

Appendix 4- Whole Life Cost spreadsheet

| Total 25 year maintenance profiles | | | |
|------------------------------------|---------------------|------------|------------------------|
| Year | SW - (Backloaded) | RAS | Discount Rate |
| 1 | £ 2,241.55 | £ 7,343.00 | 1.035 |
| 2 | £ 2,165.74 | £ 7,094.68 | 1.071225 |
| 3 | £ 3,111.05 | £ 6,622.96 | 1.147523001 |
| 4 | £ 1,953.38 | £ 6,399.00 | 1.187686306 |
| 5 | £ 1,887.32 | £ 6,182.60 | 1.229255326 |
| 6 | £ 2,805.99 | £ 5,973.53 | 1.272279263 |
| 7 | £ 1,761.83 | £ 5,771.53 | 1.316809037 |
| 8 | £ 1,702.26 | £ 5,576.36 | 1.362897353 |
| 9 | £ 2,530.84 | £ 5,387.78 | 1.410598761 |
| 10 | £ 10,493.37 | £ 5,205.59 | 1.459969717 |
| 11 | £ 1,535.34 | £ 5,029.55 | 1.511068657 |
| 12 | £ 2,282.67 | £ 4,859.47 | 1.56395606 |
| 13 | £ 1,433.25 | £ 4,695.14 | 1.618694522 |
| 14 | £ 1,384.79 | £ 4,536.37 | 1.675348831 |
| 15 | £ 2,058.84 | £ 4,382.96 | 1.73398604 |
| 16 | £ 1,292.71 | £ 4,234.75 | 1.794675551 |
| 17 | £ 1,249.00 | £ 4,091.54 | 1.857489196 |
| 18 | £ 1,856.96 | £ 3,953.18 | 1.922501317 |
| 19 | £ 1,165.95 | £ 3,819.50 | 1.989788863 |
| 20 | £ 7,438.95 | £ 3,690.34 | 2.059431474 |
| 21 | £ 1,674.87 | £ 3,565.54 | 2.131511575 |
| 22 | £ 1,051.62 | £ 3,444.97 | 2.20611448 |
| 23 | £ 1,016.06 | £ 3,328.47 | 2.283328487 |
| 24 | £ 1,510.63 | £ 3,215.92 | 2.363244984 |
| 25 | £ 77,350.04 | £ 3,107.17 | 2.445958559 |
| | SW | | Roads Authority |
| TOTALS | £ 134,955.01 | | £ 121,511.91 |
| £ 256,466.92 | 53% | | 47% |

| Roads Authority Costs | | | | SW Costs | | | | |
|-----------------------|---|-------|-----------|-------------|---|-------|-----------|-------------|
| | | Freq. | Unit Cost | Annual Cost | | Freq. | Unit Cost | Annual Cost |
| Ponds | Grass Cutting, Collection & Disposal | 12 | £ 150 | £ 1,800 | Inspect structures, rip rap, clear out/inlets | 12 | £ 95 | £ 1,140 |
| | Weed Management (general vegetation management) | 3 | £ 60 | £ 180 | Inlet Clear and desilt | 0.3 | £ 500 | £ 150 |
| | Litter Picking | 52 | £ 20 | £ 1,040 | Inspect Valves | 2 | £ 10 | £ 20 |
| | Aquatic plant management | 1 | £ 100 | £ 100 | Repair of inlet/outlet, forebay and berm and planting | 0.1 | £ 5,000 | £ 500 |
| Basins | Grass Cutting, Collection & Disposal | 12 | £ 150 | £ 1,800 | Inspect Structures, rip rap, clear out/inlets | 12 | £ 95 | £ 1,140 |
| | Weed Management (general vegetation management) | 3 | £ 60 | £ 180 | Inlet Clear and desilt | 0.3 | £ 500 | £ 150 |
| | Litter Picking | 52 | £ 20 | £ 1,040 | Inspect Valves | 2 | £ 10 | £ 20 |
| Swales | Swale grass cutting | 12 | £ 25 | £ 300 | Repair of inlet/outlet, forebay and berm, planting | 0.1 | £ 5,000 | £ 500 |
| | Weed Management (Wetland ditch vegetation management) | 3 | £ 40 | £ 120 | Silt removal | 0.3 | £ 250 | £ 75 |
| | Litter Picking | 52 | £ 20 | £ 1,040 | Reinstatement of infiltration surfaces | 0.1 | £ 3,000 | £ 300 |

| | Refurb Cost (50% +O/Head@15%) | Install Cost | Assumption |
|--------|-------------------------------|--------------|------------------|
| | CAPEX25 | CAPEX1 | |
| Swales | £ 57,500 | £ 100,000 | (£20m2 - 5000m2) |
| Pond | £ 71,875 | £ 125,000 | (£25m3 - 5000m3) |
| Basin | £ 57,500 | £ 100,000 | (£20m3 - 5000m3) |