

Annex H

## Waste Flow Table

Annex H1

## Construction Phase Waste Flow Table

**No. EP/SP/61/10 of Organic Resources Recovery Centre (Phase I)**  
**Monthly Summary Waste Flow Table**

| Month          | Actual Quantities of Inert C&D Materials Generated |                        |                          |                                    |                         | Actual Quantities of Non-inert C&D Materials (Construction Waste) Generated |   |                       |                |  |
|----------------|--|------------------------|--------------------------|------------------------------------|-------------------------|---|---|-----------------------|----------------|--|
|                | Total Quantity Generated                           | Reused in the Contract | Reused in other Projects | Hard Rocks & Large Broken Concrete | Disposed as Public Fill | Metals (see Note 1)   | Paper/ cardboard packaging (see Note 1) | Plastics (see Note 2) | Chemical Waste | Others, e.g. general refuse (see Note 3) |
|                | tonne  | tonne                  | tonne                    | tonne                              | tonne                   | kilogram  | kilogram                                | kilogram              | Litre          | tonne                                    |
| May 2015       | 29.58  | 0.00                   | 0.00                     | 0.00                               | 29.58                   | 0.00  | 0.00                                    | 0.00                  | 0.00           | 0.00                                     |
| June 2015      | 2226.90  | 0.00                   | 0.00                     | 0.00                               | 2226.90                 | 0.00  | 0.00                                    | 0.00                  | 0.00           | 9.66                                     |
| July 2015      | 2832.27  | 0.00                   | 0.00                     | 0.00                               | 2832.27                 | 0.00  | 0.00                                    | 0.00                  | 0.00           | 33.68                                    |
| August 2015    | 6657.25  | 0.00                   | 0.00                     | 0.00                               | 6657.25                 | 0.00  | 20.00                                   | 0.00                  | 0.00           | 55.06                                    |
| September 2015 | 5467.05  | 0.00                   | 0.00                     | 0.00                               | 5467.05                 | 3480.00   | 0.00                                    | 0.00                  | 0.00           | 83.81                                    |
| October 2015   | 5419.04  | 0.00                   | 0.00                     | 0.00                               | 5419.04                 | 18710.00  | 0.00                                    | 0.00                  | 0.00           | 20.45                                    |
| November 2015  | 1375.26  | 0.00                   | 0.00                     | 0.00                               | 1375.26                 | 21610.00  | 0.00                                    | 0.00                  | 0.00           | 17.38                                    |
| December 2015  | 2199.56  | 75.28                  | 0.00                     | 0.00                               | 2124.28                 | 0.00  | 41.00                                   | 0.00                  | 0.00           | 21.83                                    |
| January 2016   | 4601.43  | 0.00                   | 0.00                     | 0.00                               | 4601.43                 | 18140.00  | 50.00                                   | 0.00                  | 640.00         | 20.86                                    |
| February 2016  | 4167.01  | 0.00                   | 0.00                     | 0.00                               | 4167.01                 | 510.00  | 79.00                                   | 0.00                  | 0.00           | 16.57                                    |
| March 2016     | 299.92   | 41.28                  | 0.00                     | 0.00                               | 258.64                  | 22320.00  | 75.00                                   | 0.00                  | 0.00           | 22.69                                    |
| April 2016     | 3186.37  | 98.37                  | 0.00                     | 0.00                               | 3088.00                 | 60690.00  | 77.00                                   | 0.00                  | 255.00         | 37.63                                    |
| May 2016       | 1612.33  | 63.41                  | 0.00                     | 0.00                               | 1548.92                 | 13490.00  | 35000.00                                | 0.00                  | 0.00           | 40.76                                    |
| June 2016      | 1144.73  | 30.43                  | 0.00                     | 0.00                               | 1114.30                 | 14600.00  | 120.00                                  | 0.00                  | 0.00           | 58.34                                    |
| July 2016      | 662.76   | 0.00                   | 0.00                     | 0.00                               | 662.76                  | 13370.00  | 0.00                                    | 0.00                  | 0.00           | 40.48                                    |
| August 2016    | 391.88   | 0.00                   | 0.00                     | 0.00                               | 391.88                  | 18660.00  | 84.00                                   | 0.00                  | 0.00           | 61.91                                    |
| September 2016 | 324.35   | 0.00                   | 0.00                     | 0.00                               | 324.35                  | 56800.00  | 2780.00                                 | 0.00                  | 0.00           | 138.25                                   |
| October 2016   | 1561.82  | 39.00                  | 0.00                     | 0.00                               | 1522.82                 | 40000   | 9.30                                    | 0.00                  | 700.00         | 114.47                                   |
| November 2016  | 897.23   | 507.94                 | 00.00                    | 0.00                               | 389.76                  | 0.00  | 123.00                                  | 0.00                  | 0.00           | 154.22                                   |
| December 2016  | 2477.95  | 489.00                 | 0.00                     | 0.00                               | 1988.95                 | 2960.00   | 93.00                                   | 0.00                  | 0.00           | 136.80                                   |
| January 2017   | 2150.92  | 503.60                 | 0.00                     | 0.00                               | 1647.32                 | 31240.00  | 21051.00                                | 3630.00               | 0.00           | 127.43                                   |

| Month          | Actual Quantities of Inert C&D Materials Generated |                        |                          |                                    |                         | Actual Quantities of Non-inert C&D Materials (Construction Waste) Generated |   |                       |                |  |
|----------------|--|------------------------|--------------------------|------------------------------------|-------------------------|---|---|-----------------------|----------------|--|
|                | Total Quantity Generated                           | Reused in the Contract | Reused in other Projects | Hard Rocks & Large Broken Concrete | Disposed as Public Fill | Metals (see Note 1)   | Paper/ cardboard packaging (see Note 1) | Plastics (see Note 2) | Chemical Waste | Others, e.g. general refuse (see Note 3) |
|                | tonne  | tonne                  | tonne                    | tonne                              | tonne                   | kilogram  | kilogram                                | kilogram              | Litre          | tonne                                    |
| February 2017  | 553.80   | 440.00                 | 0.00                     | 0.00                               | 113.80                  | 14940.00  | 18820.00                                | 2880.00               | 460.00         | 83.46                                    |
| March 2017     | 665.93   | 460.00                 | 0.00                     | 0.00                               | 205.93                  | 11660.00  | 29370.00                                | 4400.00               | 660.00         | 99.59                                    |
| April 2017     | 553.41   | 220.00                 | 0.00                     | 0.00                               | 333.41                  | 8600.00   | 25610.00                                | 520.00                | 700.00         | 81.83                                    |
| May 2017       | 388.82   | 211.00                 | 0.00                     | 0.00                               | 177.82                  | 1090.00   | 64.00                                   | 0.00                  | 0.00           | 109.10                                   |
| June 2017      | 352.12   | 104.00                 | 0.00                     | 0.00                               | 248.12                  | 1800.00   | 16400.00                                | 12030.00              | 700.00         | 70.58                                    |
| July 2017      | 400.72   | 165.00                 | 0.00                     | 0.00                               | 235.72                  | 6500.00   | 12330.00                                | 4690.00               | 0.00           | 52.20                                    |
| August 2017    | 589.89   | 202.00                 | 0.00                     | 0.00                               | 387.89                  | 23330.00  | 27079.00                                | 5220.00               | 700.00         | 69.52                                    |
| September 2017 | 3347.18  | 1364.00                | 0.00                     | 0.00                               | 1983.18                 | 33379.00  | 29426.00                                | 3990.00               | 0.00           | 62.82                                    |
| October 2017   | 2384.86  | 984.00                 | 0.00                     | 0.00                               | 1400.86                 | 11842.00  | 34071.00                                | 5230.00               | 0.00           | 74.13                                    |
| November 2017  | 797.42   | 384.18                 | 0.00                     | 0.00                               | 413.24                  | 20210.00  | 25225.00                                | 4030.00               | 0.00           | 163.03                                   |
| December 2017  | 106.32   | 51.00                  | 0.00                     | 0.00                               | 55.32                   | 17650.00  | 19520.00                                | 3210.00               | 0.00           | 82.23                                    |
| January 2018   | 283.65   | 125.83                 | 0.00                     | 0.00                               | 157.82                  | 12900.00  | 15600.00                                | 12330.00              | 0.00           | 30.93                                    |
| February 2018  | 122.31   | 55.70                  | 0.00                     | 0.00                               | 66.61                   | 10950.00  | 13260.00                                | 6570.00               | 0.00           | 16.95                                    |
| March 2018     | 217.06   | 99.80                  | 0.00                     | 0.00                               | 117.26                  | 12260.00  | 12120.00                                | 5960.00               | 0.00           | 32.53                                    |
| April 2018     | 1118.36  | 460.58                 | 0.00                     | 0.00                               | 657.78                  | 16320.00  | 12590.00                                | 6280.00               | 0.00           | 33.90                                    |
| May 2018       | 475.54   | 198.85                 | 0.00                     | 0.00                               | 276.69                  | 15230.00  | 11024.00                                | 0.00                  | 0.00           | 40.02                                    |
| June 2018      | 684.10   | 256.50                 | 0.00                     | 0.00                               | 427.60                  | 14320.00  | 10260.00                                | 2630.00               | 0.00           | 43.01                                    |
| July 2018      | 93.99  | 42.00                  | 0.00                     | 0.00                               | 51.99                   | 11220.00  | 6200.00                                 | 0.00                  | 0.00           | 59.77                                    |
| August 2018    | 528.56   | 225.00                 | 0.00                     | 0.00                               | 303.56                  | 13620.00  | 33400.00                                | 26760.00              | 0.00           | 44.50                                    |
| September 2018 | 765.70   | 325.00                 | 0.00                     | 0.00                               | 440.70                  | 10600.00  | 4500.00                                 | 0.00                  | 0.00           | 41.82                                    |
| October 2018   | 0.00   | 0.00                   | 0.00                     | 0.00                               | 0.00                    | 0.00  | 2330.00                                 | 0.00                  | 0.00           | 109.49                                   |
| November 2018  | 77.71  | 0.00                   | 0.00                     | 0.00                               | 77.71                   | 0.00  | 0.00                                    | 0.00                  | 0.00           | 30.18                                    |
| December 2018  | 88.43  | 0.00                   | 0.00                     | 0.00                               | 88.43                   | 0.00  | 0.00                                    | 0.00                  | 0.00           | 5.72                                     |
| January 2019   | 21.13  | 0.00                   | 0.00                     | 0.00                               | 21.13                   | 0.00  | 0.00                                    | 0.00                  | 1880.00        | 4.55                                     |

| Month         | Actual Quantities of Inert C&D Materials Generated |                        |                          |                                    |                         | Actual Quantities of Non-inert C&D Materials (Construction Waste) Generated |   |                       |                |  |
|---------------|--|------------------------|--------------------------|------------------------------------|-------------------------|---|---|-----------------------|----------------|--|
|               | Total Quantity Generated                           | Reused in the Contract | Reused in other Projects | Hard Rocks & Large Broken Concrete | Disposed as Public Fill | Metals (see Note 1)   | Paper/ cardboard packaging (see Note 1) | Plastics (see Note 2) | Chemical Waste | Others, e.g. general refuse (see Note 3) |
|               | tonne  | tonne                  | tonne                    | tonne                              | tonne                   | kilogram  | kilogram                                | kilogram              | Litre          | tonne                                    |
| February 2019 | 326.44   | 0.00                   | 0.00                     | 0.00                               | 326.44                  | 0.00  | 0.00                                    | 0.00                  | 0.00           | 26.69                                    |
| March 2019    | 190.4  | 0.00                   | 0.00                     | 0.00                               | 190.40                  | 0.00  | 0.00                                    | 0.00                  | 0.00           | 16.45                                    |
| April 2019    | 199.71   | 0.00                   | 0.00                     | 0.00                               | 199.71                  | 0.00  | 0.00                                    | 0.00                  | 0.00           | 2.92                                     |
| <b>Total</b>  | <b>64836.84</b>                                    | <b>8222.28</b>         | <b>0.00</b>              | <b>0.00</b>                        | <b>56814.27</b>         | <b>605001.00</b>  | <b>418801.30</b>                        | <b>110360.00</b>      | <b>6695.00</b> | <b>2700.20</b>                           |

- Notes: (1) Metal and paper/cardboard packaging were collected by recycler for recycling.  
(2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material collected by recycler for recycling.  
(3) General refuse was disposed of at NENT by subcontractors.

Annex H2

## Operation Phase Waste Flow Table

**No. EP/SP/61/10 of Organic Resources Recovery Centre (Phase 1)  
Monthly Summary Waste Flow Table**

| Month        | Chemical Waste | Waste Generated from Pretreatment Process |                     |   |                       | General Refuse                       |             |                     |          |   |          |                       |          |
|--------------|----------------|---|---------------------|---|-----------------------|--------------------------------------|-------------|---------------------|----------|---|----------|-----------------------|----------|
|              |                | Disposed of at Landfill (see Note 1)      | Metals (see Note 2) | Paper/ cardboard packaging (see Note 2) | Plastics (see Note 3) | Disposed of at Landfill (see Note 1) |             | Metals (see Note 2) |          | Paper/ cardboard packaging (see Note 2) |          | Plastics (see Note 3) |          |
|              | Litre          | tonne                                     | kilogram            | kilogram                                | kilogram              | No. of collection                    | tonne       | No. of collection   | kilogram | No. of collection                       | kilogram | No. of collection     | kilogram |
| March 2019   | 1,200          | 477.08                                    | 0                   | 0                                       | 0                     | 26                                   | 1.50        | 0                   | 0        | 0                                       | 0        | 0                     | 0        |
| April 2019   | 0              | 455.60                                    | 0                   | 0                                       | 0                     | 22                                   | 1.27        | 0                   | 0        | 0                                       | 0        | 0                     | 0        |
| <b>Total</b> | <b>1,200</b>   | <b>932.68</b>                             | <b>0</b>            | <b>0</b>                                | <b>0</b>              | <b>48</b>                            | <b>2.76</b> | <b>0</b>            | <b>0</b> | <b>0</b>                                | <b>0</b> | <b>0</b>              | <b>0</b> |

Notes:

1. General refuse was disposed of at NENT by subcontractors.
2. Metal and paper/cardboard packaging were collected by recycler for recycling.
3. Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material collected by recycler for recycling.
4. It was assumed that two 240-litre bins filled with 80% of general refuse were collected at each collection. The general refuse density was assumed to be around 0.15 kg/L.