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TEST REPORT

PENTA-OCEAN CONSTRUCTION COMPANY LIMITED

REMAINING ENGINEERING
INFRASTRUCTURE WORKS FOR PAK
SHEK KOK DEVELOPMENT PACKAGE 1
(CONTRACT NO.: TP 35/02)

MONTHLY EM&A REPORT

(APRIL 2005)

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EXECUTIVE SUMMARY

This monthly EM&A report (No.28) has been prepared to document the impact monitoring works conducted for the Contract of the Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 1 (Contract No: TP 35/02) during the reporting period from 01 to 30 April 2005.

Construction Progress

The major construction works in this reporting month were as below:

- Watermain works in Area 4
- Dismantling of Road D1 bridge deck falsework
- Construction works at pumping station no.1 and no.2
- Construction of sewer rising main connected to PS1 at area 7B
- Construction of sewer rising main connected to PS2 at area 15
- General landscape works
- Installation of Irrigation System

Environmental Monitoring Progress

The summary of the monitoring activities in this monitoring month is listed below:

- Noise Monitoring (Day-time): 4 Occasions at 3 designated locations
- Noise Monitoring (Holiday): 4 Occasions at 3 designated locations
- 24-hour TSP Monitoring: 5 Occasions at 2 designated locations
- 1-hour TSP Monitoring: 13 Occasions at 2 designated locations
- Weekly-site inspection: 5 Occasions

Noise Monitoring

No exceedances of Action and Limit levels for noise monitoring were recorded in the reporting month.

Air Monitoring

No exceedances of Action and Limit levels were recorded for 24-hr TSP and 1-hr TSP monitoring in the reporting month.

Site Inspection

Environmental site inspections conducted in this reporting month are presented as follows:

<u>Concerned Parties</u>	<u>Dates of Audit / Inspection</u>
ET (weekly site inspection)	02, 09, 16, 23, 30
IEC/POC/ET (Monthly site inspection)	28

No observations were raised during this reporting month.

Environmental Complaints

No environmental complaints were received in this monitoring month.

Notification of summons and successful prosecutions

No notification of summons and prosecutions with respect to environmental issues were registered in this reporting month.



Future Key Issues

Base on the site inspections and forecast of engineering works in the coming month, key issues to be considered are as follows:

- Noise and air quality impact due to construction works;
- Maintain wheel washing facilities properly;
- Cleanup the access road regularly;
- Watering, hydro-seeding or covering all stockpiles with tarpaulin to avoid wind and water erosion;
- Diverting the silty runoff to sedimentation trap before discharge;
- Maintain good site practice and waste management to minimize environmental impacts at the site;
- Follow-up improvements on waste management issues.

1.0 INTRODUCTION

Penta-Ocean Construction Co., Ltd. (POC) appointed Environmental Team (ET) of ETS-Testconsult Limited (ETL) to undertake the Environmental Monitoring and Audit for Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 1 (Contract No.: TP 35/02).

Under the requirements of Section 10 of Environmental Permit to Construct and Operate a Designate Project (EP-108/2001/AEP-108/2001), EM&A programme as set out in the EM&A Manual is required to be implemented. In accordance with the EM&A manual, environmental monitoring of air quality and noise is required for the Project. The EM&A requirement for each parameter are described in details in subsequent sections, including:

- All monitoring parameters;
- Action and Limit levels for all environmental parameters;
- Event-Action Plans;
- Environmental mitigation measures, as recommended in the project EIA study report;
- Environmental requirements in contract documents.

This monthly EM&A report summarizes the impact monitoring results and audit findings of the EM&A program during the reporting period from 01 to 30 April 2005.

2.0 PROJECT INFORMATION

2.1 Background

Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 1 (Contract No.: TP 35/02) was planned and designed by the Civil Engineering and Development Department (CEDD).

As the main Contractor of the captioned project: contracted by, POC will follow the environmental monitoring recommendation stated at the EM&A Manual that was prepared with reference to the EIA Study for Feasibility Study on the Pak Shek Kok Development Area (PSKDA) Environmental Monitoring and Audit Manual under Agreement No. CE 90/96.

2.2 Site Description

Generally, the construction site is located at Pak Shek Kok development area. Surrounding the construction site, there are two air sensitive receivers: HKIB Staff Accommodation and Cheung Shue Tan Village and three noise sensitive receivers: HKIB Staff Accommodation, CUHK Residence No.10 and Cheung Shue Tan Village.

Figure 1and 2 show the noise and air monitoring locations of this project.

2.3 Construction Programme

Details of construction programme are shown in Appendix F.

2.4 Project Organization and Management Structure

The organization chart and lines of communication with respect to the on-site environmental management and monitoring program are shown in Appendix A.

2.5 Contact Details of Key Personnel

The key personnel contact names and telephone numbers, and construction programme are shown in table 2.1.

Table 2.1 Contact Details of Key Personnel

Organization	Project Role	Name of Key Staff	Tel. No.	Fax No.
CEDD	Employer	Mr. H W Lau	2158 5629	---
Hyder	Engineer	Mr. Herman Fong	2911 2233	2827 2891
Hyder	Independent Environmental Checker	Ir. Coleman Ng	2911 2233	2827 2891
POC	Contractor	Mr. Roger Lau	9870 6390	2691 6012
ETL	Contractor's Environmental Team	Mr C L Lau (Environmental Team Leader)	2946 7792	2695 3944

3.0 CONSTRUCTION PROGRESS IN THIS REPORTING MONTH

The site area of this project is shown in Appendix G.

A summary of the major construction activities undertaken in this monitoring month is shown in Table 3.1. The implementation of corresponding mitigation measures is summarized in Table 3.2.

Table 3.1 Major Construction Activities in this reporting month

Location	Major Construction Activity
Area 4	Watermain works
Road D1	Construction of Road D1 Bridge deck falsework
No.1 & No.2	Construction of pump stations
Area 7B	Construction of sewer rising main connected to PS1
Area 15	Construction of sewer rising main connected to PS2
---	General landscape works
---	Installation of irrigation system

Table 3.2 Implementation of Environmental Mitigation Measures

General construction works	<ul style="list-style-type: none"> • Effective water sprays used on the site at potential dust emission sources such as unpaved area; • The heights from which fill materials are dropped should be controlled to a practical height to minimize the fugitive dust arising from unloading; • Minimize of exposed soil areas to reduce the potential for increased siltation and contamination of run-off; • Water, hydro-seed or cover the open stockpile and exposed loose soil areas by using clean tarpaulin sheets; • Provide proper and efficient drainage facilities (e.g. wheel washing facilities) and sedimentation system to ensure that site runoff should be treated before discharged to drains; • Remove the sand/rubbish accumulated in the drain/channel regularly; • Provide good site practice (e.g. selection of quieter plant and working methods and reduction in number of plant operating in critical areas close to NSRs) to limit noise emissions at source; • Remove the construction waste accumulated inside or outside the site regularly; • Keep good waste management.
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4.0 AIR QUALITY MONITORING

4.1 Monitoring Requirement

1-hour and 24-hour TSP monitoring were required to conduct to monitor the air quality, at designated monitoring locations:

- HKIB Staff Accommodation (on ground floor near the entrance facing south-east);
- Cheung Shue Tan Village (near the outer building, temple) for 1-hr TSP monitoring;
- Cheung Shue Tan Village (in front of Man Kee Store) for 24-hr TSP monitoring.

4.2 Monitoring Equipment

Continuous 24-hour TSP air quality monitoring was performed using a GMWS2310 High Volume Air Sampler (HVS) located at each of the designated monitoring station. One portable dust meter was used to carry out the 1-hour TSP monitoring. Table 4.1 summarizes the equipment used in the air quality monitoring programme. A copy of the calibration certificate for the HVS and portable dust meter are attached in Appendix B1.

Table 4.1 Air Quality Monitoring Equipment

Equipment	Model and Make
HVS Sampler	Greasby GMWS2310
Calibrator	G25 A
1-hour TSP Dust Meter	TSI Model 8520 Dust Trak™ Aerosol Monitor

4.3 Monitoring Parameters, Frequency and Duration

Table 4.2 summarizes the monitoring parameters, monitoring duration and frequencies of air quality monitoring.

Table 4.2 Monitoring parameters, duration, frequencies of impact air quality monitoring

Parameter	Duration	Frequency
24-hr TSP	24 hr (0000-2400)	Once every six days
1-hr TSP	1 hr (0700-1900)	Three times every six days

4.4 Monitoring Locations and Schedule

Two designated air quality monitoring locations – Cheung Shue Tan Village and HKIB Staff Accommodation were selected. Table 4.3 tabulates the air quality monitoring locations of this project.

Table 4.3 Air quality monitoring locations

Air quality Monitoring stations	Locations
AM1	HKIB Staff Accommodation (on ground floor near the entrance facing south-east) for 1-hr TSP monitoring
AM3	Cheung Shue Tan Village (near the outer building, temple) for 1-hr TSP monitoring
AM3A	Cheung Shue Tan (in front of Man Kee Store) for 24-hr TSP monitoring

The air quality monitoring schedule for 24-hr and 1-hr TSP monitoring at designated monitoring locations is summarized in table 4.4.

Table 4.4 Monitoring Schedule for the air quality monitoring stations

Air quality monitoring stations	Location	Monitoring Period						
		24-hr TSP				1-hr TSP		
		Start		Finish		Date	Start	Finish
		Date	Time	Date	Time			
OAM1	HKIB Staff Accommodation					02/04/05	08:50	09:50
						06/04/05	08:30	09:30
						07/04/05	10:10	11:10
						09/04/05	15:03	16:03
						12/04/05	10:30	11:30
						14/04/05	09:30	10:30
						16/04/05	10:20	11:20
						19/04/05	08:32	09:32
						21/04/05	08:30	09:30
						23/04/05	14:10	15:10
						26/04/05	15:10	16:10
						28/04/05	10:00	11:00
						30/04/05	10:40	11:40
AM3	Cheung Shue Tan Village (near the outer building, temple)					02/04/05	10:10	11:10
						06/04/05	10:30	11:30
						07/04/05	08:40	09:40
						09/04/05	10:58	11:58
						12/04/05	13:00	14:00
						14/04/05	10:45	11:45
						16/04/05	13:30	14:30
						19/04/05	17:02	18:02
						21/04/05	13:10	14:10
						23/04/05	09:30	10:30
						26/04/05	10:18	11:18
						28/04/05	16:30	17:30
						30/04/05	13:00	14:00
AM1	HKIB Staff Accommodation	04/04/05	08:05	05/04/05	08:10			
		09/04/05	15:20	10/04/05	14:50			
		15/04/05	13:50	16/04/05	13:52			
		21/04/05	08:34	22/04/05	08:59			
		27/04/05	15:47	28/04/05	15:21			
AM3A	Cheung Shue Tan (in front of Man Kee Store)	04/04/05	08:28	05/04/05	07:35			
		09/04/05	11:10	10/04/05	11:36			
		15/04/05	14:05	16/04/05	13:58			
		21/04/05	13:05	22/04/05	13:06			
		27/04/05	15:27	28/04/05	15:34			

Remark (*) : Monitoring cancelled due to no construction works carried out at Site Holiday

4.5 Monitoring Methodology

4.5.1 24-hour TSP Monitoring

Instrumentation

High volume sampler, as HVS, (Greasby GMWS2310) complete with appropriate sampling inlets are employed for 24-hour TSP. The sampler is composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complies with that required by USEPA standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

Installation

The installation of HVS refers to the requirement stated in EM&A Manual.

Operation/Analytical Procedures

Operating/analytical procedures for the operation of HVS are as below:

Prior to the commencement of the dust sampling, the flow rate of the high volume

sampler was properly set (between 0.6m³/min and 1.7m³/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.



- For TSP sampling, fiberglass filters (GA-55) were used.
- The power supply was checked to ensure the sampler worked properly.
- On sampling, the sampler was operated 5 minutes to establish thermal equilibrium before placing any filter media at designated air monitoring station.
- The filter holding frame was then removed by loosening the four nuts and carefully a weighted and conditioned filter was centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an air-tight seal on the outer edges of the filter. Then the filter holder frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The programmable timer will be set for a sampling period of 24 hours. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number.).
- After sampling, the filter was transferred from the filter holder of the HVS to a sealed plastic bag and sent to the laboratory for weighting. The elapsed time was also recorded.
- Before weighting, all filters were equilibrated in a desiccator for 24 hour with the temperature of $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and the relative humidity (RH) $<50\% \pm 5\%$.

Maintenance & Calibration

- The HVS and their accessories should be maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- HVS should be calibrated at bi-monthly intervals.

4.5.2 1-hour TSP Monitoring

Measuring Procedures

The measuring procedures of the 1-hr dust meter are in accordance with the Manufacturer's instruction Manual as follows:

- Set POWER to ON, check the battery indicator to ensure whether the power supply is enough to conduct the TSP monitoring;
- Calibrate the dust meter by zero check;
- Set the TIME CONSTANT of the dust meter;
- Press SAMPLE to start the TSP monitoring;
- Record the maximum, minimum and average reading directly from the dust meter by press STATISTICS when monitoring complete.

Maintenance & Calibration

- 1-hr dust meter should be checked at 3-month intervals and calibrated at 1-year intervals throughout all stages of impact air quality monitoring.

4.5.3 Wind Data Monitoring

Wind data (wind speed and wind direction) were directly extracted from Sha Tin Station (located at Sha Tin Race Course) of Hong Kong Observatory. All wind data during this reporting month are shown in Appendix D.

4.6 Action and Limit Levels

Action and Limit levels for 24-hr TSP and 1-hr TSP derived as illustrated in Table 4.5.

Table 4.5 Action and Limit Levels for 24-hr TSP and 1-hr TSP

Monitoring Location	24-hr TSP ($\mu\text{g}/\text{m}^3$)		1-hr TSP ($\mu\text{g}/\text{m}^3$)	
	Action Level	Limit Level	Action Level	Limit Level
AM1	164 *	260 *	325 *	500 *
AM3	---	---	306	500
AM3A	183	260	---	---

* = Reference to the information contained in the Baseline Monitoring Report submitted under the "Advance Engineering Infrastructure Works for Pak Shek Kok Development – Southern Access Road and Sewage Pumping Station No.3

4.7 Event-Action Plans

Please refer to Appendix E for details.

4.8 Results

4.8.1 24-hour TSP Monitoring

All monitoring data of 24-hour TSP monitoring is provided in Appendix B2. Graphical presentation of 24-hour TSP monitoring results for the reporting month is shown in Appendix B3.

No exceedances of Action and Limit Level of 24-hour TSP monitoring results were recorded during the reporting month.

4.8.2 1-hour TSP Monitoring

1-hour TSP monitoring was carried out at monitoring stations, AM1 and AM3 in the reporting month. All monitoring data of 1-hour TSP monitoring is provided in Appendix B2. Graphical presentation of 1-hour TSP monitoring results for the reporting month is shown in Appendix B3.

No exceedances of Action and Limit Level of 1-hour TSP monitoring results were recorded during the reporting month.

5.0 Noise Monitoring

5.1 Monitoring Requirements

As the requirement in EM&A Manual, noise monitoring was conducted at designated monitoring locations:

- HKIB Staff Accommodation (on ground floor near the entrance facing south-east);
- Cheung Shue Tan Village (near the outer building, temple);
- CUHK Residence No.10.

5.2 Monitoring Equipment

Integrating Sound Level Meters were used for noise monitoring. They were Type 1 sound level meters capable of giving a continuous readout of the noise level reading including equivalent continuous sound pressure level (L_{eq}) and percentile sound pressure level (L_x). They comply with International Electro technical Commission Publications 651:1979 (Type1) and 804:1985 (Type1), and speed in m/s was used to monitor the wind speed.

Table 5.1 summarized noise monitoring equipment model being used. A copy of the calibration certificates for noise meters and calibrator are attached in Appendix C1.

Table 5.1 Noise Monitoring Equipment

Equipment	Model
Integrating Sound Level Meter	Rion NL-31 Sound Level Meter
Calibrator	Rion NC-73 Sound Level Calibrator
Portable Wind Speed Indicator	TSI Model 8340-M Air Velocity Meter

5.3 Monitoring Parameters, duration and Frequency

Noise monitoring for the A-weighted levels L_{eq} , L_{10} and L_{90} were recorded. The following guide on the regular monitoring frequency for each monitoring station on a per week basis when noise generating activities are underway:

- One set of measurements between 0700-1900 hours on normal weekdays (6 consecutive $L_{eq(5-min)}$);
- One set of measurements between 1900-2300 hours (3 consecutive $L_{eq(5-min)}$)*;
- One set of measurements between 2300-0700 hours of next day (3 consecutive $L_{eq(5-min)}$)*;
- One set of measurements between 0700-1900 hours on holidays (3 consecutive $L_{eq(5-min)}$)*.

(*): Noise monitoring to be conducted only when there is construction work.

Duration, frequencies and parameters of noise measurement are presented in Table 5.2.

Table 5.2 Duration, Frequencies and Parameters of Noise Monitoring

Time period	Duration/min	Parameters	Frequency
Day-time: 0700-1900 hrs on normal weekday	30	L_{eq} , L_{10} , L_{90}	Once per week
Evening-time: 1900-2300 hrs	15	L_{eq} , L_{10} , L_{90}	Once per week
Night-time: 2300-0700 hrs of next day	15	L_{eq} , L_{10} , L_{90}	Once per week
Holiday: 0700-1900 hrs	15	L_{eq} , L_{10} , L_{90}	Once per week

5.4 Monitoring Locations and Period

In accordance with the EM&A Manual, there are three noise monitoring locations: HKIB Staff Accommodation, Cheung Shue Tan Village and CUHK Residence No.10. The location of the monitoring stations are described in Table 5.3 and depicted in Figure 1.

Table 5.3 Noise Monitoring Locations

Noise Monitoring station	Location
NM1	HKIB Staff Accommodation (on ground floor near the entrance facing south-east)
NM2	CUHK Residence No.10
NM3	Cheung Shue Tan Village (near the outer building, a temple)

The noise-monitoring programme of monitoring locations (Day-time, Evening-time, Holiday and Night-time) is summarized in Table 5.4.

Table 5.4 Monitoring Periods for noise monitoring stations

Noise monitoring stations	Monitoring Period							
	Day-time		Evening-time		Holiday		Night-time	
NM1	06/04/05	08:40	---	---	03/04/05	09:45	---	---
	12/04/05	10:34	---	---	10/04/05	14:10	---	---
	19/04/05	08:35	---	---	17/04/05	09:45	---	---
	26/04/05	15:12	---	---	24/04/05	14:20	---	---
NM2	06/04/05	09:45	---	---	03/04/05	10:10	---	---
	12/04/05	11:24	---	---	10/04/05	14:45	---	---
	19/04/05	18:20	---	---	17/04/05	10:10	---	---
	26/04/05	18:05	---	---	24/04/05	14:48	---	---
NM3	06/04/05	10:39	---	---	03/04/05	10:40	---	---
	12/04/05	13:05	---	---	10/04/05	15:20	---	---
	19/04/05	17:08	---	---	17/04/05	10:40	---	---
	26/04/05	10:20	---	---	24/04/05	15:15	---	---

Remark (*): Monitoring cancelled due to no construction works carried out at Site Holiday

5.5 Monitoring Procedures and Calibration Details

Operation/Analysis Procedures

- The Sound Level Meter was set on a tripod at a height of 1.2m above the ground.
- For free field measurement, the meter was positioned away from any nearby reflective surfaces.
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - Frequency weighting: A
 - Time weighting : Fast
 - Time measurement : 5 mins
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94 dB at 1000HZ. If the difference in the calibration level before and after measurement was more than 1dB(A), the measurement would be considered invalid and repeat measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with a portable wind meter.
- During the monitoring period, the Leq, L10 and L90 were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Free Field correction to the measurements should be made. Correction factor of +3dB(A) should be made to the free Field measurements.
- Noise monitoring would be cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind gusts exceeding 10m/s.

Maintenance and Calibration

- The microphone head of the sound level meter and calibrator is cleaned with soft cloth at quarterly intervals.
- The meter is sent to be supplier or HOKLAS laboratory to check and calibrated at yearly intervals.

5.6 Action and Limit Levels

The Action and Limit levels for noise levels derived as illustrated in Table 5.5.

Table 5.5 Action and Limit Levels for noise monitoring

Time Period	Time Period	Action	Limit
Normal hours	0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) *
Holiday	0700-1900 hrs on holidays		70 dB(A) **
Evening-time	1900-2300 hrs on all other days		
Night-time	2300-0700 hrs of next day		55 dB(A) **

* = Reduce to 70 dB(A) for schools and 65 dB(A) during school examination periods.

** = Area Sensitivity Rating (ASR) C is selected from the "Technical Memorandum on Noise from Construction Work Other Than Percussive Piling".

5.7 Event-Action Plans

Please refer to the Appendix E for details.

5.8 Results

Day-time and holiday noise monitoring were carried out at monitoring stations, NM1, NM2 and NM3 in this reporting month. No evening-time and night-time noise monitoring were required since no construction works were processed during these periods. All noise levels are provided in Appendix C2. Graphical presentation of the monitoring results for the reporting month are shown in Appendix C3.

No day-time and holiday noise monitoring results at all monitoring stations exceeded the Action Level since no documented complaints on noise issue were received in this reporting month. Besides, no exceedances in Limit Level were recorded according to the results from day-time and holiday noise monitoring.

During the restricted hours, ET found that the PMEs used complied with the requirements stated in the valid CNP and no PMEs other than ones specified in the CNP to be used in the construction site.

6.0 WASTEWATER MONITORING

- 6.1 According to the Discharge of Industrial Trade Effluent Licence (Licence No.: 2946), POC is required to carry out wastewater monitoring of suspended solids quarterly at all effluent discharge points within the site. Under the Discharge of Industrial Trade Effluent Licence (Licence No.: 2946), the discharge limit of Suspended Solids content of the effluent at this site should be 30mg/L. It means that the suspended solids of wastewater discharged should be less than 30mg/L or otherwise no wastewater can be discharged under this Licence.
- 6.2 No water quality monitoring were carried out in this reporting month since no construction wastewater were discharged at the discharge point.
- 6.3 Next wastewater monitoring will be carried out when wastewater was found discharged at the discharge point.

7.0 ENVIRONMENTAL NON-CONFORMANCE

7.1 Summary of air quality, noise and wastewater monitoring

No exceedances of Action and Limit Level of 24-hour and 1-hour TSP monitoring results were recorded during the reporting month.

No day-time and holiday noise levels recorded at all monitoring stations exceeded the Action and Limit Level in the reporting month.

No water quality monitoring were carried out in this reporting month since no construction wastewater were discharged at the discharge point.

7.2 Summary of Environmental Complaints

No environmental complaints were received in this monitoring month.

7.3 Summary of Notification of Summons and Prosecution

There were no notification of summons respect to environmental issues registered in this month. Cumulative log of Notification of Summons and Prosecution is tabulated in Table 7.1.

Table 7.1 Cumulative Log of Notification of Summons and Prosecution

Date	Detail of Notice of Summons or Prosecution	Action Taken	Environmental Outcome
16 Oct 2002	The site main haul road was neither paved with any one of concrete, bituminous materials, hard core or metal plates, nor had the entire road surface maintained wet by the spraying of water or dust suppression chemical.	<ul style="list-style-type: none"> POC paved the site main haul road with concrete and bituminous materials; The road surface was wet by the spraying of water regularly by POC. 	It was observed that the problem of dust emission from the site main haul road has been improved. No further complaint or ticket was received during the reporting month.
11 July 2003	Three stockpiles of dusty material namely aggregate, were neither covered entirely by impervious sheeting, nor placed in an area sheltered on top and three sites, nor sprayed with water or dust suppression chemical so as to maintain entire surface wet.	The stockpiles of aggregates / excavated materials were covered with tarpaulin sheet / sprayed with water in order to avoid the dust emission.	No further complaints were received during the reporting month.

8.0 SITE INSPECTION

During the reporting month, weekly site inspections were undertaken at 02, 09, 16, 23, and 30 April 2005 by ET. Monthly joint site inspection at 28 April 2005 was carried out by Engineer's Representative, IEC, POC and ET. A summary of the implementation status of the mitigation measures on site inspections is presented in Appendix H.

8.1 Summary of the site inspection findings and Action(s) taken by POC and ET

No site inspection findings were recorded in this reporting month.

8.2 Status of Environmental Licensing and Permitting

All permits/licenses valid in this reporting month are summarized in Table 8.2.

Table 8.1 Summary of environmental licensing and permit status

Description	Permit No.	Valid Period		Section
		From	To	
Environmental Permit	EP-108/2001	05/11/02	---	Whole work site
Construction Noise Permit (General / Prescribed construction works)	GW-RN0039-05	11/02/05	10/07/05	<p><u>Group A (For Area B2 or E):</u></p> <ul style="list-style-type: none"> 1 Poker, vibratory, hand-held (CNP 170) 1 Concrete pump, lorry mounted (CNP 047) 1 Concrete lorry mixer (CNP 044) <p><u>Group B (For Area B2 or E):</u></p> <ul style="list-style-type: none"> 2 Generator, silenced, 75dB(A) at 7m (CNP 102) 1 Excavator, tracked (CNP 081) 1 Lorry, with crane <p><u>Group C (For Area B2 or E):</u></p> <ul style="list-style-type: none"> 1 Generator, silenced, 75dB(A) at 7m (CNP 102) 1 Drill/Grinder, hand-held (electric) (CNP 065) 1 Saw, circular, wood (CNP 201) 2 Water pump, submersible (electric) (CNP 283) 1 Air Compressor (CNP002) 1 Bar bender and cutter (electric) (CNP 021) <p><u>Group D (For Area B, C or D):</u></p> <ul style="list-style-type: none"> 1 Asphalt paver (CNP 004) 1 Roller, vibratory (CNP 186)



Description	Permit No.	Valid Period		Section
		From	To	
Waste Producer	5213 729 P2800 11	03/10/02	---	Generating waste at the work site
Wastewater Discharge License	No. 2946	18/12/02	18/12/07	Discharge of trade Effluent, surface run-off and all other wastewater arising from the construction site and sedimentation tank

8.3 Recommendations on site inspection findings in Site Inspections of this month

Although no site inspection findings were recorded in this reporting month, some recommendations are still raised for general site practice and indicated as below:

- All stockpiles with a volume of greater than 50m³ should be covered with clean tarpaulin sheets, watering or hydro-seeding to avoid wind and water erosion;
- The heights from which fill materials are dropped should be controlled to a practical height to minimize the fugitive dust arising from unloading;
- Placing enough sand bags or other protection should be applied to prevent the silty surface runoff onto the drains system;
- Checking and maintaining all the site machines to prevent dust emission;
- Providing briefing to the concerned site staff on remedial actions, such as handling method of chemicals and chemical waste;
- Maintain good waste management at the site.

9.0 WASTE MANAGEMENT

9.1 Waste Management Audit

Waste management audit was carried out by the ET on a weekly basis. A summary of the implementation status of the mitigation measures on waste management is presented in Appendix H.

9.2 Records of Waste Quantities

All type of wastes arising from the construction work are classified into the following:

- General refuses;
- Chemical waste;
- Construction & demolition (C&D) material.

The quantities of waste for disposal in this month are summarized in Table 9.1.

Table 9.1 Summary of Quantities of Waste for Disposal in this reporting month

Type of Waste	Quantity	Disposal Location
C&D Material (Inert) (m ³)	0	Nil
C&D material (Non-inert) (m ³)	0	Nil
General Refuse (m ³)	50	Disposed at NENT Landfills
Chemical Waste (L)	0	Nil

10.0 IMPLEMENTATION STATUS

10.1 Implementation Status of Environmental Mitigation Measures

POC has been implementing the required environmental mitigation measures according to Implementation of Mitigation Measures (clause 4.2, 5.2 and 6.2) in Environmental Management Plan for Contract No. TP 35/02 Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 1 (Revision 2). A summary of the implementation status of the mitigation measures is presented in Appendix H.

Air Quality

The Contractor was reminded to water, hydro-seed or cover all the stockpiles by using clean tarpaulin sheets. The Contractor was also reminded to cleanup the access road regularly to avoid dust emission.

Noise

All mitigation measures stated in Appendix I were implemented properly in this reporting month.

Water Quality

The Contractor was reminded to provide more effort to implement mitigation measures, such as diverting site runoff to suitable treatment processes before discharge, sedimentation system and drainage facilities (e.g. sedimentation trap and U-channels), and remove the sand/rubbish accumulated in the drain / channel regularly.

Waste Management

POC has been implementing most mitigation measures on waste management.

10.2 Implementation Status of Event and Action Plan

There were no exceedances in air quality and noise monitoring parameters recorded in this monitoring month. No further mitigation measures were required.

10.3 Implementation Status of Environmental Complaint Handling

No complaints had been received during this monitoring month.

11.0 CONCLUSION

Impact monitoring of air quality and noise were carried out at designated locations in accordance with the EM&A Manual in this reporting month.

According to the summary of air and noise monitoring results, no exceedances of Action and Limit Level of 24-hour and 1-hour TSP monitoring results were recorded during the reporting month. Besides, no day-time and holiday noise levels were recorded at all monitoring stations exceeded the Action and Limit Level in this reporting month. No evening-time and night-time noise monitoring were required since no construction works were processed during these periods.

During the restricted hours, ET found that the PMEs used complied with the requirements stated in the valid CNP and no PMEs other than ones specified in the CNP to be used in the site.

No water quality monitoring were carried out in this reporting month since no construction wastewater were discharged at the discharge point.

According to the ET weekly site inspections and IEC monthly site audit carried out this month, it indicated that site practices of the POC were generally undertaken in an environmentally acceptable manner and the overall site environmental performance was satisfactory.

12.0 FUTURE KEY ISSUES

12.1 Upcoming EM&A Schedule in coming two months

The Proposed EM&A program in coming two months are presented as following table:

Table 12.1 – Upcoming EM&A Schedule in coming two months

Type of Monitoring	May 2005	June 2005
Noise Monitoring (Day-time)	03, 10, 17, 24, 31	07, 14, 21, 28
1-hour TSP	03, 05, 07, 10, 12, 14, 17, 19, 21, 24, 26, 28, 31	02, 04, 07, 09, 11, 14, 16, 18, 21, 23, 25, 28, 30
24-hour TSP	03, 09, 14, 20, 26	01, 07, 13, 18, 24, 30
Site Inspection	07, 14, 21, 28	04, 11, 18, 25

12.2 Upcoming construction works schedule in the coming month

The major construction works planned to be carried out in next two months and their possible impact is tabulated (Table 12.2) for reference.

Table 12.2 – Construction Plan in the coming month

Month	Works Planned to be Carried Out
Between May and June 2005	<ul style="list-style-type: none"> ▪ Watermain works in Area 4 ▪ Dismantling of Road D1 bridge deck falsework ▪ Construction of sewer rising main connected to PS1 at area 7B ▪ Construction of sewer rising main connected to PS2 at area 15 ▪ Construction works at pumping station no.1 and no.2 ▪ General landscape works ▪ Installation of irrigation system



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ETS-TESTCONSULT LIMITED

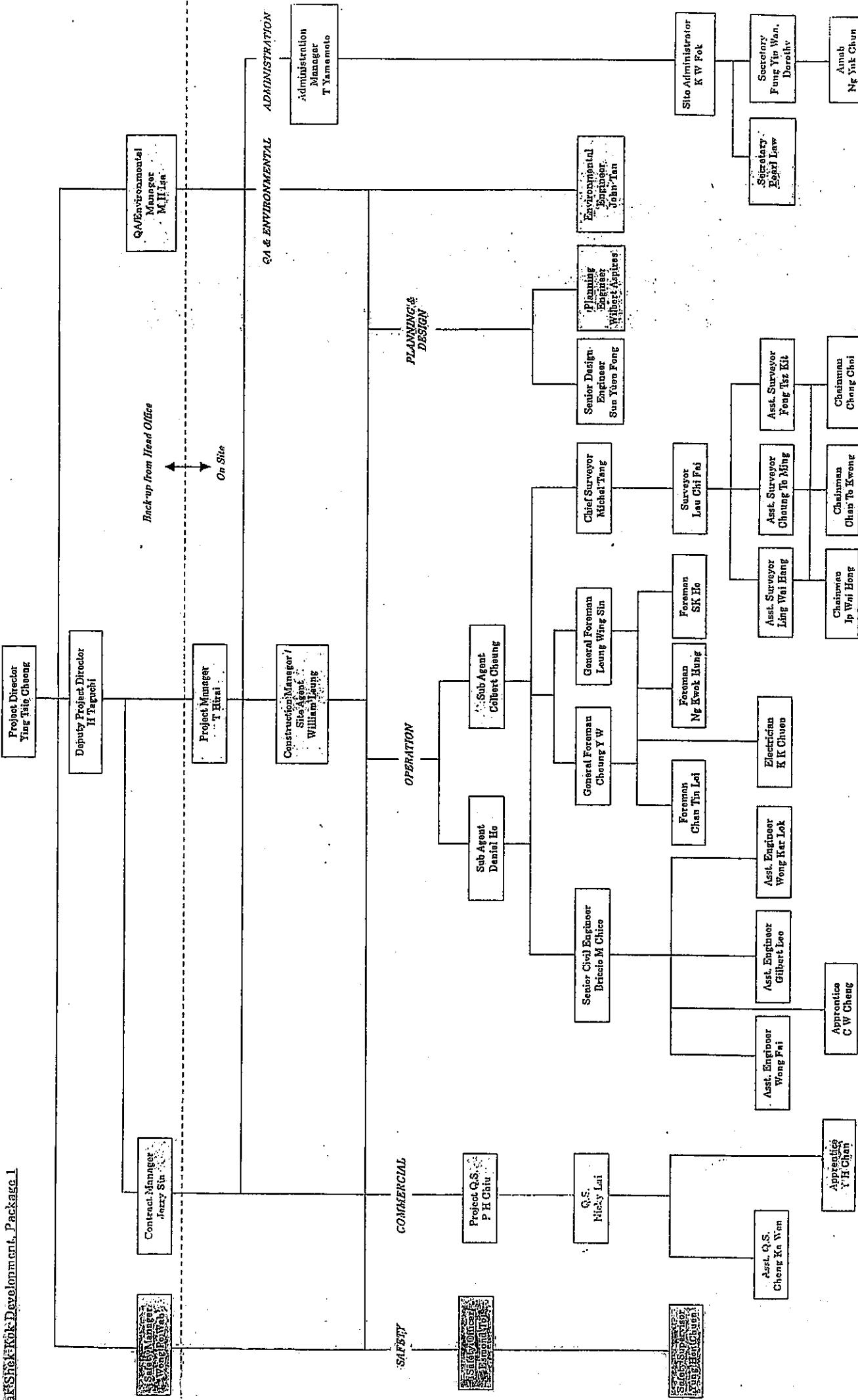
Appendix A

Organization Chart and Lines of Communication

Project Site Organization Chart

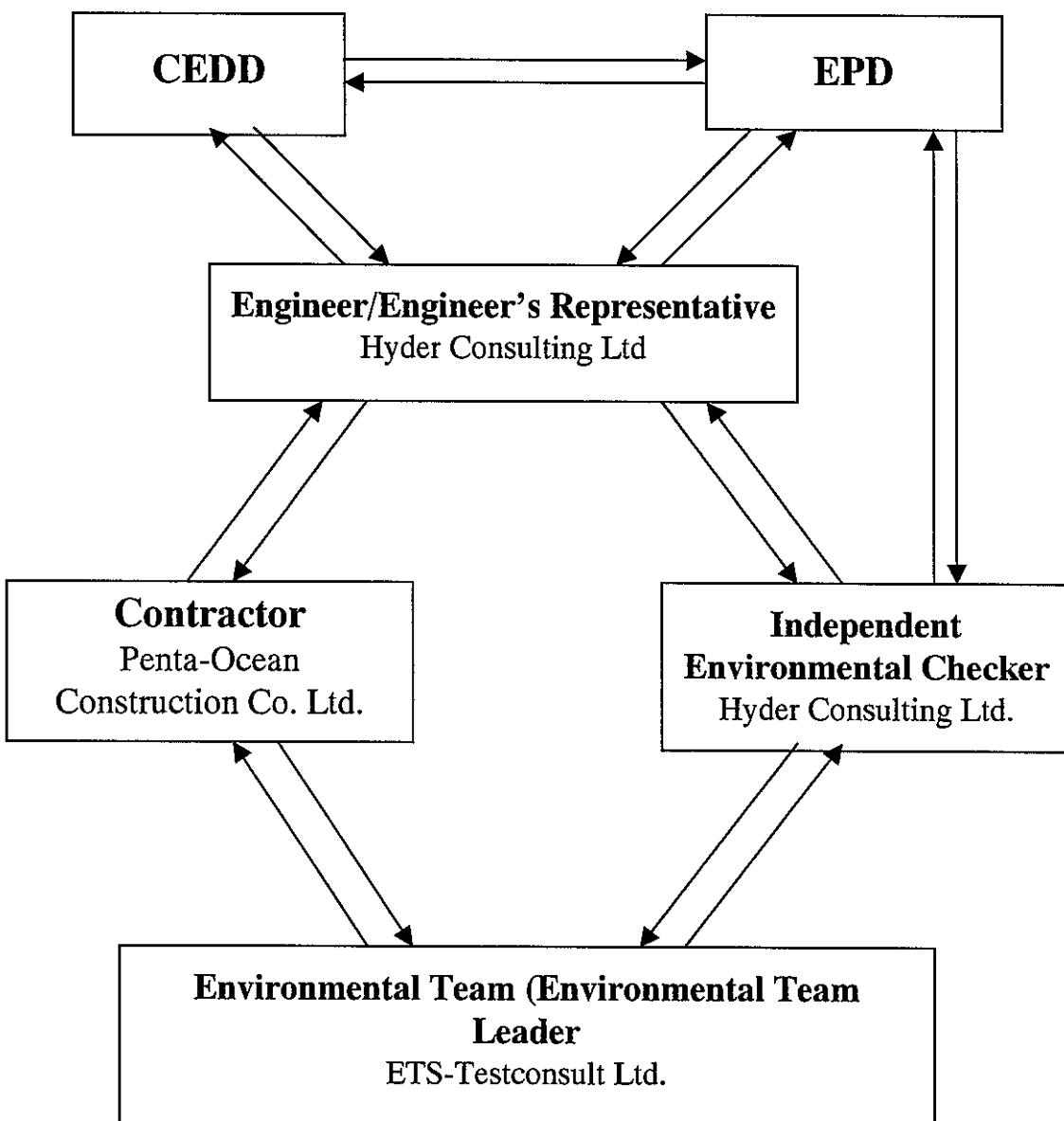
Rev. K

Date : 03-Aug-04





Lines of Communication





東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

Appendix B1

Calibration Certificates for Air Quality Monitoring Equipments



東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong
Tel : 2695 8318 E-mail : eti@ets-testconsult.com
Fax : 2695 3944 Web site : www.ets-testconsult.com

TEST REPORT

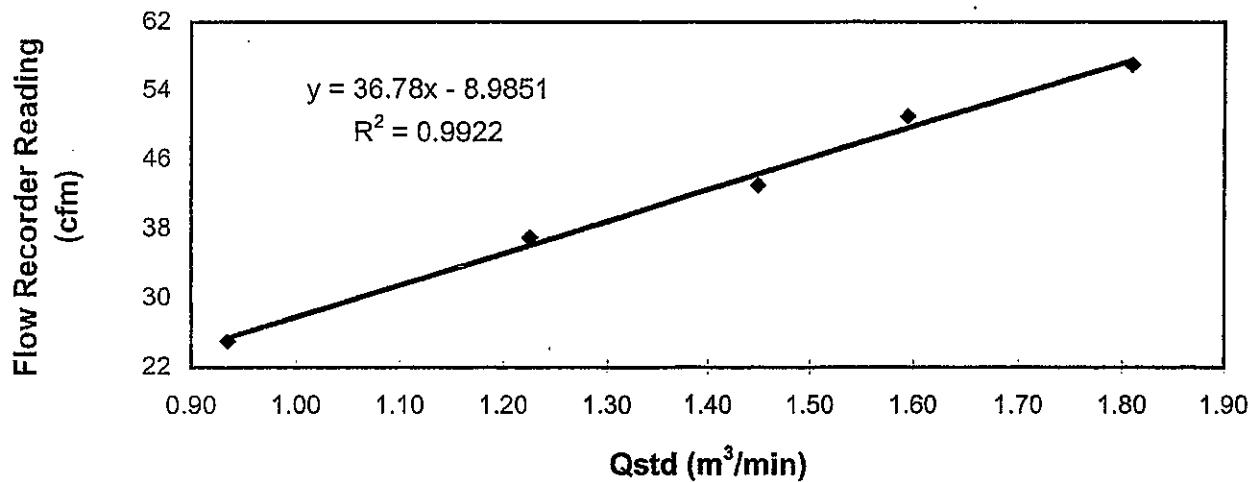
**Calibration Report
of
High Volume Air Sampler**

Manufacturer	: Greasby GMW	Date of Calibration	: 15 March 2005
Serial No.	: 1178 (ET / EA / 003 / 01)	Calibration Due Date	: 14 May 2005
Method	Based on Operations Manual for Graseby Model GS2310 series using calibration kit TE-5025A		
Results	Flow recorder reading (cfm)	57	51
	Qstd (Actual flow rate, m ³ /min)	1.81	1.59
	Pressure : 763.56 mm Hg	43	37
		Temp. : 287 K	25

Sampler 1178 Calibration Curve

Site: Pak Shek Kok Monitoring Station AM1 (24hr.)

Date of Calibration: 15 March 2005



Acceptance Criteria : Correlation coefficient (*r*) of the calibration curve greater than 0.990 after a 5 point calibration

The high volume sampler complies * / does not comply* with the specified requirements and is deemed acceptable */ unacceptable* for use.

Calibrated by : 
Felix Tin
(Technician)

Approved by : 
H. T. Chow
(Asst. Environmental Officer)



東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

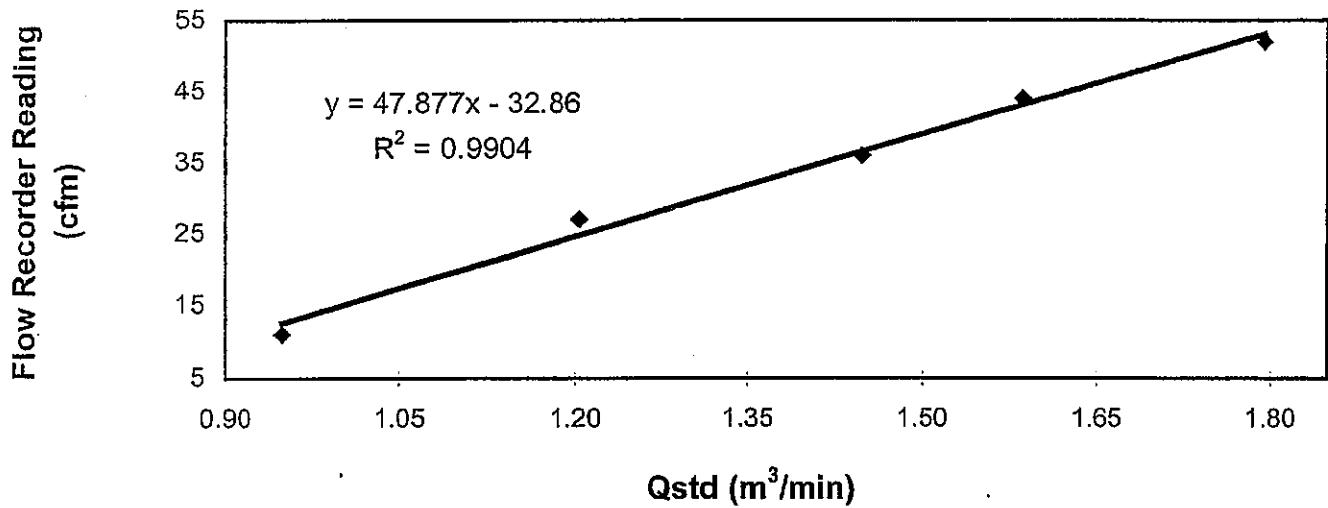
8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong
Tel : 2695 8318 E-mail : etl@ets-testconsult.com
Fax : 2695 3944 Web site : www.ets-testconsult.com

TEST REPORT

Calibration Report
of
High Volume Air Sampler

Manufacturer	:	Greasby GMW	Date of Calibration	:	15 March 2005
Serial No.	:	7179 (ET / EA / 003 / 16)	Calibration Due Date	:	14 May 2005
Method	:	Based on Operations Manual for Graseby Model GS2310 series using calibration kit TE-5025A			
Results	:	Flow recorder reading (cfm)	52	44	36
		Qstd (Actual flow rate, m ³ /min)	1.79	1.59	1.45
		Pressure : 763.56 mm Hg	27	1.20	0.95
			Temp. : 287 K		

Sampler 7179 Calibration Curve
Site: Pak Shek Kok (AM3A)
Date of Calibration: 15 March 2005



Acceptance Criteria : Correlation coefficient (*r*) of the calibration curve greater than 0.990 after a 5 point calibration

The high volume sampler complies * / does not comply * with the specified requirements and is deemed acceptable */ unacceptable * for use.

Calibrated by :

Felix Tin
(Technician)

Approved by :

H. T. Chow
(Asst. Environmental Officer)



東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

Appendix B2

Air Quality Monitoring Results

Summary of 24-hr TSP Monitoring Results

Monitoring Station : AM1
Location : HKIB Staff Accommodation

Start	Finish	Elapse Time	Sampling Time (hrs)	Flow Rate (m³/min.)	Average (m³/min.)	Filter Weight (g)	Conc. (µg/m³)	Weather Condition
Date	Time	Date	Time	Initial	Final	Initial	Final	
04/04/05	08:05	05/04/05	08:10	8141.77	8165.86	24.09	1.43	1.43
09/04/05	15:20	10/04/05	14:50	8189.60	8213.06	23.46	1.55	1.55
15/04/05	13:50	16/04/05	13:52	8237.04	8261.08	24.04	1.55	1.55
21/04/05	08:34	22/04/05	08:59	8285.15	8309.57	24.42	1.49	1.49
27/04/05	15:47	28/04/05	15:21	8333.53	8357.10	23.57	1.49	1.49

Monitoring Station : AM3A
Location : Cheung Shue Tan (in front of Man Kee Store)

Start	Finish	Elapse Time	Sampling Time (hrs)	Flow Rate (m³/min.)	Average (m³/min.)	Filter Weight (g)	Conc. (µg/m³)	Weather Condition
Date	Time	Date	Time	Initial	Final	Initial	Final	
04/04/05	08:28	05/04/05	07:35	13476.24	13499.35	23.11	1.21	1.21
09/04/05	11:10	10/04/05	11:36	13523.29	13547.73	24.44	1.23	1.23
15/04/05	14:05	16/04/05	13:58	13572.07	13595.96	23.89	1.23	1.23
21/04/05	13:05	22/04/05	13:06	13620.14	16644.16	24.02	1.49	1.49
27/04/05	15:27	28/04/05	15:34	13668.42	13692.54	24.12	1.49	1.49

Summary of 1-hr TSP Monitoring Results

Monitoring Station : AM1
Location : HKIB Staff Accommodation

Date	Monitoring Period			1-hr TSP ($\mu\text{g}/\text{m}^3$)			Weather
	Start	Finish	Minimum	Maximum	Average		
02/04/05	08:50	09:50	114	387	164	Cloudy	
06/04/05	08:30	09:30	83	359	121	Cloudy	
07/04/05	10:10	11:10	115	389	155	Cloudy	
09/04/05	15:03	16:03	96	389	127	Cloudy	
12/04/05	10:30	11:30	84	371	122	Cloudy	
14/04/05	09:30	10:30	105	427	180	Cloudy	
16/04/05	10:20	11:20	106	390	148	Cloudy	
19/04/05	08:32	09:32	89	376	135	Sunny	
21/04/05	08:30	09:30	104	395	149	Cloudy	
23/04/05	14:10	15:10	91	362	127	Cloudy	
26/04/05	15:10	16:10	97	380	186	Cloudy	
28/04/05	10:00	11:00	104	392	165	Cloudy	
30/04/05	10:40	11:40	90	365	173	Cloudy	

Monitoring Station : AM3
Location : Cheung Shue Tan Village (near the outer building, a temple)

Date	Monitoring Period			1-hr TSP ($\mu\text{g}/\text{m}^3$)			Weather
	Start	Finish	Minimum	Maximum	Average		
02/04/05	10:10	11:10	92	340	150	Cloudy	
06/04/05	10:30	11:30	71	309	104	Cloudy	
07/04/05	08:40	09:40	109	362	141	Cloudy	
09/04/05	10:58	11:58	77	336	88	Cloudy	
12/04/05	13:00	14:00	79	312	103	Cloudy	
14/04/05	10:45	11:45	99	372	160	Cloudy	
16/04/05	13:30	14:30	93	349	137	Cloudy	
19/04/05	17:02	18:02	82	351	95	Sunny	
21/04/05	13:10	14:10	75	337	111	Cloudy	
23/04/05	09:30	10:30	87	342	89	Cloudy	
26/04/05	10:18	11:18	84	335	121	Cloudy	
28/04/05	16:30	17:30	90	340	120	Cloudy	
30/04/05	13:00	14:00	70	324	152	Cloudy	



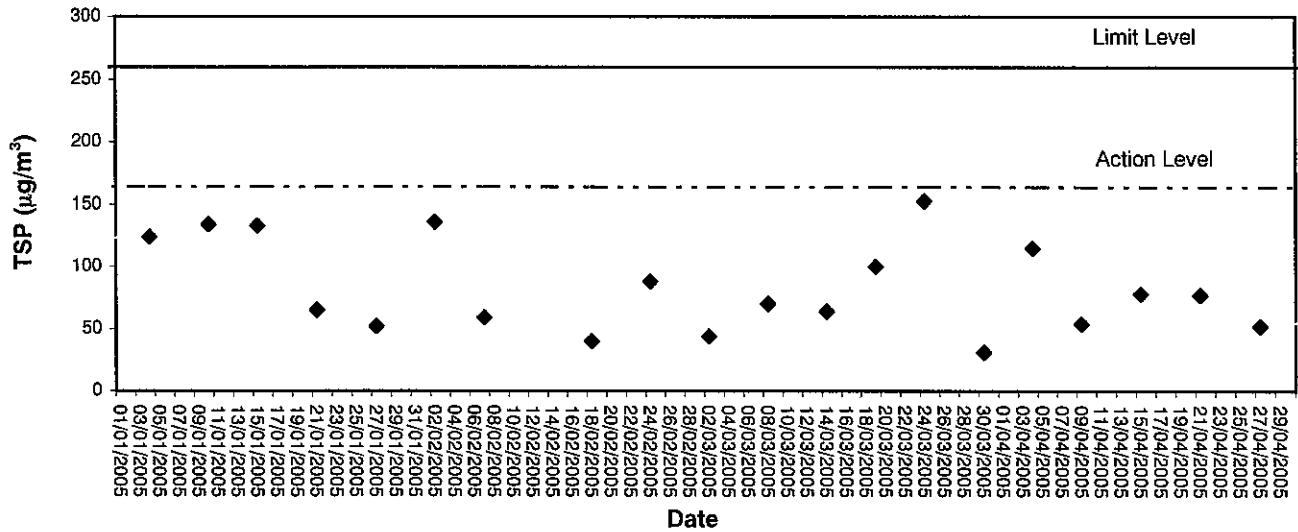
東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

Appendix B3

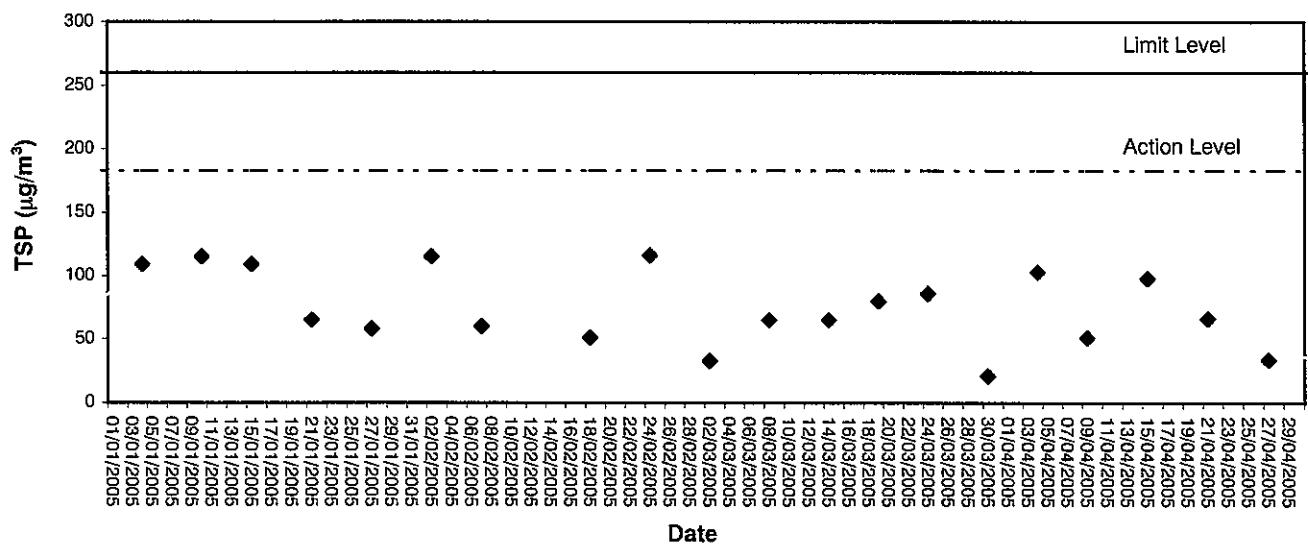
Graphical Plots of Air Quality Monitoring Data



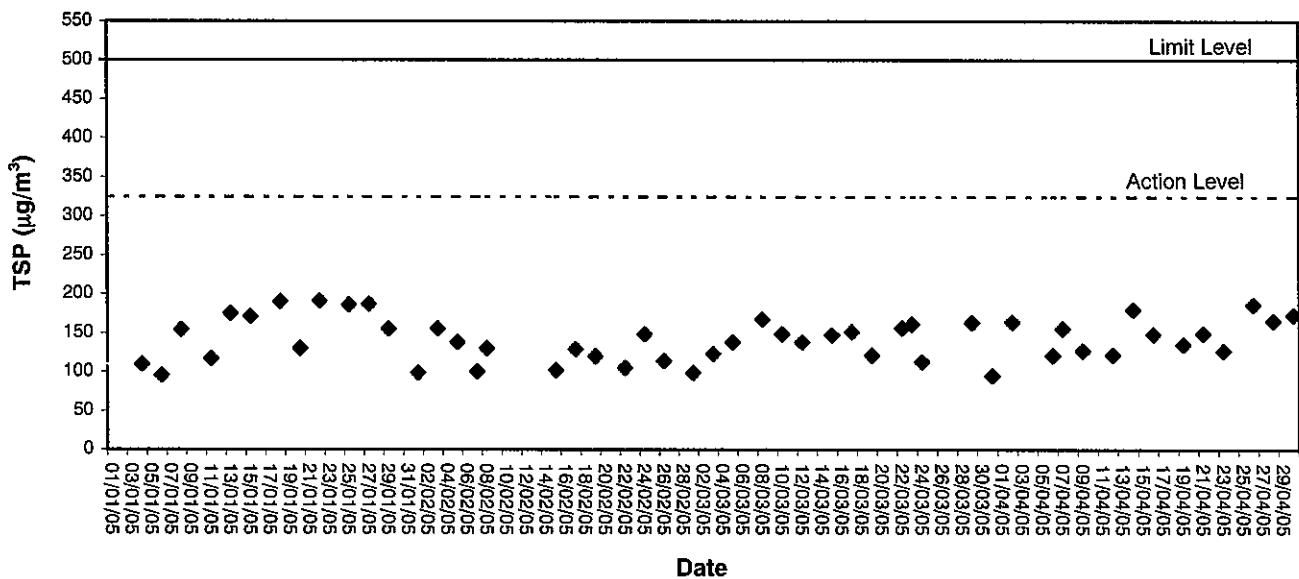
24-hour TSP level at AM1 (HKIB Staff Accommodation)



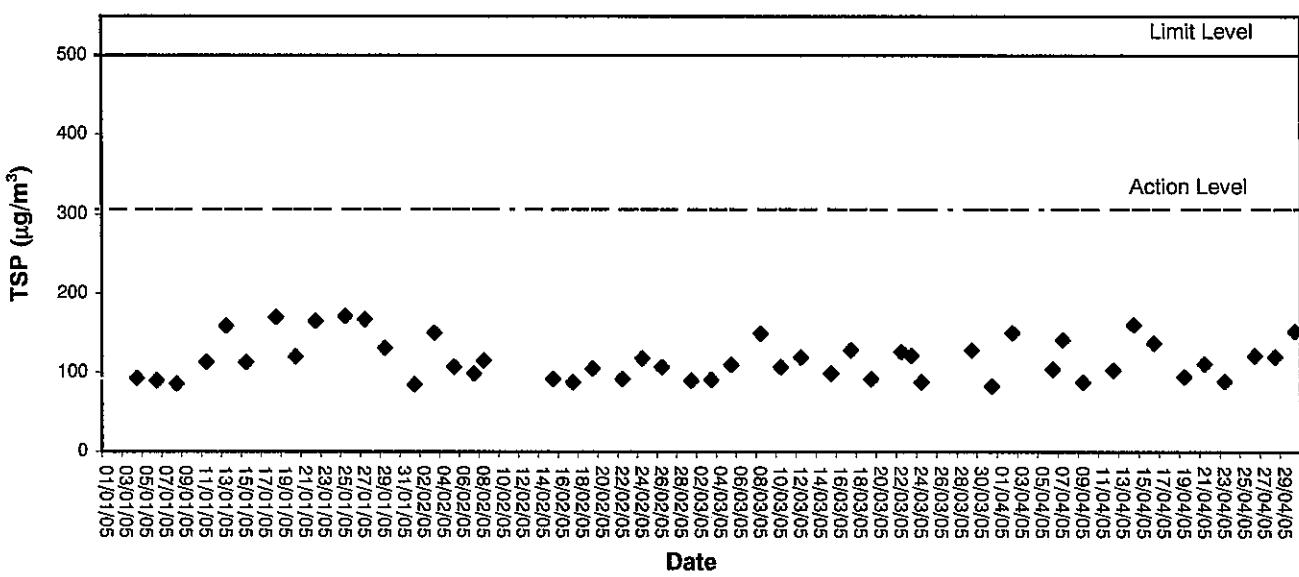
24-hour TSP level at AM3A (Cheung Shue Tan in front of Man Kee Store)



1-hour TSP level at AM1, HKIB Staff Accommodation



1-hour TSP level at AM3, Cheung Shue Tan Village (near the outer building, a temple)



Appendix C1

Calibration Certificates for Noise Monitoring Equipments



Hong Kong Calibration Ltd.

香港校正有限公司

Calibration Certificate

Certificate No. 44393

Page 1 of 3 Pages

Customer : ETS-Testconsult Limited

Address : 8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan St., Fotan, Hong Kong.

Order No. : Q41524

Date of receipt : 23-Sep-04

Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : Rion

Model : NL-31

Serial No. : 00110024

Test Conditions

Date of Test : 28-Sep-04

Supply Voltage : --

Ambient Temperature : (22.5 ± 2.5)°C

Relative Humidity : (50 ± 20) %

Test Specifications

Calibration check according to customer's requirement.

Calibration procedure : Z01.

Test Results

All results were within the manufacturer's, IEC 651 Type 1, IEC 804 Type 1 specification.

The results are shown in the attached page(s).

Test equipment used:

Equipment No.	Cert. No.	Due Date	Traceable to
S017	S30857	8-Apr-05	PRC-NIM
S024	S41431	22-May-05	PRC-NIM

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to national standards/International System of Units (SI).
The test results apply to the above Unit-Under-Test only

Calibrated by :

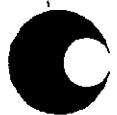
Approved by :

Alan Chu - Manager

Date: 28-Sep-04

This Certificate is issued by:
Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.
Tel: 2425 8801 Fax: 2425 8646



Hong Kong Calibration Ltd.

香港校正有限公司

Calibration Certificate

Certificate No. 44393

Page 2 of 3 Pages

Results :

1. SPL Accuracy

UUT Setting			UUT Reading (dB)	Correction (dB)
Level Range (dB)	Weight	Response		
20 - 100	L _A	Fast	94.0	+ 0.2
		Slow		+ 0.3
	L _C	Fast		+ 0.2
	L _p	Fast		+ 0.2
30 - 120	L _A	Fast	94.0	+ 0.3
		Slow		+ 0.3
	L _C	Fast		+ 0.3
	L _p	Fast		+ 0.2
30 - 120	L _A	Fast	114.0	+ 0.4
		Slow		+ 0.4
	L _C	Fast		+ 0.4
	L _p	Fast		+ 0.3

IEC 651 Type 1 Spec. : ± 0.7 dB

Uncertainty : ± 0.2 dB

2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. : ± 0.3 dB

Uncertainty : ± 0.01 dB



Hong Kong Calibration Ltd.

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Calibration Certificate

Certificate No. 44393

Page 3 of 3 Pages

3. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	- 39.6	- 39.4 dB, ± 1.5 dB
63 Hz	- 26.2	- 26.2 dB, ± 1.5 dB
125 Hz	- 16.3	- 16.1 dB, ± 1 dB
250 Hz	- 8.8	- 8.6 dB, ± 1 dB
500 Hz	- 3.3	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref.)	0 dB, ± 1 dB
2 kHz	+ 1.2	+ 1.2 dB, ± 1 dB
5 kHz	+ 1.1	+ 1.0 dB, ± 1 dB
8 kHz	- 1.2	- 1.1 dB, + 1.5 dB ~ - 3 dB
16 kHz	- 6.7	- 6.6 dB, + 3 dB ~ ∞

Uncertainty : ± 0.1 dB

4. Time Averaging

Applied Burst duty Factor	UUT Reading (dB)	Correction (dB)	IEC 804 Type 1 Spec.
continuous	40.0	--	--
1/10	40.0	0.0	± 0.5 dB
1/10 ²	39.9	+ 0.1	
1/10 ³	39.9	+ 0.1	± 1.0 dB
1/10 ⁴	39.9	+ 0.1	

Uncertainty : ± 0.1 dB

Remark : 1. UUT : Unit-Under-Test

2. True Value = UUT Reading + Correction.
3. The uncertainty claimed is for a confidence probability of not less than 95%.
4. Atmospheric Pressure : 990 hPa.

----- END -----



Hong Kong Calibration Ltd.

香港校正有限公司

Calibration Certificate

Certificate No. 42531

Page 1 of 2 Pages

Customer : ETS-Testconsult Limited

Address : 8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan St., Fotan, Hong Kong.

Order No. : Q40790

Date of receipt : 27-May-04

Item Tested

Description : Acoustic Calibrator

Manufacturer : Castle

Model : GA607

Serial No. : 038641

Test Conditions

Date of Test : 28-May-04

Supply Voltage : --

Ambient Temperature : (22.5 ± 2.5)°C

Relative Humidity : (50 ± 20) %

Test Specifications

Calibration check according to customer's requirement.

Calibration procedure : F06, F20, Z02.

Test Results

All results were within the manufacturer's, IEC 942 Class 1 specification.

The results are shown in the attached page(s).

Test equipment used:

<u>Equipment No.</u>	<u>Cert. No.</u>	<u>Due Date</u>	<u>Traceable to</u>
S014	30961	1-Jun-04	PRC-NIM
S024	S41431	22-May-05	PRC-NIM
S041	35075	2-Dec-04	PRC-NIM

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to national standards/International System of Units (SI).
The test results apply to the above Unit-Under-Test only

Calibrated by :

Approved by :

Alan Chu - Manager

This Certificate is issued by:
Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.
Tel: 2425 8801 Fax: 2425 8646

Date: 28-May-04



Hong Kong Calibration Ltd.

香港校正有限公司

Calibration Certificate

Certificate No. 42531

Page 2 of 2 Pages

Results :

1. Level Accuracy (at 1 kHz)

UUT Setting (dB)	Measured Value (dB)	IEC 942 Class 1 Spec.
94	93.8	± 0.3 dB

Uncertainty : ± 0.2 dB

2. Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	IEC 942 Class 1 Spec.
1	1.006	± 2 %

Uncertainty : ± 3.6×10^{-6}

3. Level Stability : 0.0 dB

IEC 942 Class 1 Spec. : ± 0.1 dB

Uncertainty : ± 0.01 dB

4. Total Harmonic Distortion : < 1.7 %

IEC 942 Class 1 Spec. : < 3 %

Uncertainty : ± 2.3 % of rdg.

Remark : 1. UUT : Unit-Under-Test

2. The above measured values are the mean of 3 measurements.

3. The uncertainty claimed is for a confidence probability of not less than 95%.

4. Atmospheric Pressure : 992 hPa

----- END -----

Appendix C2

Noise Monitoring Results

Day-time Noise Monitoring

Monitoring Location: NM1 (HKIB Staff Accommodation)

Date	Start Sampling Time (hh:mm)	Noise Level dB (A)			Wind Speed (m/s)	Weather Condition
		L _{eq} (30)	L10	L90		
06/04/05	08:40	60.2	61.5	55.9	1.4	Cloudy
12/04/05	10:34	58.8	61.1	55.6	1.4	Cloudy
19/04/05	08:35	58.2	60.5	56.7	0.8	Sunny
26/04/05	15:12	58.5	61.2	54.9	0.8	Cloudy

Monitoring Location: NM2 (CUHK Residence No.10)

Date	Start Sampling Time (hh:mm)	Noise Level dB (A)			Wind Speed (m/s)	Weather Condition
		L _{eq} (30)	L10	L90		
06/04/05	09:45	57.9	59.8	54.2	1.2	Cloudy
12/04/05	11:24	57.4	58.2	53.3	1.2	Cloudy
19/04/05	18:20	55.1	57.3	52.5	0.4	Sunny
26/04/05	18:05	55.2	57.8	52.3	0.5	Cloudy

Monitoring Location: NM3 (Cheung Shue Tan Village)

Date	Start Sampling Time (hh:mm)	Noise Level dB (A)			Wind Speed (m/s)	Weather Condition
		L _{eq} (30)	L10	L90		
06/04/05	10:39	55.3	56.7	50.0	1.0	Cloudy
12/04/05	13:05	56.6	58.3	50.1	0.9	Cloudy
19/04/05	17:08	52.8	55.0	49.7	0.8	Sunny
26/04/05	10:20	53.8	56.0	49.8	0.5	Cloudy

Holiday Noise Monitoring

Monitoring Location: NM1 (HKIB Staff Accommodation)

Date	Start Sampling Time	Noise Level dB (A)										Wind Speed (m/s)	Weather Condition
		L _{eq} (5)			L10			L90					
03/04/05	09:45	57.6	58.0	58.3	59.8	60.1	60.4	55.2	55.4	55.7	0.8	Cloudy	
10/04/05	14:10	60.1	58.1	57.3	61.9	60.3	59.2	53.1	52.6	52.4	1.3	Cloudy	
17/04/05	09:45	57.9	57.5	57.0	59.8	59.6	59.2	54.3	54.2	54.0	0.7	Cloudy	
24/04/05	14:20	60.2	60.5	60.8	63.4	63.9	64.1	57.2	57.4	57.9	0.7	Sunny	

Monitoring Location: NM2 (CUHK Residence No.10)

Date	Start Sampling Time	Noise Level dB (A)										Wind Speed (m/s)	Weather Condition
		L _{eq} (5)			L10			L90					
03/04/05	10:10	54.7	55.0	54.8	57.0	57.5	56.9	52.6	52.9	52.4	0.5	Cloudy	
10/04/05	14:45	57.8	56.3	57.1	59.6	58.2	59.4	51.7	52.0	51.5	1.2	Cloudy	
17/04/05	10:10	54.7	55.0	54.9	57.0	57.4	57.3	52.3	52.7	52.5	0.4	Cloudy	
24/04/05	14:48	55.7	56.0	55.1	58.7	59.4	58.3	52.2	52.6	51.5	0.5	Sunny	

Monitoring Location: NM3 (Cheung Shue Tan Village)

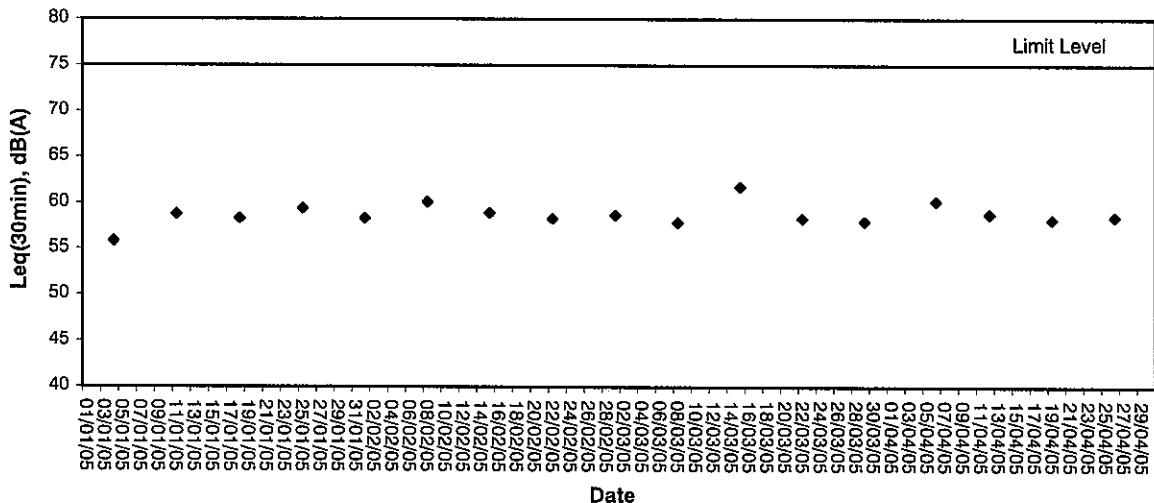
Date	Start Sampling Time	Noise Level dB (A)										Wind Speed (m/s)	Weather Condition
		L _{eq} (5)			L10			L90					
03/04/05	10:40	52.7	53.0	53.2	55.0	55.4	55.6	49.8	50.2	50.5	0.8	Cloudy	
10/04/05	15:20	55.4	57.1	56.0	57.2	59.0	58.3	50.6	51.4	50.9	0.8	Cloudy	
17/04/05	10:40	53.4	53.2	53.0	55.8	55.6	55.1	49.7	49.5	49.3	0.4	Cloudy	
24/04/05	15:15	52.1	51.4	51.0	54.9	54.3	53.7	48.6	48.2	47.4	0.7	Sunny	

Appendix C3

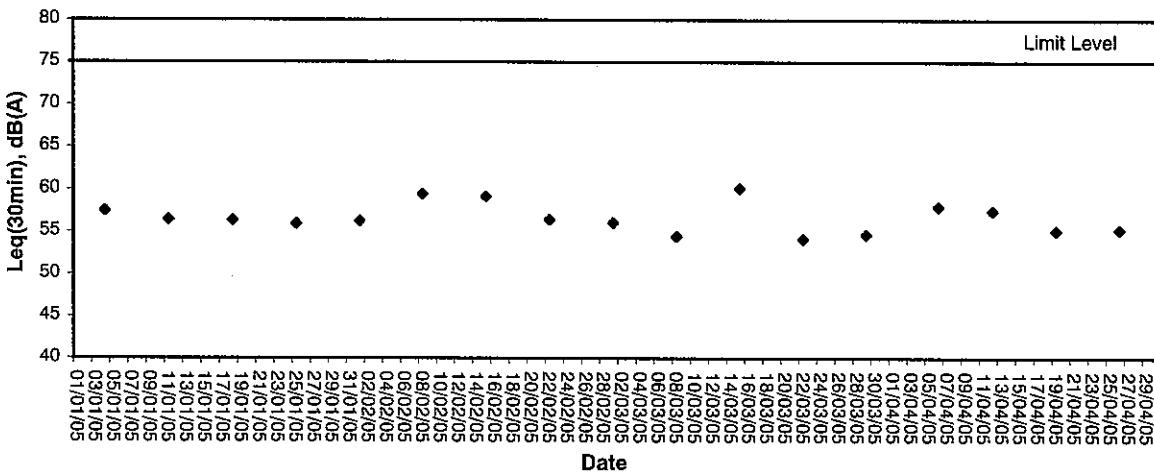
Graphical Plots of Noise Monitoring Data

Noise Monitoring (Day-time)

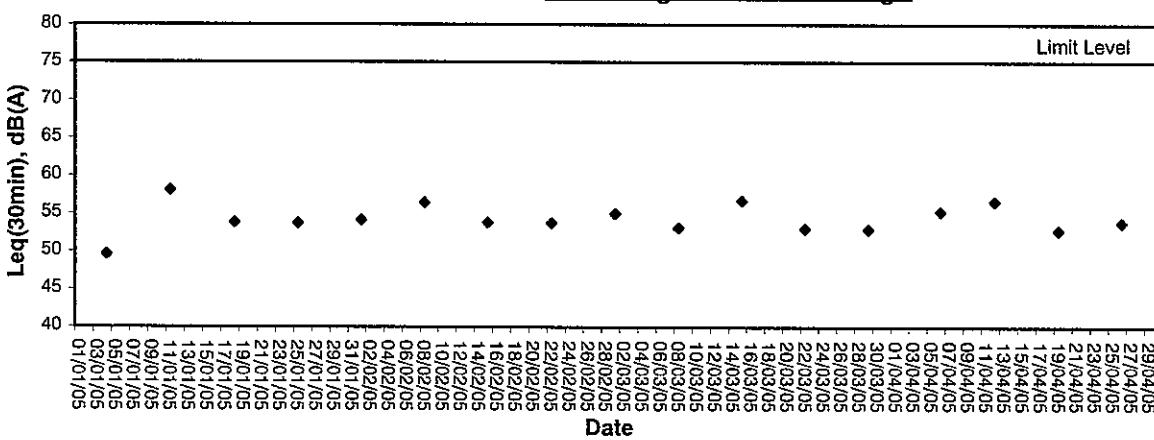
Noise level at NM1, HKIB Staff Accommodation



Noise level at NM2, CUHK Residence No.10

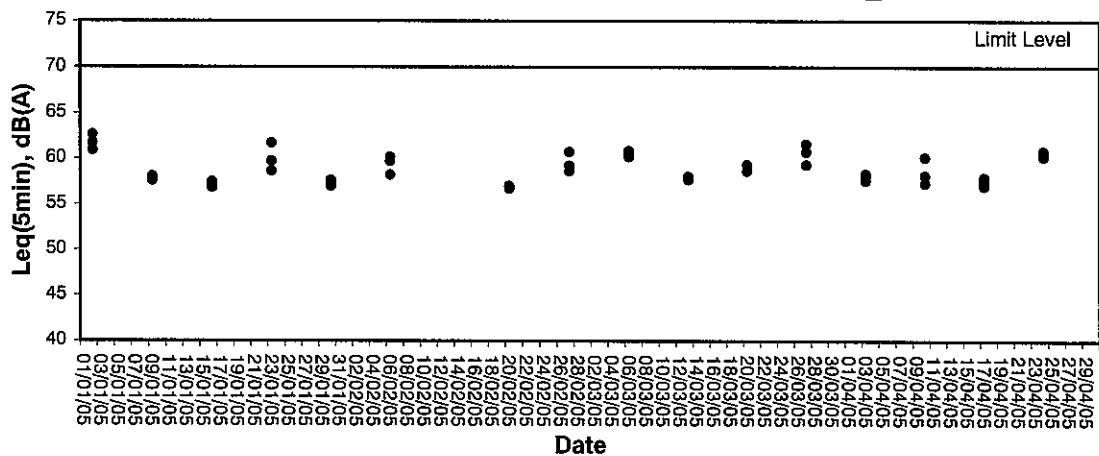


Noise level at NM3, Cheung Shue Tan Village

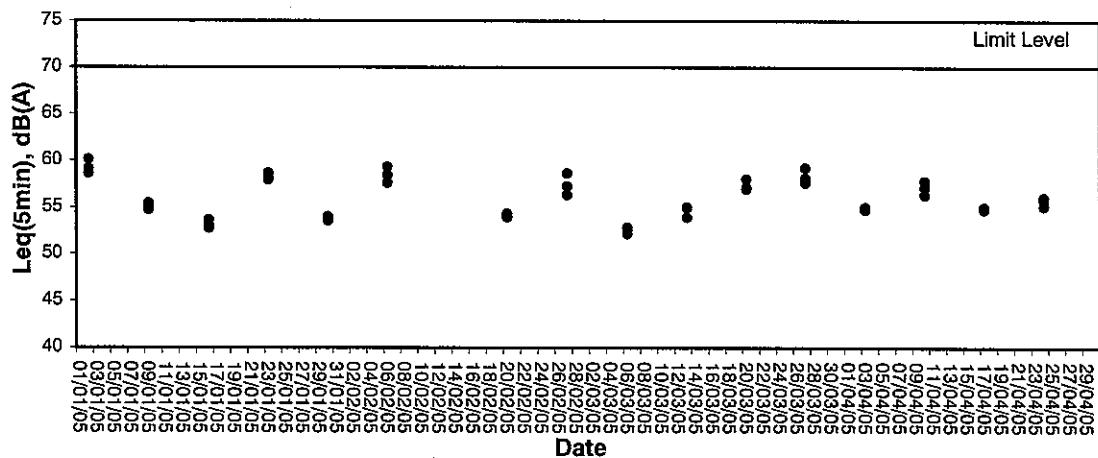


Noise Monitoring (Holiday)

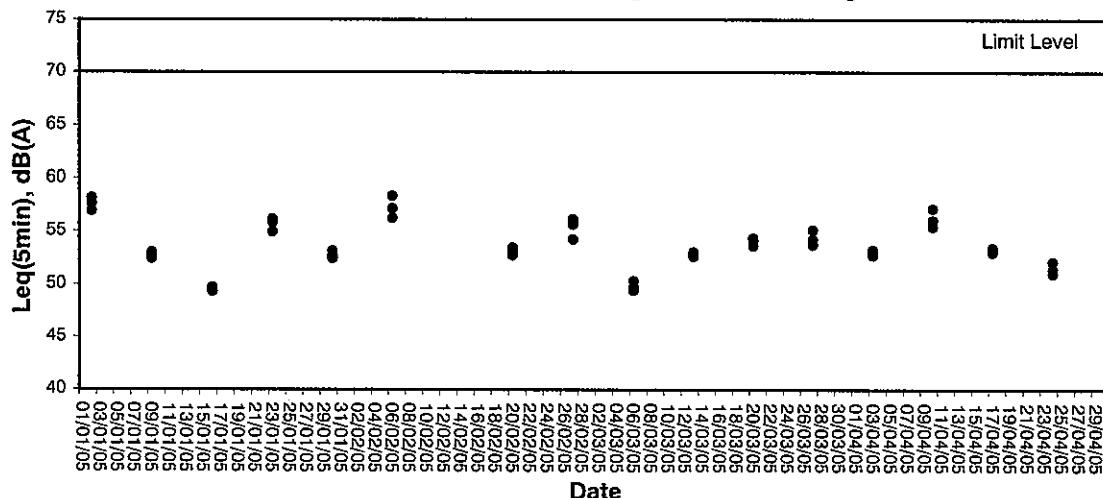
Noise level at NM1, HKIB Staff Accommodation



Noise level at NM2, CUHK Residence No.10



Noise level at NM3, Cheung Shue Tan Village





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Appendix D

Weather Condition



Weather Condition

Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp. (°C)	Relative Humidity (%)	Wind Direction	Wind Speed (m/s)
01/04/05	Trace	18.4	17.1	91	E	<5
02/04/05	0.2	23.1	18.0	81	N	<5
03/04/05	-	25.1	19.1	72	NE	<5
04/04/05	-	22.6	19.1	70	E	<5
05/04/05	-	21.6	18.9	76	E	<5
06/04/05	-	24.8	19.6	83	NE	<5
07/04/05	-	26.9	20.9	86	NE	<5
08/04/05	0.4	26.4	22.6	87	SE	<5
09/04/05	-	28.2	24.2	84	S	<5
10/04/05	-	27.4	24.5	86	S	<5
11/04/05	Trace	28.4	24.3	83	SE	<5
12/04/05	4.1	24.6	17.3	90	NE	<5
13/04/05	15.7	17.3	14.6	91	N	<5
14/04/05	0.3	22.9	17.0	75	NE	<5
15/04/05	0.3	22.8	19.5	79	NE	<5
16/04/05	1.4	22.1	19.8	85	E	<5
17/04/05	Trace	23.1	20.0	80	E	<5
18/04/05	-	26.3	21.0	80	NE	<5
19/04/05	-	27.5	21.9	79	E	<5
20/04/05	-	29.2	22.6	77	E	<5
21/04/05	-	26.3	22.9	84	NE	<5
22/04/05	-	28.8	22.9	81	E	<5
23/04/05	-	28.7	24.0	83	E	<5
24/04/05	-	27.2	23.8	87	E	<5
25/04/05	3.5	25.5	23.7	91	E	<5
26/04/05	Trace	25.1	22.7	89	E	<5
27/04/05	3.1	22.9	21.2	92	NE	<5
28/04/05	0.2	28.2	22.2	85	NE	<5
29/04/05	2.4	28.8	25.9	83	S	<5
30/04/05	0.7	29.2	26.3	82	S	<5

Remark: Data of wind speed and wind direction were extracted from Hong Kong Observatory (Shatin Station).

Appendix E

Event-Action Plans

Event / Action Plan for Air Quality

EVENT	ET Leader	IC(E)	ACTION	
			ER	CNOTRACTOR
Action Level				
1. Exceedance of one sample	1. Identify source 2. Inform IC(E) and ER 3. Repeat measurement to confirm finding 4. Increase monitoring frequency to daily	1. Check monitoring data submitted by ET 2. Check Contractor's working method.	1. Notify Contractor	1. Rectify any unacceptable practice 2. Amend working methods if possible
2. Exceedance for two more consecutive samples	1. Identify source 2. Inform IC(E) and ER 3. Repeat measurement to confirm findings 4. Increase monitoring frequency to daily 5. Discuss with IC(E) and Contractor on remedial actions required 6. If exceedance continuous, arrange meeting with IC(E) and ER 7. If exceedance stops, cease additional monitoring	1. Checking monitoring data submitted by ET 2. Check Contractor's working method 3. Discuss with ET and Contractor on possible remedial measures 4. Advise the ER on the effectiveness of the proposed remedial measures 5. Supervisor implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. Ensure remedial measures properly implemented	1. Submit proposals for remedial action to IC(E) within 3 working days of notification 2. Implement the agreed proposals 3. Amend proposal if possible
Limit Level				
1. Exceedance of one sample	1. Identify source 2. Inform ER and EPD 3. Repeat measurement to confirm finding 4. Increase monitoring frequency to daily 5. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results	1. Check monitoring data submitted by ET 2. Check Contractor's working method. 3. Discuss with ET and Contractor on possible remedial measures 4. Advise the ER on the effectiveness of the proposal remedial measures 5. Supervisor implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. Ensure remedial measures properly implemented	1. Take immediate action to avoid further exceedance 2. Submit proposal for remedial actions to IC(E) within 3 working days of notification 3. Implement the agreed proposals 4. Amend proposal if appropriate
2. Exceedance for two or more consecutive samples	1. Notify IC(E), ER, Contractor and EPD 2. Identify source 3. Repeat measurement to confirm findings 4. Increase monitoring frequency to daily 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented 6. Arrange meeting with IC(E) and ER to discuss the remedial actions to be taken 7. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER to discuss the remedial action to be taken 8. If exceedance stops, cease additional monitoring	1. Discuss amongst ER, ET, and Contractor on potential remedial actions 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly 3. Supervise the implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. In consultation with the IC(E), agreed with the Contractor on the remedial measures to be implemented 4. Ensure remedial measures properly implemented	1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification 3. Implement the agreed proposals 4. Resubmit proposals if possible still not under control 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.
				If exceedance continues, consider what portion of this work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.

Event / Action Plan for Construction Noise

EVENT	ET Leader	IC(E)	ACTION	
			ER	CNOTRATOR
Action Level	<ol style="list-style-type: none"> Notify IC(E) and Contractor Carry out investigation Report the results of investigation to the IC(E) and Contractor Discuss with the Contractor and formulate remedial measures Increase monitoring frequency to check mitigation effectiveness 	<ol style="list-style-type: none"> Review the analyzed results submitted by the ET Review the proposed remedial measures by the Contractor and advise the ER accordingly Supervise the implementation of remedial measures 	<ol style="list-style-type: none"> Confirm receipt of notification of failure in writing Notify Contractor Require Contractor to propose remedial measures for the analyzed noise problem Ensure remedial measures are properly implemented 	<ol style="list-style-type: none"> Submit noise mitigation proposal to IC(E) Implement noise mitigation proposals
Limit Level	<ol style="list-style-type: none"> Notify IC(E), ER, and Contractor Identify source Repeat measurement to confirm findings Increase monitoring frequency Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented Inform IC(E), ER and EPD the causes & action taken for the exceedances Assess effectiveness of Contractor's remedial action and keep IC(E), EPD and ER informed to the results If exceedance stops, cease additional monitoring 	<ol style="list-style-type: none"> Discuss amongst ER, ET and Contractor on the potential remedial actions Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly Supervise the implementation of remedial measures 	<ol style="list-style-type: none"> Confirm receipt of notification of failure in writing Notify Contractor Require Contractor to propose remedial measures for the analysed noise problem Ensure remedial measures are properly implemented If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated 	<ol style="list-style-type: none"> Take immediate action to avoid further exceedance Submit proposals for remedial actions to IC(E) within 3 working days of notification Implement the agreed proposals Resubmit proposals if problem still not under control Stop the relevant portion of works as determined by the ER until the exceedance is abated



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Appendix F

Construction Programme

Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Percent Complete
BS-130580	Continue Screen Room to GL(Walls,Slabs & Beams)	81	15SEP04 A	15SEP04 A	22SEP04 A	22SEP04 A	100	0
BS-130580	Backfilling @ G.L. 4 Wall	2	18SEP04 A	20SEP04 A	18SEP04 A	18SEP04 A	100	0
BS-130590	Construct Footing of Transformer Room	12	21SEP04 A	02OCT04 A	02OCT04 A	02OCT04 A	100	0
BS-130670	Other Walls to GL(Walls,Beams & Slabs) remaining	20	21SEP04 A	09OCT04 A	21SEP04 A	09OCT04 A	100	0
BS-130640	Construct Transformer Room Structure	13	08OCT04 A	29OCT04 A	08OCT04 A	29OCT04 A	100	0
BS-130630	Walls and Ground Slab Curing Period	7	08OCT04 A	16OCT04 A	09OCT04 A	16OCT04 A	100	0
BS-130640	Walls, Beams & Roof Construction	14	11OCT04 A	05NOV04 A	11OCT04 A	05NOV04 A	100	0
BS-130610	Curing and formworks removal	7	06NOV04 A	20NOV04 A	06NOV04 A	20NOV04 A	100	0
BS-130650	Waterproofing Walls & slab soffit	4	11OCT04 A	21OCT04 A	11OCT04 A	21OCT04 A	100	0
BS-130660	Water Tightness Test of Group A Screen Room	18	25OCT04 A	02DEC04 A	25OCT04 A	02DEC04 A	100	0
BS-130680	Water Tightness Test of Group B Screen Room	18	06NOV04 A	04DEC04	06NOV04 A	21DEC04	17d	84
BS-131020	Preparation works for Wet Well Watertightness	12	10DEC04	16DEC04	10DEC04	22DEC04	02JAN05	0
BS-131000	Watertightness Test of Group A Wet Well	18	17DEC04	03JAN05	17DEC04	03JAN05	20JAN05	0
BS-131010	Watertightness Test of Group B Wet Well	18	04JAN05	21JAN05	04JAN05	14FEB05	17FEB05	0
BS-130760	Staircase Construction & Platform @ Dry Well	25	26NOV04 A	20DEC04	26NOV04 A	11JAN05	22d	24
BS-130770	Construct Internal Wall @ Screen Room A	7	02DEC04	08DEC04	02DEC04	15MARS05	21MARS05	0
BS-130780	Construct Internal Wall @ Screen Room B	6	05DEC04	10DEC04	05DEC04	16MARS05	21MARS05	0
BS-130740	Buffer Wall & Platform Construction @ Wet Well A	7	04JAN05	10JAN05	04JAN05	15FEB05	21FEB05	0
BS-130750	Buffer Wall & Platform Construction @ Wet Well B	7	22JAN05	28JAN05	22JAN05	15FEB05	21FEB05	0
BS-130790	Rising Main Chamber Construction	39	15NOV04 A	24DEC04	15NOV04 A	31MARS05	90d	42
BS-130790	Inlet Chamber Construction	22	03DEC04 A	22DEC04	03DEC04 A	02APR05	94d	7
BS-130700	Backfilling Works to platform level	20	22JAN05	17FEB05	22JAN05	17FEB05	19d	0
BS-130890	DSD Inspection for Building Works	0	26JAN05	02MAY05	26JAN05	02MAY05	61d	0
BS-130710	Sheetpile Extraction	15	18FEB05	04MARS05	18FEB05	04MARS05	23MARS05	19d
BS-130800	Inlet Chamber connection to PS2	10	03MARS05	12MARS05	03MARS05	06APR05	34d	0
BS-130730	General Backfilling around PS2	10	05MARS05	14MARS05	05MARS05	06APR05	32d	0
BS-131030	Rising Main Chamber connection to PS2	15	05MARS05	19MARS05	05MARS05	01APR05	27d	0
BS-131040	Construct Boundary Wall	15	20MARS05	03APR05	20MARS05	03APR05	27d	0
Phase 12: Finishing Works								
BS-130830	Roof Finishing	30	26NOV04 A	25DEC04	26NOV04 A	25JAN05	31d	20
BS-130820	Finishing Works @ Transformer room	30	03NOV04 A	09DEC04	03NOV04 A	23JAN05	45d	74
BS-130720	E&M works @ Transformer Room	11	10DEC04	20DEC04	10DEC04	03FEB05	45d	0
BS-130900	Completion of Prep.onWindows/Louvres/revisions	0	12OCT04 A	10DEC04 A	10DEC04 A	18DEC04	6d	9
BS-130990	Ceiling Finishing & Painting	12	01DEC04 A	11DEC04 *	01DEC04 A	11DEC04	0	0
BS-130910	Wall Finishing	7	12DEC04	18DEC04	12DEC04	18DEC04	0	0
BS-130920	Wall painting	3	19DEC04	21DEC04	19DEC04	21DEC04	0	0
BS-130930	Platform Removal @ Loading Bay	5	22DEC04	26DEC04	22DEC04	26DEC04	0	0
BS-130940	Booster/Toilet(Brickwall+Plastering+Tile+Paint)	14	27DEC04	02JAN05	27DEC04	02JAN05	6d	0
BS-130950	Newly added Wall w/cabinet	20	27DEC04	15JAN05	27DEC04	15JAN05	0	0
BS-130960	Brickwall @ G.L. 2/7days curing	20	27DEC04	15JAN05	27DEC04	15JAN05	0	0
BS-130970	Finishing Works on these walls	10	16JAN05	25JAN05	16JAN05	25JAN05	0	0
BS-130980	Handover to E&M @ Loading Bay Area	0	26JAN05	28JAN05	26JAN05	28JAN05	0	0
BS-130980	MassConcrete/Platform construction @ Screen RoomA	5	08DEC04	13DEC04	08DEC04	13DEC04	98d	0
BS-130980	MassConcrete/Platform construction @ Screen RoomB	5	11DEC04	15DEC04	11DEC04	15DEC04	94d	0
BS-130850	Pipe Trench Construction @ Dry Well	15	21DEC04	04JAN05	21DEC04	04JAN05	22d	0
BS-130880	Bamboo platform & Finishing @ Dry Well	21	05JAN05	27JAN05	05JAN05	27JAN05	23FEB05	22d
BS-130890	Benching Stair@Wet Well A & Finishing	2	11JAN05	12JAN05	11JAN05	22FEB05	23FEB05	36d
BS-130860	Benching Stair@Wet Well B & Finishing	2	28JAN05	30JAN05	28JAN05	23FEB05	17JFEB05	0
BS-130820	External Finishing Works	30	05MARS05	03APR05	05MARS05	01APR05	30APR05	27d
BS-134020	Power Supply Application	0	11DEC03 A	11DEC03 A	11DEC03 A	07JUL04 A	100	Application
BS-134030	Direct Link Application	0	07JUL04 A	04FEB05	07JUL04 A	04FEB05	36d	0
BS-134110	CLP Inspection of Transformer Room	0	21DEC04	04APR05	21DEC04	04APR05	27d	0
BS-134010	Electrical WFI Submission	0	02MARS05	04APR05	02MARS05	04APR05	01JUN04	Date
Start date	27JUN02	Early bar	01JUN04	No.9 Revision G	01JUN04	No.9 Revision G	01JUN04	Approved
Finish date	28JUN02	Progress bar	07JUL04	No.10 Revision H	07JUL04	No.10 Revision H	07JUL04	WL
Duration	1 day	Critical bar	04OCT04	No.10 Revision I	04OCT04	No.10 Revision I	04OCT04	WL
Fun Number	80-C04	Summary bar	17DEC04	No.12 Revision J	17DEC04	No.12 Revision J	17DEC04	WL
Page Number	34	Start milestone point	CLP Inspection of Transformer Room	WL				
Number/Version	PS-Substation-001	Finish milestone point	Electrical WFI Submission	WL				
Comments	● Primavera Systems, Inc.	● Primavera Systems, Inc.	● Primavera Systems, Inc.	● Primavera Systems, Inc.	● Primavera Systems, Inc.	● Primavera Systems, Inc.	● Primavera Systems, Inc.	WL

Contract No. TP35/02
Remaining Engineering Infrastructure Works
for Pak Shak Kok Development Package 1
REVISED WORKS PROGRAMME I

Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float Complete	Percent Complete
BS-138050	FS 814 Submission	0 20SEP04 A	20SEP04 A	20SEP04 A	20SEP04 A	20SEP04 A	100	▼ WW046 Part I & II Submission
BS-135110	WW046 Part I & II Submission	0 20SEP04 A	20SEP04 A	20SEP04 A	20SEP04 A	20SEP04 A	100	Survey of Civil As-built
BS-136030	Survey of Civil As-built	0 25NOV04 A	30NOV04 A	30NOV04 A	30NOV04 A	30NOV04 A	100	Expected availability of power supply
BS-135100	Expected availability of power supply	0 02DEC04	03DEC04	04APR05	11FEB05	11FEB05	100	CLP's Final Inspection of Transformer Room
BS-134130	CLP's Final Inspection of Transformer Room	0 31DEC04	28APR05	04APR05	11FEB05	11FEB05	100	Expected availability of Fresh & Salt water supply
BS-135090	Expected availability of Fresh & Salt water supply	0 26JAN05	26JAN05	26JAN05	04APR05	36d	CLP's Final Inspection for Metering & Power On	
BS-135170	VAC submission	0 19FEB05	19FEB05	20APR05	36d	CLP Energization	100	CLP's Final Inspection for Metering & Power On
BS-136020	CLP Energization	0 10MAR05	10MAR05	16APR05	31d	CLP's Final Inspection for Metering & Power On	100	CLP's Final Inspection for Metering & Power On
BS-136190	CLP's inspection for Metering & Power On	0 12MAY05	12MAY05	19APR05	31d	CLP's Final Inspection for Metering & Power On	100	CLP's Final Inspection for Metering & Power On
BS-135200	CLP's Final Inspection for Metering & Power On	0 14MAR05	04APR05	04APR05	17d	WWD's Final Submission	100	WWD's Final Submission
BS-135120	WW046 Part IV Submission	0 14MAR05	28APR05	28APR05	38d	Expected DSD Inspection for Other Works	100	Expected availability of power supply
BS-135160	Expected DSD Inspection for Other Works	0 14MAR05	20APR05	20APR05	17d	Expected WSD Inspection	100	CLP's Final Inspection
BS-135080	Expected WSD Inspection	0 31MAR05	01APR05	28APR05	23d	Expected DSD Inspection for Sewage Pumpset & VSD	100	Expected DSD Inspection for Sewage Pumpset & VSD
BS-135040	Expected DSD Inspection for Sewage Pumpset & VSD	0 01APR05	01APR05	04APR05	0	FS 501 Submission	100	Expected FSD Inspection
BS-135060	FS 501 Submission	0 05APR05	05APR05	28APR05	20d	WSD's Final Inspection	100	Expected DSD Inspection for Mech. Screen System
BS-135130	Expected DSD Inspection for Mech. Screen System	0 07APR05	07APR05	27APR05	17d	WSD's Final Inspection	100	Expected DSD Inspection for Valves & Pipeworks
BS-135180	WSD's Final Inspection	0 19APR05	19APR05	28APR05	8d	WSD's Final Inspection	100	Expected DSD Inspection for Deodorizer System
BS-135140	Expected DSD Inspection for Valves & Pipeworks	0 19APR05	19APR05	28APR05	8d	WSD's Final Inspection	100	Expected FSD Inspection
BS-135150	Expected DSD Inspection for Deodorizer System	0 20APR05	20APR05	20APR05	0	WSD's Final Inspection	100	WSD's Final Inspection
BS-135070	Expected FSD Inspection	0 27APR05	27APR05	30APR05	0	Pump Station 2-E&M Works	100	Pump Station 2-E&M Works
BS-135210	CLP's Final Inspection	0 31DEC04	30APR05	28JAN05	0	Conduit & Trunking	100	Conduit & Trunking
BS-133900	Pump Station 2-E&M Works	40 26JAN05	13MAY05	26JAN05	0	SCADA and PLC Works	100	SCADA and PLC Works
BS-136040	Conduit & Trunking	30 26JAN05	03MAY05	26MAY05	52d	Lightning & Earthing Installation	100	Lightning & Earthing Installation
BS-136060	Lightning & Earthing Installation	30 26JAN05	08MAY05	15MAY05	18APR05	18APR05	100	Lightning & Earthing Installation
BS-136080	SCADA and PLC Works	35 26JAN05	03MAY05	26JAN05	0	MVAC	100	MVAC
BS-136090	MVAC	30 26JAN05	13MAY05	23FEB05	03APR05	P & D Installation	100	P & D Installation
BS-136100	P & D Installation	40 26JAN05	13MAY05	03MAY05	0	Cable Tray Installation	100	Cable Tray Installation
BS-136120	Cable Tray Installation	30 26JAN05	03MAY05	26JAN05	0	Cabling Works	100	Cabling Works
BS-136070	Cabling Works	20 27FEB05	18MAY05	27FEB05	18MAY05	F.S. Services Installation	100	F.S. Services Installation
BS-136110	F.S. Services Installation	30 05MAY05	03APR05	05MAY05	0	Lighting & Electrical Services	100	Lighting & Electrical Services
BS-134040	Sewage Pumpset & VSD	41 14MAY05	23APR05	14MAY05	23APR05	Mechanical Screen System	100	Mechanical Screen System
BS-135050	Lighting & Electrical Services	30 26JAN05	28MAY05	19MAY05	28MAY05	Cable terminations to Major Equipment	100	Cable terminations to Major Equipment
BS-136130	Cable terminations to Major Equipment	10 19MAY05	12APR05	12APR05	12APR05	Deodorizer System	100	Deodorizer System
BS-136140	Cable terminations to other equipment	15 28MAY05	12APR05	28MAY05	12APR05	PC&W cable laying & wiring works	100	PC&W cable laying & wiring works
BS-136010	CLP Installation	42 31DEC04	18FEB05	12FEB05	12FEB05	Functional Testing	100	Functional Testing
BS-134040	Sewage Pumpset & VSD	20 26JAN05	21FEB05	27MAY05	11APR05	LV Switchboard & Control Panels	100	LV Switchboard & Control Panels
BS-134050	Mechanical Screen System	16 26JAN05	24FEB05	27MAY05	11APR05	Deodorizer System	100	Deodorizer System
BS-134060	Penscock	20 26JAN05	13MAY05	03MAY05	11APR05	Deodorizer System	100	Deodorizer System
BS-134080	Deodorizer System	12 26JAN05	09FEB05	30APR05	12APR05	PC&W cable laying & wiring works	100	PC&W cable laying & wiring works
BS-134090	Lifting Appliance	14 26JAN05	16FEB05	12APR05	25APR05	Functional Testing	100	Functional Testing
BS-134100	LV Switchboard and Control Panels	30 26JAN05	01MAY05	26FEB05	02APR05	Fan Functional Test	100	Fan Functional Test
BS-134070	Valves & Pipeworks	40 31JAN05	17MAY05	24FEB05	12APR05	LV Switchboard & Control Panels	100	LV Switchboard & Control Panels
BS-134120	PC&W cable laying & wiring works	16 05MAY05	20MAY05	09APR05	12APR05	Deodorizer System	100	Deodorizer System
BS-134080	Functional Testing	5B * 04MAY05	30APR05	25APR05	25APR05	Deodorizer System	100	Deodorizer System
BS-137010	Lightning & Earthing functional testing	3 04MAY05	08MAY05	12APR05	04APR05	Deodorizer System	100	Deodorizer System
BS-137130	Fan Functional Test	7 04MAY05	10MAY05	21APR05	27APR05	Deodorizer System	100	Deodorizer System
BS-137180	Cleansing Water Pump Hydraulic Test	2 14MAY05	15MAY05	22APR05	23APR05	Deodorizer System	100	Deodorizer System
BS-137190	Cleansing Water Pump Functional Test	4 16MAY05	19MAY05	04APR05	24APR05	Deodorizer System	100	Deodorizer System
BS-137010	Penscock functional testing	6 28MAY05	03APR05	13APR05	18APR05	Deodorizer System	100	Deodorizer System
BS-137100	LV Switchboard & Control pa. functional testing	15 28MAY05	12APR05	16APR05	18APR05	Deodorizer System	100	Deodorizer System
BS-137110	Sewage pumpset and VSD functional testing	3 28MAY05	31MAY05	12APR05	18APR05	Deodorizer System	100	Deodorizer System
BS-137120	Mech. Screen System functional testing	7 28MAY05	04APR05	12APR05	18APR05	Deodorizer System	100	Deodorizer System
BS-137130	Deodorizer System functional testing	4 16MAY05	19MAY05	27APR05	30APR05	Deodorizer System	100	Deodorizer System
BS-137030	F. S. Services functional testing	6 04MAY05	08MAY05	18APR05	18APR05	Deodorizer System	100	Deodorizer System
BS-137080	Valves & Pipeworks testing	6 13APR05	18APR05	13APR05	30APR05	Deodorizer System	100	Deodorizer System
BS-137080	Lifting Appliance functional testing	5 13APR05	17APR05	26APR05	30APR05	Deodorizer System	100	Deodorizer System
BS-137090	Deodorizer System functional testing	6 13APR05	18APR05	13APR05	30APR05	Deodorizer System	100	Deodorizer System
BS-137090	Deodorizer System functional testing	2 24MAY05	01JUN05	01JUN05	01JUN05	Deodorizer System	100	Deodorizer System
BS-137070	Progress bar	28JUL05	No. 9 Revision G	No. 9 Revision G	No. 9 Revision G	Approved	100	Approved
BS-137040	Critical bar	02AUG05	No. 10 Revision H	No. 10 Revision H	No. 10 Revision H	Approved	100	Approved
BS-137040	Start date	01AUG05	No. 11 Revision I	No. 11 Revision I	No. 11 Revision I	Approved	100	Approved
BS-137040	End date	1BECON4	04OCT04	04OCT04	04OCT04	Approved	100	Approved
BS-137040	Project number	134060	134060	134060	134060	Approved	100	Approved
BS-137040	Summary bar	TP-502WY0401	No. 12 Revision L	No. 12 Revision L	No. 12 Revision L	Approved	100	Approved
BS-137040	Start milestone point	TP-502WY0401	13APR05	13APR05	13APR05	Approved	100	Approved
BS-137040	Finish milestone point	TP-502WY0401	13APR05	13APR05	13APR05	Approved	100	Approved

Contract No. TP35/02
Remaining Engineering Infrastructure Works
for Pak Sha Kok Development Package 1
REVISED WORKS PROGRAMME I

Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total	Percent Complete
B3-1622L1A	Zone E, Excavate ex-mound #, N of school site	12/20/OCT/02 A	04/2/A	20/OCT/02 A	04/NOV/02 A	04/NOV/02 A	100	100
B3-1622L1B	Zone E, Excavate ex-mound #, W of office area	13/28/OCT/02 A	07/NOV/02 A	28/OCT/02 A	07/NOV/02 A	07/NOV/02 A	100	100
B3-1622L2	Zone E, Excavate ex-mound #, the rest	12/28/NOV/02 A	13/JAN/03 A	28/NOV/02 A	13/JAN/03 A	13/JAN/03 A	100	100
B3-1622M0	Excavate, NE of H-Site 1, Frontend	70/07/DEC/02 A	26/APR/03 A	07/DEC/02 A	26/APR/03 A	26/APR/03 A	100	100
B3-1623F2	S5, Preloading Mound Formation, Zone S5, Phase 9B	10/08/DEC/02 A	03/JUL/03 A	09/DEC/02 A	31/JUL/03 A	31/JUL/03 A	100	100
B3-1623H2	S5, Preloading Mound Formation, Zone S5, Phase 9D	10/12/DEC/02 A	31/JUL/03 A	12/DEC/02 A	31/JUL/03 A	31/JUL/03 A	100	100
B3-1623H3	S5, Preloading Mound Formation, Zone S5, Phase 9E	10/12/DEC/02 A	31/JUL/03 A	28/JAN/03 A	02/JAN/03 A	28/JAN/03 A	100	100
B3-1601A1	Vibrating wire piezometer, S6, No. 6P6	6/02/JAN/03 A	12/03/JAN/03 A	23/FEB/03 A	03/JAN/03 A	23/FEB/03 A	100	100
B3-1601E2	Moving rigs, S5, 4 hr.	6/27/JAN/03 A	27/FEB/03 A	27/JAN/03 A	27/FEB/03 A	27/FEB/03 A	100	100
B3-1601A2	Vibrating wire piezometer, S5, No. 5P1	6/27/JAN/03 A	27/FEB/03 A	03/FEB/03 A	03/FEB/03 A	03/FEB/03 A	100	100
B3-1601I2	Fieldwork Reports, S5	12/03/FEB/03 A	17/FEB/03 A	17/FEB/03 A	17/FEB/03 A	17/FEB/03 A	100	100
B3-1601G2	Ground Investigation, S5, 4hr	12/17/FEB/03 A	01/MAR/03 A	27/FEB/03 A	01/MAR/03 A	01/MAR/03 A	100	100
B3-1601D0	Establish rigs for Gl, S6	3/01/MAR/03 A	13/MAR/03 A	02/MAR/03 A	13/MAR/03 A	13/MAR/03 A	100	100
B3-1601E1	Moving rigs, S6, 4 hr.	12/02/MAR/03 A	16/MAR/03 A	05/MAR/03 A	16/MAR/03 A	16/MAR/03 A	100	100
B3-1601G1	Ground investigation, S6, 4hr	12/14/MAR/03 A	25/MAR/03 A	14/MAR/03 A	25/MAR/03 A	25/MAR/03 A	100	100
B3-1601I1	Fieldwork Reports, S6	12/14/MAR/03 A	25/MAR/03 A	27/MAR/03 A	27/MAR/03 A	27/MAR/03 A	100	100
B3-1601C1	Subsurface Settlement Marker, No. 6M6	3/27/MAR/03 A	28/MAR/03 A	27/MAR/03 A	28/MAR/03 A	28/MAR/03 A	100	100
B3-1601C2	Subsurface Settlement Marker, No. 5M1	3/27/MAR/03 A	30/MAR/03 A	01/APR/03 A	30/MAR/03 A	01/APR/03 A	100	100
B3-1601C3	Subsurface Settlement Marker, No. 5M2	3/30/MAR/03 A	31/JUL/03 A	31/JUL/03 A	31/JUL/03 A	31/JUL/03 A	100	100
B3-1623F3	Preloading Mound Formation, Zone S5, Phase 9C	10/31/JUL/03 A	07/AUG/03 A	06/AUG/03 A	07/AUG/03 A	07/AUG/03 A	100	100
B3-1601B3	Surface Settlement Marker, No. 5M2	3/05/AUG/03 A	06/AUG/03 A	06/AUG/03 A	06/AUG/03 A	06/AUG/03 A	100	100
B3-1601B2	Surface Settlement Marker, No. 5M1	3/06/AUG/03 A	07/AUG/03 A	07/AUG/03 A	07/AUG/03 A	07/AUG/03 A	100	100
B3-1600S05	Earthworks-Section 16, Remainder, after surcharge	367/*	23/DEC/03 A	31/DEC/04	23/DEC/03 A	31/DEC/04	0	92
B3-1623I2	S5, Mound Removal, Zone S5, Phase 9B&D	18/23/DEC/03 A	24/DEC/03 A	24/DEC/03 A	24/DEC/03 A	24/DEC/03 A	100	100
B3-1623I3	S5, Mound Removal, Zone S5, Phase 9C&E	19/31/DEC/03 A	31/DEC/03 A	31/DEC/03 A	31/DEC/03 A	31/DEC/03 A	100	100
B3-1622M4	Excavate, D1/Ch, 1500-1880	45/10/MAR/04 A	26/MAY/04 A	10/MAR/04 A	26/MAY/04 A	26/MAY/04 A	100	100
B3-1622M6	Excavate, D1/Ch, 1860-2180	15/30/APR/04 A	24/MAY/04 A	30/APR/04 A	24/MAY/04 A	24/MAY/04 A	100	100
B3-1622M12	Excavate, D1/Ch, 1500-1860, remaining	15/28/MAY/04 A	08/JUN/04 A	28/MAY/04 A	08/JUN/04 A	08/JUN/04 A	100	100
B3-1622M12	Excavate, D1/Ch, 1020-1360	25/21/JUL/04 A	16/JUL/04 A	21/JUL/04 A	16/JUL/04 A	16/JUL/04 A	100	100
B3-1622M1	Excavate, D1/Ch, 920-1020	25/20/SEP/04 A	30/SEP/04 A	20/SEP/04 A	30/SEP/04 A	30/SEP/04 A	100	100
B3-1622N7	Deposit/Compact, L4/Ch, 397-437	10/25/SEP/04 A	08/OCT/04 A	25/SEP/04 A	08/OCT/04 A	08/OCT/04 A	100	100
B3-1622N8	Deposit/Compact, D1/Ch, 1360-1500	5/09/OCT/04 A	30/NOV/04 A	08/OCT/04 A	30/NOV/04 A	08/OCT/04 A	100	100
B3-1622N9	Deposit/Compact, N end, Promenade	2/30/DEC/04	31/DEC/04	30/DEC/04	31/DEC/04	31/DEC/04	0	0
ALL WORKS ON SECTION 15 & SECTION 16								
B4-160300	Drainage & Sewerage-Section 16, Area 15, Remainer	728/*	05/DEC/02 A	21/DEC/04	09/DEC/02 A	07/JAN/05	17d	97
B4-160300	Drainage & Sewerage-Section 16, Area 15, Remainer	728/*	09/DEC/02 A	30/MAR/03 A	09/DEC/02 A	30/MAR/03 A	100	100
B4-16583B0	Drainage, S764-3779, NW of H-Site 1, Promenade	12/13/DEC/02 A	13/DEC/02 A	13/DEC/02 A	13/DEC/02 A	13/DEC/02 A	100	100
B4-16589C1	Trapezoidal Channel, Area 13A	70/26/APR/03 A	26/DEC/03 A	26/DEC/03 A	26/DEC/03 A	26/DEC/03 A	100	100
B4-16589B6	Drainage, D1, S0076-S0080	18/18/DEC/03 A	18/DEC/03 A	18/DEC/03 A	18/DEC/03 A	18/DEC/03 A	100	100
B4-16585B6	Sewerage, D1, F056-F054	75/26/DEC/03 A	15/APR/04 A	26/DEC/03 A	15/APR/04 A	15/APR/04 A	100	100
B4-16583B56	Drainage, D1, S0076-S0080 remaining	41/29/DEC/03 A	23/FEB/04 A	29/DEC/03 A	23/FEB/04 A	23/FEB/04 A	100	100
B4-16583B16	Drainage connection to SBS	26/09/FEB/04 A	09/FEB/04 A	27/MAR/04 A	09/FEB/04 A	27/MAR/04 A	100	100
B4-16585B16	Sewerage, D1, F054-F052	20/19/FEB/04 A	08/MAR/04 A	08/MAR/04 A	08/MAR/04 A	08/MAR/04 A	100	100
B4-16583B26	Drainage connection to SBS	16/22/FEB/04 A	24/FEB/04 A	22/FEB/04 A	24/FEB/04 A	24/FEB/04 A	100	100
B4-16585B12	Drainage, D1, S0050 to Existing	25/04/MAR/04 A	27/MAR/04 A	04/MAR/04 A	27/MAR/04 A	27/MAR/04 A	100	100
B4-16583B16	Site investigation & preliminary works	15/29/MAR/04 A	24/MAY/04 A	29/MAR/04 A	24/MAY/04 A	24/MAY/04 A	100	100
B4-16583B16	Severage, D1, F058 to Existing	30/25/MAY/04 A	12/AUG/04 A	06/JUN/04 A	12/AUG/04 A	12/AUG/04 A	100	100
B4-16583B16	Drainage, D1/Ch, 1860-2180 Gully works	30/06/JUN/04 A	12/OCT/04 A	20/SEP/04 A	12/OCT/04 A	12/OCT/04 A	100	100
B4-16583B16	F57-F58, Sewer Pipe remedial works	45/25/SEP/04 A	12/OCT/04 A	21/DEC/04	12/OCT/04 A	12/OCT/04 A	90	90
B4-16583B16	U-Channel, D1/Ch, 1860-2180	40/20/JUN/03 A	12/NOV/03 A	20/JUN/03 A	12/NOV/03 A	12/NOV/03 A	100	100
B4-16585B2	Sewerage, D1, F048-F040	40/08/OCT/03 A	15/MAY/04 A	08/OCT/03 A	15/MAY/04 A	15/MAY/04 A	100	100
B4-16583B2	Drainage, D1, S0051-S0055	90/10/JUN/03 A	25/DEC/03 A	10/JUN/03 A	26/DEC/03 A	26/DEC/03 A	100	100
B4-16583B4	Drainage, D1, S0061-S0074	90/17/OCT/03 A	15/NOV/03 A	17/OCT/03 A	15/NOV/03 A	15/NOV/03 A	100	100
B4-16585B4	Sewerage, D1, F048-F051	90/17/OCT/03 A	15/NOV/03 A	17/OCT/03 A	15/NOV/03 A	15/NOV/03 A	100	100
Drainage & Sewerage-Section 16, Area 15, Remainer								
Contract No. TP35/02								
Remaining Engineering Infrastructure Works								
for Pak Shek Kok Development Package 1								
REVISED WORKS PROGRAMME I								
Start date	27/01/04	Date	01/03/04	Checked	WAJ	WAJ	WAJ	WAJ
Run date	18/03/04	Run date	07/04/04	No.3 Revision G	WAJ	WAJ	WAJ	WAJ
Page number	16A	Page number	17A	No.4 Revision F	WAJ	WAJ	WAJ	WAJ
Page Version	TP35/02/WAP1	Page Version	TP35/02/WAP1	No.5 Revision H	WAJ	WAJ	WAJ	WAJ
Number	16A	Number	17A	No.6 Revision I	WAJ	WAJ	WAJ	WAJ
Summary bar	■	Summary bar	■	U-Channel	WAJ	WAJ	WAJ	WAJ
Start milestone point	●	Start milestone point	●	Sever Pipe remedial works	WAJ	WAJ	WAJ	WAJ
Finish milestone point	▲	Finish milestone point	▲	U-Channel	WAJ	WAJ	WAJ	WAJ

Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Percent Complete	2004	2005	2006
B4-1683B14	Drainage, D1, S0061-S0074 remaining	60	26DEC03 A	26DEC04 A	26DEC03 A	28FEB04 A	100	100			
B4-1691B4	Sewerage Rising Mains, D1, Ch1500-F47	30	14FEB04 A	27MAR04 A	14FEB04 A	27MAR04 A	100	100			
B4-1685B11	Drainage, D1, F034-F038	72	25JUL03 A	20MARD4 A	25JUL03 A	20MARD4 A	100	100			
B4-1683B11	Drainage, D1, S00443-S0051	90	13OCT03 A	29MARD4 A	13OCT03 A	28MARD4 A	100	100			
B4-1685B1	Sewerage, D1, F031-F034	32	08JAN04 A	04MARD4 A	06JAN04 A	04MARD4 A	100	100			
B4-1688B1	Drainage, D1, S0036-S0043	50	07FEB04 A	24MARD4 A	07FEB04 A	24MARD4 A	100	100			
B4-1685B21	Sewerage, D1, (Ch.1026-1360)F034-F038 remaining	52	26MAY04 A	05JUL04 A	26MAY04 A	05JUL04 A	100	100			
B4-1683B21	Drainage, D1, S00443-S0056 remaining	55	28JUN04 A	22SEP04 A	28JUN04 A	22SEP04 A	100	100			
B4-1683B5	Drainage, D1, S0074-S0076 preliminary works	35	03NOV03 A	03NOV03 A	03NOV03 A	03NOV03 A	100	100			
B4-1683B15	Drainage, D1, S0074-S0076 remaining	37	03JAN04 A	28JAN04 A	03JAN04 A	28JAN04 A	100	100			
B4-1685B5	Sewerage, D1, F051-F052	35	23MARD4 A	20APR04 A	23MARD4 A	20APR04 A	100	100			
B4-1689B8	Sewerage, D4, F043-F402	25	19JUL03 A	10NOV03 A	19JUL03 A	10NOV03 A	100	100			
B4-1683B8	Drainage, L4, S002-S006 Pipe laying Works	80	22SEP03 A	31OCT03 A	22SEP03 A	31OCT03 A	100	100			
B4-1683B7	Drainage, L4, S006-S01	14	01NOV03 A	28APR04 A	01NOV03 A	23APR04 A	100	100			
B4-1685B7	Sewerage, L4, F042-F043	14	25NOV03 A	17DEC03 A	25NOV03 A	17DEC03 A	100	100			
B4-1683B17	Drainage, L4, S0406-S0407	45	02JAN04 A	30MARD4 A	02JAN04 A	30MARD4 A	100	100			
B4-1683B27	Drainage, L4, S0406-S044	35	02JAN04 A	30MARD4 A	02JAN04 A	30MARD4 A	100	100			
B4-1683B8A	Drainage,L4,S402-S406 remaining	38	15JAN04 A	28MAY04 A	15JAN04 A	28MAY04 A	100	100			
B4-1691B7	Sewerage Rising Mains, L4, F0445-F046	20	05MARD4 A	26MAY04 A	05MARD4 A	26MAY04 A	100	100			
B4-1691B8	Sewerage Rising Mains, L4, F0444-F45+	30	10MAY04 A	16JUL04 A	10MAY04 A	16JUL04 A	100	100			
B4-1685B28	Sewerage Rising mains,L4 remaining	45	20MAY04 A	26JUN04 A	20MAY04 A	26JUN04 A	100	100			
B4-1683B38	Drainage, L4 remaining	35	25JUN04 A	28SEP04 A	25JUN04 A	28SEP04 A	100	100			
B4-1683B3	Drainage, D1, S0056-S0061	70	10NOV03 A	30DEC03 A	10NOV03 A	30DEC03 A	100	100			
B4-1683B3	Sewerage, D1, F040-F042	35	18NOV03 A	22DEC03 A	18NOV03 A	22DEC03 A	100	100			
B4-1691B3	Sewerage Rising Mains, D1, F046-Ch1500	25	16MARD4 A	30MARD4 A	16MARD4 A	30MARD4 A	100	100			
B4-1685B13	Sewerage, D1,F040-F042 remaining	25	23JUN04 A	15JUL04 A	23JUN04 A	15JUL04 A	100	100			
B4-1683B13	Drainage, D1, S0056-S0061 remaining	50	16JUL04 A	19SEP04 A	16JUL04 A	19SEP04 A	100	100			
B4-1691B23	Sewer Rising Main Testing	45	16AUG04 A	20OCT04 A	16AUG04 A	20OCT04 A	100	100			
B4-1691B15	Sewerage Rising Mains, D1, F046-Ch1500 remaining	7	21OCT04 A	27OCT04 A	21OCT04 A	27OCT04 A	100	100			
B4-1078B15	Preparation Works for 2.5m Trapezoidal Channel	60	02APR04 A	02APR04 A	02APR04 A	02APR04 A	100	100			
B4-1683B25	Fabrication Works and Delivery of 2.5m Trap.Ch.	55	20APR04 A	27APR04 A	20APR04 A	27APR04 A	100	100			
B4-1078B35	Installation and Construction of 2.5m Trap. Ch.	60	28APR04 A	16AUG04 A	28APR04 A	16AUG04 A	100	100			
B4-1689C5	Trapezoidal Channel, NE of H Site 1	30	13AUG03 A	01NOV03 A	13AUG03 A	01NOV03 A	100	100			
B4-1689C3	Trapezoidal Channel, at L1 S of H Site 1	14	01NOV03 A	01NOV03 A	01NOV03 A	01NOV03 A	100	100			
B4-1689C4	Trapezoidal Channel, Area 14	14	25DEC03 A	02APR04 A	26DEC03 A	02APR04 A	100	100			
B4-1689C9	Trapezoidal Channel, L5 South	100	08MARD4 A	25MARD4 A	08MARD4 A	25MARD4 A	100	100			
B4-1689D1	Trapezoidal Channel, D1 at area of Mound S5	50	17MARD4 A	30MARD4 A	17MARD4 A	30MARD4 A	100	100			
B4-1689C2	Trapezoidal Channel, NE of School Site	25	02APR04 A	20APR04 A	02APR04 A	20APR04 A	100	100			
B4-1689C6	Trapezoidal Channel, Zone T	60	25MAY04 A	26JUL04 A	25MAY04 A	26JUL04 A	100	100			
B4-1683B67	Sewerage, F65 to existing (remaining)	15	07SEP04 A	02OCT04 A	07SEP04 A	02OCT04 A	100	100			
B4-1683B96	Drainage, D1/Ch.1860-2180 gully works remaining	20	08SEP04 A	19SEP04 A	08SEP04 A	19SEP04 A	100	100			
B4-1689D6	Trapezoidal Channel, D1, L4 to Culvert C10	50	08SEP04 A	08SEP04 A	08SEP04 A	08SEP04 A	100	100			
B4-1683B97	Drainage, D1/Ch.1860-2180 gullyworks to existing	15	21SEP04 A	18OCT04 A	21SEP04 A	18OCT04 A	100	100			
B6-1595D46	Drain Pipe laying	14	07OCT04 A	15SEP04 A	07OCT04 A	15SEP04 A	100	100			
B4-1689D2	Trapezoidal Channel, D1 at S0049 to Area 9B bound	30	10NOV04 A	09DEC04	10NOV04 A	07JAN05	29d	75			
B4-1689C8	Trapezoidal Channel, at H Site 3	40	13NOV04 A	11DEC04	13NOV04 A	07JAN05	27d	75			
SECTION 1: WATERWORKS SECTION 1											
BG-1609A0	Watertower, NE of H. Site 1, Promenade	60	28APR03 A	30JUN03 A	28APR03 A	30JUN03 A	100	100			
B6-1607A0	Trial Pits	14	26JUN03 A	08JUL03 A	26JUN03 A	08JUL03 A	100	100			
UT-160000	Utilities - Section 16, Remainder	459	20SEP03 A	29DEC04	20SEP03 A	29DEC04	0	84			
UT-16001A	PCCW, D1/Ch.920-1020	28	08MARD4 A	15MARD4 A	08MARD4 A	15MARD4 A	100	100			
UT-16001B	HGC-New World, D1/Ch.920-1020	30	08MARD4 A	17MARD4 A	08MARD4 A	17MARD4 A	100	100			
SECTION 2: UTILITIES SECTION 2											
B6-1607A0	Utilities - Section 16, Remainder										
Contract No. TP35/02	Early bar	■	Date	01JUN04	Revision G	09 Revision G	Approved				
Final date	Progress bar	■	01JUL04	No.10 Revision G	W.A.J.	W.A.J.					
Plan number	Critical bar	■	01JUL04	04OCT04	No.11 Revision H	W.A.J.					
Number/Version	Summary bar	■	01JUL04	17DEC04	No.12 Revision I	W.A.J.					
Comments	Start milestones point	■									
Comments	Finish milestones point	■									

Contract No. TP35/02
Remaining Engineering Infrastructure Works
for Pak Shak Kok Development Package 1
REVISED WORKS PROGRAMME I

Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total	Percent Complete
UT-1600G1	Gas Mains, D1/Ch.1860-1820	25/12MAR04 A	25/12MAR04 A	25/12MAR04 A	25/12MAR04 A	25/12MAR04 A	100	100
UT-1600T1F	PCCW, D1/Ch.1020-1200	50/18MAR04 A	50/18MAR04 A	50/18MAR04 A	50/18MAR04 A	50/18MAR04 A	100	100
UT-1600T1G	HGC-New World, D1/Ch.1020-1200	55/19MAR04 A	55/19MAR04 A	55/19MAR04 A	55/19MAR04 A	55/19MAR04 A	100	100
UT-1600P1	Powers(11kV), D1/Ch.1820-1020	27/23MAR04 A	30/23MAR04 A	30/23MAR04 A	30/23MAR04 A	30/23MAR04 A	100	100
UT-1600M1	Gas Mains, D1/Ch.1820-1200	45/28MAR04 A	45/28MAR04 A	45/28MAR04 A	45/28MAR04 A	45/28MAR04 A	100	100
UT-1600P11	Powers(11kV), D1/Ch.1020-1200	45/26MAY04 A	05A/JUN04 A	05A/JUN04 A	28MAY04 A	31MAY04 A	100	-1360 (25% completed)
UT-1600T2A	PCCW, D1/Ch.1020-1360 (25% completed)	6/28MAY04 A	6/28MAY04 A	6/28MAY04 A	6/28MAY04 A	6/28MAY04 A	100	100
UT-1600T2B	HGC-New World, D1/Ch.1020-1360 (25% completed)	6/05JUN04 A	6/05JUN04 A	6/05JUN04 A	6/05JUN04 A	6/05JUN04 A	100	100
UT-1600P2	Powers(11kV), D1/Ch.1020-1360	36/31JUL04 A	02AUG04 A	02AUG04 A	31JUL04 A	02AUG04 A	100	[2] Gas Mains, D1/Ch.1020-1360
UT-1600G2	Gas Mains, D1/Ch.1020-1360	40/11AUG04 A	11AUG04 A	11AUG04 A	11AUG04 A	11AUG04 A	100	[2] PCGW, D1/Ch.1020-1360 remaining
UT-1600T2C	PCCW, D1/Ch.1020-1360 remaining	27/18AUG04 A	14SEP04 A	18AUG04 A	14SEP04 A	17SEP04 A	100	[1] HGC-New World, D1/Ch.1020-1360 remaining
UT-1600G3	HGC-New World, D1/Ch.1020-1360 remaining	27/30SEP04 A	17SEP04 A	30SEP04 A	17SEP04 A	17SEP04 A	100	[2] Gas Mains, D1/Ch.1020-1360
UT-1600P3	Gas Mains, D1/Ch.1860-1500	25/13SEP04 A	25SEP04 A	18SEP04 A	18SEP04 A	18SEP04 A	100	[2] Powers(11kV), D1/Ch.1860-1500
UT-1600T3A	Powers(11kV), D1/Ch.1860-1500	25/17SEP04 A	27SEP04 A	27SEP04 A	27SEP04 A	27SEP04 A	100	[1] PCGW, D1/Ch.1860-1500
UT-1600T3B	PCCW, D1/Ch.1860-1500	15/27SEP04 A	28SEP04 A	28SEP04 A	28SEP04 A	28SEP04 A	100	[1] HGC-New World, D1/Ch.1860-1500
UT-1600T3C	NT&T, D1/Ch.1360-1500	7/30SEP04 A	05OCT04 A	30SEP04 A	05OCT04 A	05OCT04 A	100	DN&T, D1/Ch.1360-1500
UT-1600T4A	PCCW, D1/Ch.1500-1860	75/17FEB04 A	12MARCH04 A	17FEB04 A	12MARCH04 A	12MARCH04 A	100	
UT-1600T4B	HGC-New World, D1/Ch.1500-1860	85/19FEB04 A	26FEB04 A	16MAR04 A	19FEB04 A	19FEB04 A	100	
UT-1600T4C	Powers(11kV), D1/Ch.1500-1860	72/28MAR04 A	08APR04 A	29MAR04 A	08APR04 A	08APR04 A	100	
UT-1600S4	Gas Mains, D1/Ch.1500-1860	72/16APR04 A	27APR04 A	16APR04 A	27APR04 A	16APR04 A	100	
UT-1600T4E	PCCW, D1/Ch.1500-1860 remaining	25/14JUN04 A	03JUL04 A	03JUL04 A	03JUL04 A	03JUL04 A	100	
UT-1600T4F	HGC-New World, D1/Ch.1500-1860 remaining	25/18JUN04 A	05JUL04 A	18JUN04 A	05JUL04 A	05JUL04 A	100	
UT-1600S6	Gas Mains, D1/Ch.1860-2180	50/20MAY04 A	15JUN04 A	15JUN04 A	15JUN04 A	15JUN04 A	100	
UT-1600P6	Powers(11kV), D1/Ch.1860-2180	40/28MAY04 A	10JUL04 A	10JUL04 A	10JUL04 A	10JUL04 A	100	
UT-1600W6	PCCW, D1/Ch.1860-2180	40/05JUL04 A	20JUL04 A	15JUL04 A	20JUL04 A	15JUL04 A	100	
UT-1600T6B	HGC-New World, D1/Ch.1860-2180	45/15JUL04 A	20JUL04 A	15JUL04 A	20JUL04 A	15JUL04 A	100	
UT-1600P16	Existing CLP cable realignment	21/06SEP04 A	27SEP04 A	08SEP04 A	27SEP04 A	08SEP04 A	100	
UT-1600T7C	Powers(11kV), Crossing to D1/Ch.1500	12/07MAY04 A	19MAY04 A	07MAY04 A	19MAY04 A	19MAY04 A	100	to D1/Ch.1500
UT-1600T7H	NT&T, Crossing	12/10MAY04 A	21MAY04 A	21MAY04 A	21MAY04 A	21MAY04 A	100	to D1/Ch.1500
UT-1600W7	PCCW, L4/Ch.314-437	12/12MAY04 A	02JUN04 A	25MAY04 A	02JUN04 A	02JUN04 A	100	Ward, D1/Ch.1500
UT-1600T7G	HGC-New World, Crossing to D1/Ch.1500	12/03JUN04 A	08JUN04 A	08JUN04 A	08JUN04 A	08JUN04 A	100	crossing to D1/Ch.1500
UT-1600P17C	CATV, Crossing	7/08JUN04 A	14JUN04 A	08JUN04 A	14JUN04 A	14JUN04 A	100	
UT-1600T7I	Powers(132kV & 11kV), NE of Site 1, Promenade	7/15JUN04 A	18JUN04 A	15JUN04 A	18JUN04 A	19JUN04 A	100	
UT-1600P19G	HGC-New World, L4/Ch.314-437 (Both sides of rd)	12/01OCT04 A	09OCT04 A	09OCT04 A	05OCT04 A	09OCT04 A	100	
UT-1600P20	Powers(132kV & 11kV), NE of Site 1, Promenade	12/05OCT04 A	16OCT03 A	20SEP03 A	16OCT03 A	16OCT03 A	100	
UT-1600T19A	PCCW, N. end, Promenade	60/10DEC03 A	30DEC03 A	10DEC03 A	30DEC03 A	10DEC03 A	100	
UT-1600T19B	HGC, N. end, Promenade	7/19DEC04	19DEC04	19DEC04	28DEC04	28DEC04	0	0
UT-1600T19B	HGC, N. end, Promenade	7/23DEC04	23DEC04	23DEC04	28DEC04	28DEC04	0	0
Roadworks - Section 16, Area 15 & Remainder								
BS-1600000	Roadworks - Section 16, Area 15 & Remainder	515+* 04AUG03 A	07JAN05	04AUG03 A	07JAN05	07JAN05	0	99
BS-1672A31	Footpath, D1/Ch.920-1020 remaining	28/13APR04 A	30APR04 A	13APR04 A	30APR04 A	30APR04 A	100	120
BS-1672A21	Cycle Track , D1/Ch.920-1020	50/19APR04 A	19APR04 A	19APR04 A	19APR04 A	19APR04 A	100	120
BS-1670A1	Cycle Track & Footway, D1/Ch.1020-1200	95/01OCT04 A	18NOV04 A	01OCT04 A	18NOV04 A	01OCT04 A	100	1020
BS-1672A21	Roadworks, D1/Ch.920-1020	12/28NOV04 A	02DEC04 A	28NOV04 A	02DEC04 A	02DEC04 A	100	1020 remaining
BS-1672A21	Footpath, D1/Ch.920-1020	25/02DEC04 A	25DEC04 A	02DEC04 A	25DEC04 A	02DEC04 A	100	1360
BS-1672A21	Roadworks, D1/Ch.920-1020	75/22JUL04 A	23OCT04 A	22JUL04 A	23OCT04 A	22JUL04 A	100	1360
BS-1672A22	Cycle Track & Footway, D1/Ch.1020-1200	45/26OCT04 A	10DEC04 A	26OCT04 A	10DEC04 A	13OCT04 A	89	1360
BS-1672A22	Roadworks, D1/Ch.1020-1200	25/13OCT04 A	02DEC04 A	13OCT04 A	02DEC04 A	13OCT04 A	100	1360
BS-1670A3	Roadworks, D1/Ch.1360-1500 remaining	28/02DEC04 A	28DEC04 A	01JAN05	02DEC04 A	01JAN05	5	1360
BS-1670A13	Roadworks, D1/Ch.1360-1500 remaining	28/08JUN04 A	21SEP04 A	08JUN04 A	21SEP04 A	08JUN04 A	100	1360
BS-1670A4	Roadworks, D1/Ch.1500-1860 Seaside completion	70/09JUL04 A	15JUL04 A	15JUL04 A	30NOV04 A	15JUL04 A	100	1360
BS-1672A4	Footway, D1/Ch.1500-1860	90/15JUL04 A	27SEP04 A	16OCT04 A	27SEP04 A	16OCT04 A	100	1360
BS-1672A14	Roadworks,D1/Ch.1500-1860/10/Highway side paving	7/27SEP04 A	16OCT04 A	16OCT04 A	27SEP04 A	16OCT04 A	100	1360

Date	No.9 Revision G	Checked	Approved
01JUN04		WAJ	WL
02JUL04		WAJ	WL
04OCT04		WAJ	WL
11DEC04		WAJ	WL
17DEC04		WAJ	WL
01JUN04		WAJ	WL
02JUL04		WAJ	WL
04OCT04		WAJ	WL
11DEC04		WAJ	WL
01JUN04		WAJ	WL
02JUL04		WAJ	WL
04OCT04		WAJ	WL
11DEC04		WAJ	WL

Contract No. TP35/02
Remaining Infrastructure Works
For Pak Shek Kok Development Package 1
REVISED WORKS PROGRAMME 1

● Early bar
● Progress bar
● Critical bar
● Summary bar
● Start milestone point
● Finish milestone point

Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Percent Complete
B5-167046	Roadworks, D1/Ch.1860-2070 Seaside	25/07SEP04 A	104 A	07SEP04 A	12OCT04 A		100	
B5-167046	Existing kerb demolition	12	16SEP04 A	16SEP04 A	16SEP04 A	16SEP04 A	100	
B5-167246	Footpath, D1/Ch.1860-2180	45	23SEP04 A	21DEC04	25SEP04 A	07JAN05	17d	55
B5-167046	Roadworks, D1/Ch.1860-2070 Landside paving	20	27SEP04 A	20OCT04 A	27SEP04 A	20OCT04 A	100	
B5-1670436	Roadworks, D1/Ch.2070-2180 (End Portion)	15	20OCT04 A	27OCT04 A	20OCT04 A	27OCT04 A	100	
B5-167460	Road Furniture&Misc. D1/Chs920-1800	60	08OCT04 A	03JAN05	08OCT04 A	07JAN05	4d	45
B5-167243	Footpath, D1/Ch.1860-1800	25	02DEC04	14DEC04	02DEC04	14DEC04	12d	0
B5-167040	Cycle Track, NE of H-Site 1, Promenade	75	04AUG03 A	17APR04 A	04AUG03 A	17APR04 A	100	
B5-167249	Cycle Track & Footway, Nand, Promenade	30	08MAR04 A	26MAR04 A	08MAR04 A	26MAR04 A	100	
B5-167046	Diversion Works for Cycle Track at N. Entrance	14	17SEP04 A	02DEC04 A	17SEP04 A	02DEC04 A	100	
B5-1670466	Diversion Works for Cycle Track@N. Entrance remaining	16	02DEC04 A	16DEC04	02DEC04 A	16DEC04	0	5
B5-1670476	Breaking of Existing Cycle Track N. Entrance	2	17DEC04	18DEC04	17DEC04	18DEC04	0	0
B5-167046	Cycle Track and Footpath, North End	7	01JAN05	01JAN05	01JAN05	01JAN05	0	0
Section 17- Areas 1,2,6,7A+7B Landscape Softwork								
Part 17-1 Landscaping Works - Section 1								
BL-170000	Landscape Softworks in Areas 1, 2, 6, 7A & 7B	378 *	10FEB04 A	28FEB05	10FEB04 A	28FEB05	0	78
BL-1705A1	Area 1-Drain,Duct+Pipework & Preparation Works	40	10FEB04 A	20SEP04 A	10FEB04 A	20SEP04 A	100	
BL-1705A4	Area 7B- Drain,Duct+Pipework & Preparation Works	45	11JUN04 A	20SEP04 A	11JUN04 A	20SEP04 A	100	
BL-1705A2	Areas 2+6- Drain,Duct+Pipework & Preparation Works	45	15JUN04 A	20SEP04 A	15JUN04 A	20SEP04 A	100	
BL-1705A11	Area 1-Drain,Duct+Pipework & Preparation Works remaining	26	02DEC04 A	20SEP04 A	02DEC04 A	20SEP04 A	100	
BL-1705A12	Area 2+6-Drain+Pipework&Prep. Works remaining	26	08OCT04 A	02DEC04 A	08OCT04 A	02DEC04 A	100	
BL-1705A14	Area 7B-Drain+Pipework&Prep. Works remaining	26	11OCT04 A	02DEC04 A	11OCT04 A	02DEC04 A	100	
BL-1705A3	Area 7A- Drain,Duct+Pipework & Preparation Works	35	15OCT04 A	02DEC04 A	15OCT04 A	02DEC04 A	100	
BL-1707A1	Area 1- Planting Works (25% completed)	45	28NOV04 A	02DEC04 A	29NOV04 A	02DEC04 A	100	
BL-1707A11	Area 1,2,6,7B&7A Preparation & Miscellaneous Works	30	02DEC04 A	30DEC04	02DEC04 A	30DEC04	0	2
BL-1707A21	Area 1- Planting Works remaining	34	22DEC04	24JAN05	22DEC04	24JAN05	0	0
BL-1707A2	Areas 2+6- Planting Works	35	01JAN05	04FEB05	01JAN05	04FEB05	0	0
BL-1707A4	Areas 7B- Planting Works	26	16JAN05	16FEB05	16JAN05	16FEB05	0	0
BL-1707A3	Area 7A- Planting Works	35	25JAN05	28FEB05	25JAN05	28FEB05	0	0
Section 18- Remainder of Landscaping Works								
Part 18-1 Landscaping Works - Section 18								
BL-180000	Landscape Softworks - Section 18, Remainder	127 *	12OCT04 A	15FEB05	12OCT04 A	15FEB05	0	40
BL-1814A1	Drain,Duct+Pipework&Prep. Work,Remainder@65%com	35	18OCT04 A	02DEC04 A	12OCT04 A	02DEC04 A	100	
BL-1814A11	PreparationWorks remain & CLPrepared obstructions	35	02DEC04 A	03JAN05	02DEC04 A	03JAN05	0	5
BL-1814A2	Planting Works, Remainder	43	04JAN05	15FEB05	04JAN05	15FEB05	0	0
Section 19- Areas 1,2,6,7A+7B Establishment Work								
Part 19-1 Establishment Works - Section 19								
BL-180000	Establishment Work-Section19-Areas 1,2, 6,7A&7B	365 *	01MARS05	28FEB06	01MARS05	28FEB06	0	0
BL-200000	Establishment Works - Areas 1, 2, 6, 7A & 7B	365	01MARS05	15FEB06	01MARS05	15FEB06	0	0
BL-2000001	Establishment Works- Areas 1, 2, 6, 7A & 7B Done	01	15FEB06	15FEB06	15FEB06	15FEB06	0	0
Section 20- Remainder of Establishment Works								
Part 20-1 Establishment Works - Section 20								
BL-300000	Establishment Works - Section 20, Remainder	365 *	16FEB05	15FEB06	16FEB05	16FEB06	0	0
BL-300001	Establishment Works - Remainder	365	16FEB05	15FEB06	16FEB05	16FEB06	0	0
BL-300002	Establishment Works - Remainder	0	16FEB06	16FEB06	16FEB06	16FEB06	0	0
Part 14 Site Safety								
BT-140000	Site Safety	977 *	27AUG02 A	29APR05	27AUG02 A	30APR05	1d	85
BT-1401A0	Draft Safety Plan	2	27AUG02 A	28AUG02 A	27AUG02 A	28AUG02 A	100	
BT-1401D0	Provide Safety Officer, 2nr.	810	27AUG02 A	02DEC04 A	27AUG02 A	02DEC04 A	100	
BT-1401B0	Complete Safety Plan	2	29AUG02 A	30AUG02 A	29AUG02 A	30AUG02 A	100	
BT-140000	Site Safety	977 *	27AUG02 A	29APR05	27AUG02 A	30APR05	1d	85
BT-1401A0	Draft Safety Plan	2	27AUG02 A	28AUG02 A	27AUG02 A	28AUG02 A	100	
BT-1401D0	Provide Safety Officer, 2nr.	810	27AUG02 A	02DEC04 A	27AUG02 A	02DEC04 A	100	
BT-1401B0	Complete Safety Plan	2	29AUG02 A	30AUG02 A	29AUG02 A	30AUG02 A	100	
Contract No. TP35/02								
Remaining Engineering Infrastructure Works								
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Start date: 28/01/04
Due date: 28/04/04
Page number: 135
Number of pages: 211
② Project Name: Pak Shek Kok
③ System Name: Site Safety

Contract No. TP35/02
Remaining Engineering Infrastructure Works
for Pak Shek Kok Development Package 1
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Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total	Percent Complete	2004	2005																	
									SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
BT-1401C0	Update Safety Plan	810	31AUG02 A	02L...-34 A	31AUG02 A	02DEC04 A	100	100																			
BT-1401G0	Arrange & Attend Weekly Safety Walk	805	03SEP02 A	02DEC04 A	03SEP02 A	02DEC04 A	100	100																			
BT-1401H0	Provide Safety Training	810	10SEP02 A	02DEC04 A	10SEP02 A	02DEC04 A	100	100																			
BT-1401E0	Attend Site Safety Committee & Mgmt Committee	810	26OCT02 A	02DEC04 A	26OCT02 A	02DEC04 A	100	100																			
BT-1401K0	Participate in safety promotional campaign	694	28NOV02 A	02DEC04 A	28NOV02 A	02DEC04 A	100	100																			
BT-1401K10	Site Safety Remaining Works	150	02DEC04 A	29APR05	02DEC04 A	30APR05	1d	1																			

Start date	End date	Early bar	Progress bar	Critical bar	Summary bar	Start milestone point	Finish milestone point	Date	No.9 Revision G	No.10 Revision G1	No.11 Revision H	No.12 Revision I	Checked	Approved
21AUG02	21AUG02							01JUN04	WAJ	WAJ	WAJ	WAJ		
Final date	Final date	Early bar	Progress bar	Critical bar	Summary bar	Start milestone point	Finish milestone point	Date	No.9 Revision G	No.10 Revision G1	No.11 Revision H	No.12 Revision I	Checked	Approved
Run date	Run date	21AUG02	02DEC04	11DEC04	11AUG02	11AUG02	11AUG02	07JUL04	WAJ	WAJ	WAJ	WAJ		
Part number	Part number	BT-1401K0	BT-1401K10	BT-1401K10	BT-1401K10	BT-1401K10	BT-1401K10	17DEC04	WAJ	WAJ	WAJ	WAJ		
Number	Version	TIP35/WP01	TIP35/WP01	TIP35/WP01	TIP35/WP01	TIP35/WP01	TIP35/WP01							

Contract No. TIP35/02
Remaining Engineering Infrastructure Works
for Pak Shek Kok Development Package 1
REVISED WORKS PROGRAMME I

● Early bar
● Progress bar
● Critical bar
● Summary bar
● Start milestone point
● Finish milestone point

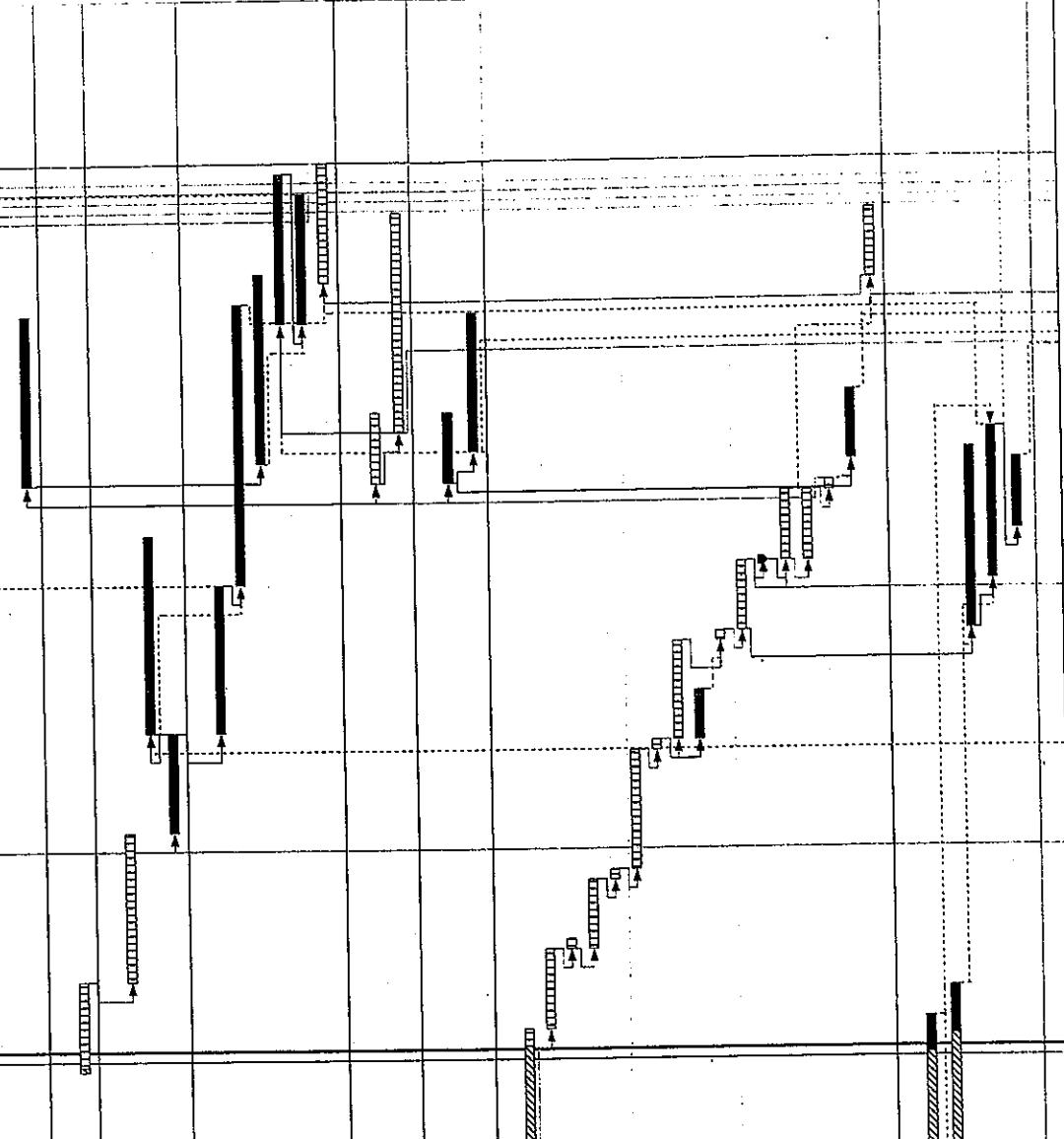
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Act ID	Description	Orig Dur	Early Start	Early Finish	Total Percent Complete	NOV	DEC	JAN	FEB	MAR
KD-2040A	Achievement Date for KD-2040	0		23DEC04	0	0	0	0	0	0
KD-2040B	Assumed Extension of Time for KD-2040	0		23DEC04*	0	0	0	0	0	0
KD-2030A	Achievement Date for KD-2030	0		28FEB05	0	0	0	0	0	0
KD-2030B	Assumed Ext of Time for Section 3	0		28FEB05*	0	0	0	0	0	0

Completion Dates

BS-0308M2	Deposition & Compaction, D1/Ch.780-920	10/28/JAN05	13/FEB05	5d	0					
BS-0317D31	Pic pipe, L1/Ch.100-200 Gully works was bound	7/30/NOV04 A	08/DEC04	0	5					
UT-0300P1	Powers(1kV), L2/Ch.100-200	15/08/DEC04	22/DEC04	0	0					
UT-0300G4	Gas Mains at Area 3	20/03/JAN05	22/JAN05	7d	0					
UT-0300G4C	Gas Main at Area 4 remaining	10/24/DEC04	02/JAN05	2d	0					
BS-0325C33	Footpath at Area 4 - remaining	15/03/JAN05	17/JAN05	2d	0					
BS-0325C2	Footpath, Areas 3	21/18/JAN05	14/FEB05	2d	0					
BS-0328A2	Roadworks, D1/Ch.780-920	12/31/JAN05	17/FEB05	5d	0					
BS-0328B2	Cycle track & Footpath, D1/Ch.780-920	15/15/FEB05	27/FEB05	3d	0					
BS-0328C20	Roadworks Furniture & Miscellaneous	13/15/FEB05	25/FEB05	3d	0					
BS-0325C23	Footpath at Area 6 under bridge	12/17/FEB05	28/FEB05	0	0					
B7-032050	Abutment Wall, Rest - East Abutment	7/28/JAN05	10/3/FEB05	0	0					
B7-032050	Draining & Backfill - East Abutment	15/02/FEB05	23/FEB05	0	0					
B7-033050	Abutment Wall, Rest - West Abutment	7/28/JAN05	10/3/FEB05	5d	0					
B7-033050	Drainage & Backfill - West Abutment	7/31/JAN05	13/FEB05	5d	0					
B7-034050	Rebar, Installation for bridge soffit & webs/walls	20/17/NOV04 A	03/DEC04	0	90					
B7-034050	Installation of tendon ducts & growth vents	8/04/DEC04	11/DEC04	0	0					
B7-034070	Inspection and approval of tendon profile	1/12/DEC04	14/DEC04	0	0					
B7-034160	Formworking installation at webs	7/12/DEC04	18/DEC04	0	0					
B7-034090	Concreting of soffit, sidewalls&internal wall kickers	1/19/DEC04	03/DEC04	0	0					
B7-034100	Rebar and formworking of top slab	12/20/DEC04	31/DEC04	0	0					
B7-034110	Concreting of internal web wall to top slab&soffit	1/01/JAN05	07/JAN05	0	0					
B7-034080	Strands threading to tendon ducts	10/02/JAN05	11/JAN05	0	0					
B7-034120	Misc. rebar fixing and formworking for top slab	5/02/JAN05	08/JAN05	5d	0					
B7-034130	Concreting of top slab	1/12/JAN05	12/JAN05	0	0					
B7-034140	Curing	7/13/JAN05	18/JAN05	0	0					
B7-034020	Retaining Wall No. 1	0/20/JAN05	0/20/JAN05	0	0					
B7-034150	Post-tensioning of Bridge Deck	7/20/JAN05	26/JAN05	0	0					
B7-034160	Grouting	7/20/JAN05	26/JAN05	0	0					
B7-034170	Anchorage backfilling	1/27/JAN05	05/FEB05	6d	0					
B7-034030	Movement Joint	7/17/FEB05	23/FEB05	0	0					
B7-034180	Falsework dismantling	25/02/NOV04 A	04/DEC04	39d	89					
B7-035020	Retaining Wall No. 2	25/18/NOV04 A	07/DEC04	44d	76					
B7-035040	Retaining Wall No. 3	18/18/JAN05	30/JAN05	8d	0					
B7-035050	Drainage & Backfill	15/18/JAN05	01/FEB05	8d	0					
B7-036050	Movement Joint	7/23/JAN05	29/JAN05	9d	0					

Section 3 Works in Areas 3,4 & 6, except Sec.4+1, S&EW



Contract No. TR-55/02
Remaining Engineering Infrastructure Works
for Pak Sha Kok Development Package 1
REMAINING WORKS @ SECTION 3 & 4



Act ID	Description	Orig Dur	Early Start	Early Finish	Percent Complete	2004			2005		
						NOV	DEC	JAN	FEB	MAR	
B7-036030	Road & Drainage Works		10	17FEB05	0						
B7-036050	Footway, Cycle Track, Paving		10	19FEB05	28FEB05	0	0	0			
B7-036050	Roadwork Furniture & Miscellaneous		9	21FEB05	28FEB05	0	0	0			
B7-036040	Wearing Course		3	26FEB05	28FEB05	0	0	0			
Section 4 - Waterworks in Areas 3, 4, & 6											
B7-037020	Demolition for Connection & Excavation		14	20JAN05	02FEB05	0	0	0			
B7-037030	Modification Works		20	27JAN05	22FEB05	0	0	0			
B7-037040	Drainage Works & Movement Joints		14	13FEB05	28FEB05	0	0	0			
B7-037050	EdM Works & Finishing		14	15FEB05	28FEB05	0	0	0			
Section 5 - Washout & remaining works											
B6-0424C23	Washout & remaining works		19	05DEC04	23DEC04	0	0	0			

Contract No. TP95/02
Remaining Engineering Infrastructure Works
for Pak Shek Kok Development Package 1
REMAINING WORKS @ SECTION 3 & 4



Completion Dates

Section 12 - Works of Sewage Pumping Station No. 1

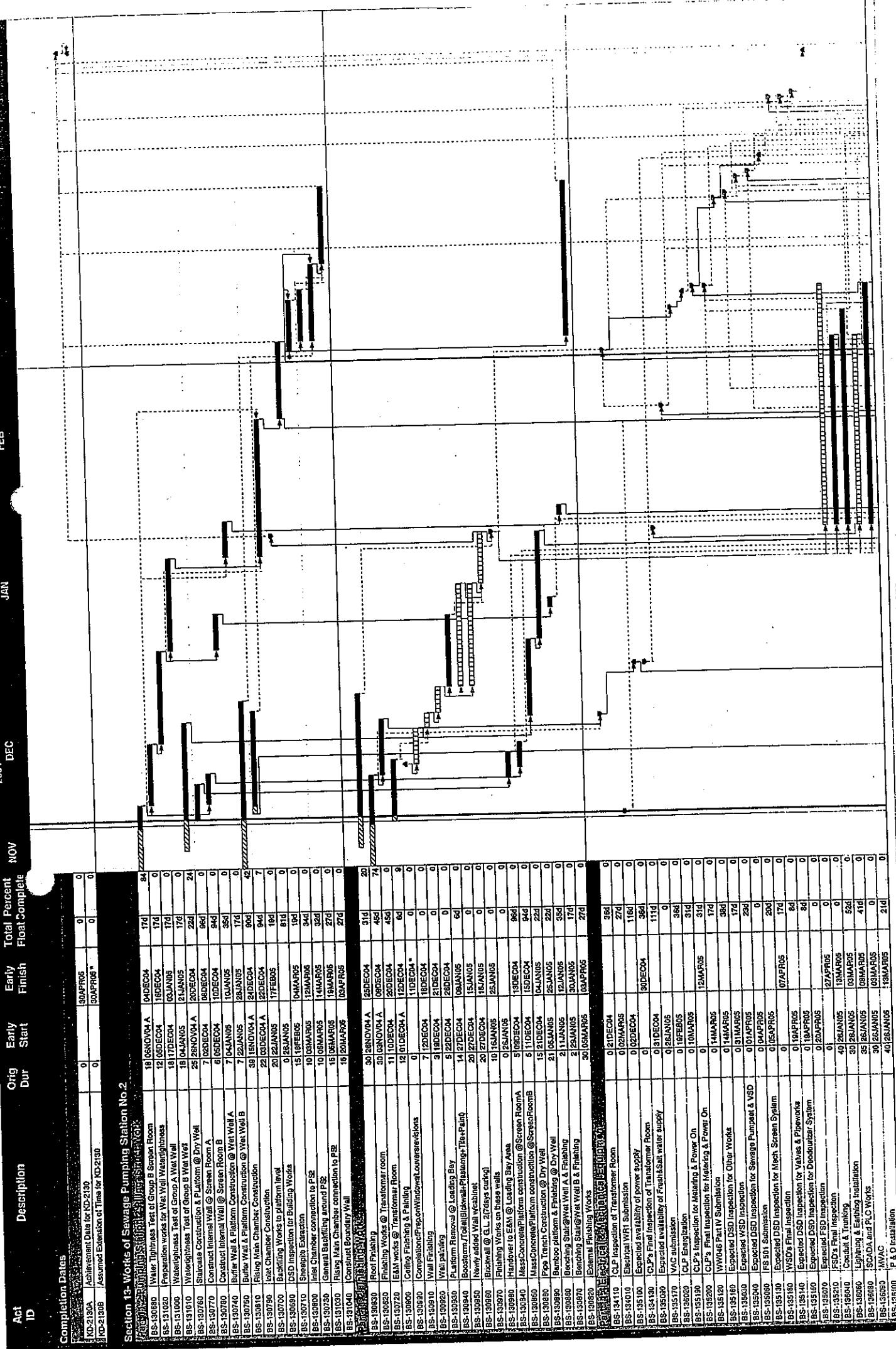
Act ID	Description	Orig Dur	Early Start	Total Dur	Percent Complete
BS-120750	Walling Test for Wet Well	0	0	30APR05	0
BS-120750	Walling Test for Group A	0	0	30APR05	0
BS-120750	Walling Test for Group B	0	0	30APR05	0
BS-120750	Steel Removal & Backfilling around Dry Wall	0	0	30APR05	0
BS-121010	Steelbacking Erection for new Wall @ GL+5/E	13	20DEC04	14JAN05	0
BS-121020	New Wall Construction @ GL+5/E	13	20DEC04	14JAN05	0
BS-121020	Steelbacking removal @ Switch Room Area	2	20DEC04	21JAN05	0
BS-121040	Steelbacking Extraction @ Switch Room Area	6	20DEC04	21JAN05	0
BS-120620	Steelbacking & Switchroom construction	20	15FEB05	21JAN05	0
BS-120750	Steelbacking & Platform Construction @ Dry Wall	25	20JAN05	20JAN05	24%
BS-120750	Bulit Wall & Platform Construction @ Wet Wall A	7	02JAN05	02JAN05	0
BS-120750	Construct Internal wall @ Screen Room A	5	02JAN05	02JAN05	0
BS-120750	Remaining Drainage Works around PSL (refer to Sec-5)	0	03FEB05	04FEB05	0
BS-120750	Bulit Wall & Platform Construction @ Wet Wall B	7	02JAN05	02JAN05	0
BS-120750	Construct Internal Wall @ Screen Room B	5	02JAN05	02JAN05	0
BS-120750	Inlet Chamber Construction	25	27NOV04 A	04FEB05	18%
BS-120750	Backfilling works after Watertightness Test	20	02JAN05	21JAN05	54%
BS-120750	Steelbacking Removal	15	02JAN05	05FEB05	56%
BS-120740	Expected DSD Inspection Building Works	0	02JAN05	02JAN05	0
BS-120810	Backing Works Around PSL to Ground Level	15	02JAN05	02JAN05	0
BS-120910	Remaining Drainage Works around PSL (refer to Sec-5)	0	03FEB05	04FEB05	0
BS-121020	Inlet Chamber connection to PSL	7	05FEB05	05FEB05	0
BS-120900	Rising main Chamber Construction	15	26FEB05	14MAR05	32%
BS-120750	Construct Boundary Wall	15	11APR05	25APR05	54%
BS-120750	Walls @ GL+5/E	30	01DEC04 A	27DEC04	30d
BS-120830	Root Removal	11	02DEC04 A	12DEC04	7d
BS-120920	Celing, Finsihing & Painting	0	12DEC04	01JAN05	0
BS-121000	Completion of PSL Ventilation Windwell cover extensions	0	13DEC04	01JAN05	0
BS-120930	Wall Finishing	7	13DEC04	20DEC04	0
BS-120940	Wall Painting	3	20DEC04	27DEC04	0
BS-120950	Platform Removal @ Landing Bay	6	20DEC04	27DEC04	0
BS-120950	Boosterunit /Total Blackvalve/Plating@ GL+5/E+Paitn	14	20DEC04	10JAN05	0
BS-120970	Newly added Wall (Wabinehi)	20	28DEC04	16JAN05	0
BS-120980	Batching at GL 2.17 (dry cutting)	20	28DEC04	16JAN05	0
BS-120990	Frothing on these Walls	10	17JAN05	26JAN05	0
BS-121050	Handover to EAM Works @ Landing Area	0	27JAN05	0	0
BS-120930	Frothbox of New Wall @ GL+4-5/E	8	07JAN05	12JAN05	0
BS-120830	Finishing Works for insulation @ 4.5m thickness	12	18FEB05	27FEB05	0
BS-120840	External Finishing Works	30	10FEB05	01MAR05	47%
BS-120850	Pipe Trench Construction @ Dry Wall	15	21DEC04	04JAN05	0
BS-120840	Bamboo platform & Finishing works @ Dry Wall	21	06JAN05	25JAN05	24%
BS-120840	Handover to EAM Works @ Landing Area	0	27JAN05	0	0
BS-120850	Nascentconcrete Platforms construction @ Screen Room A	2	07JAN05	11JAN05	64%
BS-120850	Benching stair @ Wet Wall A & Finishing	2	08JAN05	10JAN05	38%
BS-120850	Nascentconcrete Platforms construction @ Screen Room B	5	08JAN05	12JAN05	48%
BS-120850	Benching stair @ Wet wall B & Finishing	2	12JAN05	23JAN05	28%
BS-120850	Expected DSD Inspection for Piping	0	24DEC04	04JAN05	94%
BS-120850	Expected availability of power supply	0	31DEC04	04JAN05	0
BS-120850	Expected availability of fresh/salt water supply	0	31DEC04	04JAN05	0
BS-125160	VAC Submission	0	27JAN05	0	0
BS-127220	CLPs Inspection for Meter Box	0	02FEB05	14FEB05	0
BS-127220	CLPs Final Inspection of Meter Box	0	07MAR05	14FEB05	0
BS-125100	Water Certification WWD@ Part IV	0	01MARCH05	22MARCH05	0
BS-124010	Electrical WPL Submission	0	21MARCH05	11APR05	11d
BS-124010	CLPs Final Inspection	0	01MARCH05	11APR05	11d
BS-125050	Exp-ected DSD Inspection	0	01APR05	21APR05	21d
BS-125050	Exp-ected DSD Inspection for Sewage Pump & VSD	0	01APR05	22APR05	22d
BS-125050	Exp-ected DSD Inspection for Valves & Pipeworks	0	01APR05	22APR05	22d
BS-125140	Exp-ected DSD Inspection of Disbutor System	0	01APR05	22APR05	22d
BS-125160	WSDS Final Inspection	0	02APR05	0	0
BS-125160	Expected DSD Inspection for Mach. Screen Syst.	0	01APR05	22APR05	22d
BS-125160	Exp-ected DSD Inspection of Other Works	0	01APR05	22APR05	22d
BS-125160	Exp-ected DSD Inspection of Other Works	0	01APR05	22APR05	22d
BS-125160	FS 50.1 Submission	0	01APR05	0	0
BS-125160	Exp-ected DSD Inspection for Valves & Pipeworks	0	01APR05	0	0
BS-125160	Exp-ected DSD Inspection for Disbutor System	0	01APR05	0	0
BS-125160	Exp-ected DSD Inspection of Mach. Screen Syst.	0	01APR05	0	0
BS-125160	Exp-ected DSD Inspection	0	01APR05	0	0
BS-125160	FSO Fuel Inspection	0	01APR05	13APR05	13d
BS-126100	Survey of CMW-Bott	0	02APR05	13APR05	12d

Contract No. TPS5/02
Remaining Engineering Infrastructure Works
for Pak Shek Kok Development Package 1
REMAINING WORKS @ SECTION 12

Act ID	Description	Orig Dur	Early Start	Early Finish	Total Percent Complete
BS-124050	Cable Tray Installation	30	24JAN09	01FEB09	0
BS-124040	Savage Pumpset and VSD	20	25JAN09	01FEB09	50%
BS-124070	Valves and Pipework	40	26JAN09	12FEB09	0
BS-124050	Mechanical Screen System	20	27JAN09	13FEB09	56%
BS-124050	Pantograph System	30	27JAN09	05FEB09	0
BS-124050	Dielectric System	20	27JAN09	11FEB09	44%
BS-124050	Lifting Appliances	14	27JAN09	11FEB09	58%
BS-124050	PCGv Cabins laying & welding works	15	27JAN09	17FEB09	66%
BS-124110	Cabling Works	40	27JAN09	17FEB09	0
BS-124020	Cable Trunking	30	27JAN09	01MARCH09	51d
BS-124040	Lightning & Earthing Installation	30	27JAN09	01MARCH09	49d
BS-124040	SCADA & PLC Works	30	27JAN09	01MARCH09	0
BS-124050	IVAG	30	27JAN09	01MARCH09	0
BS-124050	P & D Installation	40	27JAN09	11MARCH09	27d
BS-124100	LV Switchboard and Control Panels	30	28FEB09	02APR09	0
BS-124050	Cable Terminations	20	28FEB09	02APR09	0
BS-124240	CLP's Initial Works/Metering and Energization	14	01MARCH09	20MARCH09	14d
BS-124090	F.S. Services Installation	30	01MARCH09	06APR09	0
BS-124050	Lighting and Electrical Services	20	01MARCH09	03APR09	20d
BS-124210	Cleaning, Waterpump, Hydraulics & Functional Test	6	01MARCH09	03APR09	98d
BS-124050	Drainage Pumpsets & VSD testing	10	01MARCH09	03APR09	0
BS-124050	Cable Terminations to Major Equipments	10	01MARCH09	03APR09	0
BS-124050	Cable Terminations to Other Equipments	15	01MARCH09	12APR09	0
BS-124050	Lightning & Earthing Junctional Testing	3	01MARCH09	07APR09	51d
BS-124050	Ventilation Fan Functional Testing	7	01MARCH09	07APR09	47d
BS-124050	Frostbox Functional Testing	4	01MARCH09	07APR09	17d
BS-124050	Lighting Functional & Integrity Test	3	01MARCH09	07APR09	18d
BS-124050	SCADA & PLC Testing	6	01MARCH09	07APR09	15d
BS-124050	Machine Room System functional testing	9	01MARCH09	07APR09	20d
BS-124050	Panelbox Leakage Rate Test	6	02APR09	07APR09	1d
BS-124010	LV Switchboard and Panels Testing	16	02APR09	17APR09	1d
BS-124050	MCB board functional test	3	02APR09	08APR09	21d
BS-124050	Lighting Functional & Integrity Test	4	02APR09	07APR09	20d
BS-124050	IFS Functional testing	3	02APR09	08APR09	18d
BS-124050	RCDE/CCD Functional Test	2	02APR09	08APR09	21d
BS-124050	Valves & Pipework Testing	4	02APR09	18APR09	2d
BS-124050	Lifting Appliances testing	5	02APR09	17APR09	10d
BS-124050	Desiccant System functional Testing	6	02APR09	18APR09	0
BS-124050	SCADA and PLC Works Functional Testing	6	02APR09	24APR09	0
BS-124050	Decelerating Unit Air Duct Thickness Test	3	02APR09	21APR09	6d
BS-124050	SCADA & PLC Mapping Test	3	02APR09	27APR09	0
BS-124050	Comms/Networking Test	3	02APR09	30APR09	0
Contract Works - Site Preparation					
BS-124050	Deposition & Compaction [2] Cr.1:10x200	7	07MARCH09	19MARCH09	13d
BS-124050	Base Mains, L2/Ch.100-300	15	07MARCH09	14MARCH09	5d
BS-124050	FCCT, L2/Ch.100-300	15	07MARCH09	26MARCH09	5d
BS-124050	HGC-New Works, L2/Ch.100-300	15	07MARCH09	30MARCH09	5d
BS-124050	Hotworks Fumitubs & Miscellaneous @ Rd L2	7	21MARCH09	27MARCH09	5d
BS-124050	SCADA & PLC Remaking (S303-S417)	16	25FEB09	14MARCH09	5d
BS-124050	Power11kV at PSI Soc. 5 part	10	12MARCH09	11MARCH09	12d
BS-124050	Power11kV at PSI Soc. 5 part	10	12MARCH09	12APR09	12d
BS-124050	SCADA at PSI Soc. 5 part	7	07MARCH09	17APR09	13d
BS-124050	Roadworks, L2/Ch.100-300	30	07MARCH09	15APR09	13d
BS-124050	Crane track & Footpath, L2/Ch.100-300	20	22MARCH09	15APR09	5d
BS-124050	Footpath, At PSI Soc. 5 part	10	16MARCH09	25APR09	5d
BS-124050	Footpath, At PSI Soc. 5 part	10	16MARCH09	14MARCH09	5d
BS-124050	Deposit/Compact, At PSI Soc. 5 part	4	03APR09	10APR09	5d
BS-124050	Roadworks, At PSI Soc. 5 part	12	08APR09	18APR09	8d
BS-124050	Emulsion & Miscellaneous @ PSI Soc. 5 part	5	18APR09	22APR09	8d

Contract No. TIP35/02
Remaining Engineering Infrastructure Works
for Pak Shak Kok Development Package 1
REMAINING WORKS @ SECTION 12





**Remaining Engineering Infrastructure Works
for Pak Shek Kok Development Package 1
REMAINING WORKS @ SECTION 13**

APR MAY

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Act ID	Description	Orig Dur	Early Start	Early Finish	Total Percent Complete
BS-186120	Cable Tray Installation	30 25 ANS	01MARS05	01MARS05	0%
BS-186070	Cabling Works	20 21 FEB05	01MARS05	01MARS05	0%
BS-186110	E.S. Services Installation	30 05MARS05	05MARS05	05MARS05	0%
BS-186050	Lighting & Enclosed Services	41 11MARS05	22APR05	22APR05	0%
BS-186130	Major Equipment to Major Equipment	10 18MARS05	28MARS05	28MARS05	0%
BS-186140	Cable terminations to other equipment	15 26MARS05	12APR05	12APR05	0%
BS-186160	Cable termination	42 31DEC04	19FEB05	19FEB05	98%
BS-186170	Cable termination	20 28JAN05	21FEB05	21FEB05	93%
BS-184040	Sewage Pump @ 1 USD	18 05JAN05	17FEB05	17FEB05	93%
BS-184050	Mechanical Screen System	40 05JAN05	15MARS05	15MARS05	98%
BS-184060	Peristock	12 26JAN05	05FEB05	05FEB05	93%
BS-184080	Deodorizer System	14 28JAN05	16FEB05	16FEB05	93%
BS-184090	Lifting Splice/Balance	30 05JAN05	01MARS05	01MARS05	27%
BS-184100	LV Switchboard & Powerworks	40 31JAN05	17MARS05	21FEB05	0%
BS-184120	PC/CCV cable laying & wiring works	18 05JAN05	20MARS05	20MARS05	0%
BS-187040	Lighting & Earthling Functional testing	3 05JAN05	05MARS05	05MARS05	0%
BS-187150	Fan Functional Test	7 05JAN05	10MARS05	10MARS05	0%
BS-187160	Cleaning Water Pump Functional Test	2 05JAN05	15MARS05	15MARS05	0%
BS-187180	Booster Pump Functional Testing	6 05JAN05	16APR05	16APR05	16%
BS-187200	Pump/stock Functional testing	15 05JAN05	12APR05	12APR05	60%
BS-187210	LV Switchboard & Control functional testing	15 05JAN05	12APR05	12APR05	0%
BS-187220	Surveillance Camera and VSD Functional testing	3 05JAN05	31MARS05	31MARS05	0%
BS-187230	Mach. Screen System Functional testing	7 05JAN05	04APR05	04APR05	14%
BS-187250	F.S. Services Functional testing	3 05JAN05	04APR05	04APR05	21%
BS-187260	Values & Pipeworks testing	6 05JAN05	17APR05	17APR05	0%
BS-187280	Lifting Assistance Functional testing	5 05JAN05	17APR05	17APR05	134%
BS-187290	Desiccator System Functional testing	9 05JAN05	18APR05	18APR05	0%
BS-187300	SCADA & PLC Works Functional Testing	6 05JAN05	24APR05	24APR05	0%
BS-187320	NCB Board Functional test	3 05JAN05	24APR05	24APR05	1d
BS-187340	RCD/PEI Functional Test	2 05JAN05	25APR05	25APR05	2d
BS-187350	Lighting Functional & Intensity Test	4 05JAN05	27APR05	27APR05	0%
BS-187370	SCDA & PLC Mapping Test	9 05JAN05	27APR05	27APR05	0%
BS-187400	Commissioning Test	3 05JAN05	30APR05	30APR05	0%
BS-187410	Commissioning Test	15 16DEC04	30DEC04	30DEC04	0%
BS-187420	Commissioning Test	5 16FEB05	22FEB05	22FEB05	0%
BS-187430	Commissioning Test	4 23FEB05	26FEB05	26FEB05	0%
BS-187440	Commissioning Guy/Wire @ Rd L4	7 22FEB05	01MARS05	01MARS05	0%
BS-188033	Trapezoidal Channel, Dif/L4 N	14 23FEB05	08MARS05	08MARS05	0%
BS-187450	Deposition Compacted 4/Ch 387-437 insulation	4 23FEB05	15APR05	15APR05	0%
BS-187460	Deposition Compacted 4/Ch 387-437 insulation	4 23FEB05	15APR05	15APR05	0%
BS-187470	Roundworks L4/Ch 314-327	15 27FEB05	19MARS05	19MARS05	0%
BS-187480	Roundworks L4/Ch 314-327	15 27FEB05	19MARS05	19MARS05	0%
BS-187490	Waterworks @ L4 remaining	12 02MARS05	13MARS05	13MARS05	0%
BS-188034	Trapezoidal Channel, Dif/L4 S	14 08MARS05	22MARS05	22MARS05	0%
BS-187510	Road Furniture/Mfc. Rd L4	5 14MARS05	18MARS05	18MARS05	0%
BS-187520	Road Furniture/Mfc. Rd L4	4 14MARS05	17MARS05	17MARS05	0%
BS-187530	FC/CCV/Mfc. Scd 14	25 16MARS05	11APR05	11APR05	18d
BS-187247	Cycle Track & Pookeyy, L4 Ch 51-437				

Contract No. TIP5/02
Remaining Engineering Infrastructure Works
for Pak Shek Kok Development Package 1
REMAINING WORKS @ SECTION 13

■ Early bar
■ Progress bar
■ Critical bar
— Summary bar
— Start milestone point
— Finish milestone point
● End date

2005

JAN

2004

DEC

Completion Dates

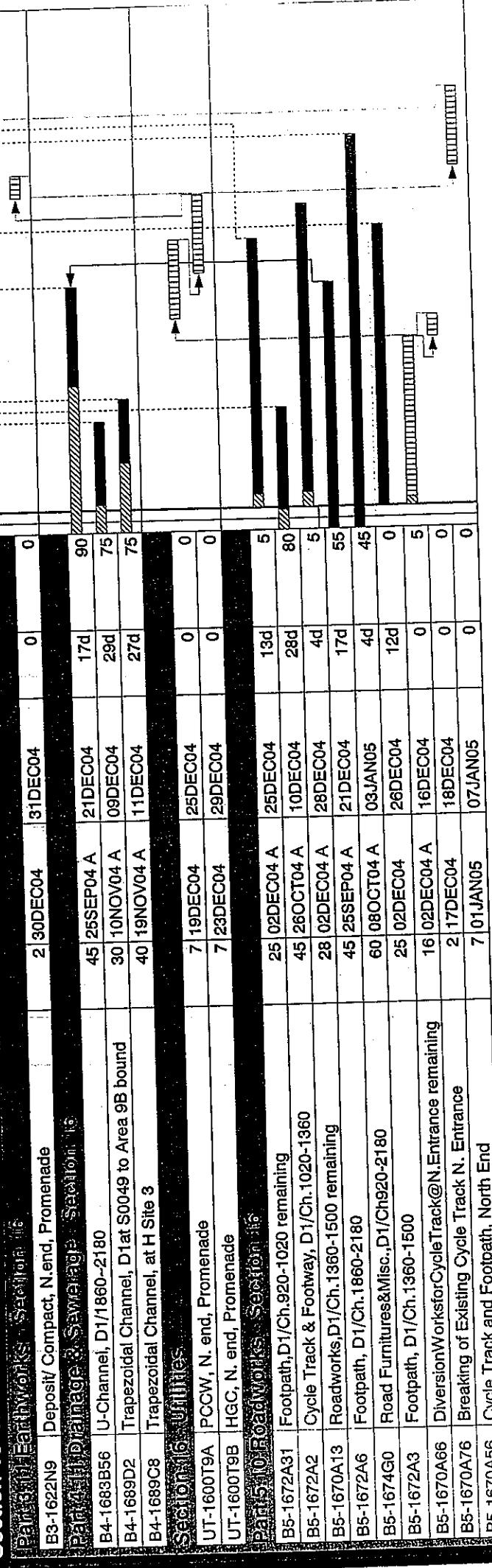
Orig Dur

Description

ID

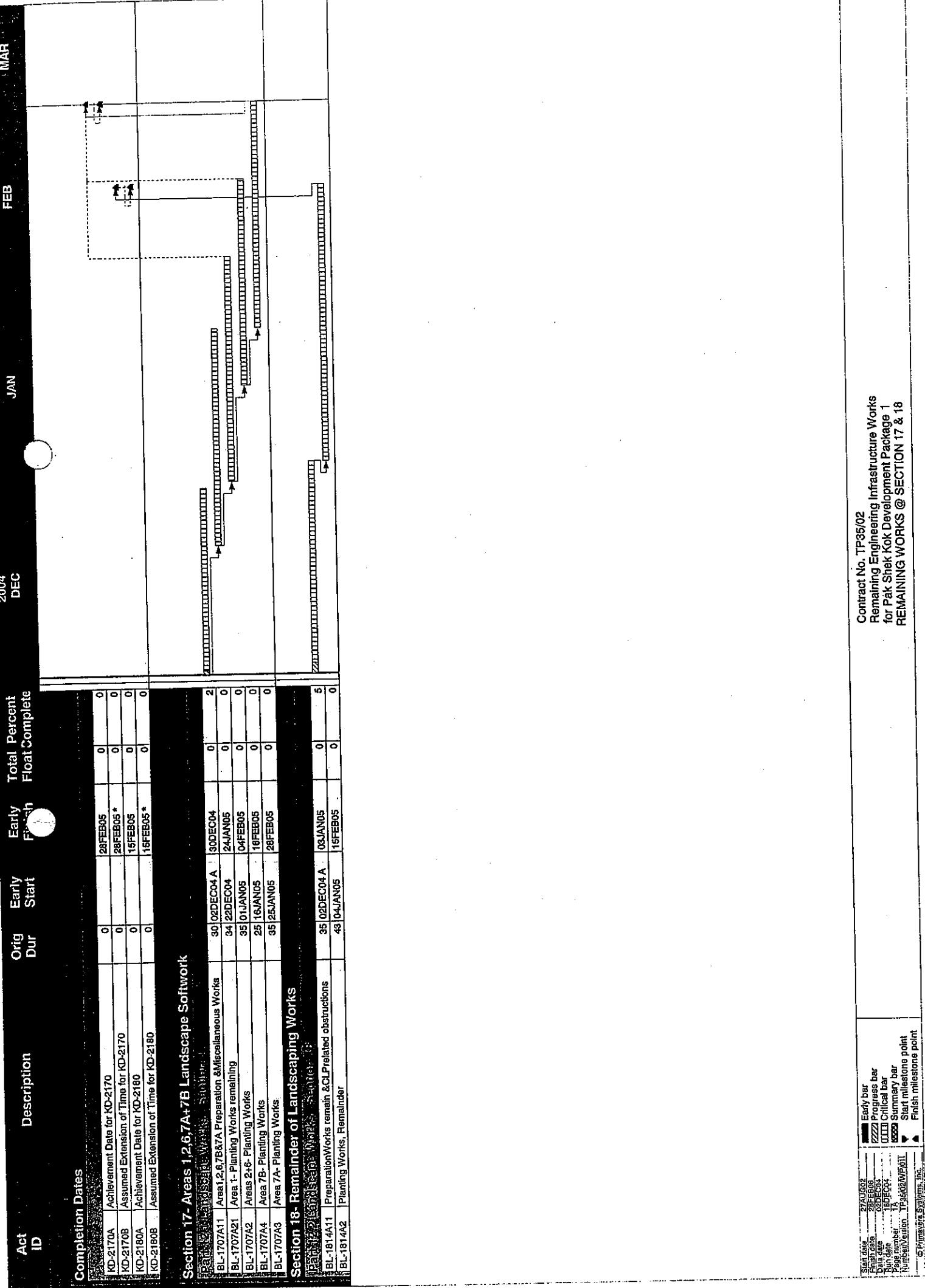
Completion Dates

Act ID	Description	Early Start	Early Finish	Total Duration	Percent Complete
KD-2160A	Achievement Date for KD-2160	0	07JAN05	0	0
KD-2160B	Assumed Extension of Time for KD-2160	0	07JAN05 *	0	0

Section 16- Remainder of Works, except LS+EW

Contract No. TP35/02
Remaining Engineering Infrastructure Works
for Pak Shek Kok Development Package 1
REMAINING WORKS @ SECTION 16

Start date	27AUG02	■ Early bar
Finish date	28FEB06	■ Progress bar
Data date	02DEC04	▨ Critical bar
Run date	18DEC04	□ Summary bar
Page number	1A	▲ Start milestone point
Number/Version	TP35/02/WP01	▼ Finish milestone point



2004
DEC

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2005

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Completion Dates

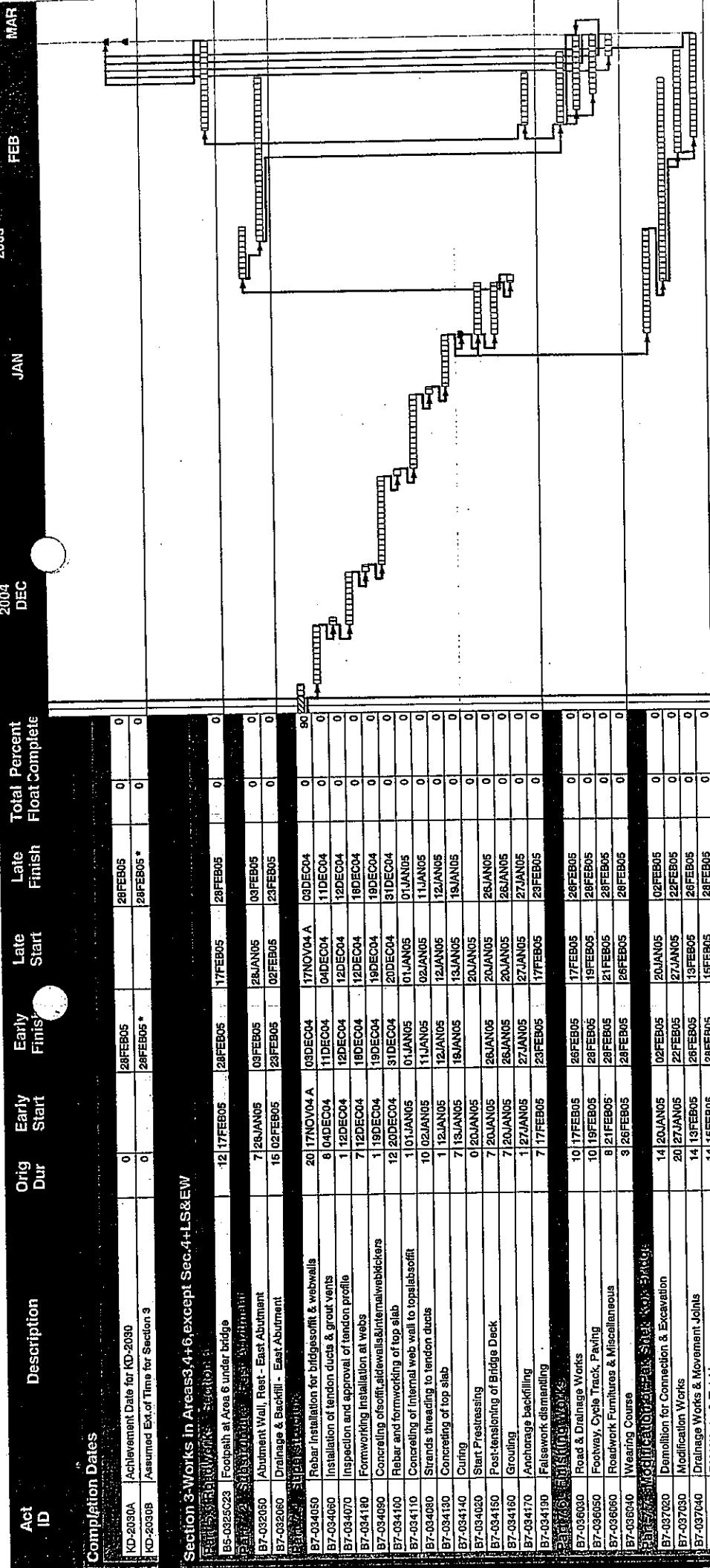
Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Percent Complete
BS-120759	Preliminary Testing and Leak Detection Survey	0	30APR05	30APR05	0	0	0
KD-2120A	Achievement Date for KD-2120	0	30APR05	30APR05	0	0	0
KD-2120B	Assumed Extension of Time for KD-2120	0	30APR05	30APR05	0	0	0
BS-120760	Waterflood Test and Leaking Repair Works	25	02DEC04 A	25DEC04	05DEC04 A	25DEC04	0
BS-120770	Waterflood Test for Group A	13	20DEC04	01JAN05	20DEC04	01JAN05	0
BS-120780	Waterflood Test for Group B	13	20DEC04	01JAN05	01JAN05	01JAN05	0
BS-120790	Sealing Erosion for New Val @ GL-5E	2	28DEC04	29DEC04	28DEC04	29DEC04	0
BS-121020	New Wall Construction @ GL-6E	8	30DEC04	04JAN05	30DEC04	04JAN05	0
BS-121030	Scaffolding Removal @ Switch Room Area	21	02JAN05	14JAN05	03JAN05	15JAN05	0
BS-121040	Scaffolding Extraction @ Switch Room Area	6	15JAN05	21JAN05	15JAN05	21JAN05	0
BS-121050	Inspection Gallery & Switchroom construction	20	20JAN05	15FEB05	20JAN05	15FEB05	0
BS-121060	Electrical Work	0	12DEC04 *	12DEC04 *	12DEC04	12DEC04	0
BS-121070	Completion of Works in Front of Control Room	7	13DEC04	19DEC04	13DEC04	19DEC04	0
BS-120530	Wall Flashing	3	20DEC04	22DEC04	20DEC04	22DEC04	0
BS-120540	Wall Painting	5	23DEC04	27DEC04	23DEC04	27DEC04	0
BS-120550	Plaster Removal @ Loading Bay	20	24DEC04	16JAN05	24DEC04	16JAN05	0
BS-120560	Newly Painted Wall Washout	20	24DEC04	14JAN05	24DEC04	14JAN05	0
BS-120570	Brickwork at GL-2 (7 days curing)	10	17JAN05	25JAN05	17JAN05	26JAN05	0
BS-120580	Finishing on these Walls	0	17JAN05	27JAN05	17JAN05	27JAN05	0
BS-120590	Handover to E&M Works @ Loading Area	6	07JAN05	12JAN05	07JAN05	12JAN05	0
BS-120600	Finishing of New Wall @ GL-4-5E	12	10FEB05	27FEB05	10FEB05	27FEB05	0
BS-120630	Finishing Works for Insulation & Switchroom	0	07APR05	07APR05	07APR05	07APR05	0
BS-120640	FS-20 Substation	0	07APR05	20APR05	07APR05	20APR05	0
BS-120650	Expected FSD Inspection	0	07APR05	20APR05	07APR05	20APR05	0
BS-120660	FSD Final Inspection	0	07APR05	20APR05	07APR05	20APR05	0
BS-120670	Cable Tray Installation	30	24JAN05	01MARS	24JAN05	01MARS	0
BS-120680	Centrifuge & Trunking	40	27JAN05	14MARS	27JAN05	14MARS	0
BS-120690	LV Switchboard and Control Panels	30	27JAN05	03FEB05	27JAN05	03FEB05	0
BS-120700	LV Switchboard	30	27FEB05	18MARS	27FEB05	18MARS	0
BS-120710	Cabinet Works	30	06MARS	06MARS	06MARS	06MARS	0
BS-120720	ES, SMC, G's Installation	10	19MARS	21MARS	19MARS	21MARS	0
BS-120730	Cable Terminations to M&E Equipments	15	22MARS	12APR05	22MARS	12APR05	0
BS-120740	Cable Terminations to Other Equipments	6	15APR05	18APR05	15APR05	18APR05	0
BS-120750	Dendrometer System Functional Testing	6	18APR05	24APR05	18APR05	24APR05	0
BS-120760	SCADA and PLC Works Functional Testing	6	18APR05	24APR05	18APR05	24APR05	0
BS-120770	SCADA & PLC Mapping Test	3	25APR05	27APR05	25APR05	27APR05	0
BS-120780	Commissioning Test	3	28APR05	30APR05	28APR05	30APR05	0

Section 12- Works of Sewage Pumping Station No.1

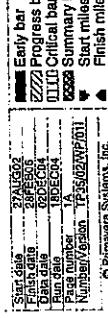
Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Percent Complete
BS-120790	Preliminary Testing and Leakage Repair Works	25	02DEC04 A	25DEC04	05DEC04 A	25DEC04	0
BS-120800	Waterflood Test for Group A	13	20DEC04	01JAN05	01JAN05	01JAN05	0
BS-120810	Waterflood Test for Group B	13	20DEC04	01JAN05	01JAN05	01JAN05	0
BS-120820	Sealing Erosion for New Val @ GL-5E	2	28DEC04	29DEC04	28DEC04	29DEC04	0
BS-120830	New Wall Construction @ GL-6E	8	30DEC04	04JAN05	30DEC04	04JAN05	0
BS-120840	Scaffolding Removal @ Switch Room Area	21	02JAN05	14JAN05	03JAN05	15JAN05	0
BS-120850	Scaffolding Extraction @ Switch Room Area	6	15JAN05	21JAN05	15JAN05	21JAN05	0
BS-120860	Inspection Gallery & Switchroom construction	20	20JAN05	15FEB05	20JAN05	15FEB05	0
BS-120870	Electrical Work	0	12DEC04 *	12DEC04 *	12DEC04	12DEC04	0
BS-120880	Completion of Works in Front of Control Room	7	13DEC04	19DEC04	13DEC04	19DEC04	0
BS-120890	Wall Flashing	3	20DEC04	22DEC04	20DEC04	22DEC04	0
BS-120900	Plaster Removal @ Loading Bay	5	23DEC04	16JAN05	23DEC04	16JAN05	0
BS-120910	Newly Painted Wall Washout	20	24DEC04	14JAN05	24DEC04	14JAN05	0
BS-120920	Brickwork at GL-2 (7 days curing)	10	17JAN05	25JAN05	17JAN05	26JAN05	0
BS-120930	Finishing on these Walls	0	17JAN05	27JAN05	17JAN05	27JAN05	0
BS-120940	Handover to E&M Works @ Loading Area	6	07JAN05	12JAN05	07JAN05	12JAN05	0
BS-120950	Finishing of New Wall @ GL-4-5E	12	10FEB05	27FEB05	10FEB05	27FEB05	0
BS-120960	FS-20 Substation	0	07APR05	20APR05	07APR05	20APR05	0
BS-120970	Expected FSD Inspection	0	07APR05	20APR05	07APR05	20APR05	0
BS-120980	FSD Final Inspection	0	07APR05	20APR05	07APR05	20APR05	0
BS-120990	Cable Tray Installation	30	24JAN05	01MARS	24JAN05	01MARS	0
BS-121000	Centrifuge & Trunking	40	27JAN05	14MARS	27JAN05	14MARS	0
BS-121010	LV Switchboard and Control Panels	30	27JAN05	03FEB05	27JAN05	03FEB05	0
BS-121020	LV Switchboard	30	27FEB05	18MARS	27FEB05	18MARS	0
BS-121030	Cabinet Works	30	06MARS	06MARS	06MARS	06MARS	0
BS-121040	ES, SMC, G's Installation	10	19MARS	21MARS	19MARS	21MARS	0
BS-121050	Cable Terminations to M&E Equipments	15	22MARS	12APR05	22MARS	12APR05	0
BS-121060	Cable Terminations to Other Equipments	6	15APR05	18APR05	15APR05	18APR05	0
BS-121070	Dendrometer System Functional Testing	6	18APR05	24APR05	18APR05	24APR05	0
BS-121080	SCADA and PLC Works Functional Testing	6	18APR05	24APR05	18APR05	24APR05	0
BS-121090	SCADA & PLC Mapping Test	3	25APR05	27APR05	25APR05	27APR05	0
BS-121100	Commissioning Test	3	28APR05	30APR05	28APR05	30APR05	0

Early Date
Proposed Date
Critical Date
Late Date
Normal Work
Dedicated Work
Commissioning Point
Flash mitigation point

Contract No. TPA502
Remaining Engineering Infrastructure Works
for Pak Shauk Tok Development Package 1
Critical Path on Section 12



Contract No. TP35/02
Remaining Engineering Infrastructure Works
for Pak Shek Kok Development Package 1
Critical Path on Section 3





Section 17- Areas 1,2,6,7A+7B Landscape Softwork

BL-1707A1	Area 1,2,6,7A,P Preparation &Miscellaneous Works	30 02DEC04 A	30DEC04	02DEC04 A	30DEC04	02DEC04 A	30DEC04
BL-1707A2	Area 1- Planting Works remaining	34 22DEC04	24JAN05	22DEC04	24JAN05	0	2
BL-1707A3	Areas 2-6- Planting Works	35 01JAN05	04FEB05	01JAN05	04FEB05	0	0
BL-1707A4	Area 7B- Planting Works	25 16JAN05	18FEB05	16JAN05	18FEB05	0	0
BL-1707A5	Area 7A- Planting Works	35 25JAN05	28FEB05	25JAN05	28FEB05	0	0

Section 18- Remainder of Landscaping Works

BL-1814A1	Preparation Works remain &CLP related obstructions	35 02DEC04 A	03JAN05	02DEC04 A	03JAN05	0	5
BL-1814A2	Planting Works, Remainer	43 04JAN05	15FEB05	04JAN05	15FEB05	0	0

Contract No. TP35/02
Renovating Engineering Infrastructure Works
for Pak Sha Kok Development Package 1
Critical Path on Section 17, 18

Start date: 21NOV04
End date: 28FEB05
Total duration: 105 days
Last data: 10DEC04
Page number: 14
Number/Section: TP35/02/PK1
Drawing Status: 15
Early bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

Act ID	Description	Orig Dur	Early Start	Late Start	Early Finish	Late Start	Late Finish	Total Float	Percent Complete	Percent Late	Percent Overdue
KD-1000	Contract Duration		1282	27AUG02 A	28FEB06	27AUG02 A	28FEB06	0	65	0	0

Contract Award & Commencement**Completion Dates**

KD-1010	Contract Award & Commencement	0	27AUG02 A		27AUG02 A		27AUG02 A	100			
KD-2212	Land Strip @ E of SRE Office/N of School Site	0		14NOV02 A		14NOV02 A		100			
KD-2212A	Achievement Date of KD-2212	0		14NOV02 A		14NOV02 A		100			
KD-2080	Section 8- Works In Area 10B	0		06DEC02 A		06DEC02 A		100			
KD-2080A	Achievement Date of KD-2080	0		06DEC02 A		06DEC02 A		100			
KD-2140	Section 14- Work In Area 14	0		07APR03 A		07APR03 A		100			
KD-2140A	Achievement Date of KD-2140	0		07APR03 A		07APR03 A		100			
KD-2213	Land Strip around Housing Site 1	0		15MAY03 A		15MAY03 A		100			
KD-2213A	Achievement Date of KD-2213	0		15MAY03 A		15MAY03 A		100			
KD-2080	Section 9- Works In Area 5	0		23JUL03 A		23JUL03 A		100			
KD-2080B	Assumed Ext. of Time for Setting-Works In Area 5	0		23JUL03 A		23JUL03 A		100			
KD-2080A	Achievement Date for KD-2080	0		09AUG03 A		09AUG03 A		100			
KD-2010	Soc.7-Area 8A,not Rd/work/Area 10A,not Sec.10&11	0		09AUG03 A		09AUG03 A		100			
KD-2070A	Achievement Date for KD-2070	0		09AUG03 A		09AUG03 A		100			
KD-2211	Land Strip South of Area 8A	0		09AUG03 A		09AUG03 A		100			
KD-2211A	Achievement Date for KD-2211A	0		10NOV03 A		10NOV03 A		100			
KD-2110	[Sec.11-Area 10A Pipe Culvert 10A,Earthwork&Works	0		10NOV03 A		10NOV03 A		100			
KD-2110A	Achievement Date for KD-2110	0		10NOV03 A		10NOV03 A		100			
KD-2214	Land Strip around Housing Sites 2 & 3	0		18NOV03 A		18NOV03 A		100			
KD-2214A	Achievement Date for KD-2214	0		18NOV03 A		18NOV03 A		100			
KD-2010	Section 1- Works in Area 1, except LS & EW	0		09MAR04 A		09MAR04 A		100			
KD-2010A	Achievement Date for KD-2010	0		09MAR04 A		09MAR04 A		100			
KD-2010B	Assumed Extension of Time for Area 1	0		09APR04 A		09APR04 A		100			
KD-2100	Sec. 10-Area 9+9B/Area 8A&10A Roadwork,not Affected by Comp Pipe	0		28MAY04 A		28MAY04 A		100			
KD-2100A	Achievement Date for KD-2100	0		29MAY04 A		29MAY04 A		100			
KD-2100B	Assumed Extension of Time for Section 10	0		29MAY04 A		29MAY04 A		100			
KD-2080	Section 6- Works in Area 7B, except LS & EW	0		31MAY04 A		31MAY04 A		100			
KD-2080A	Achievement Date for KD-2080(Affected by corr,pipe)	0		30APR04 A		30APR04 A		100			
KD-2080B	Assumed Extension of Time for Area 7B	0		31MAY04 A		31MAY04 A		100			
KD-2080C	Subst/Compilation/Area 7B not affected by corr,pipe	0		31MAY04 A		31MAY04 A		100			
KD-2020	Section 2- Works Area 2, except LS & EW	0		17MARD4 A		17MARD4 A		100			
KD-2020A	Achievement Date for KD-2020	0		17MARD4 A		17MARD4 A		100			
KD-2020B	Assumed Extension of Time for Area 2	0		17MARD4 A		17MARD4 A		100			
KD-2040	Section 4- Waterworks in Areas 3, 4 & 6	0		01DEC04 *		26MAY04 *	-189d	0			
KD-2040A	Achievement Date for KD-2040	0		23DEC04		23DEC04	0	0			
KD-2040B	Assumed Extension of Time for KD-2040	0		23DEC04 *		23DEC04 *	0	0			
KD-2150	Section 15- Waterworks in Area 15	0		01DEC04 *		14JUL04 *	-14d	0			
KD-2150A	Achievement Date for KD-2150	0		04DEC04 A		04DEC04 A		100			
KD-2150B	Assumed Extension of Time for KD-2150	0		04DEC04 A		04DEC04 A		100			
KD-2150B10	Achievement Date for KD-2150(Affected by YO/073)	0		04DEC04 A		04DEC04 A		100			
KD-2250	Section 5- Work in Area 7A,except P.Sin.1, LS&EW	0		16SEP04 *		16SEP04 *	-76d	0			
KD-2050A	Achievement Date for KD-2050	0		16OCT04 A		16OCT04 A		100			
KD-2050B	Assumed Ext. of Time for Section 5	0		16OCT04 A		16OCT04 A		100			
KD-2050B3	Section 3- Works in Areas 3+4+6,except Sec4+1,S&EW	0		04FEB05 *		04FEB05 *	0	0			
KD-2030A	Achievement Date for KD-2030	0		28FEB05		28FEB05	0	0			
KD-2030B	Assumed Ext. of Time for Section 3	0		28FEB05 *		28FEB05 *	0	0			

24/Aug02 Early bar
 25/Sep02 Progress bar
 1/Dec02 Critical bar
 12/Dec02 Summary bar
 1/Jan03 Star milestone point
 1/Feb03 Finish milestone point
 1/Mar03 Primary Slams, Inc.

Contract No. TP35/02	Approved
No.3 Revision G	W/J
No.0 Revision G1	W/J
01OCT04	W/J
01DEC04	W/J
12DEC04	W/J
13/Jan03	W/J

Remaining Engineering Infrastructure Works
for Pak Shek Kok Development Package 1
REVISED WORKS PROGRAMME I

Project Schedule & Milestones							
Act ID	Orig Due	Description	Early Start	Late Finish	Total Float	Percent Complete	Completion Date
			Start	Finish	Start	Finish	Start
KD-2120	Section 12- Works of Sewage Pumping Station No.1	0	01L..04*	18NOV04*	-13d	0	▲ Achievement Date for KD-2120
KD-2120A	Achievement Date for KD-2120	0	30APR05	0	0	0	▲ Assumed Extension of Time for KD-2120
KD-2120B	Assumed Extension of Time for KD-2120	0	30APR05*	0	0	0	▲ Achievement Date for KD-2130
KD-2130	Section 13- Works of Sewage Pumping Station No.2	0	01DEC04*	16NOV04*	-15d	0	▲ Achievement Date for KD-2130
KD-2130A	Achievement Date for KD-2130	0	30APR05	0	0	0	▲ Assumed Extension of Time for KD-2130
KD-2130B	Assumed Extension of Time for KD-2130	0	30APR05*	0	0	0	▲ Section 16- Remainder of Works, except LS+EW
KD-2160	Section 16- Remainder of Works, except LS+EW	0	21DEC04*	21DEC04*	0	0	▲ Achievement Date for KD-2160
KD-2160A	Achievement Date for KD-2160	0	07JAN05	0	0	0	▲ Assumed Extension of Time for KD-2160
KD-2160B	Assumed Extension of Time for KD-2160	0	07JAN05*	0	0	0	▲ Achievement Date for KD-2170
KD-2170	Section 17-Areas 1,2,6,7A+7B Landscaping Softwork	0	07JAN05*	24OCT04*	-38d	0	▲ Achievement Date for KD-2170
KD-2170A	Achievement Date for KD-2170	0	28FEB05	0	0	0	▲ Assumed Extension of Time for KD-2170
KD-2170B	Assumed Extension of Time for KD-2170	0	28FEB05*	24OCT04*	-38d	0	▲ Achievement Date for KD-2180
KD-2180	Section 18- Remainder of Landscaping Softworks	0	01DEC04*	15FEB05	0	0	▲ Assumed Extension of Time for KD-2180
KD-2180A	Achievement Date for KD-2180	0	15FEB05*	0	0	0	▲ Completion of the Works
KD-2180B	Assumed Extension of Time for KD-2180	0	15FEB05*	24OCT05*	-38d	0	▲ Achievement Date for KD-2180
KD-2009	Completion of the Works	0	24OCT05*	28FEB06	0	0	▲ Section 19- Areas 1,2,6,7A+7B
KD-2009A	Achievement Date for KD-2009	0	28FEB06	0	0	0	▲ Assumed Extension of Time for Completion of Works
KD-2009B	Assumed Extension of Time for Completion of Works	0	28FEB06*	24OCT05*	0	0	▲ Achievement Date for KD-2190
KD-2190	Section 19- Areas 1,2,6,7A+7B Establishment Works	0	24OCT05*	28FEB06	0	0	▲ Section 20- Remainder of Establishment Works
KD-2190A	Achievement Date for KD-2190	0	28FEB06	28FEB06*	0	0	▲ Assumed Extension of Time for KD-2190
KD-2190B	Assumed Extension of Time for KD-2190	0	28FEB06*	24OCT05*	0	0	▲ Assumed Extension of Time for Establishment Works
KD-2200	Section 20- Remainder of Establishment Works	0	24OCT05*	15FEB06*	0	0	▲ Assumed Extension of Time for KD-2200
KD-2200A	Achievement Date for KD-2200	0	15FEB06*	15FEB06	0	0	▲ Assumed Extension of Time for KD-2200
KD-2200A	Achievement Date for KD-2200	0	15FEB06	100	100	100	▲ Phased Possession of Site
	+ Utilities Milestone Dates		31/8/2002 A	24SEP03 A	27AUG02 A	24SEP03 A	100
	+ Submission & Approval		22/10/2004	23DEC04	01DEC04	23DEC04	0
	+ Preliminaries & Procurement		563/27AUG02 A	25JUL04 A	27AUG02 A	26JUL04 A	100
	+ Cycle Track Traffic Management		676/27AUG02 A	13DEC04	27AUG02 A	11APR05	102d
	+ Temporary Traffic Arrangement		522/14SEP02 A	26JUN04 A	14SEP02 A	28JUN04 A	100
	+ Temporary Diversion of Exi. Utilities & Drainage		555/28AUG02 A	05MAR04 A	28AUG02 A	05MAR04 A	100
			455/26NOV02 A	124FEB04 A	26NOV02 A	24FEE04 A	100
	+ Part 1: Preliminaries		14/03SEP02 A	18SEP02 A	03SEP02 A	18DEC02 A	100
B1-0101D1	Erect Contractor's Temporary Site Offices	21/27AUG02 A	16SEP02 A	27AUG02 A	16SEP02 A	100	Contract No. TP35/02
B1-0101D1	Third Party Insurance	1/27AUG02 A	27AUG02 A	27AUG02 A	27AUG02 A	100	Remaining Engineering Infrastructure Works
B1-0102C1	Install computer facilities for Engineer/Initial	2/27AUG02 A	28AUG02 A	27AUG02 A	28AUG02 A	100	for Pak Shek Kok Development Package 1
B1-0103D1	Provide Mobile Phones, Ant	7/27AUG02 A	02SEP02 A	27AUG02 A	27AUG02 A	100	REvised WORKS PROGRAMME
B1-0103L0	Take over ex.W/Washing Facilities at Zone A	1/27AUG02 A	02SEP02 A	27AUG02 A	27AUG02 A	100	REvised WORKS PROGRAMME
B1-0107C0	Prepare & Submit Waste Management Plan	7/27AUG02 A	02SEP02 A	27AUG02 A	02SEP02 A	100	REvised WORKS PROGRAMME
B1-0103A6	Maintain W/Washing Facilities, Existing @ Zone A	773/28AUG02 A	28MARS03 A	28AUG02 A	28MARS03 A	100	REvised WORKS PROGRAMME
B1-0101D2	Servicing Contractor's Temp. Site Offices	100/03SEP02 A	18DEC02 A	03SEP02 A	18DEC02 A	100	REvised WORKS PROGRAMME
B1-0102E0	Record Photographs	14/03SEP02 A	18SEP02 A	03SEP02 A	16SEP02 A	100	REvised WORKS PROGRAMME
	Date	01JUN04	No.9 Revision G	WA	Approved	WL	
	Date	07JUN04	No.10 Revision G	WA	Approved	WL	
	Date	04OCT04	No.11 Revision I	WA	Approved	WL	
	Date	17DEC04	No.12 Revision J	WA	Approved	WL	

2004
Total Percent
Complete

Act Id	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Dur	Percent Complete
B1-0103E1	Operate/ maintain Mobile Phones, 4hr	1020 03SEP02 A	28FEE06	81%				
B1-0197D0	Update Waste Management Plan	1080 03SEP02 A	28FEE06	77%				
B1-0107E0	Implement & Monitor Waste Management Plan	1080 03SEP02 A	28FEE06	77%				
B1-0102A0	Provide 4-wheel drive vehicle, 2 hr	5 03SEP02 A	09SEP02 A	100%				
B1-0102B0	Operate & maintain 4-wheel drive vehicle, 2 hr	100 05SEP02 A	20NOV05	82%				
B1-0108B01	Site Clearance-Zones A,B,C,D,E,F,J,L,N2,Q,R,S1	30 10SEP02 A	15OCT02 A	100%				
B1-0101F1	Provide measures-Traffic flow maint. S1/ZoneF,B2	14 10SEP02 A	23SEP02 A	100%				
B1-0101F3	Provide measures- Traffic flow maint. S5/ Zone F	14 10SEP02 A	23SEP02 A	100%				
B1-0101G0	Maintain/remove measures for traffic flow	1140 10SEP02 A	28FEE06	123d				
B1-0103I3	Construct W/Washing Facilities, WB3 at Zone N2	15 26SEP02 A	10OCT02 A	100%				
B1-0108B02	Site Clearance-Zones R & S1	2 27SEP02 A	28SEP02 A	100%				
B1-0102D0	Progress Photographs, 30hr	900 19MARD05	146d	88%				
B1-0106J0	Provide Baseline Air Monitoring	14 02OCT02 A	17OCT02 A	100%				
B1-0108B15	General Site Clearance	1080 05OCT02 A	15MARD14	100%				
B1-0101E4	T/O measures-Traffic flow maintenance, Zone S1	2 09OCT02 A	09OCT02 A	100%				
B1-0106N0	Maintain Noise Monitoring	1118 09OCT02 A	02DEC04 A	100%				
B1-0103J3	Maintain W/Washing Facilities, WB3 at Zone N2	790 11OCT02 A	30APR04 A	100%				
B1-0106K0	Maintain Air Monitoring	1104 16OCT02 A	02DEC04 A	100%				
B1-0106M0	Provide Baseline Noise Monitoring	14 16OCT02 A	16OCT02 A	100%				
B1-0101D4	ERect Contractor's Site Accommodation	60 01NOV02 A	26NOV02 A	100%				
B1-0101A0	Erect Engineer's Site Accommodation	60 14NOV02 A	01DEC02 A	100%				
B1-0104E0	Concrete Paving to Engineer's Site Accommodation	21 14NOV02 A	14NOV02 A	100%				
B1-0103C1	ERect Temporary Gate, 6mWx1.8mh at Zone A	21 26NOV02 A	21 26NOV02 A	21 26NOV02 A	21 26NOV02 A	21 26NOV02 A	26NOV02 A	100%
B1-0103C2	ERect Temporary Gate, 6mWx1.8mh at Zone Q	21 26NOV02 A	16DEC02 A	100%				
B1-0103C3	ERect Temporary Gate, 6mWx1.8mh at SRE Office	21 26NOV02 A	26NOV02 A	100%				
B1-0103D2	Provide Mobile Phones, 3hr	7 26NOV02 A	02DEC02 A	100%				
B1-0104E0	Take over Ex/Cyclist/Ped.Bridge at Zone H	1 26NOV02 A	26NOV02 A	100%				
B1-0108B03	Site Clearance-Zone B1	2 26NOV02 A	27NOV02 A	100%				
B1-0107L0	Maintain Ex/Cyclist/Ped.Bridge at Zone H	382 07JUN04 A	07JUN04 A	100%				
B1-0103E2	Operate/ maintain Mobile Phones, 3hr	1020 03DEC02 A	20SEP04 A	100%				
B1-0101D3	Demolish Contractor's Temp. Site Offices	14 09DEC02 A	11DEC02 A	100%				
B1-0101D5	Servicing Contractor's Site Accommodation	1045 16DEC02 A	26NOV02 A	100%				
B1-0108B03	Servicing Engineer's Site Accommodation	1087 20SEP04 A	25DEC02 A	100%				
B1-0101E1	T/O measures-Traffic flow maintenance, Rest	14 26DEC02 A	27DEC02 A	100%				
B1-0101E3	T/O measures-Traffic flow maintenance, Zone P	2 26DEC02 A	27DEC02 A	100%				
B1-0102C2	Install computer facilities for Engineer	45 30DEC02 A	30DEC02 A	100%				
B1-0101F7	Provide measures- Traffic flow maint. S16/ZoneS3	5 07MAR03 A	08APR03 A	100%				
B1-0101E2	T/O measures-Traffic flow maintenance, Zone G	2 24JAN03 A	24JAN03 A	100%				
B1-0101F2	Provide measures- Traffic flow maint. S3/ Zone G	3 20MAR03 A	01APR03 A	100%				
B1-0101F4	Provide measures- Traffic flow maint. S16/Zone G	14 27JAN03 A	08APR03 A	100%				
B1-0102B06	Site Clearance- Zone S2 & J Rest	14 29MAR03 A	07MAY03 A	100%				
B1-0108B04	Site Clearance- Zone P	5 20MAR03 A	20MAR03 A	100%				
B1-0108B05	Site Clearance- Zone G	3 20MAR03 A	20MAR03 A	100%				
B1-0101E5	T/O measures-Traffic flow maintenance, Zone S3	2 27MAR03 A	27MAR03 A	100%				
B1-0103K6	Remove W/Washing Facilities, Existing @ Zone A	15 28MAR03 A	28MAY03 A	100%				
B1-0101F5	Provide measures- Traffic flow maint. S16/ZoneS3	14 29MAR03 A	11APR03 A	100%				
B1-0108B07	Site Clearance- Zones N1 & T	6 05APR03 A	10APR03 A	100%				
B1-0108B05	Construct W/Washing Facilities, WB5 at Zone A	15 07APR03 A	15 07APR03 A	15 07APR03 A	15 07APR03 A	15 07APR03 A	07APR03 A	100%
B1-0101E5	ERect Barricade at Zone L	30 11APR03 A	11APR03 A	100%				
B1-0103AL	Erect Signboard, 1mr at SRE Site Office	21 26APR03 A	26APR03 A	100%				
B1-0103K5	Maintain W/Washing Facilities, WB5 at Zone A	149 28APR03 A	149 28APR03 A	149 28APR03 A	149 28APR03 A	149 28APR03 A	31MAY04 A	100%
B1-0103K6	Remove W/Washing Facilities, WB5 at Zone A	15 29APR03 A	15 29APR03 A	15 29APR03 A	15 29APR03 A	15 29APR03 A	08MAY03 A	100%
B1-0107H0	Take over Ex/Cyclist/Pedestrian Bridge@N.RoundA	1 20MAY03 A	20MAY03 A	100%				
B1-0101J0	Maintain Ex/Cyclist/Pedestrian Bridge@N.RoundA	320 21MAY03 A	26JUN04 A	100%				

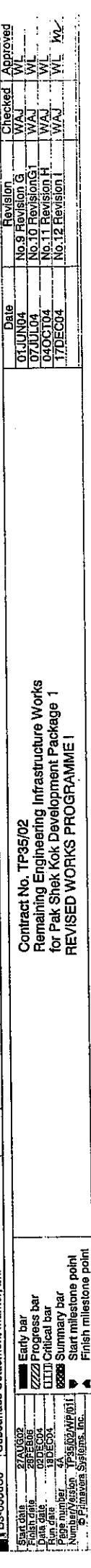
Approved

Contract No. TP35/02
Remaining Engineering Infrastructure Works
for Pak Shek Kok Development Package 1
REVISED WORKS PROGRAMME I

Start date 01JUN04
Finish date 07JUL04
Run date 02JUL04
Page number 1024
Number of pages 1024
Final version 2011
Summary bar
Finish milestone point

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Final version 2011
Summary bar
Finish milestone point

Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Percent Complete	2005													
								SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
B1-0103AC	Erect Hoarding bet Culvert Ctr & S.P Phase1 Site	25	26MAY03 A	19JUN..3A	26MAY03 A	19JUN03 A	100														
B1-0108B09	Site Clearance- Zone H	6	28MAY03 A	02JUN03 A	28MAY03 A	02JUN03 A	100														
B1-0103B2	Erect Signboards, 1nr at Zone Q	21	18JUN03 A	17SEP03 A	18JUN03 A	17SEP03 A	100														
B1-0108B10	Site Clearance- Zone S2	3	25JUL03 A	25JUL03 A	25JUL03 A	25JUL03 A	100														
B1-0101F6	Provide measures- Traffic flow maint. S1@Zone H	14	26JUL03 A	08AUG03 A	26JUL03 A	08AUG03 A	100														
B1-0103I2	Construct W.Washing Facilities, WB2 at Zone Q	15	28JUL03 A	09AUG03 A	28JUL03 A	09AUG03 A	100														
B1-0103I4	Construct W.Washing Facilities, WB4 at Zone L	15	28JUL03 A	14AUG03 A	28JUL03 A	14AUG03 A	100														
B1-0105B08	Maintain W.Washing Facilities, WB2 at Zone Q	424	10AUG03 A	31MAR04 A	10AUG03 A	31MAR04 A	100														
B1-0105J12	Maintain W.Washing Facilities, WB2 at Zone Q	15	11AUG03 A	18AUG03 A	11AUG03 A	18AUG03 A	100														
B1-0105K2	Maintain W.Washing Facilities, WB4 at Zone Q	424	15AUG03 A	22NOV04 A	15AUG03 A	22NOV04 A	100														
B1-0108B11	Maintain W.Washing Facilities, WB4 at Zone M	2	26AUG03 A	29SEP03 A	26AUG03 A	29SEP03 A	100														
B1-0108B08	Site Clearance- Zone B3	2	10SEP03 A	26NOV03 A	10SEP03 A	26NOV03 A	100														
B1-0108B13	Site Clearance- Zone N3	5	15OCT03 A	28NOV03 A	16OCT03 A	28NOV03 A	100														
B1-0108B12	Site Clearance- Zone K	3	10DEC03 A	12DEC03 A	10DEC03 A	12DEC03 A	100														
B1-0103B1	Erect Signboards, 1nr at Zone A	21	16DEC03 A	25DEC03 A	16DEC03 A	25DEC03 A	100														
B1-0107J20	Temporary Cyclone@ at Zone H	5	02MAY04 A	08JUN04 A	02MAY04 A	08JUN04 A	100														
B1-0103K3	Remove W.Washing Facilities, WB3 at Zone N2	15	28MAY04 A	05JUN04 A	28MAY04 A	05JUN04 A	100														
B1-0107M10	Preparation Works for Zone H Cycle tr. demolition	7	01JUN04 A	07JUN04 A	01JUN04 A	07JUN04 A	100														
B1-0107M0	Remove Ex.Cyclist/Ped.Bridge at Zone H	14	08JUN04 A	21JUN04 A	08JUN04 A	21JUN04 A	100														
B1-0107J30	Preparation Works prior to diversion	12	11JUN04 A	25JUN04 A	11JUN04 A	25JUN04 A	100														
B1-0107J60	Removal of existing cycle track along 7A	10	25JUN04 A	04JUL04 A	25JUN04 A	04JUL04 A	100														
B1-0107J10	Remove Ex.Cyclist/Pedestrian Bridge@N.RoundA	45	28JUN04 A	16SEP04 A	28JUN04 A	16SEP04 A	100														
B1-0107J50	Roadworks Handover of Section 1, 2 & 6	0	28AUG04 A	28AUG04 A	28AUG04 A	28AUG04 A	100														
B1-0107J350	Roadworks Handover of Section 1, 2 & 6	35	20SEP04 A	24OCT04 A	20SEP04 A	24OCT04 A	100														
B1-0101D15	Servicing Contractor's Site Accommodation remaining	131	20SEP04 A	30JAN05	20SEP04 A	29JAN05	54														
B1-0103E12	Operate/maintain Mobile Phones, 3nr remaining	131	20SEP04 A	30JAN05	20SEP04 A	29FEB06	54														
B1-0103K4	Remove W.Washing Facilities, WB4 at Zone L	15	22NOV04 A	22NOV04 A	22NOV04 A	22NOV04 A	100														
B1-0101CO	Hand over Engineer's Site Accommodation	30	02DEC04	31DEC04	30JAN06	424d	0														
B1-0106K10	Maintain Air Monitoring, remaining	152	02DEC04 A	29FEB06	21FEB06	29FEB06	2														
B1-0106N10	Maintain Noise Monitoring, remaining	150	02DEC04 A	23APR05	02DEC04 A	28FEB06	5														
B1-0106Z20	Reinstatement at end of Contract	36	02DEC04	05JAN05	04DEC04	07JAN05	2d														
B1-0101D6	Dismantle Contractor's Site Accommodation	30	31JAN05	01MARD05	30JAN06	384d	0														
B1-0106M00	Remove Noise Monitoring Measures	7	17APR05	23APR05	22FEB06	31id	0														
B1-0106L0	Remove Air Monitoring Measures	7	30APR05	06MAY05	22FEB06	288d	0														
+Part 1.2 Preliminaries - Site Accom. (HY/98/02)		179	02JAN03 A	28JUN03 A	02JAN03 A	29JUN03 A	100														
+Section 1- Works in Area 1, except LS & EW		532	04OCT02/A	26JUL04 A	04OCT02 A	26JUL04 A	100														
+Section 2- Works in Area 2, except LS & EW		699	08NOV02/A	02DEC04 A	08NOV02 A	02DEC04 A	100														
+Section 3- Works in Areas 3,4+6,except Sec.4+LS&EW		75	* 02OCT03 A	15DEC03 A	02OCT03 A	15DEC03 A	100														
+Section 4- Site Construction		278	* 21OCT02 A	02AUG03 A	21OCT02 A	02AUG03 A	100														
+Site Clearance - Section 3, Areas 3, 4 & 6		60	02OCT03 A	15DEC03 A	02OCT03 A	15DEC03 A	100														
+Remove disused UPVC duct		30	02OCT03 A	15DEC03 A	02OCT03 A	15DEC03 A	100														
+Remove disused concrete pipe		30	02OCT03 A	15DEC03 A	02OCT03 A	15DEC03 A	100														
+Earthworks - Section 3, Areas 3, 4 & 6		5	21OCT02 A	05NOV02 A	21OCT02 A	05NOV02 A	100														
+S2. Prefloading Mound Formation, Zone G&a, PhasedBa		4	06DEC02 A	15JUL03 A	05DEC02 A	15JUL03 A	100														
+S2. Prefloading Mound Formation, Zone G&a, PhasedBb		7	05DEC02 A	31JUL03 A	05DEC02 A	31JUL03 A	100														
+S5. Prefloading Mound Formation, Zone G, Phase 9A		7	28JUL03 A	16JUL03 A	28JUL03 A	16JUL03 A	100														
+S2. Temp. RE Wall, Zone G, Phase 4B		7	28JUL03 A	16JUL03 A	28JUL03 A	16JUL03 A	100														
+S2. Subsurface Settlement Marker, 2nr		3	27FEB03 A	01MARD03 A	27FEB03 A	01MARD03 A	100														
+Contract No. TP35/02 Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 1 REVISED WORKS PROGRAMME I		01JUN04	No.9 Revision G	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ
+Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 1 REVISED WORKS PROGRAMME I		02JUL04	No.10 Revision G	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ
+04OCT04		03JUL04	No.11 Revision H	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ
+17DEC04		04DEC04	No.12 Revision I	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ	WAJ



Act ID	Description	Orig Dur	Early Start	Late Start	Late Finish	Total Float	Percent Complete	2016															
								SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
B5-0325C53	Footpath beside Open channel remaining	221D	20SEPO4 A	30S...-34 A	20SEPO4 A	30SEPO4 A	100	Open channel remaining	Footpath at Area 4 remaining														
B5-0325C53	Footpath at Area 4 remaining	15	03JAN05	17JAN05	05JAN05	18JAN05	2d																
B5-0325C53	Footpath, Area 3	21	18JAN05	14FEB05	20JAN05	16FEB05	2d																
B5-0325C53	Footpath & Footpath, D1/Ch.780-920	12	30JAN05	17FEB05	04FEB05	22FEB05	5d																
B5-0325C52	Cycle track & Footpath, D1/Ch.780-920	15	19FEB05	27FEB05	16FEB05	02MAR05	3d																
B5-0325C50	Roadworks Furniture & Miscellaneous	13	13FEB05	25FEB05	16FEB05	28FEB05	3d																
B5-0325C53	Footpath at Area 6 under bridge	12	17FEB05	28FEB05	17FEB05	28FEB05	0																
2016	Road D1 Bridge Piling																						
B7-030000	Road D1 Bridge Piling	549 *	03JAN03 A	20JUL04 A	03JAN03 A	20JUL04 A	100	Bridge Piling															
B7-031010	Ground Investigation, 20 nos.	40	03JAN03 A	24JUN03 A	03JAN03 A	24JUN03 A	100	piling works															
B7-031030	Drainage Diversion affecting piling works	4	25JUN03 A	24APR04 A	26JUN03 A	24APR04 A	100																
B7-031040	Prepar& Watermain laying affecting works	75	28AUG03 A	17JAN04 A	28AUG03 A	17JAN04 A	100																
B7-031020	Install Bored Piles, 2300dia, 10m	110	21OCT03 A	10MAY04 A	21OCT03 A	10MAY04 A	100																
B7-031025	Pile Testing	90	17JAN04 A	13APR04 A	17JAN04 A	13APR04 A	100																
B7-031050	Watermain Connection by WSD East abutment	30	08FEB04 A	24APR04 A	09FEB04 A	24APR04 A	100	WSD East abutment															
B7-031070	Watermain diversion affecting west abutment	15	24APR04 A	28APR04 A	24APR04 A	28APR04 A	100	west abutment															
B7-031035	Remedial works on AE1-1 bored pile	15	27APR04 A	11MAY04 A	27APR04 A	11MAY04 A	100	1 bored pile															
B7-031045	Install Bored Piles, remaining AW1-4	20	28APR04 A	02JUN04 A	28APR04 A	02JUN04 A	100	remaining AW1-4															
B7-031060	Watermain connection by WSD west abutment	32	25MAY04 A	12JUL04 A	25MAY04 A	12JUL04 A	100	remaining AW1-5															
B7-031065	Install Bored Piles, remaining AW1-5	20	03JUN04 A	15JUN04 A	03JUN04 A	15JUN04 A	100																
B7-031055	Pile Testing, remaining 2 nos.	19	23JUN04 A	20JUL04 A	23JUN04 A	20JUL04 A	100																
2016	Road D1 Bridge East Abutment																						
B7-030200	Road D1 Bridge East Abutment	281 *	12MAY04 A	23FEB05	12MAY04 A	23FEB05	0																
B7-030210	Excavation East Abutment	27	12MAY04 A	19JUN04 A	12MAY04 A	19JUN04 A	100	Abutment															
B7-030230	Abutment Cap East Abutment	25	17JUN04 A	20JUL04 A	17JUN04 A	20JUL04 A	100	Cap East Abutment															
B7-030280	Watermain diversion pedestal works	9	21JUL04 A	29JUL04 A	21JUL04 A	29JUL04 A	100	pedestal works															
B7-030240	Abutment Wall, Lower - East Abutment	21	30JUL04 A	25AUG04 A	30JUL04 A	25AUG04 A	100	lower - East Abutment															
B7-030280	Watermain diversion @ East Abutment	7	26AUG04 A	18SEP04 A	26AUG04 A	18SEP04 A	100	Watermain diversion @ East Abutment															
B7-0302100	East abutment wing wall construction	51	04SEP04 A	04SEP04 A	04SEP04 A	04SEP04 A	100	East abutment wing wall construction															
B7-032120	Abutment Wall, lower to existing	24	06SEP04 A	01NOV04 A	06SEP04 A	01NOV04 A	100	existing															
B7-0302070	Bearing East Abutment	7	10SEP04 A	11SEP04 A	10SEP04 A	11SEP04 A	100																
B7-0302130	Watermain Testing at East Abutment	15	20SEP04 A	14OCT04 A	18OCT04 A	15OCT04 A	100	Watermain Testing at East Abutment															
B7-032110	WSD connection of diverted watermain	15	16OCT04 A	16OCT04 A	16OCT04 A	16OCT04 A	100																
B7-032050	Abutment Wall, Rest - East Abutment	7	28JAN05	03FEB05	28FEB05	03FEB05	100																
B7-032060	Drainage & Backfill - East Abutment	16	02FEB05	23FEB05	02FEB05	23FEB05	100																
2016	Road D1 Bridge West Abutment																						
B7-030200	Road D1 Bridge West Abutment	201 *	21JUL04 A	13FEB05	21JUL04 A	13FEB05	67																
B7-030210	Excavation West Abutment	27	21JUL04 A	23AUG04 A	21JUL04 A	23AUG04 A	100	excavation West Abutment															
B7-030230	Abutment Cap West Abutment	25	24AUG04 A	13SEP04 A	24AUG04 A	13SEP04 A	100	West Abutment															
B7-030200	Abutment Wall, Lower - West Abutment	18	14SEP04 A	28SEP04 A	14SEP04 A	28SEP04 A	100																
B7-030240	Formwork Installation at web	7	13OCT04 A	16OCT04 A	13OCT04 A	16OCT04 A	100																
B7-030270	Beating West Abutment	7	13OCT04 A	03FEB05	02FEB05	03FEB05	100																
B7-0302050	Abutment Wall, Rest - West Abutment	7	31JAN05	13FEB05	05FEB05	13FEB05	5d																
2016	Road D1 Bridge Superstructure																						
B7-030400	Road D1 Bridge Superstructure	225 *	03JUL04 A	23FEB05	03JUL04 A	23FEB05	0																
B7-0304040	Working Platform Construction	24	03JUL04 A	22NOV04 A	03JUL04 A	22NOV04 A	100																
B7-0304010	Start of Decking Works	0	17NOV04 A	03DEC04	17NOV04 A	03DEC04	90																
B7-0304050	Rebar Installation for bridgesoffit & webwalls	20	17NOV04 A	04DEC04	11DEC04	04DEC04	0																
B7-0304060	Installation of tendon ducts & grout vents	9	04DEC04	11DEC04	11DEC04	11DEC04	0																
B7-0304070	Inspection and approval of tendon profile	1	11DEC04	11DEC04	11DEC04	11DEC04	0																
B7-0304180	Formworking Installation at webs	7	12DEC04	18DEC04	12DEC04	18DEC04	0																
B7-034090	Concreteing offslit, sidewalls&internalwebblockers	1	19DEC04	19DEC04	19DEC04	19DEC04	0																
B7-034100	Rebar and formworking of top slab	12	20DEC04	31DEC04	20DEC04	31DEC04	0																
B7-034110	Concreting of internal web wall to topslaboffit	1	01JAN05	01JAN05	01JAN05	01JAN05	0																
2016	Road D1 Bridge Superstructure																						
Start date	27APR02	Early bar																					
Finish date	22FEB06	Progress bar																					
Run date	22DEC04	Critical bar																					
Page number	64	Summary bar																					
Number	TP35/02/W/01	Start milestone point																					
Page	1	Finish milestone point																					
Number	TP35/02/W/01	● Primavera Systems, Inc.																					

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REVISED WORKS PROGRAMME I

Approved
W/J 01JUN04
W/J 01JUL04
W/J 01AUG04
W/J 01SEP04
W/J 01OCT04
W/J 01NOV04
W/J 01DEC04
W/J 01JAN05
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W/J 01MAY05
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W/J 01DEC06
W/J 01JAN07
W/J 01FEB07
W/J 01MAR07<br

Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Percent Complete
B7-034080	Strands threading to tendon ducts	10 02JAN05	05	02JAN05	11JAN05	0	0	
B7-034120	Misc. rebar fixing and formworking for top slab	5 02JAN05	-	06JAN05	07JAN05	11JAN05	5d	0
B7-034130	Concreting of top slab	1 12JAN05	-	12JAN05	12JAN05	12JAN05	0	0
B7-034140	Curing	7 13JAN05	-	13JAN05	13JAN05	19JAN05	0	0
B7-034200	Start Prestressing	0 20JAN05	-	20JAN05	20JAN05	20JAN05	0	0
B7-034210	Post-tensioning of Bridge Deck	7 20JAN05	26JAN05	20JAN05	26JAN05	26JAN05	0	0
B7-034150	GROUTING	7 20JAN05	26JAN05	20JAN05	26JAN05	26JAN05	0	0
B7-034160	Anchorage backfilling	1 27JAN05	27JAN05	27JAN05	27JAN05	0	0	
B7-034170	Movement Joint	7 30JAN05	05FEB05	05FEB05	18FEB05	6d	0	
B7-034030	Falsework dismantling	7 17FEB05	23FEB05	17FEB05	23FEB05	0	0	
Part 2: Retaining Walls								
B7-036000	Road D1 Bridge Retaining Walls	92 * 02NOV04 A	01FEB05	02NOV04 A	16FEB05	8d	33	
B7-036030	Retaining Wall No. 2	25 02NOV04 A	04DEC04	02NOV04 A	12JAN05	39d	59	
B7-036020	Retaining Wall No. 1	25 18NOV04 A	07DEC04	18NOV04 A	20JAN05	44d	76	
B7-036040	Retaining Wall No. 3	18 13JAN05	30JAN05	21JAN05	14FEB05	8d	0	
B7-036050	Drainage & Backfill	15 18JAN05	01FEB05	26JAN05	16FEB05	8d	0	
B7-036060	Roadwork Furniture & Miscellaneous	8 21FEB05	28FEB05	21FEB05	28FEB05	0	0	
B7-036060	Movement Joint	7 23JAN05	29JAN05	01FEB05	14FEB05	9d	0	
Part 3: Footways & Footbridges								
B7-036000	Road D1 Bridge Finishing Works	12 * 17FEB05	28FEB05	17FEB05	28FEB05	0	0	
B7-036030	Road & Drainage Works	10 17FEB05	26FEB05	17FEB05	26FEB05	0	0	
B7-036050	Footway, Cycle Track, Paving	10 19FEB05	28FEB05	19FEB05	28FEB05	0	0	
B7-036060	Roadwork Furniture & Miscellaneous	3 26FEB05	28FEB05	26FEB05	28FEB05	0	0	
Part 4: Modification of PSK Bridge								
B7-037000	Modification of PSK Bridge	33 * 20JAN05	28FEB05	20JAN05	28FEB05	0	0	
B7-037020	Demolition for Connection & Excavation	14 20JAN05	02FEB05	20JAN05	02FEB05	0	0	
B7-037030	Demolition Works	20 27JAN05	22FEB05	27JAN05	22FEB05	0	0	
B7-037040	Drainage Works & Movement Joints	14 13FEB05	28FEB05	13FEB05	26FEB05	0	0	
B7-037050	E&M Works & Finishing	14 15FEB05	28FEB05	15FEB05	28FEB05	0	0	
Part 5: Waterworks - Section 4, Areas 3 & 4								
B6-040000	Waterworks - Section 4, Areas 3 & 4	562 * 02JUN03 A	23DEC04	02JUN03 A	23DEC04	0	56d	
B6-0424A0	Trial Pits	14 02JUN03 A	26JUN03 A	02JUN03 A	20JUN03 A	0	100	
B6-0425H0	Watermains Across Yau King Lane @ Area 4 chamber	25 25SEP03 A	02DEC03 A	25SEP03 A	02DEC03 A	100	100	
B6-0428H20	Preparation works for pipe laying across YKL	92 03DEC03 A	08FEB04 A	03DEC03 A	08FEB04 A	100	100	
B6-0424C4	Waterworks, Under footpath at Area 4 beside OC	35 07APR04 A	17APR04 A	07APR04 A	17APR04 A	100	100	
B6-0424C5	Hyder's redesign phase at Area 4	30 18APR04 A	15MAY04 A	18APR04 A	15MAY04 A	100	100	
B6-0424C6	Preparation works for watermain	10 18MAY04 A	02JUN04 A	18MAY04 A	02JUN04 A	100	100	
B6-0425H10	Watermain Across Yau King Lane at Area 4 remaining	5 03JUN04 A	04AUG04 A	03JUN04 A	04AUG04 A	100	100	
B6-0425H30	Procure, & Manufacturing of new fittings for VO/288	48 03JUN04 A	20JUL04 A	03JUN04 A	20JUL04 A	100	100	
B6-0424C17	Delivery of fittings	55 21JUL04 A	07AUG04 A	07AUG04 A	07AUG04 A	100	100	
B6-0424C7	Waterworks under footpath at Area 4 remaining	28 13SEP04 A	28OCT04 A	13SEP04 A	28OCT04 A	100	100	
B6-0424C13	Reprocurement of Stolen Fittings	30 22SEP04 A	22SEP04 A	22SEP04 A	25OCT04 A	100	100	
B6-0424C3	Waterworks under footpath at Area 3	20 05OCT04 A	04DEC04	05OCT04 A	04DEC04	0	85	
B6-0424C23	Washoutpit & remaining works	19 05DEC04	28DEC04	05DEC04	29DEC04	0	0	
Part 6: Waterworks - Section 4, Areas 3 & 4								
B6-040060	Waterworks - Section 4, Area 6	497 * 08JUL03 A	24NOV04 A	08JUL03 A	24NOV04 A	100	100	
B6-041000	Trial Pits	14 09JUL03 A	12JUL03 A	08JUL03 A	12JUL03 A	100	100	
B6-0417C12	Replace Existing Watermain, D1/Ch.870-920	25 03NOV03 A	15JAN04 A	03NOV03 A	15JAN04 A	100	100	
B6-0417C22	Realigned Existing Watermain Connection by WSD	32 03FEB04 A	23FEB04 A	03FEB04 A	02MAY04 A	100	100	
B6-0417C1	Waterworks, L1/Ch.100-200	26 05MAR04 A	02MAY04 A	03MAY04 A	02MAY04 A	100	100	
B6-0417C2	Waterworks, D1/Ch.780-920 phase 1	28 08MAY04 A	17JUL04 A	08MAY04 A	17JUL04 A	100	100	
B6-0417C32	Waterworks, D1/Ch.780-920 phase 2	7 13NOV04 A	24NOV04 A	13NOV04 A	24NOV04 A	100	100	
Part 7: Waterworks - Section 4, Area 6								
B6-040060	Waterworks - Section 4, Area 6	497 * 08JUL03 A	24NOV04 A	08JUL03 A	24NOV04 A	100	100	
B6-041000	Trial Pits	14 09JUL03 A	12JUL03 A	08JUL03 A	12JUL03 A	100	100	
B6-0417C12	Replace Existing Watermain Connection by WSD	25 03NOV03 A	15JAN04 A	03NOV03 A	15JAN04 A	100	100	
B6-0417C22	Realigned Existing Watermain Connection by WSD	32 03FEB04 A	23FEB04 A	03FEB04 A	02MAY04 A	100	100	
B6-0417C1	Waterworks, L1/Ch.100-200	26 05MAR04 A	02MAY04 A	03MAY04 A	02MAY04 A	100	100	
B6-0417C2	Waterworks, D1/Ch.780-920 phase 1	28 08MAY04 A	17JUL04 A	08MAY04 A	17JUL04 A	100	100	
B6-0417C32	Waterworks, D1/Ch.780-920 phase 2	7 13NOV04 A	24NOV04 A	13NOV04 A	24NOV04 A	100	100	

Start date	Finish date	Progress Bar	Contract No.	Approved
27AUG02	28SEB05	■ Early bar	No.9 Revision G	WL
01DEC01	01DEC01	■ Critical bar	No.10 Revision H	WL
Run date	Run date	■ Summary bar	No.11 Revision I	WL
Page number	Page number	● Start milestone point	No.12 Revision J	WL
Number/Version	Number/Version	● Finish milestone point	REvised WORKS PROGRAMME I	WL
Comments	Comments	Comments	Comments	Comments

Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Percent Complete
BS-120350	Excavation & Stripping	24	07 JUN 04 A	24A...J4 A	07 JUN 04 A	24AUG04 A	100	Excavation & Stripping
BS-120400	Construction of base slab	10	25AUG04 A	14SEP04 A	25AUG04 A	14SEP04 A	100	1 Basalab Waterproofing
BS-120410	Basalab Waterproofer	41	14SEP04 A	16SEP04 A	14SEP04 A	16SEP04 A	100	1 Basalab waterproofing
BS-120500	Screen rm. const to GL (Wall, Slabs & Beams)	8	15SEP04 A	20SEP04 A	15SEP04 A	20SEP04 A	100	1 Backfilling & removal of floor layer slnt
BS-120510	Backfilling and removal of lowest layer slnt	3	20SEP04 A	22SEP04 A	20SEP04 A	22SEP04 A	100	1 Backfilling & removal of floor layer slnt
BS-120530	Screen rm. const to GL (Wall, Slabs & Beams) continue	22	20SEP04 A	22OCT04 A	20SEP04 A	22OCT04 A	100	2 Screen rm. const to GL (Wall, Slabs & Beams) continue
BS-120550	Other walls construction up to -2.0 mPD	17	23SEP04 A	08OCT04 A	08OCT04 A	08OCT04 A	100	2 Other walls construction up to -2.0 mPD
BS-120570	Other wall up to Grid Lev.(Walls, Beams & Slabs)	9	09OCT04 A	21OCT04 A	09OCT04 A	21OCT04 A	100	2 Other wall up to Grid Lev.(Walls, Beams & Slabs)
BS-120580	Continue Screen room to Roof level	15	23OCT04 A	11NOV04 A	23OCT04 A	11NOV04 A	100	2 Continue Screen room to Roof level
BS-120600	Construct remaining Walls, Cols.,Beams&RoofSlab	15	25OCT04 A	11NOV04 A	25OCT04 A	11NOV04 A	100	2 Construct remaining Walls, Cols.,Beams&RoofSlab
BS-120650	Waterproofing of Walls & Beam,Slab soffit	4	25OCT04 A	30NOV04 A	25OCT04 A	30NOV04 A	100	2 Waterproofing of Walls & Beam,Slab soffit
BS-120670	Scaffolding removal after 7dayscuring(GroundtoRoof)	7	17NOV04 A	28NOV04 A	17NOV04 A	28NOV04 A	100	2 Scaffolding removal after 7dayscuring(GroundtoRoof)
BS-120760	Preliminary Testing and Leakage Repair Works	25	02DEC04 A	25DEC04	02DEC04 A	25DEC04	5	2 Preliminary Testing and Leakage Repair Works
BS-120770	Watertightness Test for Group A	13	20DEC04	01JAN05	20DEC04	01JAN05	0	2 Watertightness Test for Group A
BS-120770	Watertightness Test for Group B	13	02JAN05	14JAN05	02JAN05	14JAN05	0	2 Watertightness Test for Group B
BS-120770	Steel Removal & Backfilling around Dry Well	42	13DEC04 A	02NOV04 A	13DEC04 A	02NOV04 A	14d	2 Steel Removal & Backfilling around Dry Well
BS-120770	Scaffolding Erection for new Wall @ GL-4-5/E	2	28DEC04	28DEC04	28DEC04	28DEC04	0	2 Scaffolding Erection for new Wall @ GL-4-5/E
BS-121010	New Wall Construction @ GL-4-5/E	8	30DEC04	06JAN05	30DEC04	06JAN05	0	2 New Wall Construction @ GL-4-5/E
BS-121120	Scaffolding Removal @ Switch Room Area	2	13JAN05	14JAN05	13JAN05	14JAN05	0	2 Scaffolding Removal @ Switch Room Area
BS-121030	Scaffolding Removal @ Switch Room Area	6	15JAN05	20JAN05	15JAN05	20JAN05	0	2 Scaffolding Removal @ Switch Room Area
BS-121040	Sheetpile Extraction @ Switch Room Area	20	20JAN05	15FEB05	20JAN05	15FEB05	0	2 Sheetpile Extraction @ Switch Room Area
BS-120820	Inspection Gallery & Switchroom construction	25	28NOV04 A	28NOV04 A	28NOV04 A	28NOV04 A	0	2 Inspection Gallery & Switchroom construction
BS-120770	Staircase & Platform Construction @ Dry Well	7	02JAN05	08JAN05	02JAN05	08JAN05	0	2 Staircase & Platform Construction @ Dry Well
BS-120550	Buffer wall & Platform Construction @ Wet Well A	5	15JAN05	21JAN05	15JAN05	21JAN05	0	2 Buffer wall & Platform Construction @ Wet Well A
BS-120780	Construct internal wall @ Screen Room A	7	15JAN05	21JAN05	15JAN05	21JAN05	0	2 Construct internal wall @ Screen Room A
BS-120580	Buffer Wall & Platform Construction @ Wet Well B	5	15JAN05	19JAN05	15JAN05	19JAN05	0	2 Buffer Wall & Platform Construction @ Wet Well B
BS-120790	Construct Internal Wall @ Screen Room B	5	15JAN05	19JAN05	15JAN05	19JAN05	0	2 Construct Internal Wall @ Screen Room B
BS-120890	Inlet Chamber Construction	25	27NOV04 A	22DEC04	27NOV04 A	22DEC04	0	2 Inlet Chamber Construction
BS-120700	Backfilling works after Watertightness Test	20	02JAN05	21JAN05	02JAN05	21JAN05	0	2 Backfilling works after Watertightness Test
BS-120730	Sheetpile Extraction	15	22JAN05	05FEB05	22JAN05	05FEB05	0	2 Sheetpile Extraction
BS-120740	Expected DSD Inspection Building Works	0	27JAN05	01MAY05	27JAN05	01MAY05	87d	2 Expected DSD Inspection Building Works
BS-120810	Backfilling Works around PS1 to Ground Level	15	13FEB05	27FEB05	13FEB05	27FEB05	0	2 Backfilling Works around PS1 to Ground Level
BS-120910	RemainingDrainageWorks around PS1(refer to Sec-5)	0	13FEB05	01MAY05	13FEB05	01MAY05	77d	2 RemainingDrainageWorks around PS1(refer to Sec-5)
BS-121050	Inlet Chamber connection to PS1	7	16FEB05	22FEB05	16FEB05	22FEB05	0	2 Inlet Chamber connection to PS1
BS-120930	Rising main Chamber Construction	15	28FEB05	14MAR05	01APR05	15APR05	32d	2 Rising main Chamber Construction
BS-120930	Construct Boundary Wall	15	11APR05	25APR05	16APR05	30APR05	5d	2 Construct Boundary Wall
Phase 2: FINISHING WORKS								
BS-120630	Roof Finishing	30	01DEC04 A	27DEC04	01DEC04 A	26JAN05	30d	2 Roof Finishing
BS-120630	Ceiling Finishing & Painting	11	02DEC04 A	12DEC04 *	02DEC04 A	19DEC04	7d	2 Ceiling Finishing & Painting
BS-121000	Completion of Pre-Workson Windows/Doors/Revisions	0	13DEC04	19DEC04	13DEC04	19DEC04	0	2 Completion of Pre-Workson Windows/Doors/Revisions
BS-120830	Wall Finishing	7	13DEC04	20DEC04	13DEC04	20DEC04	0	2 Wall Finishing
BS-120940	Wall Painting	3	20DEC04	22DEC04	20DEC04	22DEC04	0	2 Wall Painting
BS-120950	Platform Removal @ Loading Bay	6	23DEC04	27DEC04	23DEC04	27DEC04	0	2 Platform Removal @ Loading Bay
BS-120950	Boosterm/Toliet(Brickwall+Plasticring+Tie+Paint)	14	28DEC04	10JAN05	08JAN05	16JAN05	6d	2 Boosterm/Toliet(Brickwall+Plasticring+Tie+Paint)
BS-120960	Flooring of New Wall @ GL-4-5/E	6	07JAN05	12JAN05	07JAN05	12JAN05	0	2 Flooring of New Wall @ GL-4-5/E
BS-120630	Furnishing Works for Insp.gallery & Switchroom	12	16FEB05	27FEB05	18FEB05	27FEB05	0	2 Furnishing Works for Insp.gallery & Switchroom
BS-120830	Newly added Wall w/cabinet	30	13FEB05	14MAR05	01APR05	30APR05	47d	2 Newly added Wall w/cabinet
BS-120840	External Finishing 3 Works	20	28DEC04	16JAN05	16JAN05	28JAN05	24d	2 External Finishing 3 Works
BS-120940	Pipe Trench Construction @ Dry Well	16	21DEC04	04JAN05	14JAN05	28JAN05	0	2 Pipe Trench Construction @ Dry Well
BS-120840	Bamboo platform & Finishing works @ Dry Well	21	05JAN05	25JAN05	25JAN05	25FEB05	24d	2 Bamboo platform & Finishing works @ Dry Well
BS-120840	Massconcrete/Platform construction @ Screen RoomA	5	07JAN05	19JAN05	19JAN05	23MAR05	6d	2 Massconcrete/Platform construction @ Screen RoomA
BS-120850	Benching stair @ Wet Well A & finishing	21	09JAN05	10JAN05	24FEB05	25FEB05	39d	2 Benching stair @ Wet Well A & finishing
Phase 3: APPROVALS								
Start date	27AUG02	Early bar	07JUN03	No.9 Revision G	07JUN03	No.9 Revision G	W	Approved
Due date	05SEP02	Progress bar	07JUL04	No.10 Revision G1	07JUL04	No.10 Revision G1	W	
Due date	05OCT02	Critical bar	04OCT04	No.11 Revision H	04OCT04	No.11 Revision H	W	
Due date	05NOV02	Summary bar	17DEC04	No.12 Revision I	17DEC04	No.12 Revision I	W	
Number	01	Finish milestone point	01	Finish milestone point	01	Finish milestone point	W	
System	© Primavera Systems, Inc.	Finish	01	Finish	01	Finish	W	

Contract No. TP35/02
Remaining Engineering Infrastructure Works
for Pak Shek Kok Development Package 1
REVISED WORKS PROGRAMME 1

Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Percent Complete
BS-120860	Massconcrete/Platform construction @ Screen RoomB	5 20JAN05	18MARCH05	22MARCH05	26FEB05	27FEB05	49d	0
BS-120880	Benching stair @ Wet wall B & finishing	2 22JAN05					28d	0
BS-124020	Power Supply Application	0 11DEC03 A					100	0
BS-124030	Link Application	0 07JUL04 A					100	0
BS-125020	Water Certification Ww046 Part I & II	0 20SEP04 A					100	0
BS-125050	FS-314 Submission	0 20SEP04 A					100	0
BS-125090	Expected availability of power supply	0 24DEC04					94d	0
BS-125080	Expected availability of fresh&salt water supply	0 31DEC04					0	0
BS-125160	VAC submission	0 27JAN05					0	0
BS-127220	CLP's Inspection for Meter Kiosk	0 28FEB05					0	0
BS-127230	CLP's Final Inspection of Meter Kiosk	0 07MAR05					14d	0
BS-125100	Water Certification Ww046 Part IV	0 07MAR05					22d	0
BS-124010	Electrical WR1 Submission	0 08MAR05					0	0
BS-125120	CLP Energization	0 21MAR05					11d	0
BS-125030	Expected FSD Inspection	0 24MAR05					22d	0
BS-125040	Expected DSD Inspection for Sewage Pump & VSD	0 01APR05					0	0
BS-125130	Expected DSD Inspection for Penstock	0 02APR05					23d	0
BS-125180	WSD's Final Inspection	0 02APR05					0	0
BS-125110	Expected DSD Inspection for Mach. Screen Syst.	0 04APR05					21d	0
BS-125150	Expected DSD Inspection for Other Works	0 04APR05					21d	0
BS-125060	FS-501 Submission	0 07APR05					0	0
BS-125120	Expected DSD Inspection for Valves & Pipeworks	0 18APR05					9d	0
BS-125140	Expected DSD Inspection for Deodorizer System	0 19APR05					8d	0
BS-125070	Expected FSD Inspection	0 20APR05					0	0
BS-125170	FSD Final Inspection	0 28APR05					0	0
BS-126010	Survey of Civil As-built	0 27NOV04 A	07DEC04	27NOV04 A	30APR05	137d	10	0
BS-123000	Pump Station 1 - E&M Works	90 * 24JAN05	30APR05	24JAN05	30APR05	0	0	0
BS-126030	Cable Tray Installation	30 24JAN05	01MAR05	24JAN05	01MAR05	0	0	0
BS-124040	Sewage Pumpset and VSD	20 28JAN05	21FEB05	27MARCH05	15APR05	53d	0	0
BS-124070	Valves and Pipeworks	40 26JAN05	12MARCH05	28FEB05	14APR05	27d	0	0
BS-124050	Mechanical Screen System	20 27JAN05	15FEB05	24MARCH05	12APR05	56d	0	0
BS-124060	Penstock	33 27JAN05	05MARCH05	14MARCH05	12APR05	31d	0	0
BS-124080	Deodorizer System	20 27JAN05	16FEB05	19MARCH05	12APR05	44d	0	0
BS-126090	Lifting Appliance	14 27JAN05	11FEB05	07APR05	22APR05	59d	0	0
BS-124110	PCCCW cable laying & wiring works	15 27JAN05	17FEB05	10APR05	24APR05	66d	0	0
BS-126020	Conduit & Trunking	40 27JAN05	14MARCH05	27JAN05	14MARCH05	0	0	0
BS-126040	Lightning & Earthing Installation	30 27JAN05	04MARCH05	26MARCH05	24APR05	51d	0	0
BS-126060	SCADA & PLC Works	35 27JAN05	09MARCH05	18MARCH05	18APR05	40d	0	0
BS-126070	AVAC	30 27JAN05	04MARCH05	27JAN05	04MARCH05	0	0	0
BS-126080	P & D Installation	40 27JAN05	14MARCH05	20MARCH05	10APR05	27d	0	0
BS-124100	LV Switchboard and Control Panels	30 25FEB05	02APR05	02APR05	02APR05	0	0	0
BS-126050	Cabling works	20 27FEB05	18MARCH05	27APR05	18MARCH05	0	0	0
BS-127240	CLP's Install. Work for Meter Kiosk and Energization	14 07MAR05	20MAR05	03APR05	14d	0	0	0
BS-126080	F.S. Services Installation	30 08MAR05	06APR05	08MARCH05	06APR05	0	0	0
BS-126120	Lighting and Electrical Services	20 15MARCH05	03APR05	04APR05	23APR05	20d	0	0
BS-127210	Cleansing Waterpump Hydraulic & Functional Test	6 15MARCH05	20MARCH05	22APR05	27APR05	38d	0	0
BS-126100	Cable Terminations to Major Equipments	10 18MARCH05	28MARCH05	19MARCH05	03APR05	0	0	0
BS-126110	Cable Terminations to Other Equipments	15 28MARCH05	12APR05	25MARCH05	12APR05	0	0	0
BS-127000	Functional Testing	57 * 05MAR05	30APR05	04APR05	30APR05	0	0	0
BS-127050	Lighting & Earthing functional testing	3 05MAR05	07MAR05	25APR05	27APR05	51d	0	0
BS-127140	Ventilation Fan Functional Testing	7 05MAR05	11MAR05	21APR05	27APR05	47d	0	0
BS-127080	Penstock Functional Testing	4 28MARCH05	01APR05	15APR05	18APR05	17d	0	0
BS-127120	Sewage Pumpset & VSD testing	3 28MARCH05	31MAR05	16APR05	18APR05	18d	0	0
BS-127130	Mechanical Screen System functional testing	6 29MARCH05	03APR05	13APR05	18APR05	15d	0	0

Start date	27/06/02	■ Early bar	■ Massconcrete/Platform construction @Screen RoomB	Date	01/11/04	Contract No. TP35/02
End date	28/06/02	■ Progress bar	■ Bench stair @ Wet wall B & finishing	07/11/04	Remaining Engineering Infrastructure Works	
Revised date	02/07/02	■ Critical bar	■ Water Certification Ww046 Part I & II	04/11/04	No.10 Revision G1	
Revised date	18/07/02	■ Summary bar	■ FS-314 Submission	04/11/04	No.11 Revision H	
Revised date	17/08/02	■ Start milestone point	■ Expected availability of power supply	17/11/04	No.12 Revision I	
Number/Version	TP35/02/WP01	Finish milestone point	■ Expected availability of fresh&salt water supply	WAJ	REvised WORKS PROGRAMME I	
Comments	CLP's Final Inspection of Meter Kiosk	■ VAC submission	■ Expected availability of power supply	WL	REVISED WORKS PROGRAMME I	
Comments	Water Certification Ww046 Part IV	■ Water Certification Ww046 Part I & II	■ Expected availability of power supply	WL	REVISED WORKS PROGRAMME I	
Comments	FS-501 Submission	■ FS-501 Submission	■ FS-501 Submission	WL	REVISED WORKS PROGRAMME I	
Comments	Expected availability of fresh&salt water supply	■ Expected availability of fresh&salt water supply	■ Expected availability of fresh&salt water supply	WL	REVISED WORKS PROGRAMME I	
Comments	Expected DSD Inspection for Sewage Pump & VSD	■ Expected DSD Inspection for Sewage Pump & VSD	■ Expected DSD Inspection for Sewage Pump & VSD	WL	REVISED WORKS PROGRAMME I	
Comments	Expected DSD Inspection for Valves & Pipeworks	■ Expected DSD Inspection for Valves & Pipeworks	■ Expected DSD Inspection for Valves & Pipeworks	WL	REVISED WORKS PROGRAMME I	
Comments	Expected DSD Inspection for Penstock	■ Expected DSD Inspection for Penstock	■ Expected DSD Inspection for Penstock	WL	REVISED WORKS PROGRAMME I	
Comments	Expected DSD Inspection for Other Works	■ Expected DSD Inspection for Other Works	■ Expected DSD Inspection for Other Works	WL	REVISED WORKS PROGRAMME I	
Comments	WSD's Final Inspection	■ WSD's Final Inspection	■ WSD's Final Inspection	WL	REVISED WORKS PROGRAMME I	
Comments	Expected FSD Inspection	■ Expected FSD Inspection	■ Expected FSD Inspection	WL	REVISED WORKS PROGRAMME I	
Comments	FSD Final Inspection	■ FSD Final Inspection	■ FSD Final Inspection	WL	REVISED WORKS PROGRAMME I	
Comments	Survey of Civil As-built	■ Survey of Civil As-built	■ Survey of Civil As-built	WL	REVISED WORKS PROGRAMME I	
Comments	Pump Station 1 - E&M Works	■ Pump Station 1 - E&M Works	■ Pump Station 1 - E&M Works	WL	REVISED WORKS PROGRAMME I	
Comments	Cable Tray Installation	■ Cable Tray Installation	■ Cable Tray Installation	WL	REVISED WORKS PROGRAMME I	
Comments	Sewage Pumpset and VSD	■ Sewage Pumpset and VSD	■ Sewage Pumpset and VSD	WL	REVISED WORKS PROGRAMME I	
Comments	Valves and Pipeworks	■ Valves and Pipeworks	■ Valves and Pipeworks	WL	REVISED WORKS PROGRAMME I	
Comments	Mechanical Screen System	■ Mechanical Screen System	■ Mechanical Screen System	WL	REVISED WORKS PROGRAMME I	
Comments	Deodorizer System	■ Deodorizer System	■ Deodorizer System	WL	REVISED WORKS PROGRAMME I	
Comments	Lifting Appliance	■ Lifting Appliance	■ Lifting Appliance	WL	REVISED WORKS PROGRAMME I	
Comments	PCCCW cable laying & wiring works	■ PCCCW cable laying & wiring works	■ PCCCW cable laying & wiring works	WL	REVISED WORKS PROGRAMME I	
Comments	Conduit & Trunking	■ Conduit & Trunking	■ Conduit & Trunking	WL	REVISED WORKS PROGRAMME I	
Comments	Lightning & Earthing Installation	■ Lightning & Earthing Installation	■ Lightning & Earthing Installation	WL	REVISED WORKS PROGRAMME I	
Comments	SCADA & PLC Works	■ SCADA & PLC Works	■ SCADA & PLC Works	WL	REVISED WORKS PROGRAMME I	
Comments	AVAC	■ AVAC	■ AVAC	WL	REVISED WORKS PROGRAMME I	
Comments	P & D Installation	■ P & D Installation	■ P & D Installation	WL	REVISED WORKS PROGRAMME I	
Comments	LV Switchboard and Control Panels	■ LV Switchboard and Control Panels	■ LV Switchboard and Control Panels	WL	REVISED WORKS PROGRAMME I	
Comments	Cabling works	■ Cabling works	■ Cabling works	WL	REVISED WORKS PROGRAMME I	
Comments	CLP's Install. Work for Meter Kiosk and Energization	■ CLP's Install. Work for Meter Kiosk and Energization	■ CLP's Install. Work for Meter Kiosk and Energization	WL	REVISED WORKS PROGRAMME I	
Comments	F.S. Services Installation	■ F.S. Services Installation	■ F.S. Services Installation	WL	REVISED WORKS PROGRAMME I	
Comments	Functional Testing	■ Functional Testing	■ Functional Testing	WL	REVISED WORKS PROGRAMME I	
Comments	Cleansing Waterpump Hydraulic & Functional Test	■ Cleansing Waterpump Hydraulic & Functional Test	■ Cleansing Waterpump Hydraulic & Functional Test	WL	REVISED WORKS PROGRAMME I	
Comments	Cable Terminations to Major Equipments	■ Cable Terminations to Major Equipments	■ Cable Terminations to Major Equipments	WL	REVISED WORKS PROGRAMME I	
Comments	Cable Terminations to Other Equipments	■ Cable Terminations to Other Equipments	■ Cable Terminations to Other Equipments	WL	REVISED WORKS PROGRAMME I	
Comments	Functional Testing	■ Functional Testing	■ Functional Testing	WL	REVISED WORKS PROGRAMME I	
Comments	Lighting & Earthing functional testing	■ Lighting & Earthing functional testing	■ Lighting & Earthing functional testing	WL	REVISED WORKS PROGRAMME I	
Comments	Ventilation Fan Functional Testing	■ Ventilation Fan Functional Testing	■ Ventilation Fan Functional Testing	WL	REVISED WORKS PROGRAMME I	
Comments	Penstock Functional Testing	■ Penstock Functional Testing	■ Penstock Functional Testing	WL	REVISED WORKS PROGRAMME I	
Comments	Sewage Pumpset & VSD testing	■ Sewage Pumpset & VSD testing	■ Sewage Pumpset & VSD testing	WL	REVISED WORKS PROGRAMME I	
Comments	Mechanical Screen System functional testing	■ Mechanical Screen System functional testing	■ Mechanical Screen System functional testing	WL	REVISED WORKS PROGRAMME I	

Act ID	Description	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Percent Complete
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BS-127150	Fenstcock Leakage Rate Test	6 02APR05	07JUN05	22APR05	21APR05	20d	0	
BS-127110	LV Switchboard and Panels Testing	15 03APR05	17APR05	04APR05	18APR05	1d	0	
BS-127180	MICB board functional Test	3 04APR05	06APR05	25APR05	27APR05	21d	0	
BS-127200	Lighting Functional & Intensity Test	4 04APR05	07APR05	24APR05	27APR05	20d	0	
BS-127040	RS functional testing	3 07APR05	08APR05	25APR05	27APR05	18d	0	
BS-127190	FRCD/ELCD functional Test	2 07APR05	08APR05	28APR05	29APR05	21d	0	
BS-127070	Valves & Pipeworks Testing	4 13APR05	16APR05	15APR05	18APR05	2d	0	
BS-127080	Lifting Appliance testing	5 13APR05	15APR05	23APR05	27APR05	10d	0	
BS-127100	Deodorizer System functional Testing	6 13APR05	16APR05	13APR05	18APR05	0	0	
BS-127080	SCADA and PLC Works Functional Testing	6 19APR05	24APR05	19APR05	24APR05	0	0	
BS-127160	Deodorizing Unit Air Duct Tightness Test	3 19APR05	21APR05	25APR05	27APR05	8d	0	
BS-127170	SCADA & PLC Mapping Test	3 25APR05	27APR05	25APR05	27APR05	0	0	
BS-127010	Commissioning Test	3 28APR05	30APR05	28APR05	30APR05	0	0	
Section 12- Works of Sewage Pumping Station No.1								
JT-030651	Gas Mains, L2/Ch.100-200	15 28FEB05	14MARS05	05MARS05	19MARS05	5d	0	
JT-030011A	PCCW, L2/Ch.100-200	15 14MARS05	20MARS05	19MARS05	02APR05	5d	0	
JT-030011B	HGC-New World, L2/Ch.100-200	15 16MARS05	30MARS05	21MARS05	04APR05	5d	0	
JT-030011C	CATV, L2/Ch.100-200	7 21MARS05	27MARS05	26MARS05	01APR05	5d	0	
BA-031741	IP/pe Pipe, L2/Ch.100-200 Gully works east bound	7 28FEB05	08MARS05	13MARS05	19MARS05	13d	0	
BS-030801M1	Deposition & Compaction, L2/Ch.100-200	7 07MARS05	13MARS05	20MARS05	26MARS05	13d	0	
BS-0325C1	Roadworks, L2/Ch.100-200	30 09MARS05	07APR05	22MARS05	20APR05	13d	0	
BS-0326A1	Cycle track & Footpath, L2/Ch.100-200	25 22MARS05	05APR05	27MARS05	20APR05	5d	0	
BS-0328C10	Furniture & Miscellaneous @ Rd.12	10 16APR05	25APR05	21APR05	30APR05	5d	0	
BA-0328E12	Pvc pipe, At PS1 remaining (S303-S017)	15 28FEB05	11MARS05	12MARS05	23MARS05	12d	0	
BA-0328F12	Pvc pipe, At PS1 Sec. 5 part	12 28FEB05	12MARS05	24MARS05	02APR05	12d	0	
BT-0500P3	PCCW at PS1 Sec. 5 part	10 12MARS05	35 14MARS05	17APR05	19MARS05	22APR05	5d	0
BT-0500T3A	Sewer/Rising Main, At PS1 Sec. 5 part	10 20MARS05	28MARS05	01APR05	10APR05	12d	0	
BT-0535A1	Furniture & Miscellaneous at PS1 Sec. 5 part	16 30MARS05	19APR05	11APR05	25APR05	12d	0	
BT-0500T3B	HGC-New World at PS1 Sec. 5 part	8 02APR05	10APR05	08APR05	15APR05	5d	0	
BS-0541B3	Footpath, At PS1 Sec. 5 part	12 08APR05	19APR05	16APR04	27APR05	8d	0	
BS-0512A30	Deposit/ Compact, At PS1 Sec. 5 part	16 08JUN04 A	16AUG04 A	08JUN04 A	16AUG04 A	100	0	
BS-0540F3	Roadworks, At PS1 Sec. 5 part	6 08JUL04 A	10JUL04 A	08JUL04 A	10JUL04 A	100	0	
BS-0549E10	Furniture & Miscellaneous at PS1 Sec. 5 part	5 18APR05	22APR05	28APR05	30APR05	8d	0	
Section 13- Works of Sewage Pumping Station No.2								
BS-130000	Pump. Station No.2 - Filling & Structural Works	621 * 08JUL03 A	03APR05	08JUL03 A	30APR05	27d	81	
BS-130100	Ground Investigation, 4 nos.	122 08JUL03 A	28OCT03 A	08JUL03 A	29OCT03 A	100	0	
BS-130300	Sheetpiling	46 22OCT03 A	11DEC03 A	22OCT03 A	11DEC03 A	100	0	
BS-130200	Install/forced Piles 2.2nd dia, 2.3rd dia, 4m All Des.	70 11JAN04 A	28MAY04 A	11JAN04 A	28MAY04 A	100	0	
BS-130250	Pile Testing	30 01APR04 A	28APR04 A	01APR04 A	28APR04 A	100	0	
BS-130380	Ground Investigation, 1 no.	9 28APR04 A	07MAY04 A	29APR04 A	07MAY04 A	100	0	
BS-130360	Install/forced Pile, 1 no, additional	20 13MAY04 A	30MAY04 A	13MAY04 A	30MAY04 A	100	0	
BS-130390	Pile Testing Platform Preparation Works	27 31MAY04 A	05JUL04 A	31MAY04 A	05JUL04 A	100	0	
BS-130200	Mobilization for Excavation & strutting	12 31MAY04 A	07JUN04 A	07JUN04 A	07JUN04 A	100	0	
BS-130350	Excavation & Strutting	16 08JUN04 A	16AUG04 A	08JUN04 A	16AUG04 A	100	0	
BS-130370	Pile Testing 1 no. additional	6 08JUL04 A	10JUL04 A	08JUL04 A	10JUL04 A	100	0	
BS-130400	Construction and concreting of Base Slab	10 17AUG04 A	02SEP04 A	17AUG04 A	02SEP04 A	100	0	
BS-130410	Base Slab waterproofing	4 02SEP04 A	06SEP04 A	02SEP04 A	06SEP04 A	100	0	
BS-130500	Construct Walls of Screen Room	8 03SEP04 A	14SEP04 A	03SEP04 A	14SEP04 A	100	0	
BS-130430	Backfilling and removal of lower layer strut	3 03SEP04 A	12SEP04 A	03SEP04 A	12SEP04 A	100	0	
BS-130520	Other Walls Construction to +2.5mpD Level	8 03SEP04 A	24SEP04 A	03SEP04 A	24SEP04 A	100	0	
BS-130600	Wall at G.L.4 (o +2.5mpD Level)	8 03SEP04 A	11SEP04 A	03SEP04 A	11SEP04 A	100	0	
BS-130570	Complete Wall @ Grid Line 4 to G.L.	2 12SEP04 A	21SEP04 A	12SEP04 A	21SEP04 A	100	0	
BS-130590	Other Walls to G.L(Walls, Beams & Slabs)	7 12SEP04 A	20SEP04 A	12SEP04 A	20SEP04 A	100	0	
BS-130550	Waterproofing of Wall @ G.L. 4	4 15SEP04 A	17SEP04 A	15SEP04 A	17SEP04 A	100	0	
Pump. Station No.2 - Filling & Structural Works								
Start Date	27APR02	Revision G	No.9	Revision G	Date	01JUN04	Approved	
End Date	02JUN04	Revision H	No.10	Revision G	Date	07JUN04	W.A.J	
Progress %	100%	Completion	100%	Completion	Date	07JUN04	W.A.J	
Critical bar	100%	Completion	100%	Completion	Date	07JUN04	W.A.J	
Summary bar	100%	Completion	100%	Completion	Date	07JUN04	W.A.J	
Finish milestone point					Date	17DEC04	W.A.J	
Finish milestone point					Date	17DEC04	W.A.J	

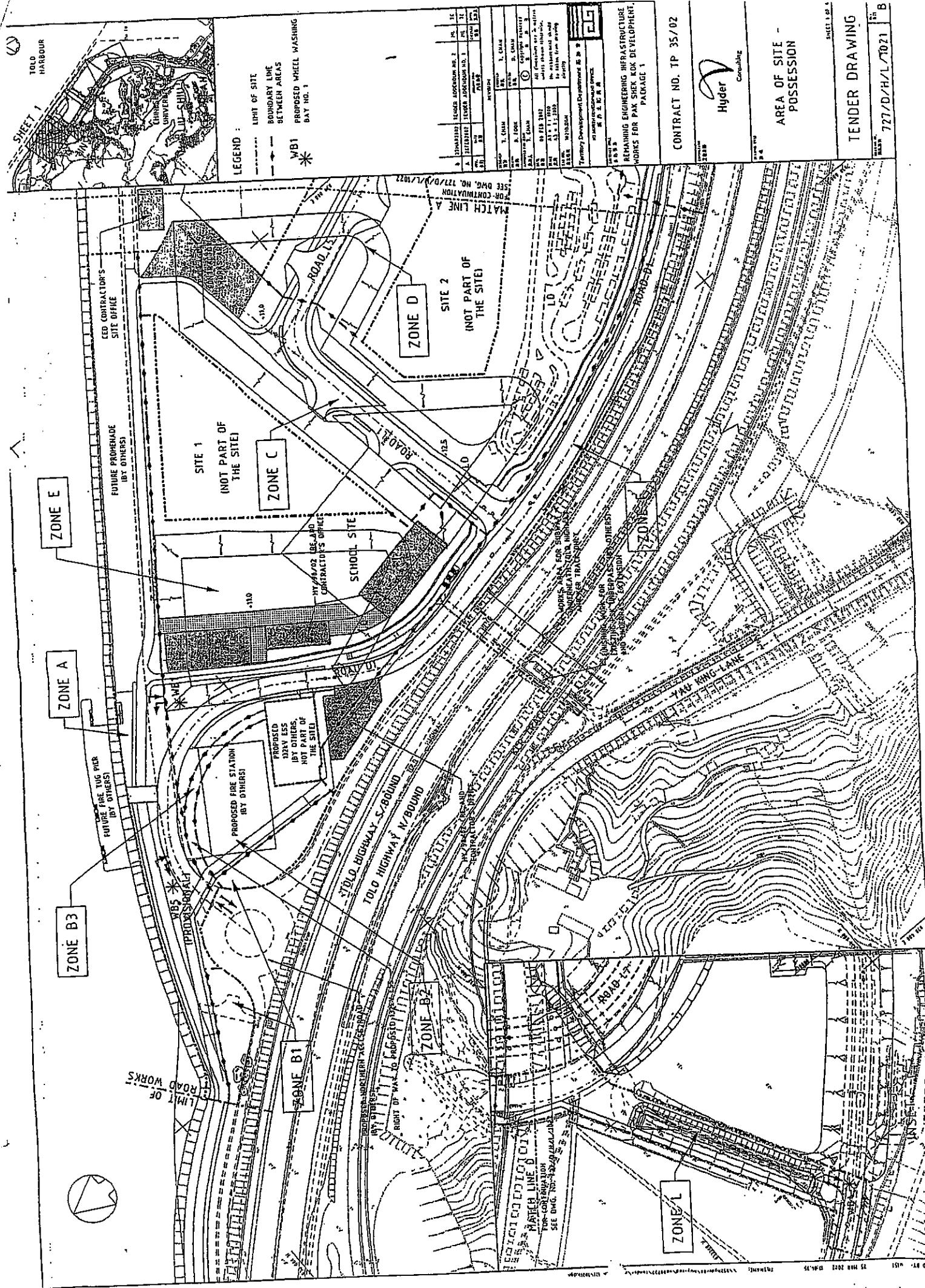
Contract No. TPA35/02
Remaining Engineering Infrastructure Works
For Pak Shek Kok Development Package 1
REVISED WORKS PROGRAMME I

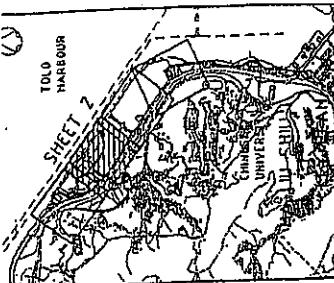


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Appendix G

Construction Site Area



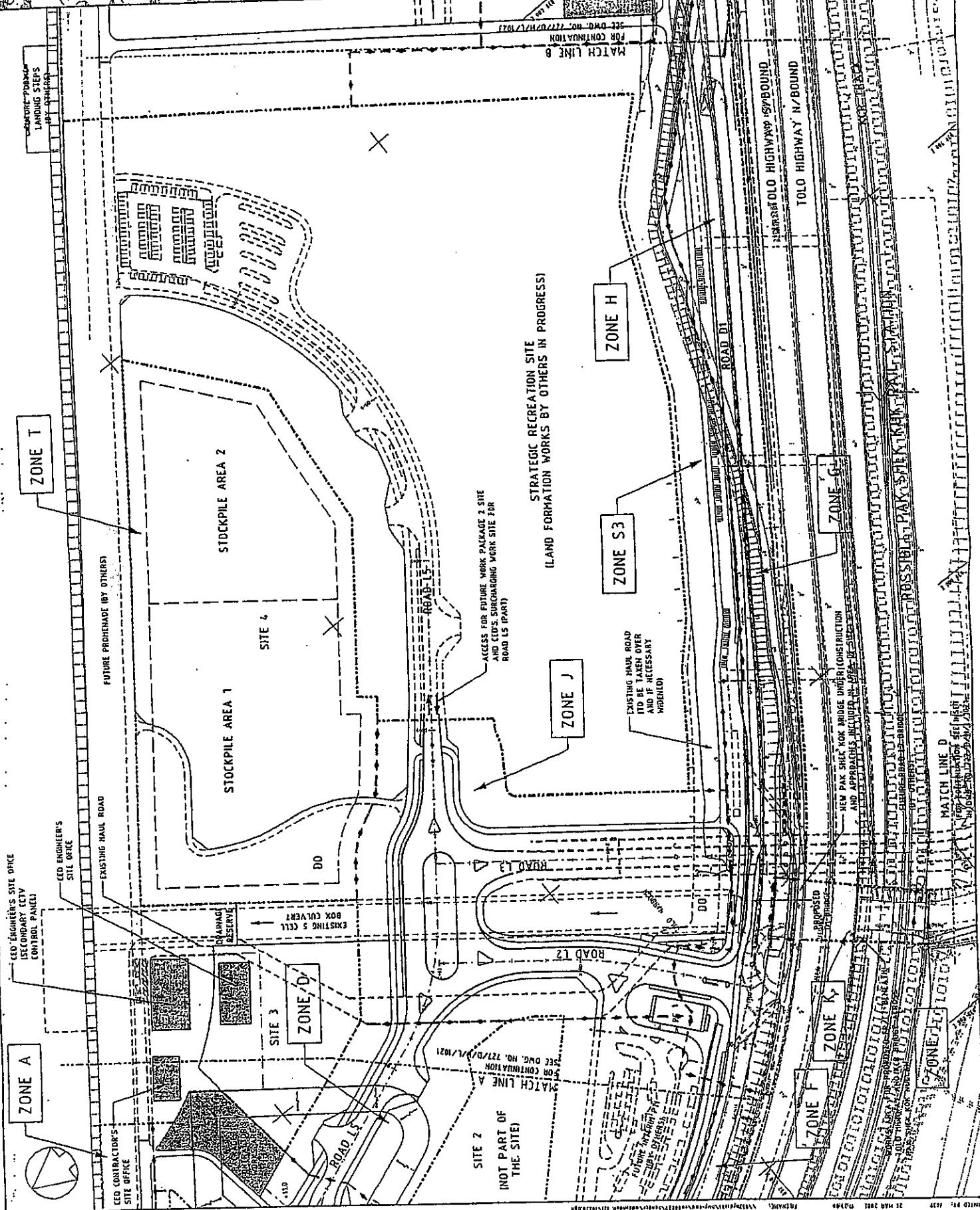


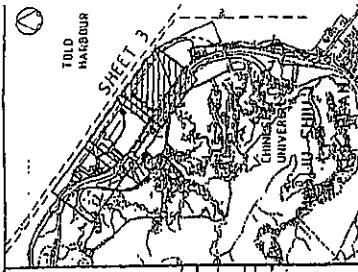
NOTES :
FOR LEGEND, SEE DRAWING NO.
222/DNC/1021.

CONTRACT NO. IP 35/92
WORKS FOR PAK SHIK XDR DEVELOPMENT
PACKAGE 1

**AREA OF SITE -
POSSESSION**

TENDER DRAWING





NOTES :
FOR LEGEND, SEE DRAWING NO.
727/D/H/L/1021.

B.	DIMENSIONS	NUMBER ADDRESSING NO. 2	IN
A.	INTERFACING	TELECOM ADDRESSING NO. 1	IN
B.	200	200	200
C.	100	100	100
D.	50	50	50
E.	50	50	50
F.	50	50	50
G.	50	50	50
H.	50	50	50
I.	50	50	50
J.	50	50	50
K.	50	50	50
L.	50	50	50
M.	50	50	50
N.	50	50	50
O.	50	50	50
P.	50	50	50
Q.	50	50	50
R.	50	50	50
S.	50	50	50
T.	50	50	50
U.	50	50	50
V.	50	50	50
W.	50	50	50
X.	50	50	50
Y.	50	50	50
Z.	50	50	50

MATCH LINE C
SEE DRAWING NO. 727/D/H/L/1024

100

100

PROPOSED BOX CULVERT C6

HAUL ROUTE OF
SCIENCE PARK
CONTRACTOR

FUTURE PHASE(4) BY OTHERS)

100

ZONE N1

ZONE R

SCIENCE PARK PHASES 2 AND 3 SITE
ISLAND FORMATION WORKS BY OTHERS IN PROGRESS)

100

ZONE M

ACCESS FOR FUTURE WORK
PACKAGE 2 SITE AND LID'S WORK
SITE FOR SURCHARGING OF ROAD
(1 PART)

EXISTING HAIR ROAD
(TO BE TAKEN OVER
AND IF NECESSARY
WIDENED)

ZONE S2

ZONE S1

ROAD DETAIL LINE

PROPOSED OUTFALL

TEMPORARY
LANDING STEPS
LID'S PROPERTY

100

100

MATCH LINE B
FOR CONTINUATION
SEE DRAWING NO. 727/D/H/L/1022

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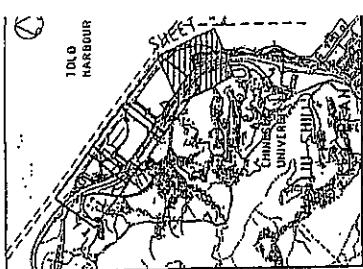
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NOTES :
FOR LEGEND, SEE DRAWING NO.
127.D/H/L/1921.

ZONE N3
(WORKS AREA FOR
CONTRACT TP 35/02
- TO BE POSSESSED
WHEN INSTRUCTED
BY THE ENGINEER)

WORKS AREA UNDER CONTRACT
TP 35/99

HAUL ROUTE OF
SCIENCE PARK
CONTRACTOR

FUTURE PROBLEMS (IF OTHERS)

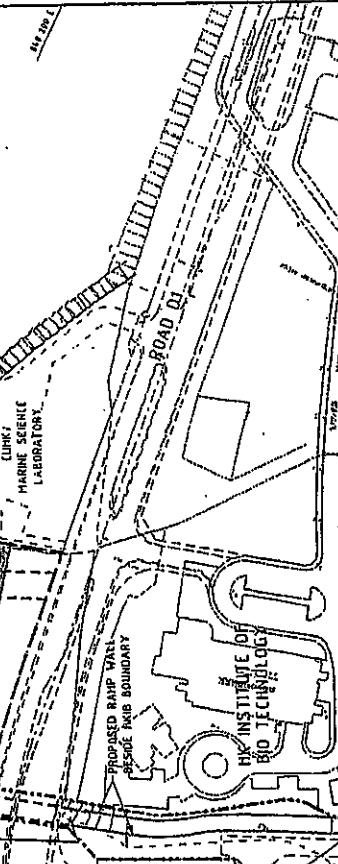
PROPOSED RAMP WALL
FOR SUBWAY

CONNECT TO SUBWAY BARREL
CONSTRUCTED UNDER
CONTRACT TP 35/19

SCIENCE PARK
PHASE 1 SITE

EXISTING ACCESS TO
SCIENCE PARK PHASE 1 SITE
CONNECT TO EXISTING
ROAD NETWORK

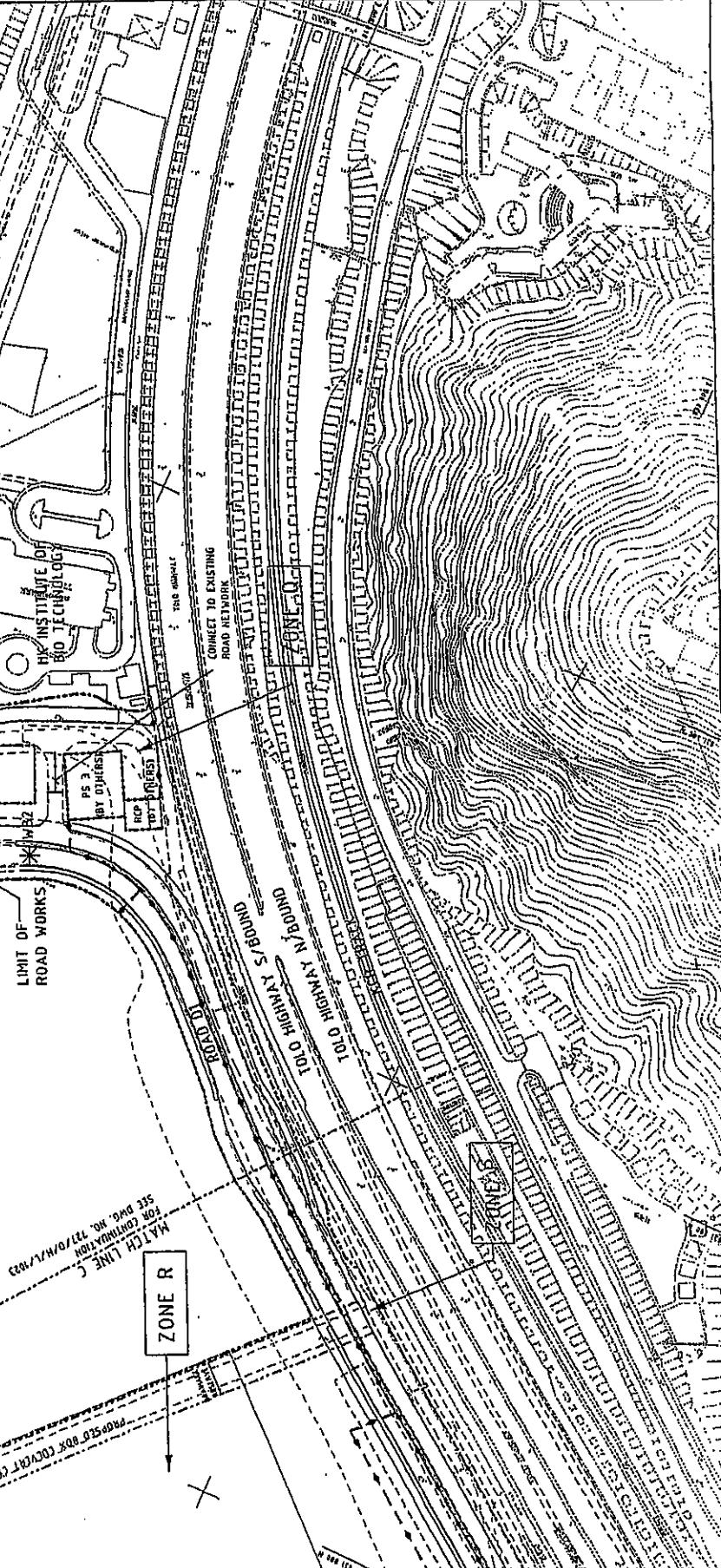
LIMIT OF
ROAD WORKS



SEE CROWN, M/C LINE C
M/C LINE S/600
PROPOSED ROAD
CONNECT TO EXISTING
ROAD NETWORK

ZONE N2

ZONE R





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Appendix H

The Summary of Implementation Status of Mitigation Measures during Weekly Site Inspections



The Summary of Implementation status of Mitigation Measures

Aspect	Mitigation Measures	Implementation Status		
		Y	N	N/A
Air	- The height from which fill materials were dropped was controlled to a practical height to minimize the fugitive dust arising from unloading.	√		
	- During transportation by truck, material was loaded to a level higher than the side and tail boards, and should be dampened or covered before transport.	√		
	- All stockpile of aggregate or spoil were enclosed or covered and water applied in dry or windy condition.	√		
	- Effective water sprays were used on the site at potential dust emission sources such as unpaved area.	√		
	- The haul road was either paved or regular watering.	√		
	- Vehicle speed was limited to 20 km/hr.	√		
	- Adequately designed wheel washing facilities including a high pressure water jet were provided at all main entrance of work site.	√		
Noise	- Only well maintained plant was operated on-site and plant should be serviced regularly during the construction works.	√		
	- Machines and plants that were in intermittent use were shut down between work periods or throttled down to a minimum.	√		
	- Plant known to emit noise strongly in one direction, where possible, were orientated so that the noise is directed away from nearby NSRs.	√		
	- Silencers or mufflers on construction equipment were considered.	√		
Water	- Recirculation system was used to reduce SS from the vehicle wheel washing facility.	√		
	- Fuel tanks on site were housed within drainable trays and regularly drained of rainwater.	√		
	- Washing area and road exiting were paved from washing facility.	√		
	- Permanent / Temporary ditches were provided to facilities run-off discharge into the appropriate watercourses, via a sediment trap/sediment retention basin, prior to discharge.	√		
	- Sedimentation tanks with adequate capacity to settle the sand and silt out were provided.	√		
	- Sedimentation tanks were regularly cleaned and maintained in order to control their efficiency and to prevent the recycled water overflow to drains.	√		
	- All drainage facilities were adequate for the controlled release of storm flows.	√		
	- Exposed soil areas were minimized to reduce the potential for increased siltation and contamination of run-off.	√		
	- All chemical stores were contained (bunded) such that spills are not slowed to gain access to water bodies.	√		
	- Chemical toilets were provided to handle the sewage from the on-site construction workforce.	√		

The Summary of Implementation status of Mitigation Measures

Aspect	Mitigation Measures	Implementation Status		
		Y	N	N/A
Waste	- Wastes were handle and store in a manner, which ensure that they were held securely without loss or leakage, thereby minimizing the potential for pollution.	√		
	- Authorized or licensed waste hauliers were use to collect the specific category of waste.	√		
	- Wastes were removed in a timely manner.	√		
	- The waste storage areas were maintained and cleaned regularly.	√		
	- Windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed containers were minimized.	√		
	- Waste disposal permits were obtained form the appropriate authorities.	√		
	- Wastes were disposed at licensed sites.	√		
	- Procedures such as a ticketing system were developed to facilitate tracing of loads, particularly for chemical waste, and to ensure that illegal disposal of wastes does not occur.	√		
Chemical Waste	- Under the Waste Disposal (Chemical Waste) (General) Regulation, chemical waste producers were registered with EPD.	√		
	- Chemical wastes were transported by a registered chemical waste collector to a facility licensed to receive chemical waste.	√		
	- Containers used for the storage of chemical wastes were:			
	1.Suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;	√		
	2.Enclosed on at least 3 sides;	√		
	3.Have an impermeable floor and bunding, of capacity to accommodate 120% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest;	√		
	4.-Have adequate ventilation;	√		
	5.Covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary);	√		
	6.Arranged so that incompatible materials are adequately separated.	√		

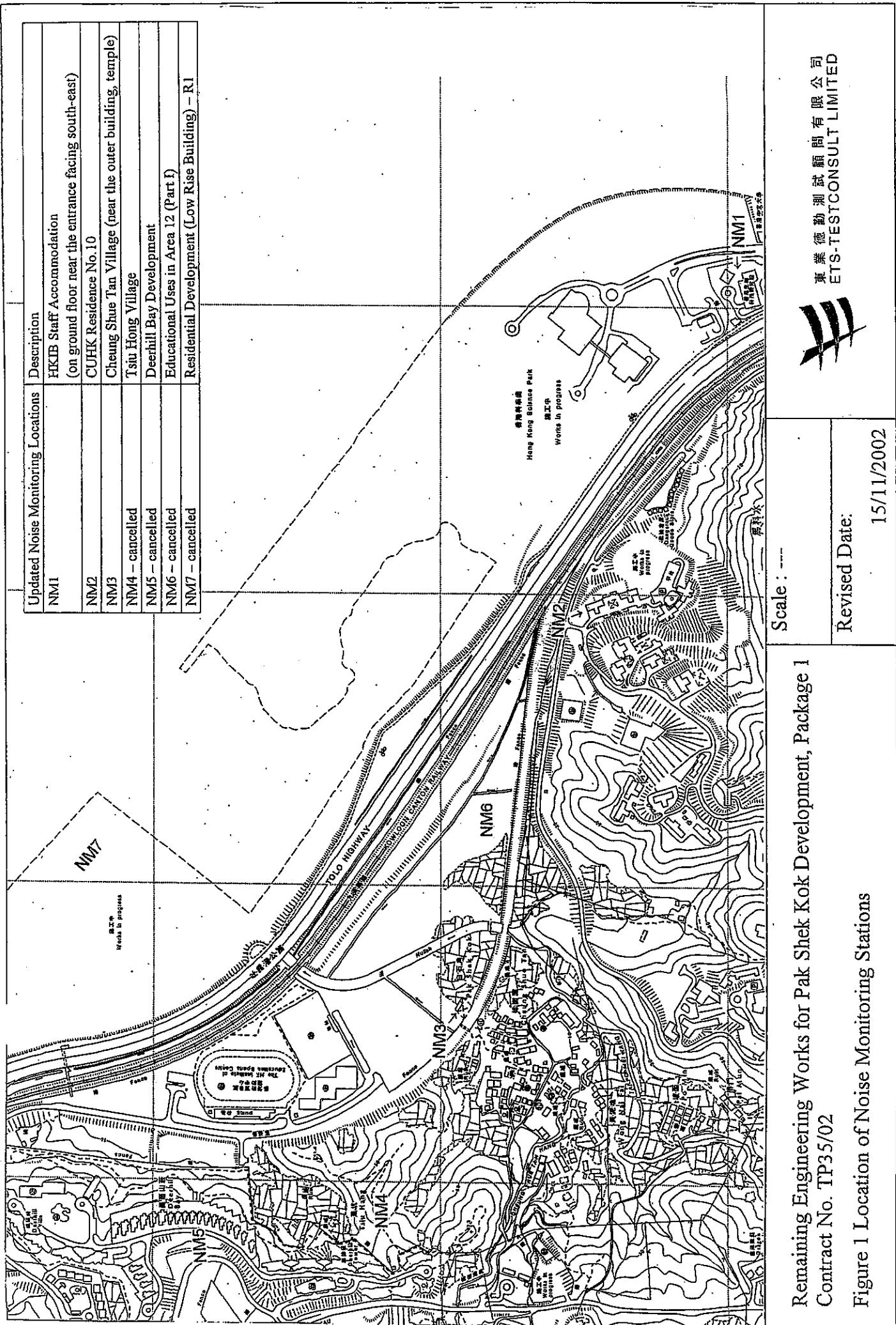
Appendix I
IEC and RE Comments on Monthly EM&A Report
—
March 2005

IEC and RE Comments on Monthly Environmental Monitoring and Audit Report – March 2005

Item No.	Document Reference	Comment	ET Response
---	---	No RE / IEC Comments on Monthly Environmental Monitoring and Audit Report – March 2005 were received.	No ET responses were required

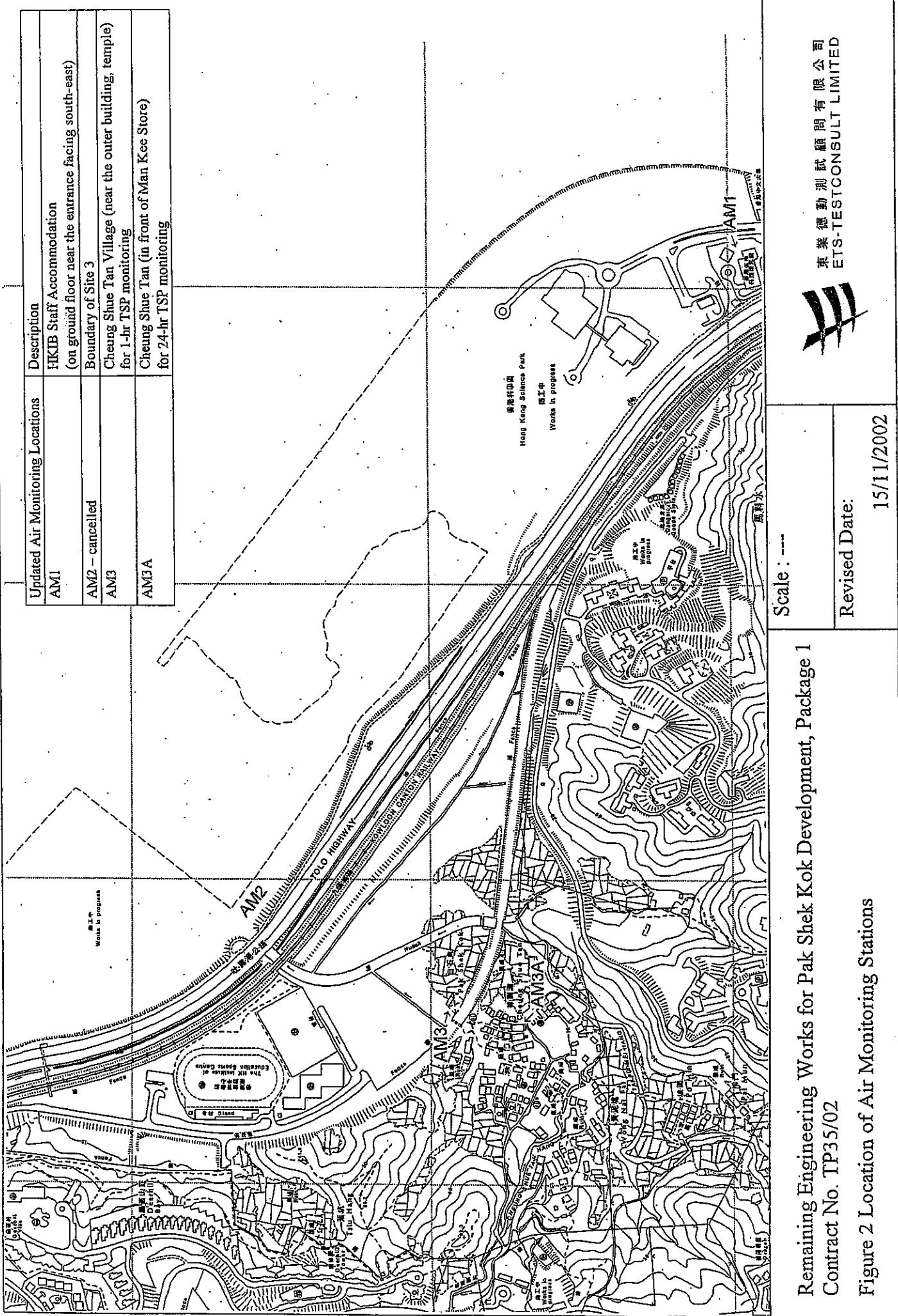


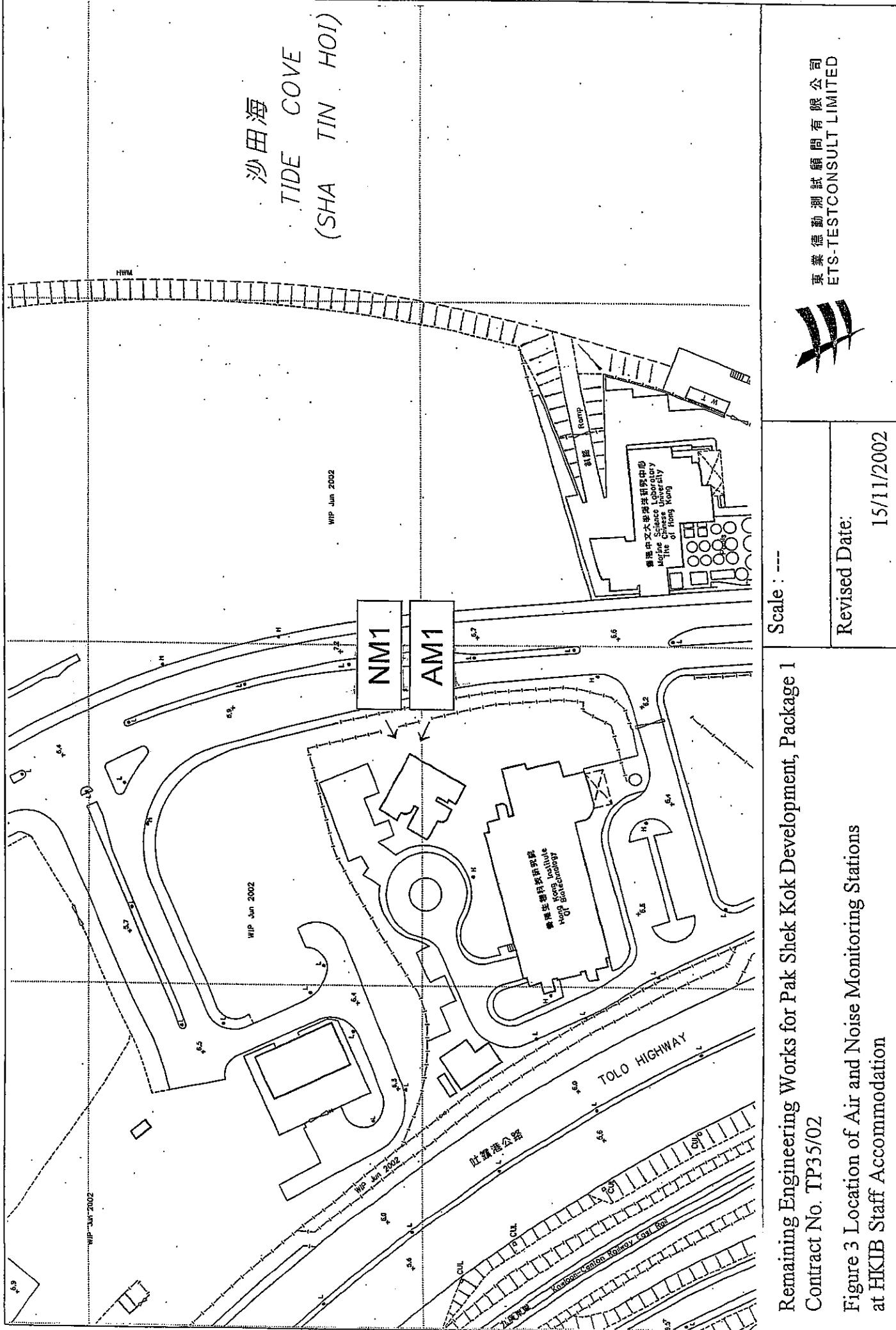
Figures

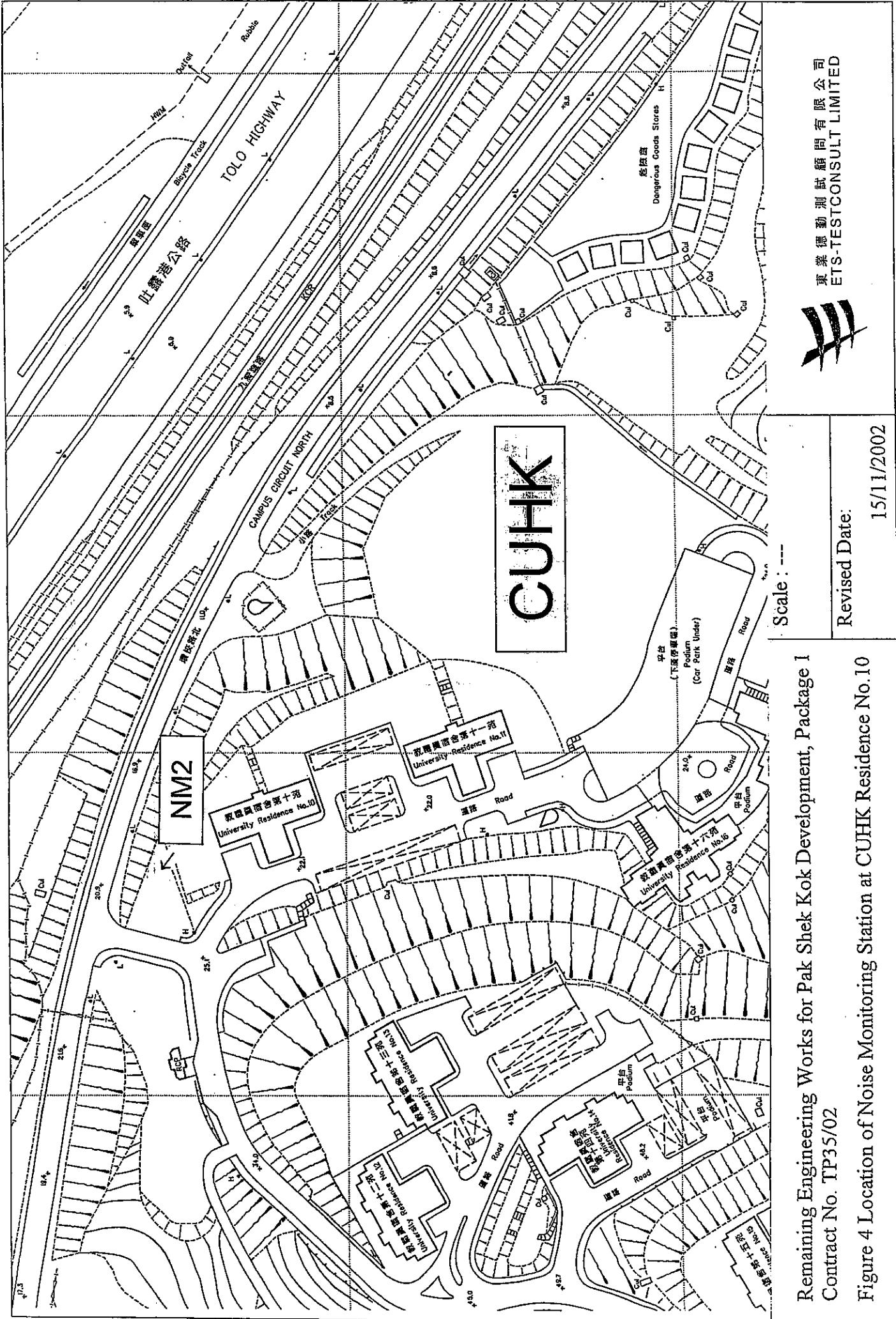


Remaining Engineering Works for Pak Shek Kok Development, Package 1
Contract No. TP35/02

Figure 1 Location of Noise Monitoring Stations



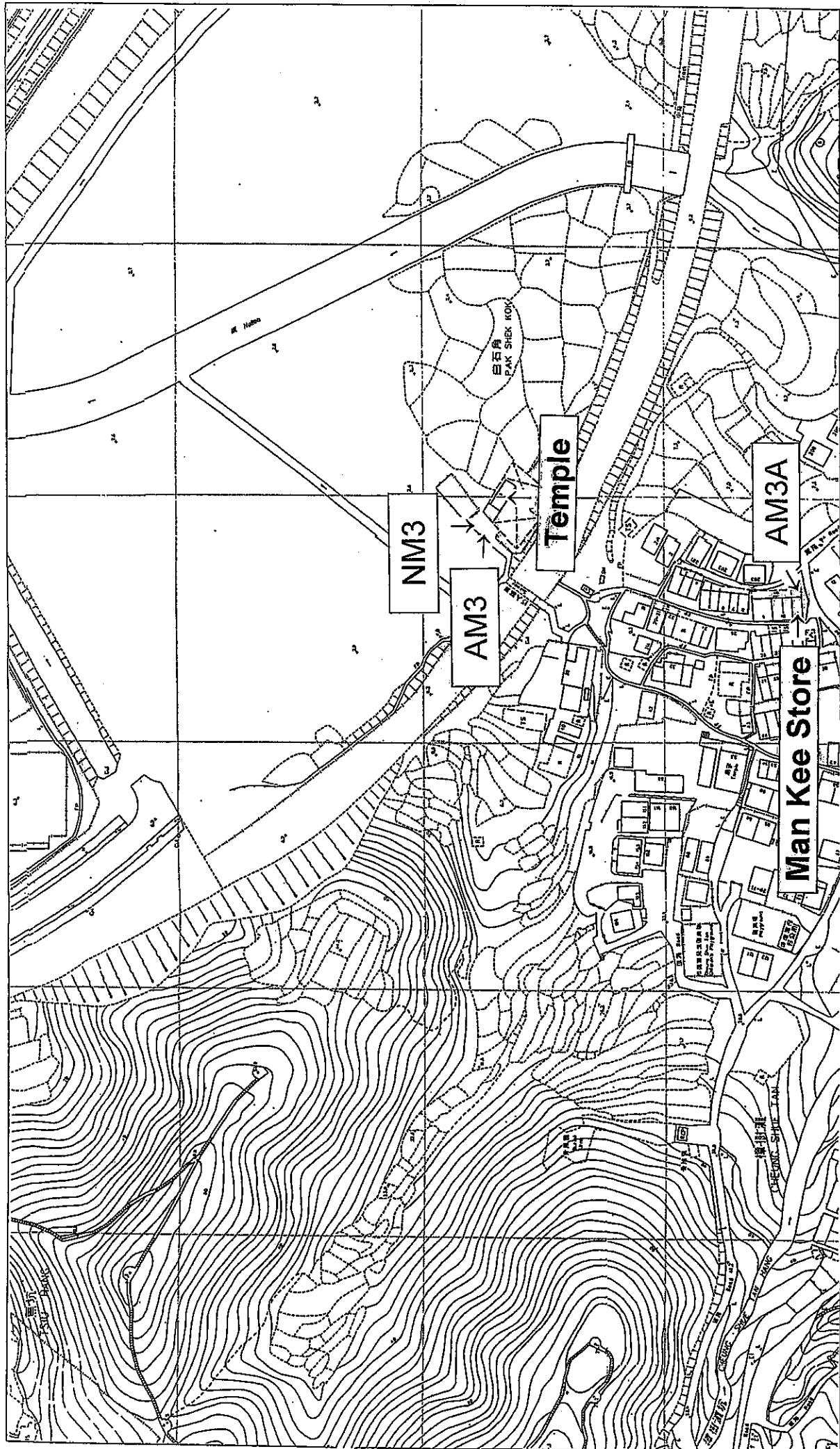




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Remaining Engineering Works for Pak Shek Kok Development, Package 1
Contract No. TP35/02
Figure 4 Location of Noise Monitoring Station at CUHK Residence No.10



Remaining Engineering Works for Pak Shek Kok Development, Package 1
Contract No. TP35/02

Figure 5 Location of Air and Noise Monitoring Stations
at Cheung Shue Tan Village

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Scale : ---

Revised Date:

15/11/2002