

Annex 5: Output of Data Analysis

**Table 1A: Total environmental spend
£000s**

| SIC | All | | Total |
|------------|------------------|--|------------------|
| 05-09 | 286,936 | | 286,936 |
| 10-12 | 447,543 | | 447,543 |
| 19 | 138,469 | | 138,469 |
| 20&21 | 429,327 | | 429,327 |
| 24&25 | 322,323 | | 322,323 |
| 27&28 | 290,075 | | 290,075 |
| 35 | 536,612 | | 536,612 |
| 36 | 287,475 | | 287,475 |
| Tot | 2,738,760 | | 2,738,760 |

**Table 1B: SE for total environmental spend
£000s**

| SIC | All | | Total SE |
|------------|----------------|--|----------------|
| 05-09 | 219,795 | | 219,795 |
| 10-12 | 113,935 | | 113,935 |
| 19 | 76,145 | | 76,145 |
| 20&21 | 114,733 | | 114,733 |
| 24&25 | 72,922 | | 72,922 |
| 27&28 | 117,665 | | 117,665 |
| 35 | 326,210 | | 326,210 |
| 36 | 111,387 | | 111,387 |
| Tot | 467,157 | | 467,157 |

95% Confidence Interval

| | |
|-----------|-----------|
| | 2,738,760 |
| Total | 2,739 |
| Lower | Upper |
| 1,823,132 | 3,654,388 |
| 1,823 | 3,654 |

**Table 2A: Net total environmental spend
£000s**

| SIC | All | | Total |
|------------|------------------|--|------------------|
| 05-09 | 286,932 | | 286,932 |
| 10-12 | 428,881 | | 428,881 |
| 19 | 138,469 | | 138,469 |
| 20&21 | 418,196 | | 418,196 |
| 24&25 | 285,418 | | 285,418 |
| 27&28 | 269,632 | | 269,632 |
| 35 | 536,447 | | 536,447 |
| 36 | 287,475 | | 287,475 |
| Tot | 2,651,449 | | 2,651,449 |

**Table 2B: SE for net total environmental spend
£000s**

| SIC | All | | Total SE |
|------------|----------------|--|----------------|
| 05-09 | 219,795 | | 219,795 |
| 10-12 | 112,354 | | 112,354 |
| 19 | 76,145 | | 76,145 |
| 20&21 | 111,536 | | 111,536 |
| 24&25 | 76,818 | | 76,818 |
| 27&28 | 123,247 | | 123,247 |
| 35 | 326,206 | | 326,206 |
| 36 | 111,387 | | 111,387 |
| Tot | 468,060 | | 468,060 |

95% Confidence Interval

| | |
|-----------|-----------|
| | 2,651,449 |
| Total | 2,651 |
| Lower | Upper |
| 1,734,052 | 3,568,847 |
| 1,734 | 3,569 |

**Table 3A: In-house operating costs
£000s**

| SIC | All | | Total |
|------------|----------------|--|----------------|
| 05-09 | 126,656 | | 126,656 |
| 10-12 | 80,119 | | 80,119 |
| 19 | 16,067 | | 16,067 |
| 20&21 | 119,372 | | 119,372 |
| 24&25 | 36,106 | | 36,106 |
| 27&28 | 55,329 | | 55,329 |
| 35 | 74,193 | | 74,193 |
| 36 | 95,563 | | 95,563 |
| Tot | 603,404 | | 603,404 |

**Table 3B: SE for in-house operating costs
£000s**

| SIC | All | | Total SE |
|------------|----------------|--|----------------|
| 05-09 | 102,618 | | 102,618 |
| 10-12 | 25,519 | | 25,519 |
| 19 | 11,570 | | 11,570 |
| 20&21 | 43,028 | | 43,028 |
| 24&25 | 7,131 | | 7,131 |
| 27&28 | 20,577 | | 20,577 |
| 35 | 51,977 | | 51,977 |
| 36 | 63,259 | | 63,259 |
| Tot | 142,634 | | 142,634 |

95% Confidence Interval

| | |
|---------|---------|
| | 603,404 |
| Total | 603 |
| Lower | Upper |
| 323,841 | 882,967 |
| 324 | 883 |

**Table 4A: Total external
£000s**

| SIC | All | | Total |
|--------------|------------------|--|------------------|
| 05-09 | 92,868 | | 92,868 |
| 10-12 | 272,073 | | 272,073 |
| 19 | 73,363 | | 73,363 |
| 20&21 | 197,467 | | 197,467 |
| 24&25 | 187,145 | | 187,145 |
| 27&28 | 69,431 | | 69,431 |
| 35 | 336,577 | | 336,577 |
| 36 | 117,037 | | 117,037 |
| Total | 1,345,960 | | 1,345,960 |

**Table 4B: SE for total external
£000s**

| SIC | All | | Total SE |
|------------|----------------|--|----------------|
| 05-09 | 60,049 | | 60,049 |
| 10-12 | 68,260 | | 68,260 |
| 19 | 46,217 | | 46,217 |
| 20&21 | 40,795 | | 40,795 |
| 24&25 | 38,249 | | 38,249 |
| 27&28 | 14,865 | | 14,865 |
| 35 | 251,048 | | 251,048 |
| 36 | 47,897 | | 47,897 |
| Tot | 281,191 | | 281,191 |

95% Confidence Interval

| | |
|---------|-----------|
| | 1,345,960 |
| Total | 1,346 |
| Lower | Upper |
| 794,826 | 1,897,095 |
| 795 | 1,897 |

Table 5A: External - solid wastes
£000s

| SIC | All | | Total |
|--------------|----------------|--|----------------|
| 05-09 | 10,650 | | 10,650 |
| 10-12 | 86,053 | | 86,053 |
| 19 | 40,931 | | 40,931 |
| 20&21 | 79,543 | | 79,543 |
| 24&25 | 90,218 | | 90,218 |
| 27&28 | 52,177 | | 52,177 |
| 35 | 10,021 | | 10,021 |
| 36 | 14,059 | | 14,059 |
| Total | 383,652 | | 383,652 |

Table 5B: SE for external - solid wastes
£000s

| SIC | All | | Total SE |
|--------------|---------------|--|---------------|
| 05-09 | 4,110 | | 4,110 |
| 10-12 | 27,648 | | 27,648 |
| 19 | 25,917 | | 25,917 |
| 20&21 | 16,539 | | 16,539 |
| 24&25 | 20,959 | | 20,959 |
| 27&28 | 13,494 | | 13,494 |
| 35 | 4,598 | | 4,598 |
| 36 | 8,152 | | 8,152 |
| Total | 49,351 | | 49,351 |

95% Confidence Interval

| | |
|---------|---------|
| | 383,652 |
| Total | 384 |
| Lower | Upper |
| 286,925 | 480,380 |
| 287 | 480 |

Table 6A: Waste water
£000s

| SIC | All | | Total |
|------------|----------------|--|----------------|
| 05-09 | 3,042 | | 3,042 |
| 10-12 | 170,605 | | 170,605 |
| 19 | 3,556 | | 3,556 |
| 20&21 | 89,052 | | 89,052 |
| 24&25 | 77,841 | | 77,841 |
| 27&28 | 13,480 | | 13,480 |
| 35 | 16,121 | | 16,121 |
| 36 | 8,283 | | 8,283 |
| Tot | 381,979 | | 381,979 |

Table 6B: SE for waste water
£000s

| SIC | All | | Total SE |
|------------|---------------|--|---------------|
| 05-09 | 1,739 | | 1,739 |
| 10-12 | 47,530 | | 47,530 |
| 19 | 2,087 | | 2,087 |
| 20&21 | 32,222 | | 32,222 |
| 24&25 | 20,441 | | 20,441 |
| 27&28 | 2,496 | | 2,496 |
| 35 | 6,694 | | 6,694 |
| 36 | 4,225 | | 4,225 |
| Tot | 61,575 | | 61,575 |

95% Confidence Interval

| | |
|---------|---------|
| | 381,979 |
| Total | 382 |
| Lower | Upper |
| 261,292 | 502,666 |
| 261 | 503 |

**Table 7A: Contaminated soil/groundwater
£000s**

| SIC | All | | Total |
|------------|---------------|--|---------------|
| 05-09 | 2,179 | | 2,179 |
| 10-12 | 20,424 | | 20,424 |
| 19 | 1,191 | | 1,191 |
| 20&21 | 20,928 | | 20,928 |
| 24&25 | 33,522 | | 33,522 |
| 27&28 | 6,412 | | 6,412 |
| 35 | 5,501 | | 5,501 |
| 36 | 8,117 | | 8,117 |
| Tot | 98,275 | | 98,275 |

**Table 7B: SE for contaminated soil/groundwater
£000s**

| SIC | All | | Total SE |
|------------|---------------|--|---------------|
| 05-09 | 1,752 | | 1,752 |
| 10-12 | 8,779 | | 8,779 |
| 19 | 709 | | 709 |
| 20&21 | 8,262 | | 8,262 |
| 24&25 | 13,170 | | 13,170 |
| 27&28 | 1,713 | | 1,713 |
| 35 | 3,680 | | 3,680 |
| 36 | 4,225 | | 4,225 |
| Tot | 18,886 | | 18,886 |

95% Confidence Interval

| | |
|--------|---------|
| | 98,275 |
| Total | 98 |
| Lower | Upper |
| 61,258 | 135,291 |
| 61 | 135 |

**Table 8A: Regulatory charges
£000s**

| SIC | All | | Total |
|------------|----------------|--|----------------|
| 05-09 | 7,072 | | 7,072 |
| 10-12 | 5,169 | | 5,169 |
| 19 | 28,508 | | 28,508 |
| 20&21 | 10,487 | | 10,487 |
| 24&25 | 14,354 | | 14,354 |
| 27&28 | 1,007 | | 1,007 |
| 35 | 7,217 | | 7,217 |
| 36 | 79,906 | | 79,906 |
| Tot | 153,721 | | 153,721 |

**Table 8B: SE for regulatory charges
£000s**

| SIC | All | | Total SE |
|------------|---------------|--|---------------|
| 05-09 | 4,443 | | 4,443 |
| 10-12 | 1,636 | | 1,636 |
| 19 | 18,092 | | 18,092 |
| 20&21 | 3,629 | | 3,629 |
| 24&25 | 4,915 | | 4,915 |
| 27&28 | 292 | | 292 |
| 35 | 3,402 | | 3,402 |
| 36 | 44,401 | | 44,401 |
| Tot | 48,685 | | 48,685 |

95% Confidence Interval

| | |
|--------|---------|
| | 153,721 |
| Total | 154 |
| Lower | Upper |
| 58,299 | 249,143 |
| 58 | 249 |

Table 9A: Other external costs
£000s

| SIC | All | | Total |
|------------|----------------|--|----------------|
| 05-09 | 2,741 | | 2,741 |
| 10-12 | 10,154 | | 10,154 |
| 19 | 334 | | 334 |
| 20&21 | 6,375 | | 6,375 |
| 24&25 | 4,670 | | 4,670 |
| 27&28 | 306 | | 306 |
| 35 | 281,408 | | 281,408 |
| 36 | 14,718 | | 14,718 |
| Tot | 320,705 | | 320,705 |

Table 9B: SE for other external costs
£000s

| SIC | All | | Total SE |
|------------|----------------|--|----------------|
| 05-09 | 1,598 | | 1,598 |
| 10-12 | 5,904 | | 5,904 |
| 19 | 214 | | 214 |
| 20&21 | 3,115 | | 3,115 |
| 24&25 | 2,165 | | 2,165 |
| 27&28 | 202 | | 202 |
| 35 | 246,922 | | 246,922 |
| 36 | 11,115 | | 11,115 |
| Tot | 247,277 | | 247,277 |

95% Confidence Interval

| | |
|----------|---------|
| | 320,705 |
| Total | 321 |
| Lower | Upper |
| -163,958 | 805,368 |
| -164 | 805 |

Table 10A: Research and development
£000s

| SIC | All | | Total |
|------------|----------------|--|----------------|
| 05-09 | 296 | | 296 |
| 10-12 | 2,450 | | 2,450 |
| 19 | 0 | | 0 |
| 20&21 | 4,661 | | 4,661 |
| 24&25 | 21,204 | | 21,204 |
| 27&28 | 118,595 | | 118,595 |
| 35 | 2,621 | | 2,621 |
| 36 | 3,202 | | 3,202 |
| Tot | 153,028 | | 153,028 |

Table 10B: SE for research and development
£000s

| SIC | All | | Total SE |
|------------|----------------|--|----------------|
| 05-09 | 176 | | 176 |
| 10-12 | 968 | | 968 |
| 19 | 0 | | 0 |
| 20&21 | 2,877 | | 2,877 |
| 24&25 | 17,952 | | 17,952 |
| 27&28 | 105,490 | | 105,490 |
| 35 | 1,861 | | 1,861 |
| 36 | 1,306 | | 1,306 |
| Tot | 107,074 | | 107,074 |

95% Confidence Interval

| | |
|---------|---------|
| | 153,028 |
| Total | 153 |
| Lower | Upper |
| -56,837 | 362,894 |
| -57 | 363 |

**Table 11A: End of pipe capital
£000s**

| SIC | All | | Total |
|------------|----------------|--|----------------|
| 05-09 | 30,480 | | 30,480 |
| 10-12 | 46,139 | | 46,139 |
| 19 | 28,705 | | 28,705 |
| 20&21 | 11,586 | | 11,586 |
| 24&25 | 15,250 | | 15,250 |
| 27&28 | 10,981 | | 10,981 |
| 35 | 891 | | 891 |
| 36 | 34,877 | | 34,877 |
| Tot | 178,908 | | 178,908 |

**Table 11B: SE for end of pipe capital
£000s**

| SIC | All | | Total SE |
|------------|---------------|--|---------------|
| 05-09 | 25,807 | | 25,807 |
| 10-12 | 21,713 | | 21,713 |
| 19 | 18,280 | | 18,280 |
| 20&21 | 6,970 | | 6,970 |
| 24&25 | 6,380 | | 6,380 |
| 27&28 | 7,078 | | 7,078 |
| 35 | 508 | | 508 |
| 36 | 16,173 | | 16,173 |
| Tot | 43,276 | | 43,276 |

95% Confidence Interval

| | |
|--------|---------|
| | 178,908 |
| Total | 179 |
| Lower | Upper |
| 94,088 | 263,729 |
| 94 | 264 |

**Table 12A: Integrated processes
£000s**

| SIC | All | | Total |
|------------|----------------|--|----------------|
| 05-09 | 36,635 | | 36,635 |
| 10-12 | 46,762 | | 46,762 |
| 19 | 20,334 | | 20,334 |
| 20&21 | 96,242 | | 96,242 |
| 24&25 | 62,618 | | 62,618 |
| 27&28 | 35,740 | | 35,740 |
| 35 | 122,330 | | 122,330 |
| 36 | 36,797 | | 36,797 |
| Tot | 457,459 | | 457,459 |

**Table 12B: SE for integrated processes
£000s**

| SIC | All | | Total SE |
|------------|----------------|--|----------------|
| 05-09 | 31,662 | | 31,662 |
| 10-12 | 32,436 | | 32,436 |
| 19 | 16,148 | | 16,148 |
| 20&21 | 78,252 | | 78,252 |
| 24&25 | 40,626 | | 40,626 |
| 27&28 | 29,122 | | 29,122 |
| 35 | 119,595 | | 119,595 |
| 36 | 18,935 | | 18,935 |
| Tot | 159,996 | | 159,996 |

95% Confidence Interval

| | |
|---------|---------|
| | 457,459 |
| Total | 457 |
| Lower | Upper |
| 143,866 | 771,052 |
| 144 | 771 |

**Table 13A: Total operating spending
£000s**

| SIC | All | | Total |
|------------|------------------|--|------------------|
| 05-09 | 219,820 | | 219,820 |
| 10-12 | 354,642 | | 354,642 |
| 19 | 89,430 | | 89,430 |
| 20&21 | 321,500 | | 321,500 |
| 24&25 | 244,455 | | 244,455 |
| 27&28 | 243,354 | | 243,354 |
| 35 | 413,391 | | 413,391 |
| 36 | 215,801 | | 215,801 |
| Tot | 2,102,393 | | 2,102,393 |

**Table 13B: SE for total operating spending
£000s**

| SIC | All | | Total SE |
|------------|----------------|--|----------------|
| 05-09 | 162,408 | | 162,408 |
| 10-12 | 81,973 | | 81,973 |
| 19 | 57,402 | | 57,402 |
| 20&21 | 76,578 | | 76,578 |
| 24&25 | 52,134 | | 52,134 |
| 27&28 | 114,870 | | 114,870 |
| 35 | 302,587 | | 302,587 |
| 36 | 93,848 | | 93,848 |
| Tot | 398,164 | | 398,164 |

95% Confidence Interval

| | | |
|-----------|-----------|-----------|
| | | 2,102,393 |
| Total | | 2,102 |
| Lower | Upper | |
| 1,321,991 | 2,882,794 | |
| 1,322 | 2,883 | |

**Table 14A: Total capital spending
£000s**

| SIC | All | | Total |
|------------|----------------|--|----------------|
| 05-09 | 67,116 | | 67,116 |
| 10-12 | 92,901 | | 92,901 |
| 19 | 49,039 | | 49,039 |
| 20&21 | 107,827 | | 107,827 |
| 24&25 | 77,868 | | 77,868 |
| 27&28 | 46,721 | | 46,721 |
| 35 | 123,222 | | 123,222 |
| 36 | 71,674 | | 71,674 |
| Tot | 636,367 | | 636,367 |

**Table 14B: SE for total capital spending
£000s**

| SIC | All | | Total SE |
|------------|----------------|--|----------------|
| 05-09 | 57,466 | | 57,466 |
| 10-12 | 51,058 | | 51,058 |
| 19 | 23,354 | | 23,354 |
| 20&21 | 78,513 | | 78,513 |
| 24&25 | 41,349 | | 41,349 |
| 27&28 | 29,840 | | 29,840 |
| 35 | 119,869 | | 119,869 |
| 36 | 24,999 | | 24,999 |
| Tot | 173,817 | | 173,817 |

95% Confidence Interval

| | | |
|---------|---------|---------|
| | | 636,367 |
| Total | | 636 |
| Lower | Upper | |
| 295,685 | 977,049 | |
| 296 | 977 | |

**Table 15A: Total cost savings
£000s**

| SIC | All | | Total |
|------------|----------------|--|----------------|
| 05-09 | 360 | | 360 |
| 10-12 | 29,891 | | 29,891 |
| 19 | 73,429 | | 73,429 |
| 20&21 | 12,637 | | 12,637 |
| 24&25 | 55,327 | | 55,327 |
| 27&28 | 116,813 | | 116,813 |
| 35 | 4,054 | | 4,054 |
| 36 | 8 | | 8 |
| Tot | 292,520 | | 292,520 |

**Table 15B: SE for total cost savings
£000s**

| SIC | All | | Total SE |
|------------|---------------|--|---------------|
| 05-09 | 211 | | 211 |
| 10-12 | 13,366 | | 13,366 |
| 19 | 44,470 | | 44,470 |
| 20&21 | 6,808 | | 6,808 |
| 24&25 | 29,354 | | 29,354 |
| 27&28 | 71,559 | | 71,559 |
| 35 | 3,056 | | 3,056 |
| 36 | 7 | | 7 |
| Tot | 90,522 | | 90,522 |

95% Confidence Interval

| | |
|---------|---------|
| | 292,520 |
| Total | 293 |
| Lower | Upper |
| 115,096 | 469,944 |
| 115 | 470 |

**Table 16A: Income from by-product sales
£000s**

| SIC | All | | Total |
|------------|---------------|--|---------------|
| 05-09 | 4 | | 4 |
| 10-12 | 18,662 | | 18,662 |
| 19 | 0 | | 0 |
| 20&21 | 11,131 | | 11,131 |
| 24&25 | 36,905 | | 36,905 |
| 27&28 | 20,443 | | 20,443 |
| 35 | 165 | | 165 |
| 36 | 0 | | 0 |
| Tot | 87,311 | | 87,311 |

**Table 16: SE for income from by-product sales
£000s**

| SIC | < 250 | | Total SE |
|------------|---------------|--|---------------|
| 05-09 | 4 | | 4 |
| 10-12 | 10,326 | | 10,326 |
| 19 | 0 | | 0 |
| 20&21 | 9,632 | | 9,632 |
| 24&25 | 24,173 | | 24,173 |
| 27&28 | 10,690 | | 10,690 |
| 35 | 165 | | 165 |
| 36 | 0 | | 0 |
| Tot | 29,968 | | 29,968 |

95% Confidence Interval

| | |
|--------|---------|
| | 87,311 |
| Total | 87 |
| Lower | Upper |
| 28,574 | 146,047 |
| 29 | 146 |