## Finance and Resources Committee

10.00am, Tuesday, 7 November 2017

## Treasury Management: Mid-Term Report 2017/18

Item number
Report number
Executive/routine
Wards
Council Commitments

## Executive Summary

The purpose of this report is to give an update on Treasury Management activity in 2017/18.

In accordance with the Strategy set in March 2017 the Council completed no borrowing during the first half of the financial year and continued to fund capital expenditure temporarily from cash deposits. This approach generates significant short-term savings in Loans Charges for the Council. In following this Strategy, account is also being taken of the likely movement in interest rates in the medium and longer term and the Council's future estimated borrowing requirement.

The investment return for 2017/18 continues to show out-performance against the Fund's benchmark, although very low in absolute terms, while maintaining the security of the investments as a priority.

## Report

## Treasury Management: Mid-Term Report 2017/18

## 1. Recommendations

1.1 It is recommended that the Committee:
1.1.1 notes the mid-term report on Treasury Management for 2017/18;
1.1.2 notes the intention to exercise the option to opt up to professional status under MiFID II (Market in Financial Instruments Directive); and
1.1.3 refers the report to City of Edinburgh Council for approval and subsequent referral by the City of Edinburgh Council to the Governance Risk and Best Value Committee for scrutiny.

## 2. Background

2.1 The Council has adopted the CIPFA Code of Practice on Treasury Management in the Public Sector, and under the code, the mid-term report has been prepared setting out activity undertaken.
3. Main report
3.1 UK Interest Rates

> 3.1.1 During the last six months, the Bank of England's (BoE) Monetary Policy Committee (MPC) maintained UK Bank Rate at $0.25 \%$ and Quantitative Easing (QE) at £435bn. However, interest rate expectations varied significantly over the six months. At the June meeting of the MPC, three members of the Committee - Kristin Forbes, lan McCafferty and Michael Saunders - voted for a $0.25 \%$ increase in rates citing concerns about inflation. Indeed, one of the five who voted for no change, Andy Haldane the BoE Chief Economist/Executive Director of Monetary Analysis and Statistics, stated in a speech later in June that "Provided the data are still on track, I do think that beginning the process of withdrawing some of the incremental stimulus provided last August would be prudent moving into the second half of the year." Both the $5-3$ vote and the speech by Mr Haldane were after the result of the UK General Election was known, although Mr Haldane suggested that the result did have a bearing on his decision to vote against an interest rate rise at the June meeting.

Although expectations of an increase had been raised, inflation turned down briefly following the June MPC meeting and market expectations of a rate rise diminished again.


As can be seen in Figure 1 Libor rates increased in the run up to the snap general election and the subsequent MPC meeting. However, rates reduced with the uncertainty surrounding Brexit which the election created and the fall in the rate of CPI. More recently rates have started to increase again as a result of further indications from MPC members that UK Bank Rate may rise sooner rather than later.
3.1.2 Table 1 gives a Reuters poll of up to 62 economists, taken 1st September, showing their forecasts for UK Bank Rate until Quarter 4 2018. This showed most economists polled believed that the UK Bank Rate will remain at $0.25 \%$ through to Q4 2018.

|  | 2017 |  |  | 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Q3/17 | Q4/17 | Q1/18 | Q2/18 | Q3/18 | Q4/18 |
| Median | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| Mean | 0.26 | 0.26 | 0.28 | 0.3 | 0.33 | 0.37 |
| Mode | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| Min | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| Max | 0.25 | 0.5 | 0.75 | 0.75 | 1 | 1 |
| Count | 62 | 59 | 56 | 56 | 52 | 49 |
| Table 1 - Economists' Forecasts for UK Bank Rate |  |  |  |  |  |  |
| Source: Reuters |  |  |  |  |  |  |

3.1.4 This poll was taken before the minutes of the $14^{\text {th }}$ September meeting showed that interest rates may rise sooner than they had expected and also before the speech from MPC's external member Gertjan Vlieghe where he said 'that we are approaching the moment when Bank Rate may need to rise'. A more up to date poll may show very different forecasts.
3.1.5 CPI was at $2.9 \%$ in August, above the Bank of England's 2\% target and almost out of their +/- $1 \%$ range. While it is likely that the MPC would look through the current rate much of which is due to the depreciation of sterling, there are some genuine reasons for a modest increase in UK Bank Rate. In particular, reversing the $0.25 \%$ cut last August following the result of the EU Referendum would give the MPC scope to reduce it again should the outcome of Brexit negotiations not be favourable to the UK. Notwithstanding the likelihood of a reversal of the August 2016 cut in UK Bank Rate, it is still believed that the scope for any further increases in the UK thereafter is severely limited.

### 3.2 Investment Out-turn

3.2.1 The Treasury Management strategy is to ensure that surplus funds are invested in accordance with the list of approved organisations for investment, minimising the risk to the capital sum and optimising the return on these funds consistent with those risks. The Cash Fund's Investment Strategy continues to be based around the security of the investments.
3.2.2 The rates achieved on the Council's call accounts remain low in line with UK Bank Rate. Rates achievable on UK Treasury Bills also remain low but as can be seen in Figure 2 below have increased in the six month maturity in the last couple of auctions. The auction at the end of September achieved a maximum rate of $0.40 \%$.

3.2.3 Figure 3 below shows the distribution of Cash Fund deposits since inception.


Figure 3 - Cash Fund Investments since inception
3.2.4 As shown in Figure 3, the first half of the year has been characterised by larger than usual lending to other local authorities. This was for a combination of reasons - the shortage of local authority funds at year end, the low rates on bank deposits which made local authority rates more attractive and the very low rates on UK Government Treasury Bills shown in Figure 2. As shown in Figure 4, just under $88 \%$ of the fund was invested in Local Authority deposits at the end of the six months. Just over 2\% was invested with Money Market Funds and $10 \%$ with Banks in call accounts on instant access.

3.2.5 The Treasury section has been able to take advantage of a shortage of cash
in the market towards the mid-year point and achieve rates above call account levels on short fixed maturities with local authorities. These maturities are well placed to take advantage of any higher rates available should UK Bank Rate increase in November.
3.2.6 Figure 5 below shows the Weighted Average Life (WAL) - i.e. the average time to maturity of the Cash Fund investments since inception.


The WAL (weighted average time to the final maturity of investments) was down to 18 days at the mid year point. The decrease in the WAL is due to fixed deposits with Local Authorities being close to maturity. In addition we have provided notice monies to other authorities. It is therefore considered that the investments are positioned to take advantage of any rise in rates at the November MPC meeting.

### 3.3 Cash Fund Performance

3.3.1 The annualised rate of return for the Cash Fund for the six months to September 2017 was $0.30 \%$ against a benchmark of $0.11 \%$. Figure 6 below shows the daily investment performance of the Cash Fund against its benchmark since April 2011.


Figure 6 - Treasury Cash Fund Investment Performance
3.3.2 The small peak in April was due to being able to take advantage of the good inter-authority rates on offer over the year end. However, most of these investments were only available with a relatively short maturity. A combination of the lower rates on offer at the start of the new financial year, and subsequently the positioning of the portfolio to not long past November has meant that the performance has edged back a little. However, it is still significantly above both the benchmark and the outperformance target set by Lothian Pension Fund.

### 3.4 Debt Management Activity

3.4.1 Debt Management strategy for 2017/18 as outlined in the Strategy Report was to continue to use the Council's investment balances to fund capital expenditure. The Council has undertaken no PWLB borrowing since December 2012. Appendix 1 shows the current debt portfolio.
3.4.2 Figure 7 below shows the PWLB borrowing rates since April 2005. The drop in rates following the result of the EU referendum, particularly at the longer end of the curve, have largely been reversed. However, the future course of these rates are heavily reliant on the outcome of the negotiations with the EU. While the "money for time" arrangement is still the most likely outcome, if there were to be no agreement, further QE would be a significant possibility.


Figure 7 - PWLB Rates 2005 to Date
3.4.3 Table 2 below shows a comparison of the projected cumulative capital expenditure to be funded by borrowing and the actual external debt. More detail on the Capital Advances, along with revised Prudential Indicators are contained in the Capital Monitoring - Half year Position elsewhere on this agenda.

| Capital Advances v. External Debt | $\begin{array}{r} \text { 2016/17 } \\ £ 000 \end{array}$ | $\begin{array}{r} 2017 / 18 \\ £ 000 \end{array}$ | $\begin{array}{r} 2018 / 19 \\ £ 000 \end{array}$ | $\begin{array}{r} 2019 / 20 \\ £ 000 \end{array}$ | 2020/21 <br> £000 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Debt b/fd | 1,351,885 | 1,299,901 | 1,245,546 | 1,260,586 | 1,307,005 |
| Cumulative capital expenditure b/fd | 1,424,418 | 1,415,106 | 1,412,202 | 1,452,146 | 1,505,567 |
| Over / under borrowed b/fd | -72,533 | -115,205 | -166,656 | -191,560 | -198,562 |
| GF capital financed by borrowing | 48,324 | 40,600 | 55,397 | 60,132 | 62,242 |
| HRA capital financed by borrowing | 20,365 | 36,329 | 64,444 | 73,161 | 61,750 |
| less scheduled repayments by GF | -62,006 | -59,077 | -58,206 | -57,058 | -60,008 |
| less scheduled repayments by HRA | -13,033 | -18,275 | -20,116 | -22,297 | -27,069 |
| less scheduled repayments by Former Joint Boards | -2,962 | -2,481 | -1,575 | -517 | -544 |
| Underlying Need to Borrow | -9,312 | -2,904 | 39,944 | 53,421 | 36,371 |
| Plus total maturing debt | 51,984 | 54,355 | 54,960 | 53,581 | 55,567 |
| Total borrowing requirement | 42,672 | 51,451 | 94,904 | 107,002 | 91,938 |
| Indicative PWLB or short borrowing for year | 0 | 0 | 70,000 | 100,000 | 100,000 |
| Debt at end of the year | 1,299,901 | 1,245,546 | 1,260,586 | 1,307,005 | 1,351,438 |
| Cumulative capital expenditure | 1,415,106 | 1,412,202 | 1,452,146 | 1,505,567 | 1,541,938 |
| Cumulative over / under borrowed | -115,205 | -166,656 | -191,560 | -198,562 | -190,500 |

Table 2-Summary of Capital Advances v. External Debt
3.4.4 This table shows that at the end of $2016 / 17$, the Council had used $£ 115 \mathrm{~m}$ of its investment balances to temporarily fund capital expenditure which is $£ 22 \mathrm{~m}$ more than was shown in the out-turn report. The change is due to the Council's new external auditors requesting that the developers' contributions which were categorised as temporary loans be restated as capital received in advance. Therefore, temporary loans have been replaced with temporary internal borrowing and there is absolutely no difference in Treasury terms.
3.4.5 It is intended to continue the strategy of using investments to temporarily fund the Council's borrowing requirement giving a projected under borrowing of $£ 166 \mathrm{~m}$ at the end of the financial year. The requirement for other major projects such as the Edinburgh Homes project will be addressed as and when they become more certain.
3.5 MiFID II
3.5.1 MiFID (Market in Financial Instruments Directive) is the EU legislation that regulates firms who provide services to clients linked to 'financial instruments' (shares, bonds, units in collective investment schemes and derivatives), and the venues where those instruments are traded. Since it was brought in in 2007, UK local authorities have been categorised as 'per se professional' clients for MiFID scope business by virtue of being "Large Undertakings". However, following the global financial crisis, the European Commission instigated a review of MiFID due to perceived widespread misselling of financial products, including to local authorities and municipalities in continental Europe. The outcome of the review was a revised Directive, MiFID II and in July, the FCA published a policy statement setting out the final policies on a range of issues in the UK implementation of MiFID II, including the client categorisation of UK Local Authorities. From 3 January 2018, local authorities will by default be categorised as retail clients, and firms in the financial markets will no longer be able to categorise a local authority as a 'per se professional' client for MiFID or non-MiFID scope business.
3.5.2 A move to retail client status would mean that all financial services firms like banks, brokers, advisers and fund managers will have to treat local authorities the same way they do non-professional individuals and small businesses. Retail status would significantly restrict the range of financial institutions and instruments available to the Council. Under such a classification, the Council's ability to invest in regulated products such as such as Certificates of Deposit, Gilts, Bonds and investment funds, including Money Market Funds would be affected. Even if they were available, it is likely that the fees incurred would be significantly higher.
3.5.3 However the FCA's implementation of MiFID II allows for retail clients who meet certain conditions to elect to be treated as professional clients. When
being assessed by the financial institutions, the client must meet both quantitative and qualitative tests. The qualitative test requires an adequate assessment of the expertise, experience and knowledge of the client that gives reasonable assurance, in light of the nature of the transactions or services envisaged, that the client is capable of making his own investment decisions and understanding the risks involved. It is likely that this criteria will be applied to Elected Members as well as officers.
3.5.4 Building on the MiFID II work they had been doing on opting up for the Administering Authorities for LGPS (Local Government Pension Schemes) schemes, the LGA (Local Government Association) has produced some standard documentation for local authorities and market participants to use when assessing local authorities for opt up to professional status for their Treasury Management activities. The election to professional status must be completed with all financial institutions prior to the change of status on 03 January 2018, and it is the intention to seek elective professional client status for the Council with the full range of market participants.

## 4. Measures of success

4.1 The success of the Treasury Section can be measured by the out-performance of the Treasury Cash Fund against its benchmark and managing the Council's debt portfolio to minimise the cost to the Council while mitigating risk.

## 5. Financial impact

5.1 The Council continues to manage its debt portfolio so as to minimise the mediumterm cost of funding its capital projects.
5.2 The Treasury Cash Fund has generated significant additional income for the Council.
6. Risk, policy, compliance and governance impact
6.1 The Council complies with the relevant CIPFA code of practice whilst undertaking Treasury Management activities. The significant financial risks associated with Treasury Management activities have been successfully managed during the first half of 2017/18.

## 7. Equalities impact

7.1 There are no adverse equality impacts arising from this report.

## 8. Sustainability impact

8.1 There are no adverse sustainability impacts arising from this report.
9. Consultation and engagement
9.1 None
10. Background reading/external references
10.1 None

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## 11. Appendices

Appendix 1: Outstanding Debt at 30 September 2017

## Appendix 1: Outstanding Debt at 30 September 2017

| Market Debt (non LOBO) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Loan } \\ & \text { Type } \end{aligned}$ | Start <br> Date | Maturity <br> Date | Principal Outstanding <br> (f) | Interest Rate <br> (\%) | Annual Interest <br> (£) |
| M | 30/06/2005 | 30/06/2065 | 5,000,000.00 | 4.4 | 220,000.00 |
| M | 07/07/2005 | 07/07/2065 | 5,000,000.00 | 4.4 | 220,000.00 |
| M | 21/12/2005 | 21/12/2065 | 5,000,000.00 | 4.99 | 249,500.00 |
| M | 28/12/2005 | 24/12/2065 | 12,500,000.00 | 4.99 | 623,750.00 |
| M | 14/03/2006 | 15/03/2066 | 15,000,000.00 | 5 | 750,000.00 |
| M | 18/08/2006 | 18/08/2066 | 10,000,000.00 | 5.25 | 525,000.00 |
| M | 01/02/2008 | 01/02/2078 | 10,000,000.00 | 3.95 | 395,000.00 |
|  |  |  | 62,500,000.00 |  | 2,983,250.00 |
| Market Debt (LOBO) |  |  |  |  |  |
| Loan | Start | Maturity | Principal | Interest | Annual |
| Type | Date | Date | Outstanding <br> (£) | Rate <br> (\%) | Interest <br> (£) |
| M | 12/11/1998 | 13/11/2028 | 3,000,000.00 | 4.75 | 142,500.00 |
| M | 15/12/2003 | 15/12/2053 | 10,000,000.00 | 5.25 | 525,000.00 |
| M | 18/02/2004 | 18/02/2054 | 10,000,000.00 | 4.54 | 454,000.00 |
| M | 28/04/2005 | 28/04/2055 | 12,900,000.00 | 4.75 | 612,750.00 |
| M | 25/02/2011 | 25/02/2060 | 15,000,000.00 | 7.801 | 1,170,150.00 |
| M | 25/02/2011 | 25/02/2060 | 10,000,000.00 | 7.801 | 780,100.00 |
| M | 26/02/2010 | 26/02/2060 | 5,000,000.00 | 7.817 | 390,850.00 |
| M | 26/02/2010 | 26/02/2060 | 10,000,000.00 | 7.817 | 781,700.00 |
| M | 01/07/2005 | 01/07/2065 | 10,000,000.00 | 3.86 | 386,000.00 |
| M | 24/08/2005 | 24/08/2065 | 5,000,000.00 | 4.4 | 220,000.00 |
| M | 07/09/2005 | 07/09/2065 | 10,000,000.00 | 4.99 | 499,000.00 |
| M | 13/09/2005 | 14/09/2065 | 5,000,000.00 | 3.95 | 197,500.00 |
| M | 03/10/2005 | 05/10/2065 | 5,000,000.00 | 4.375 | 218,750.00 |
| M | 23/12/2005 | 23/12/2065 | 10,000,000.00 | 4.75 | 475,000.00 |
| M | 06/03/2006 | 04/03/2066 | 5,000,000.00 | 4.625 | 231,250.00 |
| M | 17/03/2006 | 17/03/2066 | 10,000,000.00 | 5.25 | 525,000.00 |
| M | 03/04/2006 | 01/04/2066 | 10,000,000.00 | 4.875 | 487,500.00 |
| M | 03/04/2006 | 01/04/2066 | 10,000,000.00 | 4.875 | 487,500.00 |
| M | 03/04/2006 | 01/04/2066 | 10,000,000.00 | 4.875 | 487,500.00 |
| M | 07/04/2006 | 07/04/2066 | 10,000,000.00 | 4.75 | 475,000.00 |
| M | 05/06/2006 | 07/06/2066 | 20,000,000.00 | 5.25 | 1,050,000.00 |
| M | 05/06/2006 | 07/06/2066 | 16,500,000.00 | 5.25 | 866,250.00 |
|  |  |  | 212,400,000.00 |  | 11,463,300.00 |

## PWLB

| Loan | Start | Maturity |
| :---: | :---: | :---: |
| Type | Date | Date |

Principal
Outstanding

## Interest Rate

(\%)
4.39
10.875

3,262,500.00
$3.24 \quad 486,000.00$
9.75 828,408.75
3.75 187,500.00
7.875 393,750.00
$8400,000.00$
7.625 228,555.65
7.875 393,750.00
3.46 173,000.00
$3.4340,000.00$
3.38 169,000.00
$3.96 \quad 67,596.76$
400,000.00
862,500.00
61,641.34
188,500.00
3.91 391,000.00
8.625 431,250.00
$3.54 \quad 354,000.00$
3.96 396,000.00
8.625 431,250.00
8.625 431,250.00
2.94 441,000.00
8.375 251,036.54
$8.625431,250.00$
3.09 73,129.21
8.625 862,500.00
8.75 1,041,250.00

8 800,000.00
3.89 194,500.00
8.5 254,783.35
8.125 406,250.00
3.76 188,000.00

8 816,000.00
3.95 395,000.00
8.625 535,267.50
8.625 258,530.17
8.5 850,000.00

8 416,000.00
$7.875 \quad 236,049.28$
7.875 46,029.61

## PWLB Cont'd

| Loan Type | Start <br> Date | Maturity Date | Principal Outstanding | Interest Rate | Annual Interest |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | (£) | (\%) | (£) |
| M | 08/05/1996 | 25/09/2023 | 10,000,000.00 | 8.375 | 837,500.00 |
| M | 13/10/2009 | 13/10/2023 | 5,000,000.00 | 3.87 | 193,500.00 |
| M | 05/12/1995 | 15/11/2023 | 10,000,000.00 | 8 | 800,000.00 |
| M | 10/05/2010 | 10/05/2024 | 10,000,000.00 | 4.32 | 432,000.00 |
| M | 28/09/1995 | 28/09/2024 | 2,895,506.10 | 8.25 | 238,879.25 |
| M | 14/05/2012 | 14/11/2024 | 10,000,000.00 | 3.36 | 336,000.00 |
| A | 14/12/2009 | 14/12/2024 | 5,675,883.92 | 3.66 | 225,543.38 |
| M | 17/10/1996 | 25/03/2025 | 10,000,000.00 | 7.875 | 787,500.00 |
| M | 10/05/2010 | 10/05/2025 | 5,000,000.00 | 4.37 | 218,500.00 |
| M | 16/11/2012 | 16/05/2025 | 20,000,000.00 | 2.88 | 576,000.00 |
| M | 13/02/1997 | 18/05/2025 | 10,000,000.00 | 7.375 | 737,500.00 |
| M | 20/02/1997 | 15/11/2025 | 20,000,000.00 | 7.375 | 1,475,000.00 |
| A | 01/12/2009 | 01/12/2025 | 9,032,895.69 | 3.64 | 353,219.53 |
| M | 21/12/1995 | 21/12/2025 | 2,397,960.97 | 7.875 | 188,839.43 |
| M | 21/05/1997 | 15/05/2026 | 10,000,000.00 | 7.125 | 712,500.00 |
| M | 28/05/1997 | 15/05/2026 | 10,000,000.00 | 7.25 | 725,000.00 |
| M | 29/08/1997 | 15/11/2026 | 5,000,000.00 | 7 | 350,000.00 |
| M | 24/06/1997 | 15/11/2026 | 5,328,077.00 | 7.125 | 379,625.49 |
| M | 07/08/1997 | 15/11/2026 | 15,000,000.00 | 6.875 | 1,031,250.00 |
| M | 13/10/1997 | 25/03/2027 | 10,000,000.00 | 6.375 | 637,500.00 |
| M | 22/10/1997 | 25/03/2027 | 5,000,000.00 | 6.5 | 325,000.00 |
| M | 13/11/1997 | 15/05/2027 | 3,649,966.00 | 6.5 | 237,247.79 |
| M | 17/11/1997 | 15/05/2027 | 5,000,000.00 | 6.5 | 325,000.00 |
| M | 13/12/2012 | 13/06/2027 | 20,000,000.00 | 3.18 | 636,000.00 |
| M | 12/03/1998 | 15/11/2027 | 8,677,693.00 | 5.875 | 509,814.46 |
| M | 06/09/2010 | 06/09/2028 | 10,000,000.00 | 3.85 | 385,000.00 |
| M | 14/07/2011 | 14/07/2029 | 10,000,000.00 | 4.9 | 490,000.00 |
| E | 14/07/1950 | 03/03/2030 | 3,159.72 | 3 | 100.48 |
| M | 14/07/2011 | 14/07/2030 | 10,000,000.00 | 4.93 | 493,000.00 |
| E | 15/06/1951 | 15/05/2031 | 3,281.02 | 3 | 103.70 |
| M | 06/09/2010 | 06/09/2031 | 20,000,000.00 | 3.95 | 790,000.00 |
| M | 15/12/2011 | 15/06/2032 | 10,000,000.00 | 3.98 | 398,000.00 |
| M | 15/09/2011 | 15/09/2036 | 10,000,000.00 | 4.47 | 447,000.00 |
| M | 22/09/2011 | 22/09/2036 | 10,000,000.00 | 4.49 | 449,000.00 |
| M | 10/12/2007 | 10/12/2037 | 10,000,000.00 | 4.49 | 449,000.00 |
| M | 08/09/2011 | 08/09/2038 | 10,000,000.00 | 4.67 | 467,000.00 |
| M | 15/09/2011 | 15/09/2039 | 10,000,000.00 | 4.52 | 452,000.00 |
| M | 06/10/2011 | 06/10/2043 | 20,000,000.00 | 4.35 | 870,000.00 |
| M | 09/08/2011 | 09/02/2046 | 20,000,000.00 | 4.8 | 960,000.00 |
| M | 23/01/2006 | 23/07/2046 | 10,000,000.00 | 3.7 | 370,000.00 |
| M | 23/01/2006 | 23/07/2046 | 10,000,000.00 | 3.7 | 370,000.00 |
| M | 19/05/2006 | 19/11/2046 | 10,000,000.00 | 4.25 | 425,000.00 |

## PWLB Cont'd

Loan Start Maturity Principal

| Type | Date | Date | Outstanding <br> $(\mathbf{f})$ | Rate <br> $(\%)$ | Interest <br> $(\mathbf{f})$ |
| :--- | ---: | ---: | ---: | ---: | ---: |
| M | $07 / 01 / 2008$ | $07 / 01 / 2048$ | $5,000,000.00$ | 4.4 | $220,000.00$ |
| M | $27 / 01 / 2006$ | $27 / 07 / 2051$ | $1,250,000.00$ | 3.7 | $46,250.00$ |
| M | $16 / 01 / 2007$ | $16 / 07 / 2052$ | $40,000,000.00$ | 4.25 | $1,700,000.00$ |
| M | $30 / 01 / 2007$ | $30 / 07 / 2052$ | $10,000,000.00$ | 4.35 | $435,000.00$ |
| M | $13 / 02 / 2007$ | $13 / 08 / 2052$ | $20,000,000.00$ | 4.35 | $870,000.00$ |
| M | $20 / 02 / 2007$ | $20 / 08 / 2052$ | $70,000,000.00$ | 4.35 | $3,045,000.00$ |
| M | $22 / 02 / 2007$ | $22 / 08 / 2052$ | $50,000,000.00$ | 4.35 | $2,175,000.00$ |
| M | $08 / 03 / 2007$ | $08 / 09 / 2052$ | $5,000,000.00$ | 4.25 | $212,500.00$ |
| M | $30 / 05 / 2007$ | $30 / 11 / 2052$ | $10,000,000.00$ | 4.6 | $460,000.00$ |
| M | $11 / 06 / 2007$ | $11 / 12 / 2052$ | $15,000,000.00$ | 4.7 | $705,000.00$ |
| M | $12 / 06 / 2007$ | $12 / 12 / 2052$ | $25,000,000.00$ | 4.75 | $1,187,500.00$ |
| M | $05 / 07 / 2007$ | $05 / 01 / 2053$ | $12,000,000.00$ | 4.8 | $576,000.00$ |
| M | $25 / 07 / 2007$ | $25 / 01 / 2053$ | $5,000,000.00$ | 4.65 | $232,500.00$ |
| M | $10 / 08 / 2007$ | $10 / 02 / 2053$ | $5,000,000.00$ | 4.55 | $227,500.00$ |
| M | $24 / 08 / 2007$ | $24 / 02 / 2053$ | $7,500,000.00$ | 4.5 | $337,500.00$ |
| M | $13 / 09 / 2007$ | $13 / 03 / 2053$ | $5,000,000.00$ | 4.5 | $225,000.00$ |
| M | $12 / 10 / 2007$ | $12 / 04 / 2053$ | $5,000,000.00$ | 4.6 | $230,000.00$ |
| M | $05 / 11 / 2007$ | $05 / 05 / 2057$ | $5,000,000.00$ | 4.6 | $230,000.00$ |
| M | $15 / 08 / 2008$ | $15 / 02 / 2058$ | $5,000,000.00$ | 4.39 | $219,500.00$ |
| M | $02 / 12 / 2011$ | $02 / 12 / 2061$ | $5,000,000.00$ | 3.98 | $199,000.00$ |
|  |  |  | $1,005,654,117.89$ |  | $54,210,901.68$ |



