



**South  
Derbyshire  
District Council**

**Treasury Management Strategy Statement 2021/22**

**February 2021**

## **Introduction**

Treasury management is the management of the Authority's cash flows, borrowing and investments, and the associated risks. The Authority has borrowed and 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 Authority's prudent financial management.

Treasury risk management at the Authority 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 Code) which requires the Authority to approve a treasury management strategy before the start of each financial year. This report fulfils the Authority's legal obligation under the Local Government Act 2003 to have regard to the CIPFA Code.

Updates on treasury activity are reported to the Finance and Management Committee on a quarterly basis. A further annual report is produced alongside the final accounts each July to detail all activity for the year.

## **Responsibility for Treasury Management**

The Finance and Management Committee is responsible for setting and monitoring treasury activity at the Council. Under its terms of reference, this includes ensuring that the Council does not breach its borrowing limit.

The Committee is advised by its Section 151 (Chief Finance) Officer who is the Strategic Director (Corporate Resources). This Officer is responsible for the oversight of activity and to ensure that treasury strategy and associated policies are met.

The day-to-day operational activity is undertaken within the Financial Services Unit at the Council. The main officers who have responsibility for daily transactions are the Chief Accountant and the Service Accountants.

The Authorising Officers for transactions are the Strategic Director (Corporate Resources), and the Head of Finance. Any new borrowing or investment has to have the prior approval of the Strategic Director (Corporate Resources).

## **External Support for Treasury Activity**

All designated officers involved in treasury activity are covered under the Council's Crime insurance. Officers are also supported by external treasury advisors who provide research material, news bulletins, together with general advice and guidance.

## **Audit Arrangements**

The Council's Internal Audit function audits treasury policies and procedures, together with treasury activity and transactions at least once every two years. This is a requirement of External Audit. Any matters raised concerning any governance or control matters, are considered and monitored by the Council's Audit Sub-Committee.

## **Scrutiny and Training**

Scrutiny is undertaken by the Finance and Management Committee as part of their role of agreeing policy and monitoring performance. The Audit Sub-Committee review internal audit reports regarding any procedural or wider control matters.

The Elected Members involved in reviewing Treasury Management have previously received training outside of formal reports and briefing papers. To strengthen the role of Members and to supplement their understanding, it is planned to deliver a further briefing/training session during the year for Members.

## **The Strategy**

This strategy covers:

- The management of debt
- The Council's debt and investment projections
- The expected movement in interest rates
- The Council's borrowing and investment strategies
- Treasury performance indicators
- Specific limits on treasury activities
- Any local treasury issues

## **External Context**

Economic background: The impact on the UK from coronavirus, lockdown measures, the rollout of vaccines, as well as the new trading arrangements with the European Union (EU), will remain major influences on the Authority's treasury management strategy for 2021/22.

The Bank of England (BoE) maintained Bank Rate at 0.10% in December 2020 and Quantitative Easing programme at £895 billion having extended it by £150 billion in the previous month. The Monetary Policy Committee (MPC) voted unanimously for both, but no mention was made of the potential future use of negative interest rates. In the November Monetary Policy Report (MPR) forecasts, the Bank expects the UK economy to shrink -2% in Q4 2020 before growing by 7.25% in 2021, lower than the previous forecast of 9%. The BoE also forecasts the economy will now take until Q1 2022 to reach

its pre-pandemic level rather than the end of 2021 as previously forecast. By the time of the December MPC announcement, a COVID-19 vaccine was approved for use, which the Bank noted would reduce some of the downside risks to the economic outlook outlined in the November MPR.

UK Consumer Price Inflation (CPI) for November 2020 registered 0.3% year on year, down from 0.7% in the previous month. Core inflation, which excludes the more volatile components, fell to 1.1% from 1.5%. The most recent labour market data for the three months to October 2020 showed the unemployment rate rose to 4.9% while the employment rate fell to 75.2%. Both measures are expected to deteriorate further due to the ongoing impact of coronavirus on the jobs market, particularly when the various government job retention schemes start to be unwound in 2021, with the BoE forecasting unemployment will peak at 7.75% in Q2 2021. In October, the headline 3-month average annual growth rate for wages were 2.7% for total pay and 2.8% for regular pay. In real terms, after adjusting for inflation, total pay growth was up by 1.9% while regular pay was up 2.1%.

GDP growth rebounded by 16.0% in Q3 2020 having fallen by -18.8% in the second quarter, with the annual rate rising to -8.6% from -20.8%. All sectors rose quarter-on-quarter, with dramatic gains in construction (41.2%), followed by services and production (both 14.7%). Monthly GDP estimates have shown the economic recovery slowing and remains well below its pre-pandemic peak. Looking ahead, the BoE's November MPR forecasts economic growth will rise in 2021 with GDP reaching 11% in Q4 2021, 3.1% in Q4 2022 and 1.6% in Q4 2023.

GDP growth in the euro zone rebounded by 12.7% in Q3 2020 after contracting by -3.7% and -11.8% in the first and second quarters, respectively. Headline inflation, however, remains extremely weak, registering -0.3% year-on-year in November, the fourth successive month of deflation. Core inflation registered 0.2% y/y, well below the European Central Bank's (ECB) target of 'below, but close to 2%'. The ECB is expected to continue holding its main interest rate of 0% and deposit facility rate of -0.5% for some time but expanded its monetary stimulus in December 2020, increasing the size of its asset purchase scheme to €1.85 trillion and extended it until March 2022.

The US economy contracted at an annualised rate of 31.4% in Q2 2020 and then rebounded by 33.4% in Q3. The Federal Reserve maintained the Fed Funds rate at between 0% and 0.25% and announced a change to its inflation targeting regime to a more flexible form of average targeting. The Fed also provided strong indications that interest rates are unlikely to change from current levels over the next three years

Former vice-president Joe Biden won the 2020 US presidential election. Mr Biden is making tackling coronavirus his immediate priority and will also be reversing several

executive orders signed by his predecessor and take the US back into the Paris climate accord and the World Health Organization.

**Credit outlook:** After spiking in late March as coronavirus became a global pandemic and then rising again in October/November, credit default swap (CDS) prices for the larger UK banks have steadily fallen back to almost pre-pandemic levels. Although uncertainty around COVID-19 related loan defaults lead to banks provisioning billions for potential losses in the first half of 2020, drastically reducing profits, reported impairments for Q3 were much reduced in some institutions. However, general bank profitability in 2020 and 2021 may be significantly lower than in previous years.

The credit ratings for many UK institutions were downgraded on the back of downgrades to the sovereign rating. Credit conditions more generally though in banks and building societies have tended to be relatively benign, despite the impact of the pandemic. Looking forward, the potential for bank losses to be greater than expected when government and central bank support starts to be removed remains a risk, suggesting a cautious approach to bank deposits in 2021/22 remains advisable.

**Interest rate forecast:** The Authority's treasury management adviser Arlingclose is forecasting that BoE Bank Rate will remain at 0.1% until at least the first quarter of 2024. The risks to this forecast are judged to be to the downside as the BoE and UK government continue to react to the coronavirus pandemic and the new EU trading arrangements. The BoE extended its asset purchase programme to £895 billion in November while keeping Bank Rate on hold and maintained this position in December. However, further interest rate cuts to zero, or possibly negative, cannot yet be ruled out but this is not part of the Arlingclose central forecast.

Gilt yields are expected to remain very low in the medium-term while short-term yields are likely to remain below or at zero until such time as the BoE expressly rules out the chance of negative interest rates or growth/inflation prospects improve. The central case is for 10-year and 20-year to rise to around 0.60% and 0.90% respectively over the time horizon. The risks around the gilt yield forecasts are judged to be broadly balanced between upside and downside risks, but there will almost certainly be short-term volatility due to economic and political uncertainty and events.

## **Local Context**

On 31st December 2020, the Authority held £57.423m of borrowing and £71.750m of treasury investments. Forecast changes in these sums are shown in the balance sheet analysis below.

### Balance sheet summary and forecast

	31.03.20 Actual £m	31.3.21 Estimate £m	31.3.22 Forecast £m	31.3.23 Forecast £m	31.3.24 Forecast £m
<b><u>Housing Revenue Account</u></b>					
Debt Outstanding	57,423	57,423	47,423	47,423	37,423
Capital Financing Requirement (CFR)	61,584	61,584	51,584	51,584	41,584
Statutory Debt Cap	66,853	66,853	66,853	66,853	66,853
<b>Borrowing Capacity (Cap less Debt Outstanding)</b>	<b>9,430</b>	<b>9,430</b>	<b>19,430</b>	<b>19,430</b>	<b>18,430</b>
<b><u>General Fund</u></b>					
Debt Outstanding	0	0	0	0	0
Capital Financing Requirement (CFR)	4,988	4,667	4,409	4,214	4,026
<b>Borrowing Capacity (Cap less Debt Outstanding)</b>	<b>4,988</b>	<b>4,667</b>	<b>4,409</b>	<b>4,214</b>	<b>4,026</b>
<b>Total Capital Financing Requirement (CFR)</b>	<b>66,572</b>	<b>66,251</b>	<b>55,993</b>	<b>55,798</b>	<b>45,610</b>

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 Authority's current strategy is to maintain borrowing and investments below their underlying levels, sometimes known as internal borrowing.

The Authority's current strategy is to maintain borrowing and investments below their underlying levels, sometimes known as internal borrowing, in order to reduce risk and keep interest costs low.

The Authority's current capital expenditure plans do not imply any need to borrow over the forecast period. Investments are forecast to fall by £4.25m as capital receipts are used to finance capital expenditure.

### **Borrowing Strategy**

The Authority currently holds £57.423 million of loans. These loans were taken out by the Authority in 2011/12 for the purpose of HRA self-financing. The principal element of these loans is repayable in full on maturity, with interest being paid each March and September.

**Objectives:** The Authority's chief objective when borrowing has been to strike an appropriately low risk balance between securing low interest costs and achieving cost certainty over the period for which funds are required, with flexibility to renegotiate loans should the Authority's long-term plans change being a secondary objective.

**Strategy:** Given the significant cuts to public expenditure and in particular to local government funding, the Authority's continues to address the key issue of affordability without compromising the longer-term stability of the debt portfolio. The Council has not identified a requirement to borrow in the medium term.

The benefits of internal 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.

The Authority has previously raised all of its long-term borrowing from the PWLB but the government increased PWLB rates by 1% in October 2019 making it now a relatively expensive option. A HM Treasury consultation on lowering PWLB rates concluded in July 2020 but the government has yet to publish its response.

Alternatively, the Authority could arrange forward starting loans, 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.

In addition, the Authority 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:

- HM Treasury's PWLB lending facility (formerly the Public Works Loan Board)
- 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 Derbyshire County Council Pension Fund)
- capital market bond investors

- UK Municipal Bonds Agency plc and other special purpose companies created to enable local authority 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
- Private Finance Initiative
- sale and leaseback

**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 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.

**LOBOs:** LOBO (Lender's Option Borrower's Option) loans where the lender has the option to propose an increase in the interest rate at set dates, following which the Authority has the option to either accept the new rate or to repay the loan at no additional cost.

**Short-term and variable rate loans:** These loans leave the Authority 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. Financial derivatives may be used to manage this interest rate risk.

**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 Authority 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.

### **Treasury Investment Strategy**

The Authority holds £71.750m invested funds, representing income received in advance of expenditure plus balances and reserves held. In the past 12 months, the Authority's treasury investment balance has ranged between £59.226m and £71.750m, and similar levels are expected to be maintained in the forthcoming year.

**Objectives:** Both the CIPFA Code and government guidance require the Authority to invest its funds prudently, and to have regard to the security and liquidity of its treasury investments before seeking the optimum rate of return, or yield. The Authority’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.

In furtherance of these objectives, and given the increasing risk and falling returns from short-term unsecured bank investments, the Authority has undertaken greater detailed cash flow forecasting which has enabled it to enter into longer-term deposits with other Local Authorities, therefore securing a higher rate of return.

**Negative interest rates:** The COVID-19 pandemic has increased the risk that the Bank of England will 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. Since investments cannot pay negative income, negative rates will be applied by reducing the value of investments. 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 Authority has opened additional money market funds to mitigate the risks of negative and zero interest rates. The majority of the Authority’s surplus cash is currently invested in short-term unsecured bank deposits, and money market funds. The remainder of the Authorities surplus funds are invested in other Local Authorities.

**Approved counterparties:** The Authority may invest its surplus funds with any of the counterparty types below, subject to the limits shown.

**Treasury investment counterparties and limits**

Sector	Counterparty Limit	Time Limit	Sector Limit
The UK Government	£20m	364 days	n/a
Local authorities & other government entities	£5m	364 days	Unlimited
Banks (unsecured)*	£3m	35 days	Unlimited
Building societies (unsecured)*	£2m	35 days	£5m
Money Market Funds*	£2m	60 days	£14m
Strategic Pooled Funds	£4m	n/a	£4m
Other Investments*	£1m	35 days	Unlimited

***This table must be read in conjunction with the notes below***

**\* Minimum credit rating:** Treasury investments in the sectors marked with an asterisk will only be made with entities whose lowest published long-term credit rating is no lower than A-. 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.

**Government:** Loans to, and 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 Government are deemed to be zero credit risk due to its ability to create additional currency.

**Banks and building societies (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.

**Money market funds:** Pooled funds that offer same-day or short notice liquidity and very low or no price volatility by investing in short-term money markets. They have the advantage over bank accounts of providing wide diversification of investment risks, coupled with the services of a professional fund manager in return for a small fee. The Authority will take care to diversify its liquid investments over a variety of providers to ensure access to cash at all times.

**Strategic pooled funds:** Bond, equity and property funds that offer enhanced returns over the longer term but are more volatile in the short term. These allow the Authority 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 Authority's investment objectives will be monitored regularly.

**Other investments:** This category covers treasury investments not listed above, for example unsecured corporate bonds and company loans. Non-bank companies cannot be bailed-in but can become insolvent placing the Authority's investment at risk.

**Operational bank accounts:** The Authority 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 £3m. 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 Authority maintaining operational continuity.

**Risk assessment and credit ratings:** Credit ratings are obtained and monitored by the Authority'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 "negative watch") so that it may fall below the approved rating criteria, then only investments that can be withdrawn 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 Authority 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 Authority'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 2020, this is not generally reflected in credit ratings, but can be seen in other market measures. In these circumstances, the Authority 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 Authority's cash balances, then the surplus will be deposited with the UK Government, or with other local authorities. This will cause investment returns to fall but will protect the principal sum invested.

**Liquidity management:** The Authority uses a cash flow forecast 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 Authority being forced to borrow on unfavourable terms to meet its financial commitments. Limits on long-term investments are set by reference to the Authority's medium-term financial plan and cash flow forecast.

The Authority spreads its liquid cash over at least 10 providers (e.g. bank accounts and money market funds) to ensure that access to cash is maintained in the event of operational difficulties at any one provider.

## Treasury Management Indicators

The main indicator the Council uses to measure its return on short-term investments to average over the year, is the Average 7-Day Money Market Rate. This is a standard measure of performance. Performance in recent years is shown in the following table.

	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21
7-Day Rate (target)	0.50%	0.36%	0.35%	0.65%	0.65%	0.54%
Actual Rate	0.32%	0.25%	0.39%	0.66%	0.66%	0.42%

As at 31st December 2020 the Council's investment portfolio is as follows:

	Current Rate(s)	Balance at 31.12.2020 £000
Local Authorities	0.01% - 1.05%	39,000
DMO	0.01%	13,000
Money Market Funds	0.005%	11,000
CCLA Property Funds	4.44%	4,000
Banks	0.0%	4,750
<b>TOTAL</b>		<b>71,750</b>

## **Other Options Considered**

The CIPFA Code do not prescribe any particular treasury management strategy for local authorities to adopt. The Strategic Director (Corporate Resources), having consulted the Finance and Management Committee, 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.

<b>Alternative</b>	<b>Impact on income and expenditure</b>	<b>Impact on risk management</b>
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

## **Arlingclose Economic & Interest Rate Forecast – December 2020**

### **Underlying assumptions:**

- The medium-term global economic outlook has improved with the distribution of vaccines, but the recent upsurge in coronavirus cases has worsened economic prospects over the short term.
- Restrictive measures and further lockdowns are likely to continue in the UK and Europe until the majority of the population is vaccinated by the second half of 2021. The recovery period will be strong thereafter, but potentially longer than previously envisaged.

- Signs of a slowing UK economic recovery were already evident in UK monthly GDP and PMI data, even before the second lockdown and Tier 4 restrictions. Employment is falling despite an extension to support packages.
- The need to support economic recoveries and use up spare capacity will result in central banks maintaining low interest rates for the medium term.
- Brexit will weigh on UK activity. The combined effect of Brexit and the after-effects of the pandemic will dampen growth relative to peers, maintain spare capacity and limit domestically generated inflation. The Bank of England will therefore maintain loose monetary conditions for the foreseeable future.
- Longer-term yields will also remain depressed, anchored by low central bank policy rates, expectations for potentially even lower rates and insipid longer-term inflation expectations. There is a chance yields may follow a slightly different path in the medium term, depending on investor perceptions of growth and inflation, or the deployment of vaccines.

#### **Forecast:**

- Arlingclose expects Bank Rate to remain at the current 0.10% level.
- Our central case for Bank Rate is no change, but further cuts to zero, or perhaps even into negative territory, cannot be completely ruled out, especially with likely emergency action in response to a no-deal Brexit.
- Gilt yields will remain low in the medium term. Shorter term gilt yields are currently negative and will remain around zero or below until either the Bank expressly rules out negative Bank Rate or growth/inflation prospects improve.
- Downside risks remain, and indeed appear heightened, in the near term, as the government reacts to the escalation in infection rates and the Brexit transition period ends.

	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22	Jun-22	Sep-22	Dec-22	Mar-23	Jun-23	Sep-23	Dec-23	Mar-24
<b>Official Bank Rate</b>													
Upside risk	0.00	0.00	0.15	0.15	0.15	0.15	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Arlingclose Central Case	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Downside risk	0.30	0.40	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
<b>3-month money market r.</b>													
Upside risk	0.05	0.05	0.10	0.10	0.15	0.20	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Arlingclose Central Case	0.10	0.10	0.15	0.15	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Downside risk	0.30	0.40	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
<b>1yr money market rate</b>													
Upside risk	0.05	0.05	0.10	0.10	0.15	0.20	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Arlingclose Central Case	0.15	0.15	0.25	0.25	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Downside risk	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
<b>5yr gilt yield</b>													
Upside risk	0.40	0.40	0.45	0.45	0.50	0.55	0.60	0.60	0.65	0.65	0.65	0.70	0.70
Arlingclose Central Case	0.00	0.00	0.05	0.10	0.15	0.20	0.20	0.25	0.25	0.25	0.25	0.25	0.25
Downside risk	0.40	0.45	0.50	0.55	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
<b>10yr gilt yield</b>													
Upside risk	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.60	0.65	0.65	0.65	0.70	0.70
Arlingclose Central Case	0.25	0.30	0.35	0.35	0.40	0.40	0.45	0.45	0.50	0.55	0.55	0.55	0.60
Downside risk	0.50	0.50	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
<b>20yr gilt yield</b>													
Upside risk	0.40	0.40	0.45	0.45	0.50	0.55	0.60	0.60	0.65	0.65	0.65	0.70	0.70
Arlingclose Central Case	0.70	0.70	0.75	0.75	0.75	0.80	0.80	0.85	0.85	0.85	0.85	0.90	0.90
Downside risk	0.30	0.30	0.35	0.35	0.35	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
<b>50yr gilt yield</b>													
Upside risk	0.40	0.40	0.45	0.45	0.50	0.55	0.60	0.60	0.65	0.65	0.65	0.70	0.70
Arlingclose Central Case	0.60	0.60	0.65	0.65	0.65	0.70	0.70	0.75	0.75	0.75	0.75	0.80	0.80
Downside risk	0.30	0.30	0.35	0.35	0.35	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40

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

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