

# MATERIALAB CONSULTANTS LIMITED

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The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The text is white and is set against a black rectangular background that has horizontal bars extending to the left and right, creating a stylized, framed effect.

Report No.: 0165/15/ED/0798

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## Appendix E

### Waste Flow Table



### Monthly Summary of Waste Flow Table for 2017 (year)

Name of Person completing the Record: Marko Chan

| Month        | Actual Quantities of Inert C&D Materials Generated Monthly |                          |                          |                          |                          | Actual Quantities of Non-inert C&D Wastes Generated Monthly |                            |              |                |                             |
|--------------|--|--------------------------|--------------------------|--------------------------|--------------------------|---|----------------------------|--------------|----------------|-----------------------------|
|              | Total Quantity Generated                                   | Broken Concrete          | Reused in the Contract   | Reused in other Projects | Disposed as Public Fill  | Metals  | Paper/ cardboard packaging | Plastics     | Chemical Waste | Others, e.g. general refuse |
|              |  | (see Note 1)             |                          |                          |                          |   |                            | (see Note 2) |                |                             |
|              | (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 '000 Kg)               | (in '000 Kg) | (in '000 Kg)   | (in '000m <sup>3</sup> )    |
| Jan          | 0.000  | 0                        | 0                        | 0                        | 0.000                    | 0   | 0                          | 0            | 0              | 0.580                       |
| Feb          | 0.000  | 0                        | 0                        | 0                        | 0.000                    | 0   | 0                          | 0            | 0              | 0.585                       |
| Mar          | 0.000  | 0                        | 0                        | 0                        | 0.000                    | 0   | 0                          | 0            | 0              | 0.999                       |
| Apr          | 0.043  | 0                        | 0                        | 0                        | 0.043                    | 0   | 0                          | 0            | 0              | 1.073                       |
| May          | 12.682   | 0                        | 0                        | 12.637                   | 0.045                    | 0   | 0                          | 0            | 0              | 1.321                       |
| Jun          |  |                          |                          |                          |                          |   |                            |              |                |                             |
| Jul          |  |                          |                          |                          |                          |   |                            |              |                |                             |
| Aug          |  |                          |                          |                          |                          |   |                            |              |                |                             |
| Sept         |  |                          |                          |                          |                          |   |                            |              |                |                             |
| Oct          |  |                          |                          |                          |                          |   |                            |              |                |                             |
| Nov          |  |                          |                          |                          |                          |   |                            |              |                |                             |
| Dec          |  |                          |                          |                          |                          |   |                            |              |                |                             |
| <b>Total</b> | <b>12.725</b>  | <b>0.000</b>             | <b>0.000</b>             | <b>12.637</b>            | <b>0.088</b>             | <b>0.000</b>  | <b>0.000</b>               | <b>0.000</b> | <b>0.000</b>   | <b>4.558</b>                |

Notes:

- (1) Broken concrete for recycling into aggregates.
- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (3) In order to convert the quantities of inert C&D materials reused in other projects (29,065 tonnes) from tonnes to m<sup>3</sup>, a conversion factor is used and shown as follows:  

$$\text{Volume (in m}^3\text{)} = \text{Mass (in tonnes)} / 2.3 \text{ (in tonnes/ m}^3\text{)}$$
 Where 2.3 (in tonnes/ m<sup>3</sup>) is the density of surplus filling materials provided by the Contractor

## Monthly Summary of Excavated Marine Sediment for 2017 (year)

| Month        | Total Quantity of Excavated Marine Sediment Generated<br>in '000m <sup>3</sup> | Reused in this contract<br>in '000m <sup>3</sup> | Reused in other Projects<br>in '000m <sup>3</sup> | Disposed of at CMP<br>in '000m <sup>3</sup> |
|--------------|--|--|---|---|
| Jan          | 0.656  | 0.000  | 0.000   | 0.656                                       |
| Feb          | 0.264  | 0.000  | 0.000   | 0.264                                       |
| Mar          | 0.000  | 0.000  | 0.000   | 0.000                                       |
| Apr          | 1.288  | 0.000  | 0.000   | 1.288                                       |
| May          | 1.440  | 0.000  | 0.000   | 1.440                                       |
| Jun          |  |  |   |   |
| Jul          |  |  |   |   |
| Aug          |  |  |   |   |
| Sep          |  |  |   |   |
| Oct          |  |  |   |   |
| Nov          |  |  |   |   |
| Dec          |  |  |   |   |
| <b>Total</b> | <b>3.648</b>   | <b>0.000</b>                                     | <b>0.000</b>                                      | <b>3.648</b>                                |



ATAL Technologies Ltd.

Contract No. HY/2013/06 HKBCF Automatic Vehicle Clearance Support System

Location: Artificial Island of HKIAP (C3 Area)

Ver: 1st  
Date: Jan 2017

**Monthly Summary Waste Flow Table for 2017**

| Month        | Inert C&D Waste disposal / 墮性廢物<br>(in tonnes) (see Note 1)        |                   |                                     |                   |   |                   | Non-inert C&D Waste disposal<br>非墮性廢物<br>(in tonnes)                      |                   | Waste to be recycled and returned / 可再循環利用或回收的廢物 |                   |                   |                   |                                      |                   |                        |                   | Total Quantity Generated<br>總生產量 |              |                   |
|--------------|--|-------------------|-------------------------------------|-------------------|---|-------------------|---|-------------------|--|-------------------|-------------------|-------------------|--------------------------------------|-------------------|------------------------|-------------------|----------------------------------|--------------|-------------------|
|              | Reused in the Work Package<br>(e.g. backfilling)<br>再用於工程<br>(如回填) |                   | Reused in other Projects<br>再用於其他工程 |                   | Inert Waste<br>(e.g. soil, broken concrete, rubble, fill material etc.)<br>墮性廢物<br>(如泥, 石, 磚, 瓦, 填料等) |                   | Others<br>(e.g. general refuse, broken formwork etc)<br>其他<br>(如垃圾, 廢板枋等) |                   | Metals<br>金屬                                     |                   | Plastic<br>塑膠     |                   | Paper/cardboard packaging<br>廢紙/包裝紙類 |                   | Chemical Waste<br>化學廢物 |                   |                                  |              |                   |
|              | (b)  |                   | (c)                                 |                   | (d)   |                   | (e)   |                   | (in tonnes)                                      |                   | (in tonnes)       |                   | (in tonnes)                          |                   | (in litre)             |                   |                                  |              |                   |
|              | Est. Qty.<br>估計數量  | Act. Qty.<br>實際數量 | Est. Qty.<br>估計數量                   | Act. Qty.<br>實際數量 | Est. Qty.<br>估計數量   | Act. Qty.<br>實際數量 | Est. Qty.<br>估計數量   | Act. Qty.<br>實際數量 | Est. Qty.<br>估計數量                                | Act. Qty.<br>實際數量 | Est. Qty.<br>估計數量 | Act. Qty.<br>實際數量 | Est. Qty.<br>估計數量                    | Act. Qty.<br>實際數量 | Est. Qty.<br>估計數量      | Act. Qty.<br>實際數量 |                                  |              | Est. Qty.<br>估計數量 |
| January      | 0.000  | 0.000             | 0.000                               | 0.000             | 0.000   | 0.000             | 0.000   | 0.000             | 0.000  | 0.000             | 0.000             | 0.000             | 0.000                                | 0.002             | 0.002                  | 0.000             | 0.000                            | 0.000        | 0.000             |
| February     | 0.000  | 0.000             | 0.000                               | 0.000             | 0.000   | 0.000             | 0.000   | 0.000             | 0.000  | 0.000             | 0.000             | 0.000             | 0.002                                | 0.002             | 0.000                  | 0.000             | 0.000                            | 0.000        |                   |
| March        | 0.000  | 0.000             | 0.000                               | 0.000             | 0.000   | 0.000             | 0.002   | 0.002             | 0.005  | 0.005             | 0.000             | 0.000             | 0.000                                | 0.000             | 0.000                  | 0.000             | 0.002                            | 0.002        |                   |
| April        | 0.000  | 0.000             | 0.000                               | 0.000             | 0.000   | 0.000             | 0.005   | 0.005             | 0.005  | 0.005             | 0.000             | 0.000             | 0.000                                | 0.000             | 0.000                  | 0.000             | 0.005                            | 0.005        |                   |
| <b>May</b>   | <b>0.000</b>   | <b>0.000</b>      | <b>0.000</b>                        | <b>0.000</b>      | <b>0.000</b>  | <b>0.000</b>      | <b>0.020</b>  | <b>0.020</b>      | <b>0.020</b>                                     | <b>0.020</b>      | <b>0.000</b>      | <b>0.000</b>      | <b>0.000</b>                         | <b>0.000</b>      | <b>0.000</b>           | <b>0.000</b>      | <b>0.020</b>                     | <b>0.020</b> |                   |
| June         |  |                   |                                     |                   |   |                   |   |                   |  |                   |                   |                   |                                      |                   |                        |                   |                                  |              |                   |
| July         |  |                   |                                     |                   |   |                   |   |                   |  |                   |                   |                   |                                      |                   |                        |                   |                                  |              |                   |
| August       |  |                   |                                     |                   |   |                   |   |                   |  |                   |                   |                   |                                      |                   |                        |                   |                                  |              |                   |
| September    |  |                   |                                     |                   |   |                   |   |                   |  |                   |                   |                   |                                      |                   |                        |                   |                                  |              |                   |
| October      |  |                   |                                     |                   |   |                   |   |                   |  |                   |                   |                   |                                      |                   |                        |                   |                                  |              |                   |
| November     |  |                   |                                     |                   |   |                   |   |                   |  |                   |                   |                   |                                      |                   |                        |                   |                                  |              |                   |
| December     |  |                   |                                     |                   |   |                   |   |                   |  |                   |                   |                   |                                      |                   |                        |                   |                                  |              |                   |
| <b>Total</b> | <b>0.000</b>   | <b>0.000</b>      | <b>0.000</b>                        | <b>0.000</b>      | <b>0.000</b>  | <b>0.000</b>      | <b>0.027</b>  | <b>0.027</b>      | <b>0.030</b>                                     | <b>0.030</b>      | <b>0.000</b>      | <b>0.000</b>      | <b>0.004</b>                         | <b>0.004</b>      | <b>0.000</b>           | <b>0.000</b>      | <b>0.027</b>                     | <b>0.027</b> |                   |

Notes: (1) The quantities of C&D Materials, in tonne, was calculated by multiply the estimated volume, in m3, with the density of the soil, which is 1.5 gcm<sup>-3</sup>.