

## Appendix K Waste Flow Table



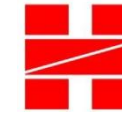
Monthly Summary Waste Flow Table for 2018 (year)

Project : Integrated Waste Management Facilities, Phase 1

Contract No.: EP/SP/66/12

| Month     | Actual Quantities of Inert C&D Materials Generated Monthly |  |                          |                          |                                      |                                 |  |                                 | Actual Quantities of C&D Wastes Generated Monthly |                            |                       |                |            |  |
|-----------|--|--|--------------------------|--------------------------|--------------------------------------|---------------------------------|--|---------------------------------|---|----------------------------|-----------------------|----------------|------------|--|
|           | Total Quantity Generated                                   | Hard Rock and Large Broken Concrete (see Note 1) | Reused in the Contract   | Reused in other Projects | Disposed as Public Fill (see Note 4) | Imported Fill Sand (see Note 4) | Imported Fill Public fill (see Note 4) | Imported Fill Rock (see Note 4) | Metals  | Paper/ cardboard packaging | Plastics (see Note 2) | Chemical Waste |            | Others, e.g. general refuse (see Note 3) |
|           | (in ,000m <sup>3</sup> )                                   | (in ,000m <sup>3</sup> )                         | (in ,000m <sup>3</sup> ) | (in ,000m <sup>3</sup> ) | (in ,000m <sup>3</sup> )             | (in ,000m <sup>3</sup> )        |  |                                 | (in ,000 kg)                                      | (in ,000kg)                | (in ,000kg)           | (in ,000kg)    | (in ,000L) | (in ,000 m <sup>3</sup> )                |
| Jan       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 0                                      | 0                               | 0   | 0                          | 0                     | 0              | 0          | 0  |
| Feb       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 0                                      | 0                               | 0   | 0                          | 0                     | 0              | 0          | 0  |
| Mar       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 0                                      | 0                               | 0   | 0                          | 0                     | 0              | 0          | 0  |
| Apr       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 0                                      | 0                               | 0   | 0                          | 0                     | 0              | 0          | 0  |
| May       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 0                                      | 0                               | 0   | 0                          | 0                     | 0              | 0          | 0  |
| Jun       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 0                                      | 0                               | 0   | 0                          | 0                     | 0              | 0          | 0  |
| Sub-total | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 0                                      | 0                               | 0   | 0                          | 0                     | 0              | 0          | 0  |
| Jul       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 0                                      | 0                               | 0   | 0                          | 0                     | 0              | 0          | 0  |
| Aug       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 0                                      | 0                               | 0   | 0                          | 0                     | 0              | 0          | 0.0065                                   |
| Sep       | 0  | 0  | 0                        | 0                        | 0                                    | 2.9619                          | 0                                      | 0                               | 0   | 0                          | 0                     | 0              | 0          | 0  |
| Oct       | 0  | 0  | 0                        | 0                        | 0                                    | 3.0771                          | 0                                      | 0                               | 0   | 0                          | 0                     | 0              | 0          | 0.0130                                   |
| Nov       | 0  | 0  | 0                        | 0                        | 0                                    | 6.7871                          | 0                                      | 0                               | 0   | 0                          | 0                     | 0              | 0          | 0  |
| Dec       | 0  | 0  | 0                        | 0                        | 0                                    | 59.0709                         | 0                                      | 0                               | 0   | 0                          | 0                     | 0.2000         | 0.8700     | 0  |
| Total     | 0  | 0  | 0                        | 0                        | 0                                    | 71.8970                         | 0                                      | 0                               | 0   | 0                          | 0                     | 0.2000         | 0.8700     | 0.0195                                   |

- Notes:
- (1) Broken concrete for recycling into aggregates.
  - (2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.
  - (3) Use the conversion factor : 1 full load of dumping truck being equivalent to 6.5m<sup>3</sup> by volume.
  - (4) Use the conversion factor: sand density = 1.6T/m<sup>3</sup>, public fill density = 1.8T/m<sup>3</sup> and rock density = 2T/m<sup>3</sup>



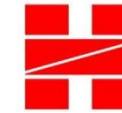
Monthly Summary Waste Flow Table for 2019 (year)

Project : Integrated Waste Management Facilities, Phase 1

Contract No.: EP/SP/66/12

| Month     | Actual Quantities of Inert C&D Materials Generated Monthly |  |                          |                          |                                      |                                 |  |                                 | Actual Quantities of C&D Wastes Generated Monthly |                            |                       |                |            |  |
|-----------|--|--|--------------------------|--------------------------|--------------------------------------|---------------------------------|--|---------------------------------|---|----------------------------|-----------------------|----------------|------------|--|
|           | Total Quantity Generated                                   | Hard Rock and Large Broken Concrete (see Note 1) | Reused in the Contract   | Reused in other Projects | Disposed as Public Fill (see Note 4) | Imported Fill Sand (see Note 4) | Imported Fill Public fill (see Note 4) | Imported Fill Rock (see Note 4) | Metals  | Paper/ cardboard packaging | Plastics (see Note 2) | Chemical Waste |            | Others, e.g. general refuse (see Note 3) |
|           | (in ,000m <sup>3</sup> )                                   | (in ,000m <sup>3</sup> )                         | (in ,000m <sup>3</sup> ) | (in ,000m <sup>3</sup> ) | (in ,000m <sup>3</sup> )             | (in ,000m <sup>3</sup> )        |  |                                 | (in ,000 kg)                                      | (in ,000kg)                | (in ,000kg)           | (in ,000kg)    | (in ,000L) | (in ,000 m <sup>3</sup> )                |
| Jan       | 0  | 0  | 0                        | 0                        | 0                                    | 82.6139                         | 0                                      | 0                               | 0   | 0                          | 0                     | 0              | 0          | 0.0065                                   |
| Feb       | 0  | 0  | 0                        | 0                        | 0                                    | 46.7821                         | 0                                      | 0                               | 0   | 0                          | 0                     | 0              | 0          | 0  |
| Mar       | 0  | 0  | 0                        | 0                        | 0                                    | 97.1000                         | 0                                      | 0.7552                          | 0   | 0.2560                     | 0                     | 0              | 0          | 0  |
| Apr       | 0  | 0  | 0                        | 0                        | 0                                    | 58.0413                         | 0                                      | 0                               | 0   | 0                          | 0                     | 0              | 0          | 0  |
| May       | 0  | 0  | 0                        | 0                        | 0                                    | 14.5625                         | 0                                      | 1.4648                          | 0   | 0                          | 0                     | 0              | 0          | 0.0065                                   |
| Jun       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 0                                      | 6.8421                          | 0   | 0                          | 0                     | 0              | 0          | 0  |
| Sub-total | 0  | 0  | 0                        | 0                        | 0                                    | 299.0998                        | 0                                      | 9.0621                          | 0   | 0.2560                     | 0                     | 0              | 0          | 0.0130                                   |
| Jul       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 0                                      | 0.4289                          | 0   | 0                          | 0                     | 0              | 8.4000     | 0.0130                                   |
| Aug       | 0  | 0  | 0                        | 0                        | 0                                    | 2.5775                          | 0                                      | 10.5600                         | 0   | 0                          | 0                     | 0              | 0          | 0  |
| Sep       | 0  | 0  | 0                        | 0                        | 0                                    | 6.1081                          | 0                                      | 8.4704                          | 0   | 0.3530                     | 0                     | 0              | 0          | 0.0065                                   |
| Oct       | 0  | 0  | 0                        | 0                        | 0                                    | 9.8875                          | 0                                      | 7.1900                          | 0   | 0                          | 0                     | 0              | 0          | 0  |
| Nov       | 0  | 0  | 0                        | 0                        | 0                                    | 38.3088                         | 0                                      | 19.3105                         | 0   | 0                          | 0                     | 0              | 0          | 0.0195                                   |
| Dec       | 0  | 0  | 0                        | 0                        | 0                                    | 54.3469                         | 0                                      | 26.9807                         | 0   | 0                          | 0                     | 0              | 0          | 0.0910                                   |
| Total     | 0  | 0  | 0                        | 0                        | 0                                    | 410.3286                        | 0                                      | 82.0026                         | 0   | 0.6090                     | 0                     | 0              | 8.4000     | 0.1430                                   |

- Notes:
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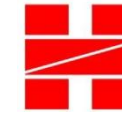
Monthly Summary Waste Flow Table for 2020 (year)

Project : Integrated Waste Management Facilities, Phase 1

Contract No.: EP/SP/66/12

| Month     | Actual Quantities of Inert C&D Materials Generated Monthly |  |                          |                          |                                      |                                 |  |                                 | Actual Quantities of C&D Wastes Generated Monthly |                            |                       |                |            |  |
|-----------|--|--|--------------------------|--------------------------|--------------------------------------|---------------------------------|--|---------------------------------|---|----------------------------|-----------------------|----------------|------------|--|
|           | Total Quantity Generated                                   | Hard Rock and Large Broken Concrete (see Note 1) | Reused in the Contract   | Reused in other Projects | Disposed as Public Fill (see Note 4) | Imported Fill Sand (see Note 4) | Imported Fill Public fill (see Note 4) | Imported Fill Rock (see Note 4) | Metals  | Paper/ cardboard packaging | Plastics (see Note 2) | Chemical Waste |            | Others, e.g. general refuse (see Note 3) |
|           | (in ,000m <sup>3</sup> )                                   | (in ,000m <sup>3</sup> )                         | (in ,000m <sup>3</sup> ) | (in ,000m <sup>3</sup> ) | (in ,000m <sup>3</sup> )             | (in ,000m <sup>3</sup> )        |  |                                 | (in ,000 kg)                                      | (in ,000kg)                | (in ,000kg)           | (in ,000kg)    | (in ,000L) | (in ,000 m <sup>3</sup> )                |
| Jan       | 0  | 0  | 0                        | 0                        | 0                                    | 37.1550                         | 0                                      | 25.0812                         | 0   | 0                          | 0                     | 0              | 0          | 0.0065                                   |
| Feb       | 0  | 0  | 0                        | 0                        | 0                                    | 27.7910                         | 0                                      | 18.8300                         | 0   | 0                          | 0                     | 0              | 0          | 0.0065                                   |
| Mar       | 0  | 0  | 0                        | 0                        | 0                                    | 22.5669                         | 0                                      | 26.1586                         | 0   | 0                          | 0                     | 0              | 7.2000     | 0.0065                                   |
| Apr       | 0  | 0  | 0                        | 0                        | 0                                    | 12.7800                         | 0                                      | 10.1825                         | 0   | 0                          | 0                     | 0              | 0          | 0.0195                                   |
| May       | 0  | 0  | 0                        | 0                        | 0                                    | 16.1138                         | 0                                      | 24.3740                         | 0   | 0.4220                     | 0                     | 0              | 0          | 0.0195                                   |
| Jun       | 0  | 0  | 0                        | 0                        | 0                                    | 31.5177                         | 0                                      | 28.3030                         | 0   | 0                          | 0                     | 0              | 0          | 0.0065                                   |
| Sub-total | 0  | 0  | 0                        | 0                        | 0                                    | 147.9244                        | 0                                      | 132.9293                        | 0   | 0.4220                     | 0                     | 0              | 7.2000     | 0.0650                                   |
| Jul       | 0  | 0  | 0                        | 0                        | 0                                    | 34.7856                         | 17.0606                                | 35.1800                         | 0   | 0                          | 0                     | 0              | 0          | 0.0195                                   |
| Aug       | 0  | 0  | 0                        | 0                        | 0                                    | 27.1375                         | 65.5667                                | 27.9335                         | 0   | 0                          | 0                     | 0              | 0          | 0  |
| Sep       | 0  | 0  | 0                        | 0                        | 0                                    | 11.9813                         | 110.1328                               | 43.5435                         | 0   | 0                          | 0                     | 0              | 0          | 0.0195                                   |
| Oct       | 0  | 0  | 0                        | 0                        | 0                                    | 2.8213                          | 131.6600                               | 22.5415                         | 0   | 0                          | 0                     | 0              | 0          | 0.0130                                   |
| Nov       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 162.1811                               | 44.6475                         | 0   | 0.4090                     | 0                     | 0              | 0.4000     | 0.0130                                   |
| Dec       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 174.9800                               | 57.8380                         | 0   | 0                          | 0                     | 0              | 0          | 0.0130                                   |
| Total     | 0  | 0  | 0                        | 0                        | 0                                    | 224.6501                        | 661.5812                               | 364.6133                        | 0   | 0.8310                     | 0                     | 0              | 7.6000     | 0.1430                                   |

- Notes:
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  - (4) Use the conversion factor: sand density = 1.6T/m<sup>3</sup>, public fill density = 1.8T/m<sup>3</sup> and rock density = 2T/m<sup>3</sup>



Monthly Summary Waste Flow Table for 2021 (year)

Project : Integrated Waste Management Facilities, Phase 1

Contract No.: EP/SP/66/12

| Month     | Actual Quantities of Inert C&D Materials Generated Monthly |  |                          |                          |                                      |                                 |  |                                 | Actual Quantities of C&D Wastes Generated Monthly |                            |                       |                |            |  |
|-----------|--|--|--------------------------|--------------------------|--------------------------------------|---------------------------------|--|---------------------------------|---|----------------------------|-----------------------|----------------|------------|--|
|           | Total Quantity Generated                                   | Hard Rock and Large Broken Concrete (see Note 1) | Reused in the Contract   | Reused in other Projects | Disposed as Public Fill (see Note 4) | Imported Fill Sand (see Note 4) | Imported Fill Public fill (see Note 4) | Imported Fill Rock (see Note 4) | Metals  | Paper/ cardboard packaging | Plastics (see Note 2) | Chemical Waste |            | Others, e.g. general refuse (see Note 3) |
|           | (in ,000m <sup>3</sup> )                                   | (in ,000m <sup>3</sup> )                         | (in ,000m <sup>3</sup> ) | (in ,000m <sup>3</sup> ) | (in ,000m <sup>3</sup> )             | (in ,000m <sup>3</sup> )        |  |                                 | (in ,000 kg)                                      | (in ,000kg)                | (in ,000kg)           | (in ,000kg)    | (in ,000L) | (in ,000 m <sup>3</sup> )                |
| Jan       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 198.1311                               | 36.4775                         | 0   | 0                          | 0                     | 0              | 0          | 0.0065                                   |
| Feb       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 143.9511                               | 20.9960                         | 0   | 0                          | 0                     | 0              | 0          | 0.6305                                   |
| Mar       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 103.1833                               | 23.4510                         | 0   | 0                          | 0                     | 0              | 0          | 0.0130                                   |
| Apr       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 161.2956                               | 27.2810                         | 0   | 0                          | 0                     | 0              | 0          | 0.0130                                   |
| May       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 193.3300                               | 20.5265                         | 0   | 0                          | 0                     | 0              | 0          | 0.0715                                   |
| Jun       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 141.5728                               | 23.7825                         | 0   | 0.2440                     | 0                     | 0              | 0          | 0.0455                                   |
| Sub-total | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 941.4639                               | 152.5145                        | 0   | 0.2440                     | 0                     | 0              | 0          | 0.7800                                   |
| Jul       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 105.1083                               | 30.6065                         | 0   | 0                          | 0                     | 0              | 0          | 0.0195                                   |
| Aug       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 11.1822                                | 7.5180                          | 0   | 0                          | 0                     | 0              | 0          | 0.0130                                   |
| Sep       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 0                                      | 5.7575                          | 0   | 0                          | 0                     | 0              | 0.6000     | 0.0390                                   |
| Oct       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 0                                      | 6.8885                          | 0   | 0                          | 0                     | 0              | 0          | 0  |
| Nov       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 0                                      | 6.2975                          | 0   | 0.1610                     | 0                     | 0              | 0          | 0.0130                                   |
| Dec       | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 0                                      | 5.9235                          | 0   | 0                          | 0                     | 0              | 0          | 0  |
| Total     | 0  | 0  | 0                        | 0                        | 0                                    | 0                               | 1057.7544                              | 215.5060                        | 0   | 0.4050                     | 0                     | 0              | 0.6000     | 0.8645                                   |

- Notes:
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Monthly Summary Waste Flow Table for 2022 (year)

Project : Integrated Waste Management Facilities, Phase 1

Contract No.: EP/SP/66/12

| Month     | Actual Quantities of Inert C&D Materials Generated Monthly |  |                          |                                       |                                      |                                 |  |                                 | Actual Quantities of C&D Wastes Generated Monthly |                            |                       |                |            |  |
|-----------|--|--|--------------------------|---------------------------------------|--------------------------------------|---------------------------------|--|---------------------------------|---|----------------------------|-----------------------|----------------|------------|--|
|           | Total Quantity Generated                                   | Hard Rock and Large Broken Concrete (see Note 1) | Reused in the Contract   | Reused in other Projects (see Note 4) | Disposed as Public Fill (see Note 4) | Imported Fill Sand (see Note 4) | Imported Fill Public fill (see Note 4) | Imported Fill Rock (see Note 4) | Metals  | Paper/ cardboard packaging | Plastics (see Note 2) | Chemical Waste |            | Others, e.g. general refuse (see Note 3) |
|           | (in ,000m <sup>3</sup> )                                   | (in ,000m <sup>3</sup> )                         | (in ,000m <sup>3</sup> ) | (in ,000m <sup>3</sup> )              | (in ,000m <sup>3</sup> )             | (in ,000m <sup>3</sup> )        |  |                                 | (in ,000 kg)                                      | (in ,000kg)                | (in ,000kg)           | (in ,000kg)    | (in ,000L) | (in ,000 m <sup>3</sup> )                |
| Jan       | 0  | 0  | 0                        | 0                                     | 0                                    | 0                               | 4.9389                                 | 2.7070                          | 0   | 0.1550                     | 0                     | 0              | 0          | 0.0715                                   |
| Feb       | 0  | 0  | 0                        | 0                                     | 0                                    | 0                               | 3.2478                                 | 4.0290                          | 0   | 0                          | 0                     | 0.4000         | 0.2250     | 0  |
| Mar       | 0  | 0  | 0                        | 0                                     | 0                                    | 0                               | 2.3422                                 | 2.7820                          | 0   | 0                          | 0                     | 0              | 0          | 0.0780                                   |
| Apr       | 0  | 0  | 0                        | 0                                     | 0                                    | 0                               | 18.2189                                | 5.8100                          | 0   | 0.3120                     | 0                     | 0              | 0          | 0.1495                                   |
| May       | 0.0648   | 0  | 0                        | 0                                     | 0.0648                               | 0                               | 16.7711                                | 17.2320                         | 0   | 0                          | 0                     | 0              | 0          | 0.0975                                   |
| Jun       | 0.0037   | 0  | 0                        | 0                                     | 0.0037                               | 0.2115                          | 1.1128                                 | 14.1470                         | 36.3000   | 0.3890                     | 0                     | 0              | 1.7250     | 0.0975                                   |
| Sub-total | 0.0685   | 0  | 0                        | 0                                     | 0.0685                               | 0.2115                          | 46.6317                                | 46.7070                         | 36.3000   | 0.8560                     | 0                     | 0.4000         | 1.9500     | 0.4940                                   |
| Jul       | 25.7183  | 0  | 0                        | 25.7183                               | 0                                    | 0.1125                          | 0.8333                                 | 17.5210                         | 0   | 0.6400                     | 0.0060                | 0              | 0          | 0.1235                                   |
| Aug       | 13.2494  | 0  | 0                        | 13.2494                               | 0                                    | 0                               | 0                                      | 24.5210                         | 76.0300   | 1.8870                     | 0                     | 0              | 0          | 0.1170                                   |
| Sep       | 24.9072  | 0  | 0                        | 24.8494                               | 0.0578                               | 0                               | 0                                      | 16.2815                         | 72.0600   | 0.3060                     | 0                     | 0              | 0          | 0.1885                                   |
| Oct       | 13.3139  | 0  | 0                        | 13.3006                               | 0.0133                               | 0                               | 0                                      | 11.8665                         | 78.1000   | 0.5800                     | 0                     | 0              | 0          | 0.2405                                   |
| Nov       |  |  |                          |                                       |                                      |                                 |  |                                 |   |                            |                       |                |            |  |
| Dec       |  |  |                          |                                       |                                      |                                 |  |                                 |   |                            |                       |                |            |  |
| Total     | 77.2573  | 0  | 0                        | 77.1177                               | 0.1396                               | 0.3240                          | 47.4650                                | 116.8970                        | 262.4900  | 4.2690                     | 0.0060                | 0.4000         | 1.9500     | 1.1635                                   |

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