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LEGISLATIVE COUNCIL PANEL ON DEVELOPMENT

PWP Item No. 716CL Tseung Kwan O Further Development – Infrastructure Works for Tseung Kwan O Stage I Landfill Site

PURPOSE

This paper informs Members of the proposal to upgrade part of **716CL "Tseung Kwan O Further Development – Infrastructure Works for Tseung Kwan O Stage I Landfill Site"** to carry out infrastructure works to support the recreational developments at the Tseung Kwan O (TKO) Stage I Landfill Site, including improvement of the linkage between the Landfill Site and adjacent areas — TKO Town Centre and the Area 86 development.

PROJECT SCOPE AND NATURE

2. The Project **716CL** was upgraded to Category B in September 2005. The scope of works comprises the construction of footpath and cycle track along the toe of the TKO Stage I Landfill Site and in TKO Town Centre South, a combined pedestrian and cycle bridge across the northern end of the eastern channel, a pedestrian bridge across the southern end of the eastern channel, a sewage pumping station, landscaping and associated works.

3. We propose to upgrade part of **716CL** to Category A for the following works -

- (a) construction of about 2 km of footpath and about 1.6 km of cycle track along the landfill toe and in Town Centre South with associated drainage works;
- (b) construction of an approximately 140 m long channel crossing bridge carrying footpath and cycle track across the northern end of the eastern channel, with approaches of about 335 m long and a lift on the western side of the bridge for pedestrians and cyclists;

- (c) construction of about 0.94 km of 3 m wide grasscrete paving along the landfill toe;
- (d) landscaping works including a landscape area on the Landfill Site with walking trails; and
- (e) implementation of environmental mitigation measures and an Environmental Monitoring and Audit (EM&A) programme for the works mentioned in (a) to (d) above.

4. The layout plan and section diagram showing the proposed works are at Enclosure 1.

5. The proposed cycle track together with Road L861 (under construction) joining Wan Po Road will function as an emergency relief route for traffic generated from the south-eastern part of TKO in case of serious traffic blockage on Wan Po Road.

6. We plan to commence the construction works in August 2009 for completion in December 2011.

JUSTIFICATION

7. The TKO Stage I Landfill Site has been restored and is now under an aftercare contract supervised and managed by Environmental Protection Department (EPD) for a period of 30 years until 2029. We completed the "Further Development of Tseung Kwan O - Feasibility Study" (TKO Study) in December 2005 which recommends providing infrastructure to support recreational developments such as soccer pitches, walking and cycling trails at the TKO Stage I Landfill Site, including improvement of the linkage between the Landfill Site and adjacent areas — TKO Town Centre and the development at Area 86.

PUBLIC CONSULTATION

8. The Sai Kung District Council was consulted on the works proposed for upgrade on 30 March 2007 and 24 September 2007. We obtained the Council's support of the project on 24 September 2007.

9. We consulted the Advisory Committee on the Appearance of Bridges and Associated Structures¹ on the aesthetic design of the proposed

¹ The Advisory Committee on the Appearance of Bridges and Associated Structures, which comprises representatives of the Hong Kong Institute of Architects, the Hong Kong Institution of Engineers, an academic institution, Architectural Services Department, Highways Department, Housing Department, Planning Department, and Civil Engineering and Development Department, is responsible for vetting

channel crossing bridge and lift on 15 May 2007, 18 December 2007 and 19 February 2008. The Committee accepted generally the proposed aesthetic design on 19 February 2008.

10. We gazetted the proposed road scheme under the Roads (Works, Use and Compensation) Ordinance on 14 March 2008. Two objections were received, with one withdrew with condition and the other maintained their objection. One objector was EPD's contractor for the restoration and aftercare work of the Tseung Kwan O Landfill Stage I and II/III. After discussion with the objector, we modified the scheme to further enhance a section of the maintenance access to the Landfill Site. The objector subsequently withdrew his objection provided that we would carry out the agreed enhancement works. The other objector was the incorporated owner of a nearby residential development. То meet one of the requests of the objector which at the same time was concerned about the noise and visual impact of the proposed works, the scheme was also modified by extending the cycle track and cycle parking area closer to the development to enhance its linkage with the cycle track system. The objector however maintained his objection to the scheme. On 10 February 2009, the Chief Executive in Council considered and overruled these two objections and authorized the road scheme with the modifications.

ENVIRONMENTAL IMPLICATIONS

11. The project is not a Designated Project under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance. In September 2005, we completed an EIA report under Schedule 3 of the EIA Ordinance on the TKO Study which included the proposed works of **716CL**. The EIA report concluded that the proposed developments under the TKO Study would be environmentally acceptable with the implementation of the proposed mitigation measures for the construction and operation phases. The Director of Environmental Protection approved the EIA report on 8 December 2005.

12. The proposed works will not cause any long term environmental impact. We will incorporate into the works contract mitigation measures recommended in the EIA report to control potential pollution arising from the construction works to within established standards and guidelines. These measures include frequent watering of the site, provision of wheel-washing facilities to reduce emission of fugitive dust, use of silenced construction plant, provision of movable noise barriers and other procedures as recommended by EPD. We have included \$1.5 million (in September 2008 prices) in the project estimate for the implementation of environmental mitigation measures.

the design of bridges and other structures associated with highway system from the aesthetic and visual impact points of views.

13. The proposed project site is located within the 250m consultation zone of the TKO Stage I Landfill. A landfill gas hazard assessment was performed. The overall risk is classified as "Medium" and "Low" during the construction and operation stages respectively. Precautionary and protection measures as well as monitoring will be implemented during both the construction and operation stages.

14. We have considered the alignment and the design level of the proposed works in the planning and design stages to reduce the generation of construction waste where possible. In addition, we will require the contractor to reuse inert construction waste on site (e.g. excavated materials as filling materials) or in other suitable construction sites as far as possible, in order to minimize the disposal of inert construction waste to public fill reception facilities². We will encourage the contractor to maximize the use of recycled or recyclable inert construction waste, as well as the use of non-timber formwork to further minimize the generation of construction waste.

15. We will also require the contractor to submit for approval a plan setting out the waste management measures, which will include appropriate mitigation means to avoid, reduce, reuse and recycle inert construction waste. We will ensure that the day-to-day operations on site comply with the approved plan. We will require the contractor to separate the inert portion from non-inert construction waste on site for disposal at appropriate facilities. We will control the disposal of inert construction waste and non-inert construction waste in public fill reception facilities and landfills respectively through a trip-ticket system.

16. We estimate that the proposed works will generate in total about 71 700 tonnes of construction waste. Of these, we will reuse about 28 000 tonnes (39%) of inert construction waste on site and deliver 30 400 tonnes (42%) of inert construction waste to public fill reception facilities for subsequent reuse. In addition, we will dispose of 13 300 tonnes (19%) of non-inert construction waste at landfills. The total cost for accommodating construction waste at public fill reception facilities and landfill sites is estimated to be \$2,483,300 for this project (based on a unit cost of \$27/tonne for disposal at public fill reception facilities and \$125/tonne³ at landfills).

17. Of the 498 trees within the project boundaries, 451 are *Leucaena leucocephala* (銀合歡), which are self-seeded trees that would affect the growth of indigenous species and have to be felled. Of the remaining 47 trees, 30 will be preserved, 2 will be transplanted and 15 will be removed. All trees to be

² Public fill reception facilities are specified in Schedule 4 of the Waste Disposal (Charges for Disposal of Construction Waste) Regulation. Disposal of inert construction waste in public fill reception facilities requires a license issued by the Director of Civil Engineering and Development.

³ This estimate has taken into account the cost for developing, operating and restoring the landfills after they are filled and the aftercare required. It does not include the land opportunity cost for existing landfill sites (which is estimated at \$90/m³), nor the cost to provide new landfills (which is likely to e more expensive) when the existing ones are filled.

removed or transplanted are not important trees⁴. We will incorporate planting proposals as part of the project, including an estimated quantity of 1 700 trees, 50 000 shrubs and 4 500 m² of grassed area.

HERITAGE IMPLICATIONS

18. The proposed works will not affect any heritage site, i.e., all declared monuments, proposed monuments, graded historic sites/buildings, sites of archaeological interest and Government historic sites identified by the Antiquities and Monuments Office.

LAND ACQUISITION

19. Only Government Land is involved in this project and no land clearance is required.

WAY FORWARD

20. We plan to seek the Public Works Sub-committee's endorsement for part upgrading the works of **716CL** to Category A (at an estimated cost of about \$168.9 million in money-of-the-day prices) on 8 April 2009.

ATTACHMENT

Enclosure 1 – Plan Nos. TK2362 & TK2363

Development Bureau Civil Engineering and Development Department February 2009

⁴ An "important tree" refers to trees in the Register of Old and Valuable Trees, or any other trees that meet one or more of the following criteria:-

⁽a) trees of 100 years old or above;

⁽b) trees of cultural, historical or memorable significance e.g. Fung Shui tree, tree as landmark of monastery or heritage monument, and trees in memory of an important person or event;

⁽c) trees of precious or rare species;

⁽d) trees of outstanding form (taking account of overall tree sizes, shape and any special features) e.g. trees with curtain like aerial roots, trees growing in unusual habitat; or

⁽e) trees with trunk diameter equal or exceeding 1.0 metre (measured at 1.3 metre above ground level), or with height/canopy spread equal or exceeding 25 m.



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