

Table 3 - Sediment Analysis and Classification

(A) Summary Results of Heavy Metal Analysis

Location : Lei Yue Mun

| Client Reference Drillhole No. | Sample | | | Type | Specimen Depth, m | Cd | Cr | Cu | Ni | Pb | Zn | Hg | As | Ag | PAH (LMW) ug/kg | PAH (HMW) ug/kg | PCB ug/kg | TBT ug/kg |
|-----------------------------------|--------|------|------|------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------|-----------------------|--------------|--------------|
| | No. | From | To | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | ug/kg | ug/kg |
| | | | | | Reporting Limit | 0.1 | 1 | 1 | 1 | 1 | 10 | 0.05 | 1 | 0.1 | 55 | 170 | 3 | 0.015 |
| | | | | | LCEL | 1.5 | 80 | 65 | 40 | 75 | 200 | 0.5 | 12 | 1 | 550 | 1700 | 23 | 0.15 |
| | | | | | UCEL | 4 | 160 | 110 | 40 | 110 | 270 | 1 | 42 | 2 | 3160 | 9600 | 180 | 0.15 |
| BH7 | NA | 1.50 | 1.95 | | NA | <0.20 | <8.0 | 14 | 6.9 | 12 | 300 | 0.08 | 1.6 | <0.10 | <55 | <170 | <3 | < |
| BH7 | NA | 2.00 | 2.45 | | NA | <0.20 | <8.0 | 18 | <4.0 | 13 | 120 | 0.13 | <1.0 | <0.10 | <55 | <170 | <3 | < |
| BH5 | NA | 1.50 | 1.95 | | NA | <0.20 | <8.0 | 14 | <4.0 | 45 | 720 | 0.06 | 2.0 | <0.10 | <55 | <170 | <3 | < |
| BH5 | NA | 2.00 | 2.45 | | NA | <0.20 | <8.0 | 42 | 5.1 | 29 | 180 | 0.08 | 1.5 | <0.10 | <55 | <170 | <3 | < |
| BH3 | NA | 3.00 | 3.45 | | NA | <0.20 | 13 | 160 | 14 | 62 | 460 | 0.07 | 6.3 | <0.10 | <55 | <170 | <3 | < |
| BH3 | NA | 3.50 | 3.95 | | NA | <0.20 | 23 | 100 | 11 | 51 | 250 | 0.08 | 5.1 | <0.10 | <55 | <170 | <3 | < |
| BH3 | NA | 4.00 | 4.45 | | NA | <0.20 | 13 | 49 | 13 | 39 | 310 | 0.08 | 5.9 | <0.10 | <55 | <170 | <3 | < |
| BH3 | NA | 4.50 | 4.95 | | NA | <0.20 | <8.0 | <7.0 | <4.0 | 28 | 51 | <0.05 | 4.2 | <0.10 | <55 | <170 | <3 | < |
| BH3 | NA | 5.50 | 5.95 | | NA | <0.20 | 32 | 65 | 5.8 | 78 | 210 | 0.05 | 3.1 | <0.10 | <55 | <170 | <3 | < |
| BH3 | NA | 6.00 | 6.45 | | NA | <0.20 | <8.0 | 7.1 | <4.0 | 14 | 95 | <0.05 | 1.7 | <0.10 | <55 | <170 | <3 | < |
| BH3 | NA | 8.00 | 8.45 | | NA | <0.20 | <8.0 | <7.0 | <4.0 | 13 | <20 | <0.05 | 1.7 | <0.10 | <55 | <170 | <3 | < |
| R.Sediment | NA | NA | NA | | NA | <0.20 | 22 | 14 | 16 | 33 | 66 | 0.12 | 5.6 | 0.12 | <55 | <170 | <3 | < |

(B) Sediment Classification in respect of ETWB TC 34/2002

Location : Lei Yue Mun

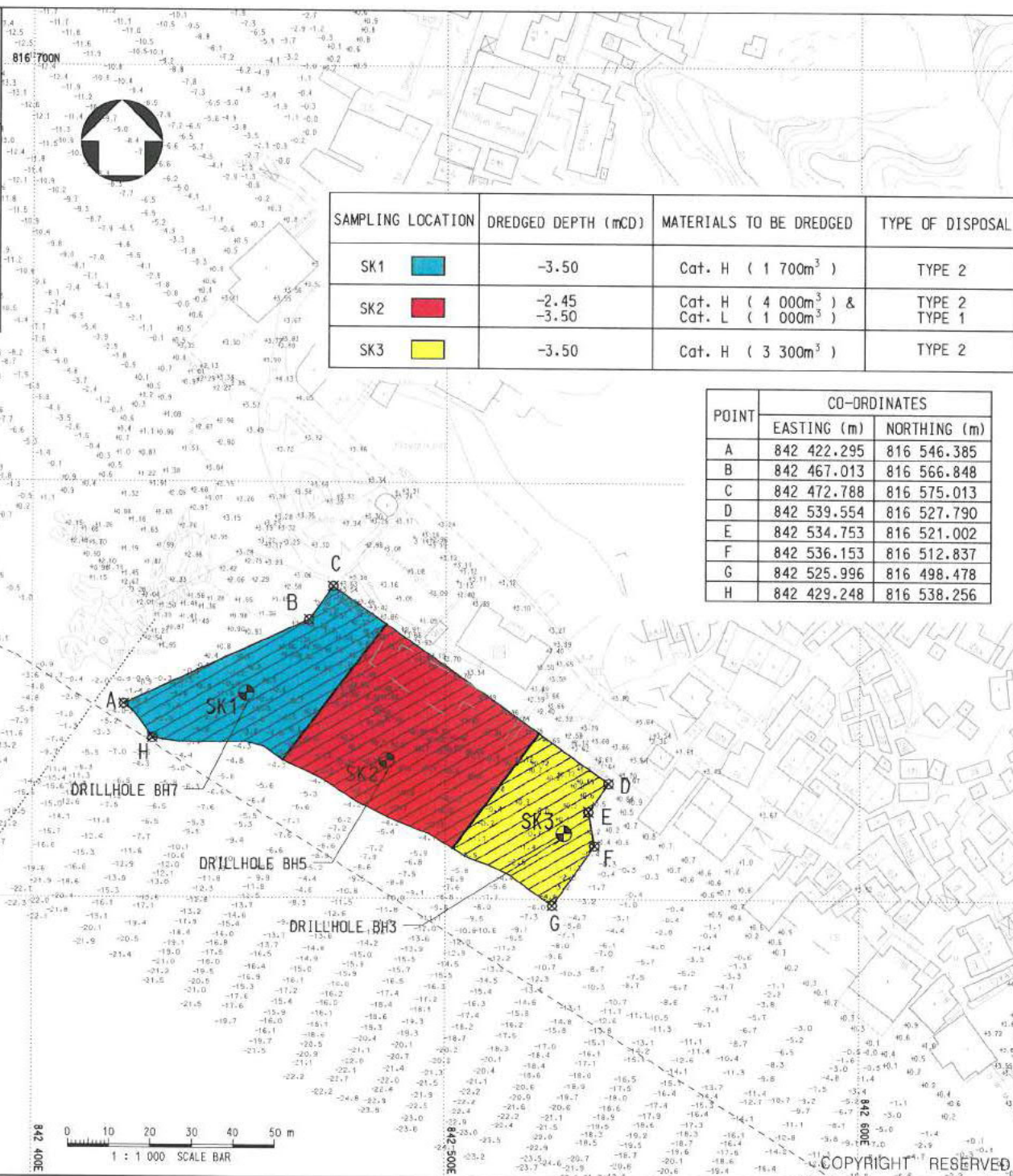
| Drill Hole | Depth (m) | Cd | Cr | Cu | Ni | Pb | Zn | Hg | As | Ag | PAH (L) | PAH(H) | PCB | TBT | C/S |
|------------|-------------|-----|-----|-----|-----|----|-----|-----|-----|-----|---------|--------|-----|-----|-----|
| BH7 | 1.50 - 1.95 | <RL | <RL | L | L | L | H | L | L | <RL | <RL | <RL | <RL | <RL | H |
| BH7 | 2.00 - 2.45 | <RL | <RL | L | <RL | L | L | L | <RL | <RL | <RL | <RL | <RL | <RL | L |
| BH5 | 1.50 - 1.95 | <RL | <RL | L | <RL | L | H | L | L | <RL | <RL | <RL | <RL | <RL | H |
| BH5 | 2.00 - 2.45 | <RL | <RL | L | L | L | L | L | L | <RL | <RL | <RL | <RL | <RL | L |
| BH3 | 3.00 - 3.45 | <RL | L | H | L | L | H | L | L | <RL | <RL | <RL | <RL | <RL | L |
| BH3 | 3.50 - 3.95 | <RL | L | M | L | L | M | L | L | <RL | <RL | <RL | <RL | <RL | M |
| BH3 | 4.00 - 4.45 | <RL | L | L | L | L | H | L | L | <RL | <RL | <RL | <RL | <RL | H |
| BH3 | 4.50 - 4.95 | <RL | <RL | <RL | <RL | L | L | <RL | L | <RL | <RL | <RL | <RL | <RL | L |
| BH3 | 5.50 - 5.95 | <RL | L | L | L | M | M | L | L | <RL | <RL | <RL | <RL | <RL | M |
| BH3 | 6.00 - 6.45 | <RL | <RL | L | <RL | L | L | <RL | L | <RL | <RL | <RL | <RL | <RL | L |
| BH3 | 8.00 - 8.45 | <RL | <RL | <RL | <RL | L | <RL | <RL | L | <RL | <RL | <RL | <RL | <RL | L |
| R.Sediment | NA | <RL | L | L | L | L | L | L | L | L | <RL | <RL | <RL | <RL | L |

Cat L = 6
 Cat M = 2
 Cat H = 4
 12

**Table 4
Dredged depths of different categories of sediment**

| Drillhole | Scabed level (mCD) | Sampling depth (m) | Corresponding sampling levels (mCD) | Dredged depth (mCD) | Sediment Classification | Disposal Type |
|-----------|--------------------|--------------------|--|----------------------|-------------------------|---------------|
| BH7 | -1.95 | 1.50 – 1.95 | -3.45 to -3.90 | -3.50 | Cat. H | Type 2 |
| BH7 | -1.95 | 2.00 – 2.45 | -3.95 to -4.40 | (No need to dredged) | Cat. L | Type 1 |
| BH5 | -0.45 | 1.50 – 1.95 | -1.95 to -2.40 | -2.40 | Cat. H | Type 2 |
| BH5 | -0.45 | 2.00 – 2.45 | -2.45 to -2.90 | -2.90 | Cat. L | Type 1 |
| BH5 | -0.45 | - | - | -3.50 | Cat. L (assume) | Type 1 |
| BH3 | -0.25 | 3.00 – 3.45 | -3.25 to -3.70 | -3.50 | Cat. H | Type 2 |

It can be seen that according to a dredged depth of -3.5mCD, it is only the first sampling layer of sediment at BH7 and BH3 needs to be dredged. For BH5, the sampling depth was only down to -2.90mCD (higher than dredged depth -3.5mCD). It is assumed that the dredging material at BH5 from -2.90 to -3.5mCD is also Cat.L.



| SAMPLING LOCATION | DREDGED DEPTH (mCD) | MATERIALS TO BE DREDGED | TYPE OF DISPOSAL |
|-------------------|---------------------|--|------------------|
| SK1 | -3.50 | Cat. H (1 700m ³) | TYPE 2 |
| SK2 | -2.45 -3.50 | Cat. H (4 000m ³) & Cat. L (1 000m ³) | TYPE 2 TYPE 1 |
| SK3 | -3.50 | Cat. H (3 300m ³) | TYPE 2 |

| POINT | CO-ORDINATES | |
|-------|--------------|--------------|
| | EASTING (m) | NORTHING (m) |
| A | 842 422.295 | 816 546.385 |
| B | 842 467.013 | 816 566.848 |
| C | 842 472.788 | 816 575.013 |
| D | 842 539.554 | 816 527.790 |
| E | 842 534.753 | 816 521.002 |
| F | 842 536.153 | 816 512.837 |
| G | 842 525.996 | 816 498.478 |
| H | 842 429.248 | 816 538.256 |

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES.
 2. ALL CO-ORDINATES REFER TO HONG KONG GEODETIC DATUM 1980 AND ARE IN METRES.
 3. ALL LEVELS REFER TO CHART DATUM (C.D.) AND ARE IN METRES.

LEGEND:
 PROPOSED DREDGING AREA TO -3.5m C.D.

PROVISIONAL
 SUBJECT TO AMENDMENTS

| no. | date | description | checked | approved |
|----------|------|-------------|---------|----------|
| REVISION | | | | |
| | | name | initial | date |
| designed | | T M YEUNG | | 19.3.07 |
| drawn | | K L CHAN | | 19.3.07 |
| traced | | K L CHAN | | 19.3.07 |
| checked | | S K TONG | | 19.3.07 |

approved
 (S K TONG)
 Chief Engineer
 date 19.3.07

contract no.
 file no.

project no. 3409RD
 contract

drawing title
 LEI YUE MUN WATERFRONT
 ENHANCEMENT PROJECT
 - DREDGING PLAN

drawing no. PW-MS07-006
 scale 1 : 1000

office
 PORT WORKS DIVISION
 CIVIL ENGINEERING OFFICE

CIVIL ENGINEERING
 AND DEVELOPMENT
 DEPARTMENT

A3 420 x 297