	Deferred pension
	(£000)			(000 3)
Total deferred membership	4,979	10,309	5,683	12,739

The figures above also include any "frozen refunds" and "undecided leavers" members at the valuation date.

Current pensioners, spouses and children

	31 Ma	rch 2011	31 Ma	rch 2014
	Number	Pension (£000)	Number	Pension (£000)
Members	6,447	31,493	7,482	40,753
Dependants	1,091	2,731	1,199	3,266
Children	62	97	64	139
Total pensioner members	7,600	34,321	8,745	44,158

Note that the membership numbers in the table above refer to the number of records provided to us and so will include an element of double-counting in respect of any members who are in receipt (or potentially in receipt of) more than one benefit.

Membership Profile	Average A	lge (years)	FWL (years)		
	2011 2014		2011	2014	
Employees	50.2	50.2	9.4	12.4	
Deferred Pensioners	49.0	49.7	-	-	
Pensioners	65.0	65.4	-	-	

The average ages are weighted by liability.

The expected future working lifetime (FWL) indicates the anticipated length of time that the average employee member will remain as a contributor to the Fund. Note that it allows for the possibility of members leaving, retiring early or dying before retirement.



Membership data - individual employers

Employer			loyees		rreds		oners
code	Employer Name	Number	Actual Pay	Number	Pension	Number	
			(£000)		(£000)		(£000)
1	Central Regional Council	0	0	318	456	7	9
2	Clackmannan District Council Falkirk District Council	0	0	34 127	50 181	0	0
4	Stirling District Council	0	0	89	172	2	*
5	Dollar Academy Trust	88	1,549	27	40	38	113
6	Falkirk College	0	0	36	55	36	155
7	Stirling University	0	0	0	0	17	110
8	Clackmannan College	0	0	10	13	15	44
9	Snowdon School for Girls (Old)	0	0	0	0	0	0
10	St Ninians School	0	0	1	*	4	*
11	Ballikinrain School	54	1,386	25	57	35	242
13	Strathcarron Hospice	125	2,702	42	92	76	392
14	Stirling Enterprise Park Limited	16	354	12	30	7	39
15	Scottish Autism	551	8,518	325	491 *	112	343
16	CESU	0	0	1		1	*
17	Boness Heritage Trust	0	0	0	0	1	*
18 19	Snowdon School Ltd Ceteris	16 34	368	5 26	11 30	2 14	
22	Association of Scottish Colleges	1	587 *	13	31	4	74 *
23	Stirling University Innovation Park Ltd	0	0	3	*	5	7
24	Cowane's Hospital	5	61	3	*	7	14
25	Community Training and Development Unit	0	0	2	*	0	0
26	Falkirk Women's Technology Centre	0	0	3	*	1	*
27	Bo'ness Development Trust	0	0	0	0	1	*
28	Smith Art Gallery	7	131	5	9	2	*
29	VisitScotland	15	355	29	62	0	0
31	Alsorts	1	*	2	*	1	*
32	Langlees Community Dev. Project	0	0	1	*	0	0
33	Careers Central Ltd.	0	0	8	19	13	99
34	Scottish Children's Reporter Admin.	449	11,658	152	425	218	1,832
36	Central Carers Association	7	151	4	*	4	*
37	Central Scotland Regional Equality Council Ltd	4	*	7	10	1	*
38	Scottish Environment Protection Agency	1,266	39,134	559	1,765	285	3,445
39	Scottish Water and Sewerage Customers Council	0	0	1		123	521
52	Clackmannanshire Council	2,078	36,757	527	1,416	1,220	5,569
53 54	Falkirk Council	5,986	101,829	1,687	3,323	3,308	14,851
54 55	Stirling Council Central Scotland Police	2,753 0	52,755 0	1,125 118	2,734 293	2,107 202	10,516 809
56	Central Scotland Folice Central Scotland Fire and Rescue Service	44	1,157	25	72	43	255
57	Central Scotland Fire and Rescue Service Central Scotland Joint Valuation Board	43	1,166	13	52	43	515
58	St Mary's Episcopal P.S.	0	0	1	*	0	0
59	Open Secret	2	*	4	*	2	*
60	Tourist Board Training	0	0	2	*	21	128
61	Water Industry Commissioner for Scotland	16	747	23	79	4	*
62	Clackmannanshire Leisure Trust	0	0	6	6	8	34
63	Plus	2	*	4	*	1	*
64	Seamab School	21	513	11	18	5	32
65	McLaren Community Leisure Centre	1	*	6	9	0	0
66	Forth Valley College	256	5,432	81	250	58	322
67	Stirling District Tourism Ltd	5	112	1	*	4	*
68	Active Stirling Ltd	92	1,741	51	119	7	42 *
69	Forth and Oban Limited (Stirling Schools Contract)	26	461	13	10	2	*
70	Thinkwhere	22	611	15	49	2	*
71 72	Raploch URC	0	0	7 25	22	2	*
72	Scottish Police Services Authority Waterwatch Scotland	0	0	25 	66 22	1	*
73 74	Valed Management (UK) Ltd	2	*	1	*	0	0
	Amey (Clackmannanshire Schools)	11		3	*		*
75 76	Forth and Oban Limited (Falkirk Schools Contract)	3	111 *	0	0	0	0
76	Falkirk Community Trust Limited	5 514	7,891	34	41	26	123
82	Scottish Police Authority	31	1,138	0	0	0	0
85	Scottish Police Authority	237	5,468	25	85	4	*
90	Ex CRC (Water and Drainage staff)	0	0	0	0	635	3,195
93	Ex Stirling County (NHS Recharge)	0	0	0	0	1	*

^{*} Please note that for compliance with data protection legislation the figures in the table above have been blanked out where the number of members for an employer is less than 5 for any status of membership.



Assets at 31 March 2014

A summary of the Fund's assets (excluding members' money-purchase Additional Voluntary Contributions) as at 31 March 2014 and 31 March 2011 is as follows:

Asset class	Market Value at 31 March 2011 (£000)	Allocation %	Market Value at 31 March 2014 (£000)	Allocation %
UK equities	388,062	33%	457,984	29%
UK fixed interest gilts	53,383	5%	82,263	5%
UK corporate bonds	77,090	7%	28,054	2%
UK index-linked gilts	22,548	2%	24,781	2%
Overseas equities	504,154	43%	579,352	37%
Overseas bonds	0	0%	223,304	14%
Property	87,781	7%	112,035	7%
Cash and net current assets	48,167	4%	68,908	4%
Total	1,181,185	100%	1,576,681	100%

Accounting data – revenue account for the three years to 31 March 2014

mployer - normal contributions mployer - additional contributions mployer - early retirement and augmentation strain contributions mployee - normal contributions mployee - additional contributions ransfers In Received (including group and individual) other income otal Income expenditure	31 March 2012 51,934 0 6,000 16,301 237 2,455 0 76,927	31 March 2013 50,063 0 2,481 16,352 234 4,383 0	31 March 2014 54,432 0 4,552 17,224 225 3,316	Total 156,429 0 13,033 49,877 696
mployer - normal contributions mployer - additional contributions mployer - early retirement and augmentation strain contributions mployee - normal contributions mployee - additional contributions ransfers In Received (including group and individual) ther Income otal Income	0 6,000 16,301 237 2,455 0	0 2,481 16,352 234 4,383	0 4,552 17,224 225	0 13,033 49,877 696
mployer - additional contributions mployer - early retirement and augmentation strain contributions mployee - normal contributions mployee - additional contributions ransfers In Received (including group and individual) ther Income otal Income	0 6,000 16,301 237 2,455 0	0 2,481 16,352 234 4,383	0 4,552 17,224 225	0 13,033 49,877 696
mployer - early retirement and augmentation strain contributions mployee - normal contributions mployee - additional contributions ransfers In Received (including group and individual) other Income	6,000 16,301 237 2,455 0	2,481 16,352 234 4,383	4,552 17,224 225	13,033 49,877 696
mployee - normal contributions mployee - additional contributions ransfers In Received (including group and individual) other Income otal Income	16,301 237 2,455 0	16,352 234 4,383	17,224 225	49,877 696
mployee - additional contributions ransfers In Received (including group and individual) other Income otal Income	237 2,455 0	234 4,383	225	696
ransfers In Received (including group and individual) other Income otal Income	2,455 0	4,383		
otal Income	0		3,316	
otal Income		0		10,154
	76,927	,	0	0
vnondituro		73,513	79,749	230,189
xpenditure				
Gross Retirement Pensions	36,326	39,651	42,038	118,015
ump Sum Retirement Benefits	14,627	10,915	12,919	38,461
eath in Service Lump sum	1,100	2,163	1,528	4,791
eath in Deferment Lump Sum	0	0	0	0
leath in Retirement Lump Sum	0	0	0	0
Gross Refund of Contributions	191	137	151	479
ransfers out (including bulk and individual)	2,825	3,921	4,504	11,250
ees and Expenses	444	375	430	1,249
otal Expenditure	55,513	57,162	61,570	174,245
let Cashflow	21,414	16,351	18,179	55,944
ssets at start of year	1,186,171	1,251,989	1,463,075	1,186,171
let cashflow	21,414	16,351	18,179	55,944
change in value	44.404	194.735	95.427	334.566
sange in value ssets at end of year	1,251,989	1,463,075	1,576,681	1,576,681
pproximate rate of return on assets	3.7%	15.5%	6.5%	27.5%

Note that the figures above are based on the Fund accounts provided to us for the purposes of this valuation, which were fully audited at the time of our valuation calculations.



Appendix E: Assumptions

Financial assumptions

Financial assumptions	31 March 2011 (% p.a.)	31 March 2014 (% p.a.)
Discount rate	5.9%	5.1%
Retail Price inflation	3.6%	3.5%
Pay increases*	5.1%	4.0%
Pension increases:		
pension in excess of GMP	2.8%	2.7%
post-88 GMP	2.8%	2.7%
pre-88 GMP	0.0%	0.0%
Revaluation of deferred pension	2.8%	2.7%
Revaluation of accrued CARE pension	-	2.7%
Expenses	0.2%	0.2%

^{*}An allowance is also made for promotional pay increases (see table below). Note that the assumption at 31 March 2011 is actually 1% p.a. until 31 March 2013, reverting to 5.1% p.a. thereafter.

Mortality assumptions

mortanty accumpations	
Longevity assumptions	31 March 2014
Longevity - baseline	Vita curves
Longevity - improvements	
CMI Model version used	CMI_2012
Starting rates	CMI calibration based on data from Club Vita using the latest available data as at December 2012.
Long term rate of improvement	Period effects:
	1.25% p.a. for men and women.
	Cohort effects:
	0% p.a. for men and for women.
Period of convergence	Period effects:
	CMI model core values i.e. 10 years for ages 50 and below and 5 years for those aged 95 and above, with linear transition to 20 years for those aged between 60 and 80.
	Cohort effects:
	CMI core i.e. 40 years for those born in 1947 or later declining linearly to 5 years for those born in 1912 or earlier.
Proportion of convergence remaining at mid point	50%

We have suggested a longevity improvement assumption based on the latest industry standard and combined information from our longevity experts in Club Vita. The start point for the improvements has been based on observed death rates in the Club Vita data bank over the period.

In the short term we have assumed that the 'cohort effect' of strong improvements in life expectancy currently being observed amongst a generation born around the early and mid-1930s will start to tail off, resulting in life expectancy increasing less rapidly than has been seen over the last decade or two. This is known as 'peaked'.

In the long term (post age 70) we have assumed that increases in life expectancy will stabilise at a rate of increase of 1 year per decade for men and women. This is equivalent to assuming that longer term mortality rates will fall at a rate of 1.25% p.a. for men and women.



However, we have assumed that post age 90 improvements in mortality are hard to achieve, declining between ages 90 and 120 so that no improvements are seen at ages 120 and over.

As a member of Club Vita, the longevity assumptions that have been adopted at this valuation are a bespoke set of VitaCurves that are specifically tailored to fit the membership profile of the Fund. These curves are based on the data you have provided us with for the purposes of this valuation. Full details of these are available on request.

Other demographic valuation assumptions

Retirements in ill health Allowance has been made for ill-health retirements before

Normal Pension Age (see table below).

Withdrawals Allowance has been made for withdrawals from service (see

table below).

Family details A varying proportion of members are assumed to be married (or

have an adult dependant) at retirement or on earlier death. For example, at age 60 this is assumed to be 90% for males and 85% for females. Husbands are assumed to be 3 years older

than wives.

Commutation 50% of future retirements elect to exchange pension for

additional tax free cash up to HMRC limits for service to 1 April

2009 (equivalent 75% for service from 1 April 2009).

50:50 option 10% of members (uniformly distributed across the age, service

and salary range) will choose the 50:50 option.

The tables below show details of the assumptions actually used for specimen ages. The promotional pay scale is an annual average for all employees at each age. It is in addition to the allowance for general pay inflation described above. For membership movements, the percentages represent the probability that an individual at each age leaves service within the following twelve months.



Death in Service:

	Incid	ence per 1000 acti	ve members per ar	nnum
Age	Male officers and Post 98	Male Manuals	Female officers and Post 98	Female Manuals
	Death	Death	Death	Death
20	0.21	0.27	0.12	0.15
25	0.21	0.27	0.12	0.15
30	0.26	0.32	0.18	0.22
35	0.30	0.37	0.30	0.37
40	0.51	0.64	0.48	0.60
45	0.85	1.07	0.77	0.97
50	1.36	1.71	1.13	1.42
55	2.13	2.68	1.49	1.87
60	3.83	4.82	1.90	2.39
65	6.38	8.03	2.44	3.07

III Health Early Retirements:

Tier 1

			Incidence t	for 1000 acti	ve members	per annum			
Age		Male Officers & Post 98 Males		lanuals		cers & Post 98 males	Female Manuals		
	III	Health	III He	ealth	III F	Health	III Health		
	FT	PT	FT	PT	FT	PT	FT	PT	
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.60	0.60	0.15	0.11	0.79	0.79	
30	0.00	0.00	1.11	1.11	0.20	0.15	1.15	1.15	
35	0.15	0.11	1.66	1.66	0.40	0.30	1.58	1.58	
40	0.25	0.19	2.42	2.42	0.60	0.45	2.30	2.30	
45	0.55	0.42	3.33	3.33	0.81	0.60	3.02	3.02	
50	1.41	1.06	4.94	4.94	1.51	1.13	4.03	4.03	
55	5.53	4.15	11.69	11.69	5.61	4.20	10.83	10.83	
60	9.73	7.30	18.74	18.74	11.89	8.92	19.05	19.05	
65	18.48	13.86	36.12	36.12	21.37	16.03	36.12	36.12	

Tier 2

I ICI Z									
			Incidence	for 1000 acti	ve members	per annum			
Age		cers & Post 98 Males	Male Manuals			cers & Post 98 males	Female Manuals		
	III	Health	III He	ealth	III F	Health	III He	ealth	
	FT	PT	FT	PT	FT	PT	FT	PT	
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.64	0.64	0.16	0.12	0.84	0.84	
30	0.00	0.00	1.18	1.18	0.21	0.16	1.22	1.22	
35	0.16	0.12	1.77	1.77	0.43	0.32	1.68	1.68	
40	0.27	0.20	2.57	2.57	0.64	0.48	2.45	2.45	
45	0.59	0.44	3.53	3.53	0.86	0.64	3.21	3.21	
50	1.90	1.42	6.65	6.65	2.03	1.53	5.43	5.43	
55	4.27	3.20	9.03	9.03	4.33	3.25	8.37	8.37	
60	3.66	2.75	7.05	7.05	4.48	3.36	7.17	7.17	
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	



Withdrawal:

Less than 1 year

				I	ncidence fo	r 1000 acti	ve members	s per annun	n			
A ===	Male Officers Male Manuals		Female	Officers	Female Manuals		Post 98 Males		Post 98 Females			
Age	Withd	rawals	Withd	rawals	Withd	rawals	Withd	rawals	Withd	rawals	Withd	rawals
	FT	PT	FT	PT	FT	PT	FT	PT	FT	PT	FT	PT
20	304.04	506.74	304.04	506.74	288.39	400.55	288.39	400.55	557.41	750.00	384.52	640.87
25	200.83	334.72	200.83	334.72	194.00	269.45	194.00	269.45	368.19	736.38	258.67	431.11
30	142.46	237.40	142.46	237.43	162.58	225.80	162.58	225.80	261.17	522.34	216.77	361.28
35	111.28	185.44	111.28	185.47	140.22	194.75	140.22	194.75	204.02	408.04	186.96	311.60
40	89.55	149.18	89.55	149.25	116.62	161.98	116.62	161.98	164.17	328.34	155.50	259.16
45	73.28	121.99	73.28	122.13	96.01	133.34	96.01	133.34	134.34	268.69	128.01	213.35
50	56.76	94.52	56.76	94.60	73.15	101.60	73.15	101.60	104.06	208.12	97.54	162.56
55	49.18	81.86	49.18	81.97	56.39	78.32	56.39	78.32	90.17	180.34	75.18	125.30
60	29.81	49.62	29.81	49.68	26.21	36.40	26.21	36.40	54.65	109.30	34.94	58.24

Between 1-2 years

					ncidence fo	or 1000 acti	ve members	s per annur				
۸۵۵	Male C	Officers	Male M	1anuals	Female	Officers	Female	Manuals	Post 98	3 Males	Post 98	Females
Age	Withd	rawals	Withd	rawals	Withd	rawals	Withd	rawals	Withd	rawals	Withd	rawals
	FT	PT	FT	PT	FT	PT	FT	PT	FT	PT	FT	PT
20	152.02	253.37	152.02	253.37	144.20	200.27	144.20	200.27	278.70	557.41	192.26	320.44
25	100.42	167.36	100.42	167.36	97.00	134.72	97.00	134.72	184.10	368.19	129.33	215.56
30	71.23	118.70	71.23	118.71	81.29	112.90	81.29	112.90	130.59	261.17	108.39	180.64
35	55.64	92.72	55.64	92.74	70.11	97.38	70.11	97.38	102.01	204.02	93.48	155.80
40	44.77	74.59	44.77	74.62	58.31	80.99	58.31	80.99	82.09	164.17	77.75	129.58
45	36.64	60.99	36.64	61.07	48.00	66.67	48.00	66.67	67.17	134.34	64.00	106.67
50	28.38	47.26	28.38	47.30	36.58	50.80	36.58	50.80	52.03	104.06	48.77	81.28
55	24.59	40.93	24.59	40.99	28.19	39.16	28.19	39.16	45.08	90.17	37.59	62.65
60	14.90	24.81	14.90	24.84	13.10	18.20	13.10	18.20	27.32	54.65	17.47	29.12

Greater than 2 years

						1000						
					ncidence fo	or 1000 activ	<i>v</i> e members	s per annun	n .			
Age	Male C	Officers	Male M	1anuals	Female	Officers	Female	Manuals	Post 98	3 Males	Post 98	Females
Age	Withd	rawals	Withd	rawals	Withd	rawals	Withd	rawals	Withd	rawals	Withd	rawals
	FT	PT	FT	PT	FT	PT	FT	PT	FT	PT	FT	PT
20	89.89	149.82	89.89	149.82	85.26	118.42	85.26	118.42	164.80	329.60	113.69	189.48
25	59.38	98.96	59.38	98.96	57.36	79.66	57.36	79.66	108.86	217.71	76.48	127.46
30	42.12	70.19	42.12	70.20	48.07	0.00	48.07	66.76	77.22	154.43	64.09	106.81
35	32.90	54.82	32.90	54.84	41.46	57.58	41.46	57.58	60.32	120.64	55.28	92.13
40	26.48	44.10	26.48	44.13	34.48	47.89	34.48	47.89	48.54	97.08	45.97	76.62
45	21.66	36.05	21.66	36.11	28.38	39.42	28.38	39.42	39.72	79.44	37.85	63.08
50	16.78	27.94	16.78	27.97	21.63	30.04	21.63	30.04	30.77	61.53	28.84	48.06
55	14.54	24.19	14.54	24.24	16.67	23.15	16.67	23.15	26.66	53.32	22.23	37.05
60	8.81	14.66	8.81	14.69	7.75	10.76	7.75	10.76	16.16	32.31	10.33	17.22

Promotional salary scale

	lar Garary C			Dramatianal	Calary Caalaa				
				Promotional 3	Salary Scales				
Age	Age Male Officers & Pos Males		Male N	lanuals	Female Offi 98 Fe	cers & Post males	Female Manuals		
	FT	PT	FT	PT	FT	PT	FT	PT	
20	100	100	100	100	100	100	100	100	
25	135	116	100	100	118	105	100	100	
30	169	134	100	100	137	111	100	100	
35	192	146	100	100	151	116	100	100	
40	208	153	100	100	163	121	100	100	
45	222	154	100	100	166	122	100	100	
50	236	154	100	100	166	122	100	100	
55	239	154	100	100	166	122	100	100	
60	239	154	100	100	166	122	100	100	
65	239	154	100	100	166	122	100	100	



Appendix F: Events since valuation date

Post-valuation events

These valuation results are in effect a snapshot of the Fund as at 31 March 2014. Since that date, various events have had an effect on the financial position of the Fund. Whilst we have not explicitly altered the valuation results to allow for these events, a short discussion of these "post-valuation events" can still be beneficial in understanding the variability of pension funding.

Investment conditions since 31 March 2014

In the period from the valuation date to late February 2015, investment markets moved in the following manner:

- asset returns have been between 12 14%; and
- long term Government bond yields have increased by more than long term expected price inflation, which is likely to have increased past service liabilities by around 14 17%.

It should be noted that the above is for information only: the figures in this report have all been prepared using membership data, audited asset information and market-based assumptions all as at 31 March 2014. In particular, we do not propose amending any of the contribution rates listed in the Rates & Adjustments Certificate on the basis of these market changes, and all employer contribution rates are based on valuation date market conditions. In addition, these rates are finalised within a risk-measured framework as laid out in the Fund's Funding Strategy Statement (FSS).

Other events

Other than investment conditions changes above, I am not aware of any material changes or events occurring since the valuation date.



Appendix G: Rates and adjustments certificate

In accordance with regulation 60(1) of the Administration Regulations we have made an assessment of the contributions that should be paid into the Fund by participating employers for the period 1 April 2015 to 31 March 2018 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 DATE and our report on the actuarial valuation dated DATE.

The required minimum contribution rates are set out in the table below.

Signature:

Date:

DATE

Name: Catherine McFadyen Steven Scott

Qualification: Fellow of the Institute and Faculty of Actuaries Faculty of Actuaries

Firm: Hymans Robertson LLP Hymans Robertson LLP

20 Waterloo Street 20 Waterloo Street

DATE

Glasgow

G2 6DB G2 6DB



Statement to the rates and adjustments certificate

The Common Rate of Contribution payable by each employing authority under regulation 32(4)(a) of the Administration Regulations for the period 1 April 2015 to 31 March 2018 is 23.4% of pensionable pay (as defined in Appendix B).

Individual Adjustments are required under regulation 32(4)(b) of the Administration Regulations for the period 1 April 2015 to 31 March 2018 resulting in Minimum Total Contribution Rates (expressed as a combination of percentage of pensionable pay and monetary amounts) as set out below:

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

		Contributions	M	inimum C	ontribution	ns for the	r the Year Ending			
Employer	Employer name	currently being	31 Mar	ch 2016	31 Mar	ch 2017	31 Marc	h 2018		
code		paid in 2014/15			% Payroll		% Payroll			
Council pod	ol .									
52	Clackmannanshire Council	20.5%	21.0%		21.0%		21.5%			
53	Falkirk Council	20.5%	21.0%		21.0%		21.5%			
54	Stirling Council	20.5%	21.0%		21.0%		21.5%			
57	Central Scotland Joint Valuation Board	20.5%	21.0%		21.5%		22.0%			
77	Falkirk Community Trust	20.5%	21.0%		21.0%		21.5%			
Other stabil	ised bodies									
56	Central Scotland Fire and Rescue Service	20.5%	18.3%	33.8	18.3%	41.6	18.3%	50.1		
Pool	Scottish Police Authority	20.7%	18.2%	180.7	18.2%	188.0	18.2%	195.5		
13	Strathcarron Hospice	20.1%	20.6%	14.6	20.6%	30.4	20.6%	47.4		
66	Forth Valley College	19.4%	17.9%	117.5	17.9%	152.8	17.9%	190.7		
38	Scottish Environment Protection Agency	18.0%	16.1%	1,015.9	16.1%	1,276.6	16.1%	1,556.6		
34	Scottish Children's Reporter Admin.	17.6%	17.4%	88.3	17.4%	157.4	17.4%	231.9		
29	VisitScotland	21.6% plus £94.5k	24.7%	88.3	24.7%	89.9	24.7%	91.4		
Transferee	Admission Bodies									
74	Valad Management (UK) Ltd	22.2%	22.2%	0.0	22.2%	0.0	22.2%	0.0		
75	Amey (Clackmannanshire Schools)	22.8%	22.8%	0.0	22.8%	0.0	22.8%	0.0		
69	Forth and Oban Limited (Schools Contract)	18.8%	18.8%	0.0	18.8%	0.0	18.8%	0.0		
Community	Admission Bodies									
5	Dollar Academy Trust	19.8%	18.9%	20.1	18.9%	25.7	18.9%	31.7		
11	Ballikinrain School	21.4%	18.3%	67.7	18.3%	92.5	18.3%	119.1		
14	Stirling Enterprise Park Limited	22.8%	19.3%	13.4	19.3%	13.9	19.3%	14.5		
15	Scottish Autism	17.1%	18.0%	0.0	18.9%	0.0	19.8%	0.0		
19	Ceteris	25.8%	19.5%	40.2	19.5%	41.8	19.5%	43.4		
64	Seamab School	19.1%	17.1%	7.4	17.1%	3.8	17.1%	0.0		
68	Active Stirling Ltd	17.7%	13.3%	54.7	13.3%	28.5	13.3%	0.0		
70	Thinkwhere	17.3%	12.6%	20.7	12.6%	10.8	12.6%	0.0		
Small Adm	itted Bodies pool									
18	Snowdon School Ltd	21.9%	21.9%	0.0	21.9%	0.0	21.9%	0.0		
22	Association of Scottish Colleges	21.9%	10.0%	4.9	10.0%	5.1	10.0%	5.3		
24	Cowane's Hospital	21.9%	21.9%	0.0	21.9%	0.0	21.9%	0.0		
28	Smith Art Gallery	21.9%	21.9%	0.0	21.9%	0.0	21.9%	0.0		
36	Central Carers Association	21.9%	21.9%	0.0	21.9%	0.0	21.9%	0.0		
61	Water Industry Commissioner for Scotland	21.9%	19.1%	22.6	19.1%	23.5	19.1%	24.5		
67	Stirling District Tourism Ltd	21.9%	21.9%	0.0	21.9%	0.0	21.9%	0.0		
'Least risk'	employers									
31	Alsorts	21.9%	35.0%	2.5	35.0%	8.3	35.0%	14.4		
37	Central Scotland Regional Equality Council Ltd	21.9%	28.2%	0.0	33.8%	0.5	33.8%	5.3		
59	Open Secret	22.4%	36.2%	1.0	36.2%	9.1	36.2%	17.8		
63	Plus	21.9%	35.9%	1.8	35.9%	9.0	35.9%	16.7		
65	McLaren Community Leisure Centre	21.9%	35.1%	0.0	35.1%	4.5	35.1%	9.4		



Further notes:

- Contributions should be paid to Falkirk Council 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 non-ill health early retirements and/or augmentation (i.e. additional membership or additional pension) using methods and factors issued by me from time to time, or GAD guidance if I consider it to be appropriate.
- In addition, further sums may be required to be paid to the Fund by employers to meet the capital costs of any ill-health retirements that exceed those included within my assumptions.
- 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.

III health liability insurance

Note that, if an employer has ill health liability insurance in place with a suitable insurer and provides satisfactory evidence to the administering authority, then their Minimum Total Contribution Rate may be reduced by the lower of their insurance premium and their ill-health budget (as set out in **Appendix H**), for the period the insurance is in place.



Appendix H: III Health Retirements

Included in the valuation calculations is an assumption in relation to the expected incidence of retirements on the grounds of ill health for employee members for each year in the future.

The following table sets out:

- the expected cost per annum as a monetary amount as at the valuation date; and
- the expected cost per annum as a percentage of pensionable pay.

Employer		Expected Cost	
			% of payroll
Code	Employer Pool	£000's p.a.	p.a.
Scheduled bo			
52	Clackmannanshire Council	868.6	2.4%
53	Falkirk Council	2,438.0	2.2%
54	Stirling Council	1,230.5	2.3%
57	Central Scotland Joint Valuation Board	25.0	2.1%
Other stabilise	ed bodies		
56	Central Scotland Fire and Rescue Service	32.4	2.8%
pool	Scottish Police Authority	150.9	2.3%
13	Strathcarron Hospice	57.1	2.1%
66	Forth Valley College	112.3	2.1%
38	Scottish Environment Protection Agency	793.9	2.0%
34	Scottish Children's Reporter Admin.	259.9	2.2%
29	VisitScotland	11.0	3.1%
Transferee Ac	dmission Bodies		
74	Valad Management (UK) Ltd	2.1	3.7%
75	Amey (Clackmannanshire Schools)	2.7	2.4%
69	Forth and Oban Limited (Schools Contract)	21.0	4.0%
Community A	dmission Bodies		
5	Dollar Academy Trust	37.3	2.4%
11	Ballikinrain School	28.4	2.1%
14	Stirling Enterprise Park Limited	7.0	2.0%
15	Scottish Autism	140.7	1.7%
19	Ceteris	12.7	2.2%
64	Seamab School	11.8	2.3%
68	Active Stirling Ltd	25.2	1.4%
70	Thinkwhere	9.7	1.6%
Small Admitte	ed Bodies pool		
18	Snowdon School Ltd	9.6	2.6%
22	Association of Scottish Colleges	0.4	1.0%
24	Cowane's Hospital	0.9	1.6%
28	Smith Art Gallery	0.7	0.6%
36	Central Carers Association	3.8	2.5%
61	Water Industry Commissioner for Scotland	17.1	2.3%
67	Stirling District Tourism Ltd	2.7	2.4%
'Least risk' en	·		
31	Alsorts	0.4	2.2%
37	Central Scotland Regional Equality Council Ltd	1.0	1.5%
59	Open Secret	1.3	2.9%
63	Plus	1.1	3.4%
65	McLaren Community Leisure Centre	0.7	2.3%

