

Name of Department: HyD

Contract No. / Works Order No.: HY/2012/08

Monthly Summary Waste Flow Table for May 2014 [to be submitted not later than the 15<sup>th</sup> day of each month following reporting month]

(All quantities shall be rounded off to 3 decimal places.)

| Month          | Actual Quantities of <u>Inert</u> Construction Waste Generated Monthly |  |                               |                                 |                                   |
|----------------|--|--|-------------------------------|---------------------------------|-----------------------------------|
|                | (a)=(b)+(c)+(d)+(e)<br>Total Quantity Generated                        | (b)<br>Hard Rock and Large Broken Concrete | (c)<br>Reused in the Contract | (d)<br>Reused in other Projects | (e)<br>Disposed of as Public Fill |
|                | (in '000 ton)  | (in '000 ton)                              | (in '000 ton)                 | (in '000 ton)                   | (in '000 ton)                     |
| 2013 Sub-total | 3.718  | 0.000                                      | 0.000                         | 0.000                           | 3.718                             |
| Jan            | 9.012  | 0.000                                      | 0.000                         | 0.000                           | 9.012                             |
| Feb            | 0.000  | 0.000                                      | 0.000                         | 0.000                           | 0.000                             |
| Mar            | 0.105  | 0.000                                      | 0.000                         | 0.000                           | 0.105                             |
| Apr            | 0.022  | 0.000                                      | 0.000                         | 0.000                           | 0.022                             |
| May            | 1.016  | 0.000                                      | 0.000                         | 0.000                           | 1.016                             |
| Jun            |  |  |                               |                                 |                                   |
| Sub-total      |  |  |                               |                                 |                                   |
| Jul            |  |  |                               |                                 |                                   |
| Aug            |  |  |                               |                                 |                                   |
| Sep            |  |  |                               |                                 |                                   |
| Oct            |  |  |                               |                                 |                                   |
| Nov            |  |  |                               |                                 |                                   |
| Dec            |  |  |                               |                                 |                                   |
| Total          | 13.873   | 0.000                                      | 0.000                         | 0.000                           | 13.873                            |

| Month          | Actual Quantities of <u>Inert</u> Construction Waste Generated Monthly |  |   |   |   |                                   |                             |  |
|----------------|--|--|---|---|---|-----------------------------------|-----------------------------|--|
|                | Imported Fill to<br>WA 23 & Reclamation<br>Area (Rockfill 400)         | Imported Fill to<br>WA 23 & Reclamation<br>Area (Rockfill 200) | Imported Fill to<br>WA 23 & Reclamation<br>Area (Rockfill Type A) | Imported Fill to<br>Reclamation Area<br>(Public Fill)<br>(by Barge) | Imported Fill to<br>Reclamation Area<br>(Public Fill)<br>(by Truck) | Imported Fill to<br>Barging Point | Marine Disposal<br>(Cat. L) | Marine Disposal<br>(Cat. M <sub>P</sub> & M <sub>F</sub> ) |
|                | (in '000 ton)  | (in '000 ton)  | (in '000 ton)   | (in '000 ton)   | (in '000 ton)   | (in '000 ton)                     | (in '000 m <sup>3</sup> )   | (in '000 m <sup>3</sup> )                                  |
| 2013 Sub-total | 211.541  | 2.508  | 19.460  | 0.000   | 0.000   | 45.472                            | 61.600                      | 18.200   |
| Jan            | 177.300  | 4.050  | 8.544   | 0.000   | 0.000   | 124.412                           | 34.000                      | 12.500   |
| Feb            | 143.891  | 27.825   | 5.371   | 0.000   | 0.000   | 81.296                            | 18.500                      | 24.500   |
| Mar            | 257.304  | 53.388   | 27.958  | 113.789   | 0.000   | 63.961                            | 37.300                      | 40.450   |
| Apr            | 198.245  | 10.186   | 41.702  | 191.094   | 0.000   | 26.640                            | 28.600                      | 15.400   |
| May            | 236.816  | 4.612  | 65.308  | 150.749   | 43.718  | 15.165                            | 18.700                      | 29.150   |
| Jun            |  |  |   |   |   |                                   |                             |  |
| Sub-total      |  |  |   |   |   |                                   |                             |  |
| Jul            |  |  |   |   |   |                                   |                             |  |
| Aug            |  |  |   |   |   |                                   |                             |  |
| Sep            |  |  |   |   |   |                                   |                             |  |
| Oct            |  |  |   |   |   |                                   |                             |  |
| Nov            |  |  |   |   |   |                                   |                             |  |
| Dec            |  |  |   |   |   |                                   |                             |  |
| Total          | 1225.097   | 102.569  | 168.343   | 455.632   | 43.718  | 356.946                           | 198.700                     | 140.200  |

| Month          | Actual Quantities of <u>Non-inert</u> Construction Waste Generated Monthly |          |                            |          |                          |          |                |          |   |
|----------------|--|----------|----------------------------|----------|--------------------------|----------|----------------|----------|---|
|                | Metals   |          | Paper/ cardboard packaging |          | Plastics<br>(see Note 3) |          | Chemical Waste |          | Others, e.g. General Refuse<br>disposed at Landfill |
|                | (in '000kg)  |          | (in '000kg)                |          | (in '000kg)              |          | (in '000kg)    |          | (in '000ton)  |
|                | generated  | recycled | generated                  | recycled | generated                | recycled | generated      | recycled | generated   |
| 2013 Sub-total | 0.000  | 0.000    | 0.380                      | 0.380    | 0.000                    | 0.000    | 0.000          | 0.000    | 0.172   |
| Jan            | 0.000  | 0.000    | 0.130                      | 0.130    | 0.000                    | 0.000    | 0.000          | 0.000    | 0.045   |
| Feb            | 0.000  | 0.000    | 0.000                      | 0.000    | 0.000                    | 0.000    | 0.020          | 0.020    | 0.028   |
| Mar            | 0.000  | 0.000    | 0.000                      | 0.000    | 0.000                    | 0.000    | 0.000          | 0.000    | 0.036   |
| Apr            | 0.000  | 0.000    | 0.160                      | 0.160    | 0.000                    | 0.000    | 0.000          | 0.000    | 0.026   |
| May            | 0.000  | 0.000    | 0.000                      | 0.000    | 0.000                    | 0.000    | 0.000          | 0.000    | 0.042   |
| Jun            |  |          |                            |          |                          |          |                |          |   |
| Sub-total      |  |          |                            |          |                          |          |                |          |   |
| Jul            |  |          |                            |          |                          |          |                |          |   |
| Aug            |  |          |                            |          |                          |          |                |          |   |
| Sep            |  |          |                            |          |                          |          |                |          |   |
| Oct            |  |          |                            |          |                          |          |                |          |   |
| Nov            |  |          |                            |          |                          |          |                |          |   |
| Dec            |  |          |                            |          |                          |          |                |          |   |
| Total          | 0.000  | 0.000    | 0.670                      | 0.670    | 0.000                    | 0.000    | 0.020          | 0.020    | 0.349   |

| Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract* |                                     |                        |                          |                            |               |                           |                           |
|--|-------------------------------------|------------------------|--------------------------|----------------------------|---------------|---------------------------|---------------------------|
| Total Quantity Generated   | Hard Rock and Large Broken Concrete | Reused in the Contract | Reused in other Projects | Disposed of as Public Fill | Imported Fill | Marine Disposal (Cat. L)  | Marine Disposal (Cat. M)  |
| (in '000 ton)  | (in '000 ton)                       | (in '000 ton)          | (in '000 ton)            | (in '000 ton)              | (in '000 ton) | (in '000 m <sup>3</sup> ) | (in '000 m <sup>3</sup> ) |
| 5.000  | 0.000                               | 0.000                  | 0.000                    | 5.000                      | 180.000       | 5.000                     | 40.000                    |

| Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract* |                            |                       |                |  |
|--|----------------------------|-----------------------|----------------|--|
| Metals   | Paper/ cardboard packaging | Plastics (see Note 3) | Chemical Waste | General Refuse disposed of at Landfill |
| (in '000kg)  | (in '000kg)                | (in '000kg)           | (in '000kg)    | (in '000m <sup>3</sup> )               |
| 0.000  | 0.050                      | 0.000                 | 0.000          | 0.100                                  |

- Notes:
- (1) The performance targets are given in the **ER Appendix 8J Clause 14** and the EM & A Manual(s).
  - (2) The waste flow table shall also include C&D materials to be imported for use at the Site.
  - (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
  - (4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m<sup>3</sup>. (**ER Part 8 Clause 8.8.5 (d) (ii)** refers).