D7a. Real losses curve definition

| Curve Definition | | | | | |
|----------------------|--|------|------|------|------|
| Consumption | Real losses in litres/service connection/day | | | | |
| litres/serv conn/day | 50 | 100 | 200 | 500 | 1000 |
| 100 | 33.3 | 50.0 | 66.7 | 83.3 | 90.9 |
| 250 | 16.7 | 28.6 | 44.4 | 66.7 | 80.0 |
| 500 | 9.1 | 16.7 | 28.6 | 50.0 | 66.7 |
| 1000 | 4.8 | 9.1 | 16.7 | 33.3 | 50.0 |
| 2000 | 2.4 | 4.8 | 9.1 | 20.0 | 33.3 |
| 3000 | 1.6 | 3.2 | 6.3 | 14.3 | 25.0 |
| 5000 | 1.0 | 2.0 | 3.8 | 9.1 | 16.7 |
| 10000 | 0.5 | 1.0 | 2.0 | 4.8 | 9.1 |

D7b. Components of water balance in litres/service connection/day (Actual Results)

| | Total | Billed Authorised Consumption = 2,634 Unbilled | Authorised Consumption | Revenue Water 2,634 |
|-----------------|-------------|---|---------------------------|---------------------------|
| System Input | Consumption | Authorised Consumption | 2,735 | |
| Volume | 2,797 | = 101 | | Non-Revenue |
| = 3,046 | | Apparent | | Water |
| 0,010 | | Losses | | = |
| | | = | Total | 412 |
| | | 62 | Losses | |
| | Real | | = | |
| | Losses | | 311 | |
| | = 248 | | | |

D7c. Current Real Losses as % of System Input Volume

| Details | Calculation | Actual Result | Units |
|--------------------------|---------------------------------|------------------|-----------------|
| System Input Volume | from D7b | 3,046 | Litres/conn/day |
| Total Consumption | from D7b | 2,797 | Litres/conn/day |
| Annual Real Losses | from D7b | 248 | Litres/conn/day |
| | | | |
| ARL as % of System Input | ARL / System input volume x 100 | 8 | % |

D7d. Potential Real Losses as % of System Input Volume

| Details | Calculation | Actual Result | Units |
|---------------------------------------|--|------------------|-----------------|
| Unavoidable Annual Real Losses (UARL) | from D3 | 29 | Litres/conn/day |
| Target Loss Factor (TLF) | User defined for each system | 3 | Dimensionless |
| Target Annual Real Losses (TARL) | TLF x UARL | 87 | Litres/conn/day |
| Current Annual Real Losses (CARL) | CARL from D5a | 248 | Litres/conn/day |
| Potential savings | CARL - TARL | 162 | Litres/conn/day |
| | | | |
| Potential ARL as % of System Input | TARL / (System input volume-Potential savings) x 100 | 3 | % |

D7e. Real Losses as a % of System Input Volume versus Consumption in litres/service connection for different values of Real Losses in litres/service connection/day

