Project Title: Port Shelter Sewerage, Stage 3 – Sewerage Works at Po Toi O
(Application No. EIA-244/2016)

Submission of information pursuant to Section 8(1) of the EIAO

Updated photomontage showing the facade treatment of the sewage treatment plant and the conceptual geotechnical design for the slope (Please see enclosed Fig 10.14a & 10.14b)

The visual mitigation of the building and retaining wall behind is addressed by the use of chromatic treatment, vertical greening, shrub and tree planting:

- The retaining wall and STP are to be painted with a non-reflective paint in recessive earth tones similar to the natural geology and soil colour of the area so that they blend into the hillside behind.

- Self-clinging climbers are proposed to be planted at the base of the retaining wall and STP in order to green the elevations over time. Climbers and trailing plants will also be planted at the top of the retaining wall to speed the green coverage of the wall. Climbers are also proposed at the base of the site perimeter fence to provide additional screening to the STP and retaining wall elevations. Planters will be irrigated with simple dripline tubing which will ensure that healthy growth is maintained during the winter dry season. It is anticipated that climber planting can provide some effective visual mitigation after the first season and coverage will thicken with each growing season thereafter. In order to provide initial greening of the perimeter fence at Day 1, temporary planters and frames with pre-grown climbers will be attached to the fence as a temporary greening solution. These will be removed once the permanent climber planting at grade has established sufficiently to provide a greening effect.

- Tree planting is also proposed although this will take longer to establish and provide a screening effect. Once mature however, the tree planting will provide an effective visual screen and reduce the apparent scale of the STP.

- Shrub planting is proposed in ground level planters along the fence line and around the STP to strengthen visual screening and amenity. Native shrub and ground cover planting will also be provided on the disturbed ground above the top of the retaining wall in order to re-establish vegetation cover on the existing
The conceptual design for the slope (as shown in Fig 10.14b) was based on the assumption that geotechnical profile would be similar to the enclosed GI record.
**CLIMBER PLANTING OPTIONS**

- *Parthenocissus quinquefolia* - Central Waterfront (one season's growth)
- *Ficus pumila* - Fairway Vista, Po Toi O
- *Pyrostegia ignea* - planted at top of wall
- *Hedera helix* - temporary hoarding at Exchange Square
DRILL HOLE RECORD
HOE No. BH32

PROJECT: Agreement No. CE 65/2006 (DS), Port Shelter Sewerage Stage 2 and Stage 3 - Design and Construction, Ground Investigation and Laboratory Testing (Batch 1)

METHOD: Rotary Drilling

MACHINE & NO.: FDR-86

FLUSHING MEDIUM: Water

ORIENTATION: Vertical

GROUND LEVEL + 9.16 mPD

SOFT TO FIRM, YELLOWISH BROWN (10YR5/6), SANDY SILT WITH SOME ANGULAR TO MEDIUM GRAVEL OF WEAK TO MODERATELY STRONG TUFF. (FILL)

GREYISH BROWN (10YR4/2), ANGULAR COARSE GRAVEL AND COBBLES OF MODERATELY STRONG TO STRONG TUFF WITH A MATRIX OF SANDY SILT. (FILL)

GREYISH BROWN (10YR4/2), ANGULAR COARSE GRAVEL OF MODERATELY STRONG TUFF. (FILL)

GREYISH BROWN (10YR5/2), ANGULAR COARSE GRAVEL OF MODERATELY STRONG TUFF. (FILL)

GREYISH BROWN (10YR5/2), SUBANGULAR COARSE GRAVEL OF MODERATELY STRONG TUFF. (FILL)

CONCRETE

End of investigation hole at 3.50 m.

REMARKS
1. An inspection pit was excavated to a depth of 0.60 m.
2. Drill hole terminated at 3.50 m as instructed by the engineer due to encountering concrete.

DATE 11/12/2009
CHECKED S.M. Pyie

DATE 24/12/2009

FUGRO
GEOTECHNICAL SERVICES LTD

CONTRACT No.: GE/2007/13

HOE No.: BH32

SHEET: 1 of 1

DATE from: 04/12/2009 to 04/12/2009

WORKS ORDER No. GE/2007/13.14

CO-ORDINATES:
E 849495.02
N 816059.01

LEGEND

Small Disturbed Sample
Piezometer Sample
Unit Undisturbed Sample
Unit Undisturbed Sample
Weathered Sample
Terra Vise Core Sample
150mm Vicor Core Sample
Vein Core Sub-sample
SPT Liner Sample
Standard Permeability Test
In situ Vane Shear Test
Permeability Test
Pore Pressure Test
Tensiometer Survey
Packer Test
Imprint Packer Test
Water Sample
Sample
Piezometer Tip

LOGGED P. 2030

DATE 11/12/2009

CHECKED S.M. Pyie

DATE 24/12/2009
Sample & Tests | Depth (m) | Sketch
---|---|---
Face A 1.50 m | | 0.20m
Face B 1.50 m | | 0.10m
Face C 1.50 m | | 0.10m
Face D 1.50 m | | 0.10m

Legend
- 200mm CONCRETE FOOTING.
- Dense, light yellowish brown (2.5Y5/4), silty fine to coarse SAND with many angular fine to coarse gravel and cobbles of moderately strong tuff and some rootlets. (FILL)
- Moderately strong, light yellowish brown, moderately decomposed coarse ash crystal TUFF.
- Joints are closely to medium spaced, rough planar, extremely narrow, iron and manganese oxides stained, dipping at 1. 29°/74°, 2. 04°/75°, 3. 29°/90° and 4. 100°/74°.

Description
End of Trial Pit at 0.90m.