

## **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 above and below it.

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Report No.: 0165/15/ED/0662

### **Appendix E**

### **Waste Flow Table**



**Monthly Summary of Waste Flow Table for 2016 (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   | 0.992                      | 0            | 0              | 0.073                       |
| Feb          | 0.000  | 0                        | 0                        | 0                        | 0.000                    | 0   | 0                          | 0            | 0              | 0.093                       |
| Mar          | 0.087  | 0                        | 0                        | 0                        | 0.087                    | 0   | 0.392                      | 0            | 0              | 0.200                       |
| Apr          | 0.184  | 0                        | 0                        | 0                        | 0.184                    | 0   | 0.411                      | 0            | 0              | 0.224                       |
| May          | 0.203  | 0                        | 0                        | 0                        | 0.203                    | 0   | 0                          | 0            | 0              | 0.293                       |
| Jun          | 0.244  | 0                        | 0                        | 0                        | 0.244                    | 0   | 0.413                      | 0            | 0              | 0.322                       |
| Jul          | 2.429  | 0                        | 0                        | 0                        | 2.429                    | 0   | 0.419                      | 0            | 0              | 0.312                       |
| Aug          | 0.057  | 0                        | 0                        | 0                        | 0.057                    | 0   | 0.340                      | 0            | 0              | 0.288                       |
| Sept         | 0.000  | 0                        | 0                        | 0                        | 0.000                    | 0   | 0                          | 0            | 0              | 0.327                       |
| Oct          | 0.379  | 0                        | 0                        | 0                        | 0.379                    | 0   | 0.400                      | 0            | 0              | 0.332                       |
| Nov          | 0.229  | 0                        | 0                        | 0                        | 0.229                    | 0   | 0.389 <sup>(3)</sup>       | 0            | 0              | 0.644                       |
| Dec          | 0.161  | 0                        | 0                        | 0                        | 0.161                    | 0   | 0.406                      | 0            | 0              | 0.663                       |
| <b>Total</b> | <b>3.973</b>   | <b>0.000</b>             | <b>0.000</b>             | <b>0.000</b>             | <b>3.973</b>             | <b>0.000</b>  | <b>4.162</b>               | <b>0.000</b> | <b>0.000</b>   | <b>3.771</b>                |

Notes:

- (1) Broken concrete for recycling into aggregates.
- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (3) 0.389 (in '000 Kg) of paper/cardboard packaging was updated compared to previous monthly report.

## Monthly Summary of Excavated Marine Sediment for 2016 (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          | 1.950  | 0  | 0   | 1.950                                       |
| Feb          | 2.328  | 0  | 0   | 2.328                                       |
| Mar          | 2.464  | 0  | 0   | 2.464                                       |
| Apr          | 5.602  | 0  | 0   | 5.602                                       |
| May          | 0  | 0  | 0   | 0   |
| Jun          | 4.584  | 0  | 0   | 4.584                                       |
| Jul          | 10.728   | 0  | 0   | 10.728                                      |
| Aug          | 1.544  | 0  | 0   | 1.544                                       |
| Sep          | 6.816  | 0  | 0   | 6.816                                       |
| Oct          | 2.376  | 0  | 0   | 2.376                                       |
| Nov          | 0  | 0  | 0   | 0   |
| Dec          | 2.792 (Cat.L)  | 0  | 0   | 2.792 (Cat.L)                               |
|              | 4.960  | 0  | 0   | 4.960                                       |
| <b>Total</b> | <b>46.144</b>  | <b>0.000</b>                                     | <b>0.000</b>                                      | <b>46.144</b>                               |

Note: All sediments are in Type II disposal method except Cat L (in Type I)

### Monthly Summary Waste Flow Table

Project name 工程項目名稱 : Contract No. HY/2013/06 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities-Automatic Vehicle Clearance Support System

Location 工程地點: Artificial Island of HKIAP

Year: 2016

| Month        | Inert C&D Waste disposal 墮性廢物 (in tonnes) (see Note 1)      |              |                                    |              |  |              | Non-inert C&D Waste disposal / 非墮性廢物 (in tonnes)                    |              | Waste to be recycled and returned / 可再循環利用或回收的廢物 |              |              |              |                                     |              |                       |              | Total Quantity Generated / 總生產量 |              |              |
|--------------|---|--------------|------------------------------------|--------------|--|--------------|---|--------------|--|--------------|--------------|--------------|-------------------------------------|--------------|-----------------------|--------------|---------------------------------|--------------|--------------|
|              | Reused in the Work Package (e.g. backfilling) / 再用於工程 (如回填) |              | Reused in other Projects / 再用於其他工程 |              | Inert Waste (e.g. soil, broken concrete, rubble, fill material etc.) / 墮性廢物 (如泥, 石, 填料等) |              | Others, (e.g. general refuse, broken formwork etc) / 其他 (如垃圾, 廢板枋等) |              | Metals / 金屬                                      |              | Plastic / 塑膠 |              | Paper/cardboard packaging / 廢紙/包裝紙類 |              | Chemical Waste / 化學廢物 |              |                                 |              |              |
|              | (b)   |              | (c)                                |              | (d)  |              | (e)   |              | (in tonnes)                                      |              | (in tonnes)  |              | (in tonnes)                         |              | (in litre)            |              | (a)= (b+c+d+e)                  |              |              |
|              | Est./ 估計數量)   | Act./ (實際數量) | Est./ 估計數量)                        | Act./ (實際數量) | Est./ 估計數量)  | Act./ (實際數量) | Est./ 估計數量)   | Act./ (實際數量) | Est./ 估計數量)                                      | Act./ (實際數量) | Est./ 估計數量)  | Act./ (實際數量) | Est./ 估計數量)                         | Act./ (實際數量) | Est./ 估計數量)           | Act./ (實際數量) | Est./ 估計數量)                     | Act./ (實際數量) |              |
| January      |   |              |                                    |              |  |              |   |              |  |              |              |              |                                     |              |                       |              |                                 |              |              |
| February     |   |              |                                    |              |  |              |   |              |  |              |              |              |                                     |              |                       |              |                                 |              |              |
| March        |   |              |                                    |              |  |              |   |              |  |              |              |              |                                     |              |                       |              |                                 |              |              |
| April        |   |              |                                    |              |  |              |   |              |  |              |              |              |                                     |              |                       |              |                                 |              |              |
| May          |   |              |                                    |              |  |              |   |              |  |              |              |              |                                     |              |                       |              |                                 |              |              |
| June         |   |              |                                    |              |  |              |   |              |  |              |              |              |                                     |              |                       |              |                                 |              |              |
| July         |   |              |                                    |              |  |              |   |              |  |              |              |              |                                     |              |                       |              |                                 |              |              |
| August       |   |              |                                    |              |  |              |   |              |  |              |              |              |                                     |              |                       |              |                                 |              |              |
| September    | N/A   | N/A          | N/A                                | N/A          | N/A  | N/A          | N/A   | N/A          | N/A  | N/A          | N/A          | N/A          | N/A                                 | 0.002        | 0.002                 | N/A          | N/A                             | 0.002        | 0.002        |
| October      | N/A   | N/A          | N/A                                | N/A          | N/A  | N/A          | N/A   | N/A          | N/A  | N/A          | N/A          | N/A          | N/A                                 | 0.002        | 0.002                 | N/A          | N/A                             | 0.002        | 0.002        |
| November     | N/A   | N/A          | N/A                                | N/A          | N/A  | N/A          | N/A   | N/A          | N/A  | N/A          | N/A          | N/A          | N/A                                 | 0.002(2)     | 0.002(2)              | N/A          | N/A                             | 0.002        | 0.002        |
| December     | N/A   | N/A          | N/A                                | N/A          | N/A  | N/A          | N/A   | N/A          | N/A  | N/A          | N/A          | N/A          | N/A                                 | 0.002        | 0.002                 | N/A          | N/A                             | 0.002        | 0.002        |
| <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>0.000</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>0.008</b> | <b>0.008</b>          | <b>0.000</b> | <b>0.000</b>                    | <b>0.008</b> | <b>0.008</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>.  
 (2) 0.002 (in tonnes) of paper/cardboard packaging was updated compared to previous monthly report.