

**1. BASIC INFORMATION****Project title :**

Sewage Pumping Station at Tung Tau Industrial Area ( for PWP Item 278CL - Kau Hui Development Phase I, Engineering Works, Area 16, Yuen Long)

**Purpose and nature of the project :**

The proposed sewage pumping station will be part of a sewerage improvement scheme for the Yuen Long Kau Hui area which has no proper sewage system at present. Sewage collected from the villages will be pumped to Yuen Long Sewage Treatment Works north of Yuen Long Industrial Estate by the proposed sewage pumping station.

**Name of project proponent :**

New Territories North Development Office, Territory Development Department.

**Location and scale of project (include plans) and history of site :**

The location of the project is shown on the attached plan register no. 0095/278/KP01 in Appendix I. It has a pumping capacity of 5,260m<sup>3</sup> per day and it is located at a distance of about 35m from the nearest village house at Shan Pui Chung Hau Tsuen. Details of the sewage pumping station are shown on the attached plan register nos. 0095/278/PS/27, 29 and SPS/01B to 03B and 04 in Appendix I.

**Number and types of designated projects to be covered by the project profile :**

The proposed sewage pumping station constitutes a Designated Project of type F 3(b) in Schedule 2 of the EIAO.

**Name and telephone number of contact person (s) :**

Engineer of New Territories North Development  
Office, Territory Development Department

## **2. OUTLINE OF PLANNING AND IMPLEMENTATION PROGRAMME**

Consultants have been appointed by Territory Development Department to carry out the investigation, design and construction supervision of the civil works. The Electrical and Mechanical Project Division of Drainage Services Department undertakes the design, tendering and construction supervision of the electrical and mechanical works.

Works will commence in March 2000 for completion in March 2002. The Sewage Treatment Division of Drainage Services Department will operate and maintain the pumping station. A copy of the implementation program is attached as Appendix II.

## **3. POSSIBLE IMPACT ON THE ENVIRONMENT**

The possible environmental impacts that may arise during the construction or operation of the project include noise, air, water quality, visual, and perhaps pollution due to pump failure.

## **4. MAJOR ELEMENTS OF THE SURROUNDING ENVIRONMENT**

### **4.a Sensitive Receivers**

A few village houses are located at the north west of the proposed sewage pumping station. The Noise Sensitive Receiver is the nearest village house which is at a distance of about 35m from the proposed sewage pumping station.

### **4.b Existing and Past Land Uses of the Project Site and Environs**

The site is zoned Industrial in accordance with the Yuen Long Outline Zoning Plan S/YL/6 and is located at the northern part of Tung Tau Industrial Area. The proposed pumping station will be next to the existing low flow pumping station of the Yuen Long Nullah Improvement Scheme. It was previously used as a works area for Contract No. YL19/89 and is currently abandoned.

## **5. ENVIRONMENTAL PROTECTION MEASURES TO BE INCORPORATED IN THE DESIGN**

### **5.a Measures to Minimize Environmental Impacts**

#### **Construction Stage**

According to the report "Review of Environmental Impact Assessment for Yuen Long Kau Hui Development" accepted by EPD, standard noise reduction measures, dust reduction measures and mitigation measures for reducing water quality impacts will be adopted during the construction stage.

#### **Operation Stage**

##### **Noise**

The concrete structure of the pumping station will shield off most of the noise generated by the submersible pumps located at a depth of about 7.5m below the formation level. Furthermore the size of louvres is minimised to 1.5m x 0.6m maximum, and the louvres at the northern wall near the NSR will further be shielded by a proposed stormwater pumping station immediately north of the sewage pumping station.

As the proposed sewage pumping station is within 100m of an industrial zone, the Noise Sensitive Receivers (NSR) shall be assigned as an Area Sensitivity Rating of "C" with Acceptable Noise Levels of 70 dBA for day and evening and 60 dBA for night.

The background noise levels at Chung Hau Tsuen are 65 dBA at daytime and 55 dBA at nighttime. Given that the sound power level of each pump is within 75 dBA (as provided by DSD), and with the consideration of the distance to the NSR, barrier and façade corrections, a noise level of 37 dBA due to the operation of the pumps will be aggregated to the background noise level. The resultant noise levels of 65.01 dBA at daytime and 55.07 dBA at nighttime indicate that noise generated by the pumping station during operation will be insignificant.

##### **Source control of odour impact**

In order to minimize the odour impact during the operation of the sewage pumping station, deodorizing plants will be installed in the pumping station.

### **Landscaping**

Landscaping works will be provided in the pumping station compound, so that the sewage pumping station can be blended with the existing environment. Therefore, the visual impact will be very minimal.

### **Provision of standby pumps**

In addition to the working capacity of the sewage pumping station, standby pumps will be provided in the pumping station to cater for the failure of the duty pumps. This will reduce the risk of pollution due to the failure of the duty pumps.

## **5.b Beneficial and Adverse Effects / Short and Long Term Effects**

Like most of the old villages in the New Territories, there is no sewerage system in Kau Hui. Waste water just flows into an irregular pattern of open channels and deposits at the lowest lying ground, fishponds and swampy areas. Frequent blockages of the open channels often result in an unhygienic living condition.

To improve such poor environment in Kau Hui, a sewerage system must be implemented. Sewers will be laid to convey sewage to the proposed sewage pumping station which will pump the sewage to Yuen Long Sewage Treatment Works.

## **5.c Public Consultation to Date**

The sewage pumping station is part of the Yuen Long Kau Hui Phase I project. Consultations with the Shap Pat Heung Rural Committee and the Yuen Long District Board on the project were held on 18 April 1997 and 24 April 1997 respectively. Members of the Rural Committee and District Board supported the proposed works.

## **6. USE OF PREVIOUSLY APPROVED EIA REPORTS**

The previous EIA, "Environmental Impact Assessment for Yuen Long Kau Hui Development", for the original Kau Hui Development scheme was finalised in November 1992. Due to planning changes of the scheme, a review of the EIA, "Review of Environmental Impact Assessment for Yuen Long Kau Hui Development", was made in February 1998 and was accepted by EPD. Reference to the above EIAs was made for the sewage pumping station design.

Contract No. YL47/99  
Kau Hui Development, Phase I  
Site Formation, Roads and Drainage Works in Area 16 - Yuen Long  
List of Drawings

<u>Drawing No.</u>	<u>Title</u>
0095/278/KP01	KEY PLAN AND LOCATION PLAN
0095/278/PS27	PUMPING STATION COMPOUND PAVING PLAN
0095/278/PS29	PUMPING STATION COMPOUND SETTING OUT PLAN
0095/278/SPS/01B	SEWAGE PUMPING STATION GENERAL ARRANGEMENT (SHEET 1 OF 4)
0095/278/SPS/02B	SEWAGE PUMPING STATION GENERAL ARRANGEMENT (SHEET 2 OF 4)
0095/278/SPS/03B	SEWAGE PUMPING STATION GENERAL ARRANGEMENT (SHEET 3 OF 4)
0095/278/SPS/04	SEWAGE PUMPING STATION GENERAL ARRANGEMENT (SHEET 4 OF 4)

# APPENDIX II

## KAU HUI DEVELOPMENT ENGINEERING WORKS, AREA 16 - YUEN LONG PROGRAMME FOR CONSTRUCTION OF THE SEWAGE PUMPING STATION

