

Appendix 1

Treasury Management Strategy Statement 2019/20

Introduction

Treasury management is the management of the Council's cash flows, borrowing and investments, and the associated risks. The Council has invested substantial sums of money and is therefore exposed to financial risks including the loss of invested funds and the revenue effect of changing interest rates. The successful identification, monitoring and control of financial risk are therefore central to the Council's prudent financial management.

Treasury risk management at the Council is conducted within the framework of the Chartered Institute of Public Finance and Accountancy's *Treasury Management in the Public Services: Code of Practice 2017 Edition* (the CIPFA Treasury Code) which requires the Council to approve a treasury management strategy before the start of each financial year.

Commercial investments and investments held for service purposes are considered in the investment strategy report. The investment strategy is a new report for 2019/20, meeting the requirements of statutory guidance issued by the Government in January 2018, and focuses on the two investment types mentioned above.

Arlingclose, the council's treasury advisor, has provided commentary on the economic outlook, credit outlook and interest rate forecast in **Appendix A**.

Local Context

On 31st December 2018, the Council had no external borrowing for capital purposes and £36m of investments. This is set out in further detail at **Appendix B**. Forecast changes in these sums are shown in the balance sheet analysis in table 1 below.

Table 1: Balance sheet summary and forecast

	31.3.18 Actual £'000	31.3.19 Estimate £'000	31.3.20 Forecast £'000	31.3.21 Forecast £'000	31.3.22 Forecast £'000
General Fund CFR	17,439	47,438	69,838	92,066	112,370
Less: External borrowing *	0	30,000	50,000	75,000	95,500
Internal (over) borrowing	17,439	17,438	19,838	17,066	16,870
Less: Usable reserves	-49,610	-49,610	-49,610	-49,610	-49,610
Investments	32,171	32,172	29,772	32,544	32,740

* finance leases and transferred debt that form part of the Council's total debt

The underlying need to borrow for capital purposes is measured by the Capital Financing Requirement (CFR), while usable reserves and working capital are the underlying resources available for investment. The Council's current strategy is to maintain borrowing and investments below their underlying levels, sometimes known as internal borrowing.

The Council is currently “debt free” (no external borrowing), but is anticipating external borrowing of up to £30m as at 31 March 2019. The Capital Financing Requirement is increasing due to planned spending within the capital programme, and will therefore be required to borrow a minimum of £75m over the forecast period. Maintaining strategic investments as part of the treasury strategy will mean the borrowing requirement is expected to exceed this sum, potentially up to a maximum £124m. It should be noted that the Council has also agreed to progress with significant regeneration programmes.

The financing approach agreed in the governance for these programmes is quite elastic meaning the CFR could grow further in line with supported business cases, however a ‘worst case’ position in terms of potential up front borrowing has been taken into account in setting the required borrowing limit.

CIPFA’s Prudential Code for Capital Finance in Local Authorities recommends that the Council’s total debt should be lower than its highest forecast CFR over the next three years. Table 1 above shows that the Council expects to comply with this recommendation during 2019/20.

Borrowing Strategy

The Council held a short-term loan of £1.5million at 31 December 2018. This loan was required for working capital cash flow purposes and was for a period of only 13 days. The loan was repaid on 2 January 2019, there has been no borrowing requirement since this date.

The balance sheet forecast in table 1 shows that the Council expects to borrow in 2018/19 and holding an increasing external borrowing balance in subsequent years. Whilst it is unlikely, the Council may decide to borrow to pre-fund future years’ requirements as well if the market conditions indicate this would be a prudent treasury approach, providing this does not exceed the authorised limit for borrowing of £124 million and only to meet certain capital commitments.

Objectives: The Council’s chief objective when borrowing money is to strike an appropriately low risk balance between securing low interest costs and achieving certainty of those costs over the period for which funds are required. The flexibility to renegotiate loans should the Council’s long-term plans change is a secondary objective.

Strategy: Given the significant cuts to public expenditure and in particular to local government funding, the Council’s borrowing strategy continues to address the key issue of affordability without compromising the longer-term stability of the debt portfolio. With short-term interest rates currently much lower than long-term rates, it is likely to be more cost effective in the short-term to either use internal resources, or to borrow short-term loans instead.

By doing so, the Council is able to reduce net borrowing costs (despite foregone investment income) and reduce overall treasury risk. The benefits of internal and short-term borrowing will be monitored regularly against the potential for incurring additional costs by deferring borrowing into future years when long-term borrowing rates are forecast to rise modestly. Arlingclose will assist the Council with this ‘cost of carry’ and breakeven analysis. Its output may determine whether the Council borrows additional sums at long-term fixed rates in 2019/20 with a view to keeping future interest costs low, even if this causes additional cost in the short-term.

Alternatively, the Council may arrange forward starting loans during 2019/20, where the interest rate is fixed in advance, but the cash is received in later years. This would enable certainty of cost to be achieved without suffering a cost of carry in the intervening period, and maintain the benefits of using short term borrowing in the meantime.

In addition, the Council may borrow short-term loans to cover unplanned cash flow shortages.

Sources of borrowing: The approved sources of long-term and short-term borrowing are:

- Public Works Loan Board (PWLB) and any successor body
- any institution approved for investments (see below)
- any other bank or building society authorised to operate in the UK
- any other UK public sector body
- UK public and private sector pension funds (except Somerset County Council Pension Fund)
- capital market bond investors
- UK Municipal Bonds Agency plc and other special purpose companies created to enable local Council bond issues

Other sources of debt finance: In addition, capital finance may be raised by the following methods that are not borrowing, but may be classed as other debt liabilities:

- leasing
- hire purchase
- sale and leaseback

The Council could prioritise meeting its long-term borrowing from the PWLB but it continues to investigate other sources of finance, such as local Council loans and bank loans, that may be available at more favourable rates.

Municipal Bonds Agency: UK Municipal Bonds Agency plc was established in 2014 by the Local Government Association as an alternative to the PWLB. It plans to issue bonds on the capital markets and lend the proceeds to local authorities. This will be a more complicated source of finance than the PWLB for two reasons: borrowing authorities will be required to provide bond investors with a joint and several guarantee to refund their investment in the event that the agency is unable to for any reason; and there will be a lead time of several months between committing to borrow and knowing the interest rate payable. Any decision to borrow from the Agency will therefore be the subject of a separate report to Full Council.

Short-term and variable rate loans: These loans leave the Council exposed to the risk of short-term interest rate rises and are therefore subject to the interest rate exposure limits in the treasury management indicators below.

Debt rescheduling: The PWLB allows authorities to repay loans before maturity and either pay a premium or receive a discount according to a set formula based on current interest rates. Other lenders may also be prepared to negotiate premature redemption terms. The Council may take advantage of this and replace some loans with new loans, or repay loans without replacement, where this is expected to lead to an overall cost saving or a reduction in risk.

Investment Strategy

The Council holds significant invested funds, representing income received in advance of expenditure plus balances and reserves held. In the past 12 months the Council's investment balance has ranged between £31 million and £59 million, and similar levels are expected to be maintained in the forthcoming year.

Objectives: The CIPFA Code requires the Council to invest its funds prudently, and to have regard to the security and liquidity of its investments before seeking the highest rate of return, or yield. The Council's objective when investing money is to strike an appropriate balance between risk and return, minimising the risk of incurring losses from defaults and the risk of receiving unsuitably low investment income thus eroding the value of cash investments in real terms. Where balances are expected to be invested for more than one year, the Council will aim to achieve a total return that is equal or higher than the prevailing rate of inflation, in order to maintain the spending power of the sum invested.

Negative interest rates: If the UK enters into a recession in 2019/20, there is a small chance that the Bank of England could set its Bank Rate at or below zero, which is likely to feed through to negative interest rates on all low risk, short-term investment options. This situation already exists in many other European countries. In this event, security will be measured as receiving the contractually agreed amount at maturity, even though this may be less than the amount originally invested.

Strategy: Given the increasing risk and very low returns from short-term unsecured bank investments, the Council aims to maintain its investments in the secure and higher yielding asset classes during 2019/20.

The Council has increased its strategic (long-term) investments from £11m at the start of the financial year to an estimated £25m by the 31 March 2019. This diversification represents a continuation of the new strategy adopted in 2017/18.

A low proportion of the Council's surplus cash is invested in short-term unsecured bank deposits, certificates of deposit and money market funds. These investments are used for liquidity purposes which ensures the Council is able to cover day to day cash flow requirements.

Business models: Under the new IFRS 9 standard, the accounting for certain investments depends on the Council's "business model" for managing them. The Council aims to achieve value from its internally managed treasury investments by a business model of collecting the contractual cash flows and therefore, where other criteria are also met, these investments will continue to be accounted for at amortised cost.

Approved counterparties: The Council may invest its surplus funds with any of the counterparty types in table 3 below, subject to the cash limits (per counterparty) and the time limits shown.

Table 3: Approved investment counterparties and limits

Credit rating	Banks unsecured	Banks secured	Government	Corporates	Registered Providers
UK Govt	n/a	n/a	£ Unlimited 50 years	n/a	n/a
AAA	£3 m 5 years	£6 m 20 years	£6 m 50 years	£3 m 20 years	£3 m 20 years
AA+	£3 m 5 years	£6 m 10 years	£6 m 25 years	£3 m 10 years	£3 m 10 years
AA	£3 m 4 years	£6 m 5 years	£6 m 15 years	£3 m 5 years	£3 m 10 years
AA-	£3 m 3 years	£6 m 4 years	£6 m 10 years	£3 m 4 years	£3 m 10 years
A+	£3 m 2 years	£6 m 3 years	£3 m 5 years	£3 m 3 years	£3 m 5 years
A	£3 m 13 months	£6 m 2 years	£3 m 5 years	£3m 2 years	£3 m 5 years
A-	£3 m 6 months	£6 m 13 months	£3 m 5 years	£3 m 13 months	£3 m 5 years
None	n/a	n/a	£6 m 25 years*	n/a	£3 m 5 years
Pooled funds and real estate investment trusts		£10m (nominal value) per fund			

This table must be read in conjunction with the notes below

Credit rating: Investment limits are set by reference to the lowest published long-term credit rating from a selection of external rating agencies. Where available, the credit rating relevant to the specific investment or class of investment is used, otherwise the counterparty credit rating is used. However, investment decisions are never made solely based on credit ratings, and all other relevant factors including external advice will be taken into account.

Banks unsecured: Accounts, deposits, certificates of deposit and senior unsecured bonds with banks and building societies, other than multilateral development banks. These investments are subject to the risk of credit loss via a bail-in should the regulator determine that the bank is failing or likely to fail. See below for arrangements relating to operational bank accounts.

Banks secured: Covered bonds, reverse repurchase agreements and other collateralised arrangements with banks and building societies. These investments are secured on the bank's assets, which limits the potential losses in the unlikely event of insolvency, and means that they are exempt from bail-in. Where there is no investment specific credit rating, but the collateral upon which the investment is secured has a credit rating, the higher of the collateral credit rating and the counterparty credit rating will be used to determine cash and time limits. The combined secured and unsecured investments in any one bank will not exceed the cash limit for secured investments.

Government: Loans, bonds and bills issued or guaranteed by national governments, regional and local authorities and multilateral development banks. These investments are not subject to

bail-in, and there is generally a lower risk of insolvency, although they are not zero risk. Investments with the UK Central Government may be made in unlimited amounts for up to 50 years.

Corporates: Loans, bonds and commercial paper issued by companies other than banks and registered providers. These investments are not subject to bail-in, but are exposed to the risk of the company going insolvent. Loans to unrated companies will only be made either following an external credit assessment as part of a diversified pool in order to spread the risk widely.

Registered providers: Loans and bonds issued by, guaranteed by or secured on the assets of registered providers of social housing and registered social landlords, formerly known as housing associations. These bodies are tightly regulated by the Regulator of Social Housing (in England), the Scottish Housing Regulator, the Welsh Government and the Department for Communities (in Northern Ireland). As providers of public services, they retain the likelihood of receiving government support if needed.

Pooled funds: Shares or units in diversified investment vehicles consisting of the any of the above investment types, plus equity shares and property. These funds have the advantage of providing wide diversification of investment risks, coupled with the services of a professional fund manager in return for a fee. Short-term Money Market Funds that offer same-day liquidity and very low or no volatility will be used as an alternative to instant access bank accounts, while pooled funds whose value changes with market prices and/or have a notice period will be used for longer investment periods.

Bond, equity and property funds offer enhanced returns over the longer term, but are more volatile in the short term. These allow the Council to diversify into asset classes other than cash without the need to own and manage the underlying investments. Because these funds have no defined maturity date, but are available for withdrawal after a notice period, their performance and continued suitability in meeting the Council's investment objectives will be monitored regularly.

Real estate investment trusts: Shares in companies that invest mainly in real estate and pay the majority of their rental income to investors in a similar manner to pooled property funds. As with property funds, REITs offer enhanced returns over the longer term, but are more volatile especially as the share price reflects changing demand for the shares as well as changes in the value of the underlying properties.

Operational bank accounts: The Council may incur operational exposures, for example through current accounts, collection accounts and merchant acquiring services, to any UK bank with credit ratings no lower than BBB- and with assets greater than £25 billion. These are not classed as investments, but are still subject to the risk of a bank bail-in, and balances will therefore be kept below £200,000 per bank. The Bank of England has stated that in the event of failure, banks with assets greater than £25 billion are more likely to be bailed-in than made insolvent, increasing the chance of the Council maintaining operational continuity.

Risk assessment and credit ratings: Credit ratings are obtained and monitored by the Council's treasury advisers, who will notify changes in ratings as they occur. Where an entity has its credit rating downgraded so that it fails to meet the approved investment criteria then:

- no new investments will be made,

- any existing investments that can be recalled or sold at no cost will be, and
- full consideration will be given to the recall or sale of all other existing investments with the affected counterparty.

Where a credit rating agency announces that a credit rating is on review for possible downgrade (also known as “rating watch negative” or “credit watch negative”) so that it may fall below the approved rating criteria, then only investments that can be withdrawn on the next working day will be made with that organisation until the outcome of the review is announced. This policy will not apply to negative outlooks, which indicate a long-term direction of travel rather than an imminent change of rating.

Other information on the security of investments: The Council understands that credit ratings are good, but not perfect, predictors of investment default. Full regard will therefore be given to other available information on the credit quality of the organisations in which it invests, including credit default swap prices, financial statements, information on potential government support, reports in the quality financial press and analysis and advice from the Council’s treasury management adviser. No investments will be made with an organisation if there are substantive doubts about its credit quality, even though it may otherwise meet the above criteria.

When deteriorating financial market conditions affect the creditworthiness of all organisations, as happened in 2008 and 2011, this is not generally reflected in credit ratings, but can be seen in other market measures. In these circumstances, the Council will restrict its investments to those organisations of higher credit quality and reduce the maximum duration of its investments to maintain the required level of security. The extent of these restrictions will be in line with prevailing financial market conditions. If these restrictions mean that insufficient commercial organisations of high credit quality are available to invest the Council’s cash balances, then the surplus will be deposited with the UK Government via the Debt Management Office or invested in government treasury bills for example, or with other local authorities. This will cause a reduction in the level of investment income earned, but will protect the principal sum invested.

Investment limits: The Council’s revenue reserves available to cover investment losses are forecast to be £3 million on 31st March 2019. The maximum that will be lent to any one organisation (other than the UK Government) will be £10 million. A group of banks under the same ownership will be treated as a single organisation for limit purposes. Limits will also be placed on fund managers, investments in brokers’ nominee accounts, foreign countries and industry sectors as below. Investments in pooled funds and multilateral development banks do not count against the limit for any single foreign country, since the risk is diversified over many countries.

Table 4: Investment limits

	Cash limit
Any single organisation, except the UK Central Government	£10m each
UK Central Government	unlimited
Any group of organisations under the same ownership	£20m per group
Any group of pooled funds under the same management	£20m per manager
Negotiable instruments held in a broker's nominee account	£30m per broker
Foreign countries	£12m per country
Registered providers and registered social landlords	£8m in total
Unsecured investments with building societies	£8m in total
Loans to unrated corporates	£4m in total
Money market funds	£20m in total
Real estate investment trusts	£10m in total

Liquidity management: The Council uses purpose-built cash flow forecasting software to determine the maximum period for which funds may prudently be committed. The forecast is compiled on a prudent basis to minimise the risk of the Council being forced to borrow on unfavourable terms to meet its financial commitments. Limits on long-term investments are set by reference to the Council's medium-term financial plan and cash flow forecast.

Treasury Management Indicators

The Council measures and manages its exposures to treasury management risks using the following indicators.

Security: The Council has adopted a voluntary measure of its exposure to credit risk by monitoring the value-weighted average credit score of its investment portfolio. This is calculated by applying a score to each investment (AAA=1, AA+=2, etc.) and taking the arithmetic average, weighted by the size of each investment. Unrated investments are assigned a score based on their perceived risk.

Credit risk indicator	Target
Portfolio average credit rating	5.0

Liquidity: The Council has adopted a voluntary measure of its exposure to liquidity risk by monitoring the amount of cash available to meet unexpected payments within a rolling three month period, without additional borrowing.

Liquidity risk indicator	Target
Total cash available within 3 months	£10m

Interest rate exposures: This indicator is set to control the Council's exposure to interest rate risk. The upper limits on the one-year revenue impact of a 1% rise or fall in interest rates will be:

Interest rate risk indicator	Limit
Upper limit on one-year revenue impact of a 1% <u>rise</u> in interest rates	£200,000
Upper limit on one-year revenue impact of a 1% <u>fall</u> in interest rates	£150,000

The impact of a change in interest rates is calculated on the assumption that maturing loans and investments will be replaced at current rates.

Maturity structure of borrowing: This indicator is set to control the Council's exposure to refinancing risk. The upper and lower limits on the maturity structure of borrowing will be:

Refinancing rate risk indicator	Upper limit	Lower limit
Under 12 months	100%	100%
12 months and within 24 months	100%	100%
24 months and within 5 years	100%	100%
5 years and within 10 years	100%	100%
10 years and above	100%	100%

Time periods start on the first day of each financial year. The maturity date of borrowing is the earliest date on which the lender can demand repayment. Upper and lower limits are set at 100% providing full flexibility to optimise borrowing arrangements.

Principal sums invested for periods longer than a year: The purpose of this indicator is to control the Council's exposure to the risk of incurring losses by seeking early repayment of its investments. The limits on the long-term principal sum invested to final maturities beyond the period end will be:

Price risk indicator	2019/20	2020/21	2021/22
Limit on principal invested beyond year end	£50m	£30m	£25m

Related Matters

The CIPFA Code requires the Council to include the following in its treasury management strategy.

Financial Derivatives: Local authorities have previously made use of financial derivatives embedded into loans and investments both to reduce interest rate risk (e.g. interest rate collars and forward deals) and to reduce costs or increase income at the expense of greater risk (e.g. LOBO loans and callable deposits). The general power of competence in Section 1 of the *Localism Act 2011* removes much of the uncertainty over local authorities' use of standalone financial derivatives (i.e. those that are not embedded into a loan or investment).

The Council will only use standalone financial derivatives (such as swaps, forwards, futures and options) where they can be clearly demonstrated to reduce the overall level of the financial risks that the Council is exposed to. Additional risks presented, such as credit exposure to derivative counterparties, will be taken into account when determining the overall level of risk. Embedded derivatives, including those present in pooled funds and forward starting transactions, will not be subject to this policy, although the risks they present will be managed in line with the overall treasury risk management strategy.

Financial derivative transactions may be arranged with any organisation that meets the approved investment criteria. The current value of any amount due from a derivative counterparty will count against the counterparty credit limit and the relevant foreign country limit.

Markets in Financial Instruments Directive: The Council has opted up to professional client status with its providers of financial services, including advisers, banks and brokers, allowing it access to a greater range of services but without the greater regulatory protections afforded to individuals and small companies. Given the size and range of the Council's treasury management activities, the Section 151 Officer believes this to be the most appropriate status.

Financial Implications

The budget for investment income in 2019/20 is £927,820, based on an average investment portfolio of £50 million at an interest rate of 1.86%. If actual levels of investments and borrowing, and actual interest rates differ from those forecast, performance against budget will be correspondingly different.

The budget for minimum revenue provision (MRP) for debt repayment in 2019/20 is £372,950.

Other Options Considered

The CIPFA Code does not prescribe any particular treasury management strategy for local authorities to adopt. The S151 Officer believes that the above strategy represents an appropriate balance between risk management and cost effectiveness. Some alternative strategies, with their financial and risk management implications, are listed below.

Alternative	Impact on income and expenditure	Impact on risk management
Invest in a narrower range of counterparties and/or for shorter times	Interest income will be lower	Lower chance of losses from credit related defaults, but any such losses may be greater
Invest in a wider range of counterparties and/or for longer times	Interest income will be higher	Increased risk of losses from credit related defaults, but any such losses may be smaller
Borrow additional sums at long-term fixed interest rates	Debt interest costs will rise; this is unlikely to be offset by higher investment income	Higher investment balance leading to a higher impact in the event of a default; however long-term interest costs may be more certain

Borrow short-term or variable loans instead of long-term fixed rates	Debt interest costs will initially be lower	Increases in debt interest costs will be broadly offset by rising investment income in the medium term, but long-term costs may be less certain
Reduce level of borrowing	Saving on debt interest is likely to exceed lost investment income	Reduced investment balance leading to a lower impact in the event of a default; however long-term interest costs may be less certain

Appendix 1 – Annex A

Arlingclose Economic & Interest Rate Forecast December 2018

Underlying assumptions:

- Our central interest rate forecasts are predicated on there being a transitional period following the UK's official exit from the EU.
- Both our projected outlook and the increase in the magnitude of political and economic risks facing the UK economy means we maintain the significant downside risks to our forecasts, despite the potential for slightly stronger growth next year as business investment rebounds should the EU Withdrawal Agreement be approved. The potential for severe economic outcomes has increased following the poor reception of the Withdrawal Agreement by MPs. We expect the Bank of England to hold at or reduce interest rates from current levels if Brexit risks materialise.
- The UK economic environment is relatively soft, despite seemingly strong labour market data. GDP growth recovered somewhat in the middle quarters of 2018, but more recent data suggests the economy slowed markedly in Q4. Our view is that the UK economy still faces a challenging outlook as the country exits the European Union and Eurozone economic growth softens.
- Cost pressures are easing but inflation is forecast to remain above the Bank's 2% target through most of the forecast period. Lower oil prices have reduced inflationary pressure, but the tight labour market and decline in the value of sterling means inflation may remain above target for longer than expected.
- The MPC has a bias towards tighter monetary policy but is reluctant to push interest rate expectations too strongly. We believe that MPC members consider that:
 - 1) tight labour markets will prompt inflationary pressure in the future,
 - 2) ultra-low interest rates result in other economic problems
 - 3) higher Bank Rate will be a more effective policy weapon if downside risks to growth crystallise.
- Global economic growth is slowing. Despite slower growth, the European Central Bank is conditioning markets for the end of QE, the timing of the first rate hike (2019) and their path thereafter. More recent US data has placed pressure on the Federal Reserve to reduce the pace of monetary tightening – previous hikes and heightened expectations will, however, slow economic growth.
- Central bank actions and geopolitical risks have and will continue to produce significant volatility in financial markets, including bond markets.

Forecast:

- The MPC has maintained expectations of a slow rise in interest rates over the forecast horizon, but recent events around Brexit have dampened interest rate expectations.

- Our central case is for Bank Rate is to rise twice in 2019, after the UK exits the EU. The risks are weighted to the downside.
- Gilt yields have remained at low levels. We expect some upward movement from current levels based on our central case that the UK will enter a transitional period following its EU exit in March 2019. However, our projected weak economic outlook and volatility arising from both economic and political events will continue to offer borrowing opportunities.

	Dec-18	Mar-19	Jun-19	Sep-19	Dec-19	Mar-20	Jun-20	Sep-20	Dec-20	Mar-21	Jun-21	Sep-21	Dec-21
Official Bank Rate													
Upside risk	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Arlingclose Central Ca	0.75	0.75	1.00	1.00	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
Downside risk	0.00	0.50	0.75	0.75	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3-mth money market rate													
Upside risk	0.10	0.10	0.10	0.10	0.15	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Arlingclose Central Ca	0.90	0.95	1.10	1.30	1.40	1.40	1.40	1.35	1.35	1.35	1.35	1.35	1.35
Downside risk	0.20	0.45	0.60	0.80	0.90	0.90	0.90	0.85	0.85	0.85	0.85	0.85	0.85
1-yr money market rate													
Upside risk	0.20	0.30	0.30	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Arlingclose Central Ca	1.15	1.25	1.35	1.50	1.70	1.60	1.50	1.40	1.35	1.35	1.35	1.35	1.35
Downside risk	0.35	0.50	0.60	0.80	0.90	0.90	0.90	0.85	0.85	0.85	0.85	0.85	0.85
5-yr gilt yield													
Upside risk	0.25	0.30	0.30	0.35	0.35	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Arlingclose Central Ca	1.15	1.25	1.35	1.50	1.50	1.40	1.35	1.35	1.30	1.30	1.30	1.30	1.30
Downside risk	0.50	0.60	0.65	0.80	0.80	0.70	0.65	0.65	0.65	0.65	0.65	0.65	0.65
10-yr gilt yield													
Upside risk	0.25	0.30	0.30	0.35	0.35	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Arlingclose Central Ca	1.50	1.65	1.70	1.80	1.80	1.75	1.75	1.70	1.70	1.70	1.70	1.70	1.70
Downside risk	0.55	0.70	0.70	0.80	0.80	0.75	0.75	0.70	0.70	0.70	0.70	0.70	0.70
20-yr gilt yield													
Upside risk	0.25	0.30	0.30	0.35	0.35	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Arlingclose Central Ca	2.00	2.10	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
Downside risk	0.60	0.70	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
50-yr gilt yield													
Upside risk	0.25	0.30	0.30	0.35	0.35	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Arlingclose Central Ca	1.90	1.95	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Downside risk	0.60	0.70	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75

PWLB Certainty Rate (Maturity Loans) = Gilt yield + 0.80%

PWLB Infrastructure Rate (Maturity Loans) = Gilt yield + 0.60%

Appendix 1 – Annex B

Existing Investment & Debt Portfolio Position

	31 December 18 Actual Portfolio £000's	31 December 18 Average Rate %
External borrowing:		
Public Works Loan Board	0	-
Local authorities	1,500	0.69%
LOBO loans from banks	0	-
Other loans	0	-
Total external borrowing	1,500	0.69%
Other long-term liabilities:		
Finance Leases	138	-
Total other long-term liabilities		
Total gross external debt	1,638	0.69%
Treasury investments:		
Banks & building societies (unsecured)	2,500	0.68%
Covered bonds & repo (secured)	5,000	0.50%
Government (incl. local authorities)	3,000	0.95%
Money Market Funds	1,250	0.56%
Property Funds	5,000	5.68%
Pooled Funds	18,250	5.29%
Total treasury investments	36,000	3.49%
Net investments	34,362	