Maeda Corporation

Castle Peak Road Improvement Between Sham Tseng and Ka Loon Tsuen, Tsuen Wan West Contract No. HY/99/18

Annual Environmental Monitoring and Audit Summary Report
February 2004 to January 2005

Second Issue

Maeda Corporation

West Contract No. HY/99/18
Castle Peak Road Improvement Between Sham Tseng and Ka Lung Tsuen, Tsuen Wan

Environmental Monitoring and Audit

Annual Environmental Monitoring and Audit Summary Report

February 2004 to January 2005

February 2005

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11 March 2005

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For attention of: Mr. Sam Tsoi

Dear Mr. Tsoi

Contract HY/99/18 West Contract
Castle Peak Road Improvement between Sham Tseng and Ka Loon Tsuen, Tsuen Wan
Annual EM&A Summary Report (February 2004 to January 2005)

We refer to the electronic version of the captioned report submitted by your Mr. Angus Choi via e-mail on 28 February 2005 and subsequent revised page on 7 March 2005. We do not have further comment and endorsed the report.

Yours sincerely

Coleman Ng
Independent Checker (Environmental)
HYDER CONSULTING LIMITED

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Job title	West Contract No. HY/99/18 Castle Peak Road Improvement Between Sham Tseng and Ka Loon Tsuen, Tsuen Wan	Job number	23437
Document title	Annual Environmental Monitoring and Audit Report – February 2004 to January 2005	File reference	
Document ref	23437-53		

Revision	Date				
First Issue	16/02/05	Filename	G:\env\project\23437\reports\Annual\Year 04-05\53-Feb04-Jan05.doc		
		Description	Issued to IEC for comment		
			Prepared by	Checked by	Approved by
		Name	Fredrick Leong	Sam Tsoi	Sam Tsoi
		Signature			
Second Issue	07/03/05	Filename	G:\env\project\23437\reports\Annual\Template-Annual-CPR-West.doc		
		Description	Submitted to Client with IEC verification letter		
			Prepared by	Checked by	Approved by
		Name	Fredrick Leong	Sam Tsoi	Sam Tsoi
		Signature			
		Filename			
		Description			
			Prepared by	Checked by	Approved by
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		Filename			
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Issue Document Verification with Document ☑

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ABBREVIATIONS AND ACTONYMS

A/L	Action or Limit Levels
AQO	Air Quality Objectives
Arup	Ove Arup & Partners Hong Kong Limited
ASR	Area Sensitive Rating
B&K	Brüel & Kjær
CFM	Cubic Feet per Minute
CNP	Construction Noise Permit
CT	Contractor
DO	Dissolved Oxygen
DGPS	Differential Global Positioning System
EA	Environmental Auditor
EIA	Environmental Impact Assessment
EM&A	Environmental Monitoring and Audit
EP	Environmental Permit
EPD	Environmental Protection Department
ER	Engineer / Engineer's Representative
ET	Environmental Team
HKPSG	Hong Kong Planning Standards and Guidelines
HKSAR	Hong Kong Special Administrative Region
HOKLAS	The Hong Kong Laboratory accreditation Scheme
HVS	High Volume Sampler
IEC	International Electrotechnical Commission Publications
K	Degrees Kelvin
MC	Maeda Corporation
MHJV	Mouchel Halcrow Joint Venture
NAMAS	National Measurement accreditation Service
NTU	Nephelometric Turbidity Unit
NSR	Noise Sensitive Receiver
SCFM	Standard Cubic Feet per Minute
SS	Suspended Solids
TSP	Total Suspended Particulates
Tby	Turbidity

EXECUTIVE SUMMARY

This is the third annual environmental monitoring and audit (EM&A) report summarising the site inspection findings, air quality, noise, marine water quality monitoring works, and landscape and visual monitoring and audit for the period from February 2004 to January 2005.

Monitoring works included air quality monitoring at 9 locations, noise monitoring at 13 locations, and marine water quality monitoring at 16 locations. Air quality was recorded in terms of 1-hour Total Suspended Particulates (TSP) and 24-hour TSP. Noise was measured in terms of $L_{eq(30min)}$ with L_{10} and L_{90} measurements as references. Water quality was measured in terms of Dissolved Oxygen (DO), Turbidity (Tby) and Suspended Solids (SS).

Air Quality

The highest 1-hour TSP level was 360.1μg/m^3 recorded at Tsing Lung Tau Tin Hau Temple (WA6) on 30 September 2004 while the lowest 1-hour TSP level was 30.9μg/m^3 recorded at Carpark of Sea Crest Villa Phase 4 Block 12 (WA7) on 12 May 2004. There was no exceedance on the Action and Limit (A/L) Levels during the monitoring period.

The highest 24-hour TSP level was 297.8μg/m^3 recorded at G/F of Tsing Lung Tau Tin Hau Temple (WA6) on 10 November 2004 while the lowest 24-hour TSP level was 11.4μg/m^3 recorded at Car Park (L3) of Sea Crest Villa Phase 2 Block 6 (WA9) on 15 March 2004. Exceedance on Action Level was recorded at WA6 on 9 March 2004, WA11 on 10 November 2004, and WA11 on 27 November 2004. Exceedance on Limit Level was found at WA6 on 10 November 2004. All exceedances were either not caused by works or dealt with promptly to stop any further exceedances.

The HVS at WA6 was broken down since 13 May 2004. After a thorough maintenance check by the supplier, it was found that an integral part of the HVS need to be replaced. Such part was replaced and monitoring resumed at 11 June 2004. The HVS at WA6 has been out of order again during the period between 20 December 2004 and 8 January 2005. After investigation, it was found that the HVS was broken down because of aging problems of another integral parts and unstable power supply. Mitigation measures and contingency plan was proposed and implemented to avoid similar situation from happening again.

Noise

The highest noise level was 75.0dB(A) recorded at Sea Crest Villa Phase 1 (WN15) on 17 March 2004 while the lowest noise level was 59.0dB(A) recorded at Sea Crest Villa Phase 3 (WN13) on 25 March 2004. There was no exceedance on the A/L Levels during the monitoring period.

Marine Water Quality

As informed by the Contractor, the planned sand placement activities were conducted at Seawall B. Marine impact monitoring near Seawall B (i.e. WW1, WW2, WW3, WW4, WR-E-1234, WR-F-1234 and FCZ1) was therefore resumed from 2 August 2004 to 27 August 2004.

There were occasional exceedances on A/L Levels of DO and SS of marine water quality at different impact monitoring stations on different monitoring days in August 2004. No exceedance of Tby was recorded in August 2004.

210 exceedances of DO (9 times of Actions Levels and 201 time of Limit Levels) were recorded in the monitoring programme from 2 August 2004 to 27 August 2004 (i.e. 12 monitoring days). It was believed that the majority of exceedances of DO were possibly not justified to the sand placing works, taking into account the very short period and intermittent nature of works (3 consecutive days on 5-7 August 2004 and 13 August 2004). In addition, there was no identifiable source of discharge from the sites, either point or non-point source, which may affect the DO levels within the monitoring areas. In fact, such exceedances would likely be caused by elevated water temperature (recorded as about 27-32°C), which reduced the solubility of DO in water throughout the monitoring period in summer.

4 exceedances of SS (2 times of Action Levels and 2 time of Limit Levels) were recorded in the same monitoring programme. It was concluded that the exceedances of SS on 13 August 2004 was justified to the sand placing works, based on the information from complaint no 149. However, the implementation of proper mitigation measures promptly rectified the problem as illustrated by the resumption to compliance SS levels for the subsequent monitoring. As no sand placing work or other marine works have been carried out, other exceedances of SS on 20 and 25 August 2004 were not considered as caused by construction work.

Landscape and Visual

A total of 26 times of landscape and visual monitoring and audits had been carried out on a biweekly basis from February 2004 to January 2005 by a Registered Landscape Architect. No non-conformity regarding the landscape and visual issues was recorded.

Waste Disposal

A total of 309 loads of Construction & Demolition (C&D) waste had been disposed of at WENT Landfill in the period from February 2004 to January 2005. A total of 33,212 loads of C&D fill materials (Public Fill) had been disposed of at Public Filling Area in Tuen Mun by dump trucks in the period from February 2004 to January 2005. No chemical waste was disposed of from February 2004 to January 2005.

Complaint Records

A total of 9 environmental complaints were received from February 2004 to January 2005. Four of them were concerned about construction noise; two regarded daytime construction noise; and the other two regarded construction in restricted hours. One of the complaints was about marine pollution, one was regarding accumulation of foul water in trench. The remaining are complaints of the management of general refuse in the site. All had been solved after investigation.

Non-compliance

Exceedance of 24-hour TSP on Action Level was recorded at WA6 on 9 May 2004, WA11 on 10 November 2004 and 27 November 2004, and on Limit Level at WA6 on 10 November 2004 (Refer to Section 9.2.1 for details). All exceedances were either not caused by works or dealt with promptly to stop any further exceedances.

There were four documented complaints regarding construction noise which had triggered the Action Level of construction noise (Refer to Section 9.2.2 for details). All complaints were either not justified or promptly resolved.

There was one justified exceedance of SS of marine water quality monitoring recorded on 13 August 2004. (Refer to Section 9.2.3 for details). Mitigation measures were implemented and no further exceedances were detected.

Notification of Summons and Successful Prosecutions

There was neither notification of summons nor prosecution received during the reporting period.

Comparison of EM&A Data with EIA Predication

Apart from occasional exceedance of air quality and one exceedance of marine water quality monitoring, the environmental monitoring data (i.e. air quality and construction noise) collected in the period from February 2004 to January 2005were generally in line with the prediction of the EIA Report as the monitoring results were within the acceptable levels as stipulated in the EIA Report. No marine water assessment/modelling was undertaken during the EIA stage and therefore, comparison with the marine water quality monitoring results was not feasible.

Review of Environmental Monitoring Methodology and EM&A Programme

The environmental monitoring methodologies and procedures had been regularly reviewed by the Environmental Team (ET). No modification to the existing monitoring methodology was recommended. The EM&A programme and the implementation of the mitigation measures were successful for the period from February 2004 to January 2005.

Environmental Acceptability of the Project

Even though occasional exceedances of air quality and marine water quality were detected, the environmental monitoring results had indicated that the operation of the site activities by the CT in the period from February 2004 to January 2005 generally comply with the relevant environmental requirements.

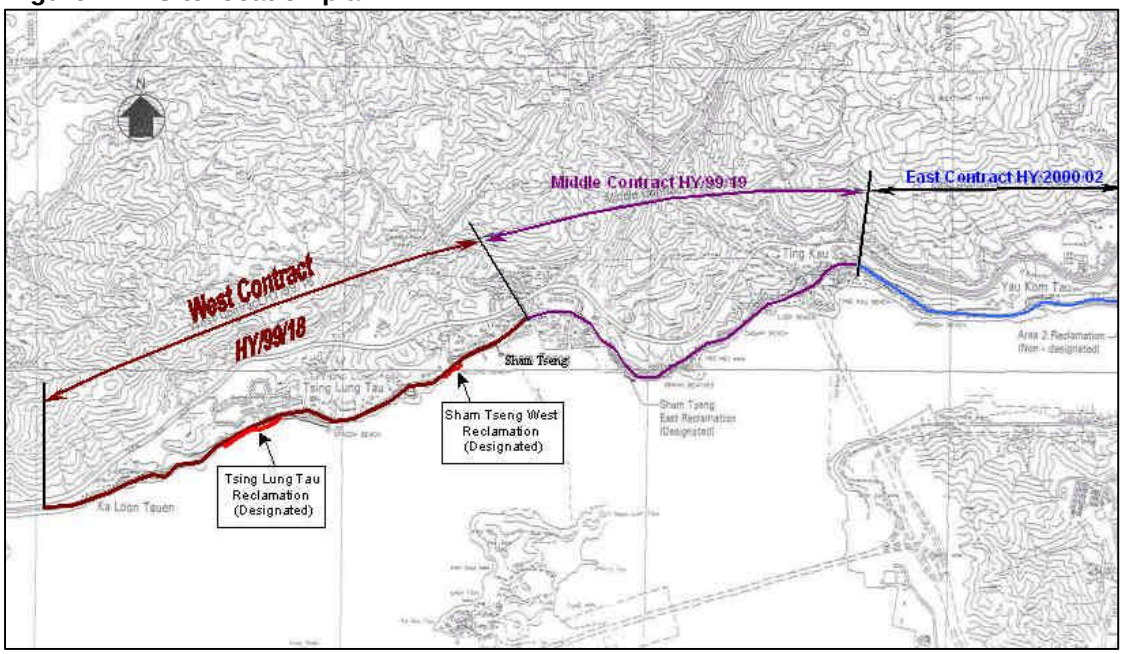
1. INTRODUCTION

Ove Arup & Partners Hong Kong Limited (Arup) was appointed by the Contractor - Maeda Corporation (MC) as the Environmental Team (ET) for *Contract No. HY/99/18 Castle Peak Road Improvements between Sham Tseng and Ka Loon Tsuen, Tsuen Wan* (hereafter called the "Project"). Environmental parameters including air quality, construction noise, water quality and landscape & visual issues were selected for impact monitoring for the Project. The contract period of the Project are anticipated as 43 months from December 2001 to June 2005.

1.1 Project Background

The Castle Peak Road improvements works consists of upgrading the existing Castle Peak Road to provide a dual two-lane carriageway of "Rural Road A" classification between Area 2, Tsuen Wan and Ka Loon Tsuen, and all associated utility, junction and pedestrian facilities. The Castle Peak Improvement project is divided into three contracts. This Environmental Monitoring and Audit (EM&A) exercise only concerns the West Contract No. HY/99/18 between Sham Tseng and Ka Loon Tsuen, Tsuen Wan. Figure 1-1 shows the site location plan.

Figure 1-1 Site location plan



The scope of the construction work includes:

- Improvement to Castle Peak Road between Area 2 and Ka Loon Tsuen, Tsuen Wan to a dual two-lane carriageway;
- Provision of pedestrian facilities in the form of footpaths, subways, footbridges and Crossings;
- Road junction and signal design and the re-provision of access roads and connections to existing road networks;
- Construction of associated drainage and landscaping works;
- Environmental mitigation measures;
- Design and construction of watermains;
- Construction of entrusted sewerage works; and
- Dredging and reclamation (designated project – see also Section 1.2)

1.2 Designated Project

The marine reclamation and the construction of the associated seawall at Tsing Lung Tau and Sham Tseng West within Contract No. HY/99/18 are classified as designated projects under the Environmental Permits No. EP-093/2001 and EP-094/2001 respectively.

1.3 Impact EM&A Requirements

The impact environmental monitoring and audit included air quality monitoring (both 1-hour and 24-hour TSP), noise, water quality, landscape and visual monitoring, and environmental audit.

1.4 Purpose of the Report

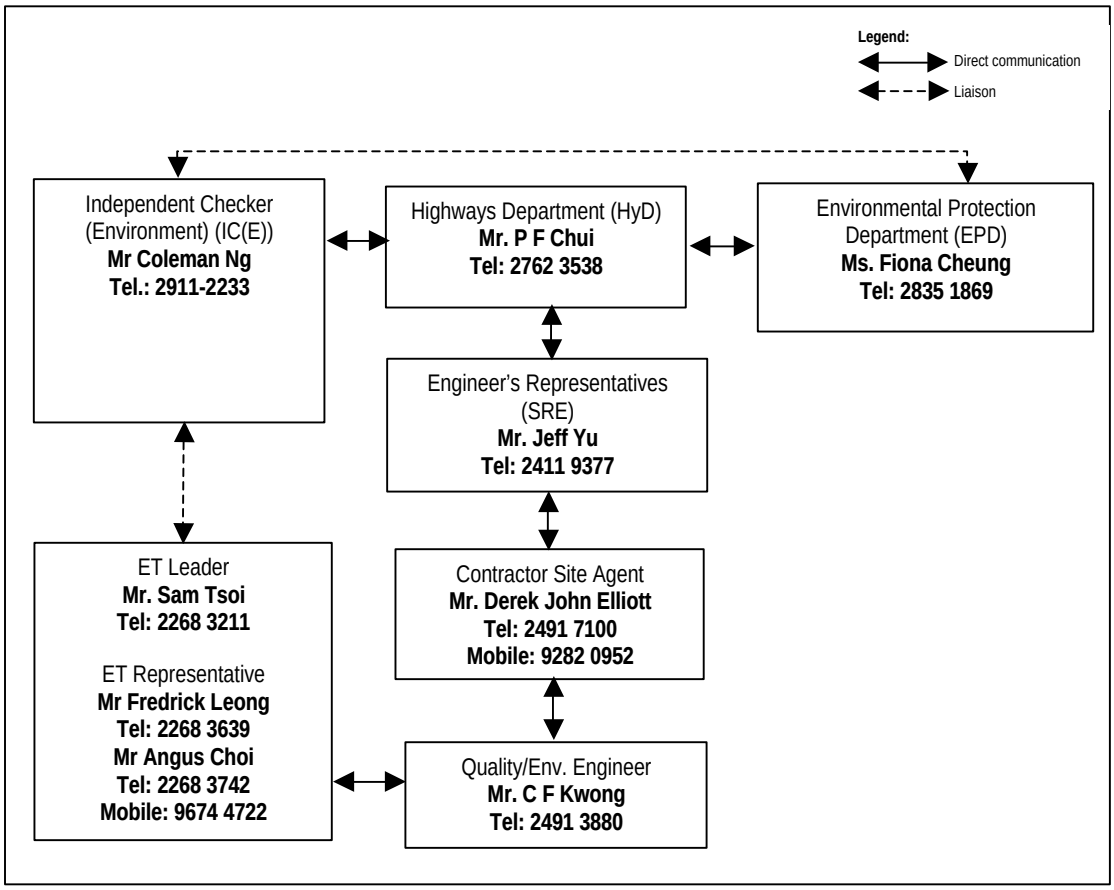
The purpose of the annual EM&A summary report is to summarise and provide the information on monitoring methodology, monitoring results, environmental permit status, site audit findings, recommendations and conclusions for the period from February 2004 to January 2005.

2. ENVIRONMENTAL STATUS

2.1 Project Organisation

The project organisation chart for environmental management is shown in Figure 2-1.

Figure 2-1 Project organisation on environmental management



2.2 Construction Programme

The construction work was commenced in February 2002. The updated construction programme is given in Appendix A.

2.3 Construction Activities of the Year

The major construction activities carried out by the Contractor (CT) for the period from February 2004 to January 2005 included excavation, rock breaking, rock drilling, chemical blasting and hydroseeding for slope formation, bored piling, construction of outfalls and base-slab; and installation of retaining walls, filling of sub-base, construction of footbridges and noise barriers.

The major sea works (Designated Projects) is the sand placing work at Seawall B. All major sea works at level below +2.5mPD had been completed in August 2004.

3. SUMMARY OF EM&A REQUIREMENTS

Air quality, construction noise, marine water quality and landscape issues are significant environmental impacts identified for the construction period of the project. In accordance with the Project specific EM&A Manual[1], air quality, noise, water quality, landscape impact monitoring, and audit shall be performed by an ET at all specified monitoring locations during the construction and operational stages.

3.1 Air Quality Monitoring

3.1.1 Monitoring Parameters

Air monitoring was measured in terms of the TSP levels for both 24-hour and 1-hour periods.

3.1.2 Monitoring Frequency

24-hour TSP and 1-hour TSP levels were monitored during the course of construction according to the EM&A Manual. The monitoring parameters and frequencies are specified in Table 3-1.

Table 3-1 TSP monitoring parameters and frequency

Parameters	Monitoring Frequency	Time Period	No. of measurement for each monitoring
24-hour TSP	Once every six days	0000 – 2400	1
1-hour TSP	Three times per every six days	0700 – 1900	1

3.1.3 Monitoring Locations

A total of eleven locations were specified for the air quality monitoring and they are given in Table 3-2 and presented in Figures 3-1a to 3-1d.

Table 3-2 Air quality monitoring locations

Air Monitoring Station No.	Location	Location description
~~WA1~~	~~Bayside Villas~~	~~G/F, Bayside Villas~~ (Temporary Suspended)
~~WA2~~	~~Grand Bay Villas~~	~~G/F, Grand Bay Villas~~ (Temporary Suspended)
WA3	Hong Kong Garden	G/F, Hong Kong Garden (Regent Heights)
WA4	Hong Kong Garden	G/F, Hong Kong Garden (Between Blk 1 & 2)
WA5	Hong Kong Garden	G/F, Hong Kong Garden (Block 4)
WA6	Tsing Lung Tau Tin Hau Temple	G/F, Tsing Lung Tau Tin Hau Temple
WA7	Sea Crest Villa	Podium, Sea Crest Villa (Phase 4 Block 12)
WA8	Sea Crest Villa	Podium, Sea Crest Villa (Phase 3 Block 8)
WA9	Sea Crest Villa	Car Park (L3), Sea Crest Villa (Phase 2 Block 6)
WA10	Sea Crest Villa	Podium, Sea Crest Villa (Phase 1 Block 1)
WA11	Lido Garden	G/F, Carpark, Lido Garden Tower 1

Note: Bayside Villas (WA1) and Grand Bay Villas (WA2) are no longer the air sensitive receivers as all residents of Bayside Villas and Grand Bay Villas had been evacuated since September 2002. Therefore, the air quality monitoring at Bayside Villas and Grand Bay Villas were temporary suspended since October 2002 after approval from IC(E) and EPD.

3.2 Construction Noise Monitoring

3.2.1 Monitoring Parameters

Construction noise monitoring was measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). L_{10} and L_{90} will also be recorded as supplementary reference information for data auditing.

3.2.2 Monitoring Frequency

Construction noise measurements were required to be taken on a weekly basis according to the EM&A Manual. The monitoring time periods, monitoring parameters and frequency are specified in Table 3-3.

Table 3-3 Construction noise monitoring parameters and frequency

Time Period (when construction activity is found)	Parameters	Monitoring Frequency	No. of Measurements for Each Monitoring
Between 0700-1900 hours on normal weekdays	$L_{eq(30\ min)}$	Once per week	1
Between 1900-2300 hours on normal weekdays	$L_{eq(5\ min)}$*		3 (consecutive)
Between 2300-0700 hours of next day			
Between 0700-1900 hours on holidays			

Remarks: * The $L_{eq(5\ min)}$ will only be measured if construction activities are conducted in holidays and between the period of 1900 and 0700 hours during normal weekdays.

3.2.3 Monitoring Locations

A total of sixteen noise monitoring locations were specified. They are given in Table 3-4 and presented in Figures 3-1a to 3-1d. The measurements shall be taken at a position 1m from the exterior of building façade and at a position of 1.2m above ground.

Table 3-4 Construction noise monitoring locations

Noise Monitoring Station No.	Location	Monitoring Point
WN1	Ka Loon Tsuen	House No.3, Ka Loon Tsuen
WN2	Ka Loon Tsuen	House No.15, Ka Loon Tsuen
~~WN3~~	~~Bayside Villas~~	~~Upper G/F, Bayside Villas~~ (Temporary Suspended)
~~WN4~~	~~Bayside Villas~~	~~Lower G/F, Bayside Villas~~ (Temporary Suspended)
~~WN5~~	~~Grand Bay Villas~~	~~G/F, Grand Bay Villas~~ (Temporary Suspended)
WN6	Hong Kong Garden	G/F, Hong Kong Garden (Regent Heights)
WN7	Hong Kong Garden	G/F, Hong Kong Garden (Between Blk 1 & 2)
WN8	Hong Kong Garden	G/F, Hong Kong Garden (Block 4)
WN9	Tsing Lung Tau Village	House 1,Tsing Lung Tau Village
WN10	Tsing Lung Tau Village	House 60-64,Tsing Lung Tau Village
WN11	Villa Alfavista	G/F, Villa Alfavista
WN12	Sea Crest Villa	Podium, Sea Crest Villa (Phase 4 Block 12)
WN13	Sea Crest Villa	Podium, Sea Crest Villa (Phase 3 Block 8)
WN14	Sea Crest Villa	Car Park (L3), Sea Crest Villa (Phase 2 Block 6)
WN15	Sea Crest Villa	Podium, Sea Crest Villa (Phase 1 Block 1)
WN16	Lido Garden	G/F, Carpark, Lido Garden Tower 1

Note: Bayside Villas (WN3 and WN4) and Grand Bay Villas (WN5) are no longer the noise sensitive receivers as all residents of Bayside Villas and Grand Bay Villas had been evacuated since September 2002. Therefore, the noise monitoring at Bayside Villas and Grand Bay Villas were temporary suspended since October 2002 after approval from IC(E) and EPD.

3.3 Water Quality (Designated Project)

3.3.1 Monitoring Parameters

Water quality monitoring includes Turbidity (Tby) in the unit of NTU, Dissolved Oxygen (DO) in the unit of mg/L and Suspended Solids (SS) in the unit of mg/L. In addition to the water quality parameters, other relevant data, such as monitoring location/position, time, water depth, water temperature, salinity, DO saturation, weather conditions, sea conditions, tidal stage will be recorded including any special phenomena, work underway at the construction site, etc.

3.3.2 Monitoring Frequency

Water quality monitoring during the impact stage will be conducted thrice per week, during mid-flood and mid-ebb tides and at sixteen designated sampling locations. The interval between two sets of monitoring will not be less than 36 hours except where exceedances above the Action Level or Limit Level were detected (see also section 3.4). In these cases, the monitoring frequency will be increased.

3.3.3 Monitoring Locations

A total of sixteen locations, 9 for impact and 7 for control had been selected for marine water quality monitoring and the locations are given in Table 3-5A and presented in Figure 3-1b to 3-1e. Marine water quality monitoring from 4 February 2003 to 10 February 2003 had been conducted at these marine water quality monitoring locations.

As agreed by the IC(E) and EPD, a new marine water quality monitoring programme was commenced on 12 February 2003. A total of twelve locations, 8 for impact and 4 for control were selected for the new marine water quality monitoring programme and the locations are given in Table 3-5B and presented in Figure 3-1b to 3-1e.

Table 3-5a Water quality monitoring locations (Original)

Water Monitoring Station No.		Location	
		Eastings	Northings
Tsing Lung Tau	WW1 (Impact Station)	822260	824491
	WR1 (Control Station)	822278	824459
Tsing Lung Tau	WW2 (Impact Station)	822352	824538
	WR2 (Control Station)	822363	824505
Tsing Lung Tau	WW3 (Impact Station)	822506	824609
	WR3 (Control Station)	822518	824578
Tsing Lung Tau	WW4 (Impact Station)	822820	824640
	WR4 (Control Station)	822800	824603
Angler's Beach: Sham Tseung	WW5 (Impact Station)	823697	824937
	WR5 (Control Station)	823700	824905
Angler's Beach: Sham Tseung	WW6 (Impact Station)	823775	824991
	WW7 (Impact Station)	823797	825042
	WR6/WR7 (Control Station)	823797	824964
Angler's Beach	WW8 (Impact station)	823994	825141
	WR8 (Control Station)	824006	825107
Ma Wan Fish Culture Zone	FCZ1 (Impact Station)	823500	823870

Table 3-5b Water quality monitoring locations (New)

Water Monitoring Station No.		Location	
		Eastings	Northings
Tsing Lung Tau	WW1 (Impact Station)	822306	824405
	WW2 (Impact Station)	822377	824462
	WW3 (Impact Station)	822529	824500
	WW4 (Impact Station)	822775	824560
	WR-E-1234 (Control Station for Mid-Ebb Tide)	822204	824312
	WR-F-1234 (Control Station for Mid-Flood Tide)	822850	824519
Angler's Beach: Sham Tseung West	WW5 (Impact Station)	823700	824905
	WW6/7 (Impact Station)	823797	824964
	WW8 (Impact Station)	823900	825023
	WR-E-5678 (Control Station for Mid-Ebb Tide)	823590	824830
	WR-F-5678 (Control Station for Mid-Flood Tide)	823994	825034
Ma Wan Fish Culture Zone	FCZ1 (Impact Station)	823500	823870

Figure 3-1a Monitoring locations

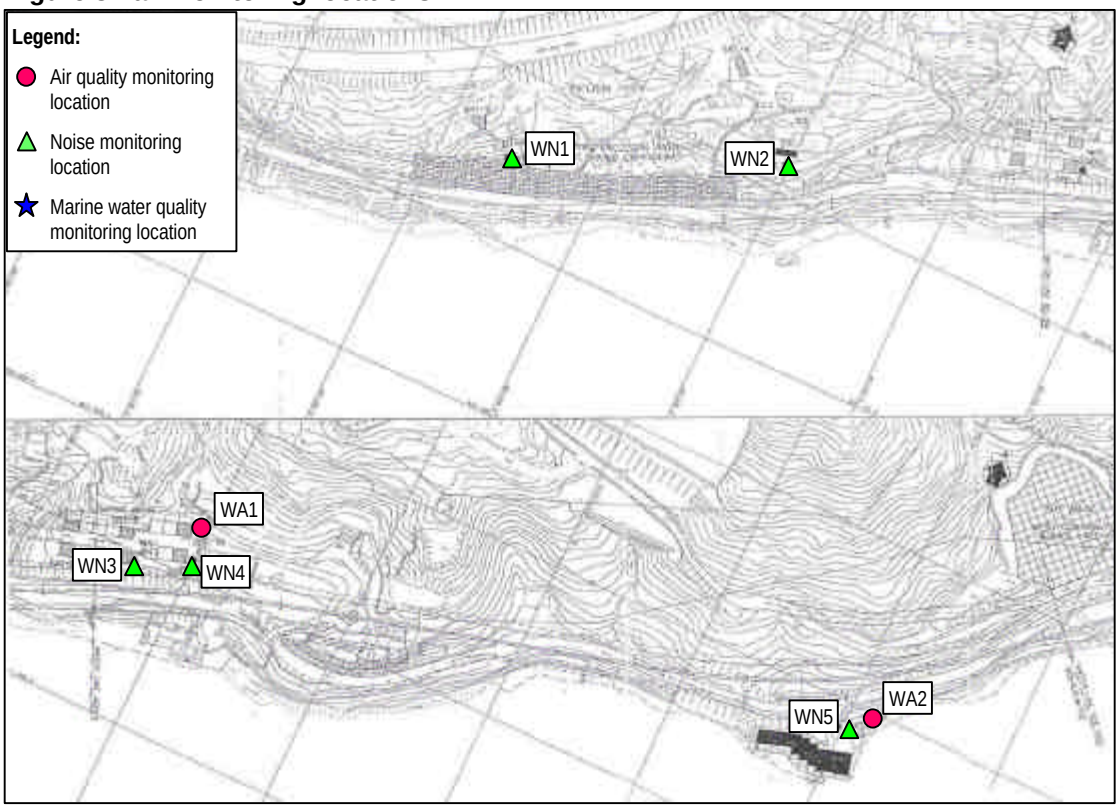


Figure 3-1b Monitoring locations

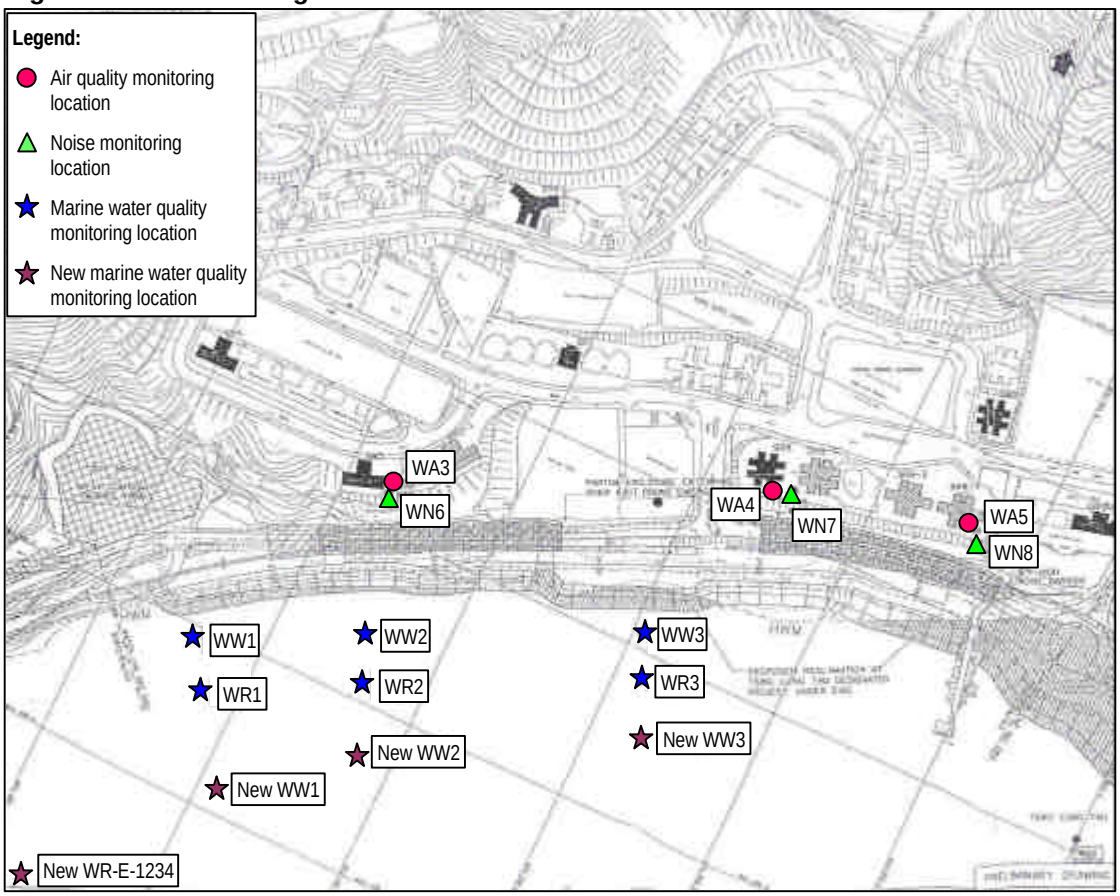


Figure 3-1c Monitoring locations

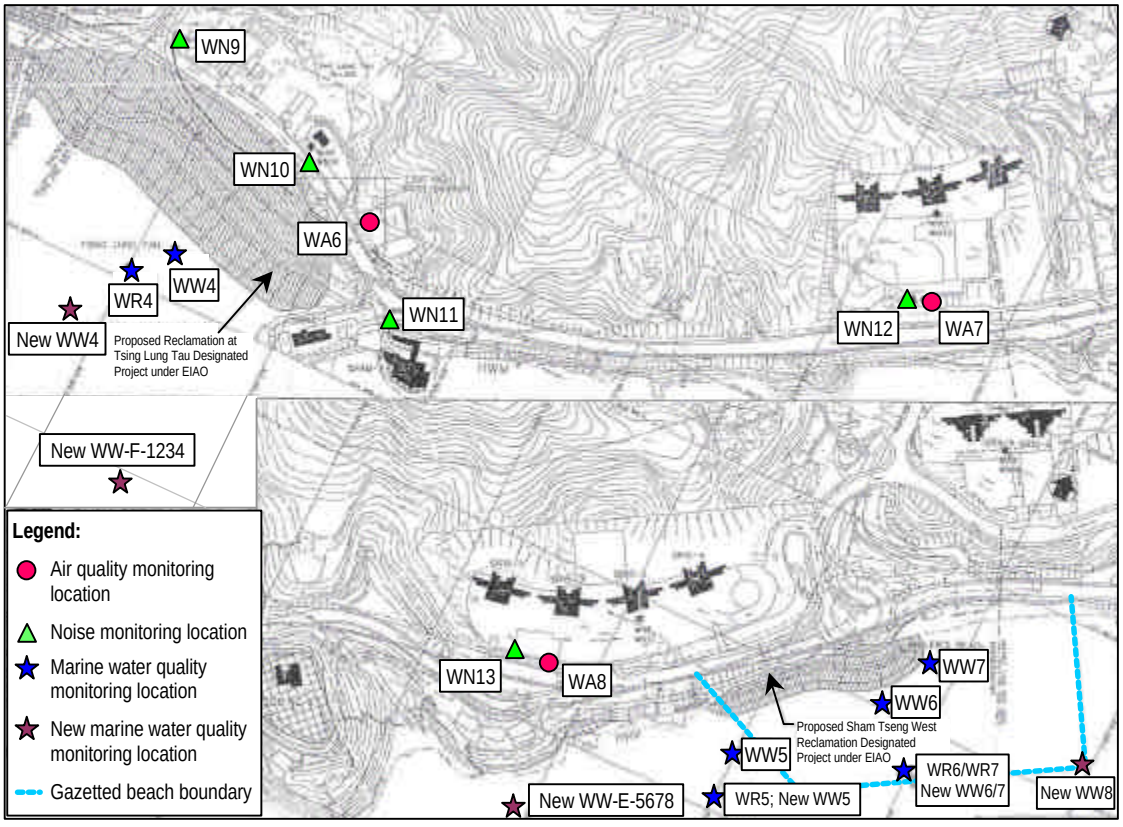


Figure 3-1d Monitoring locations

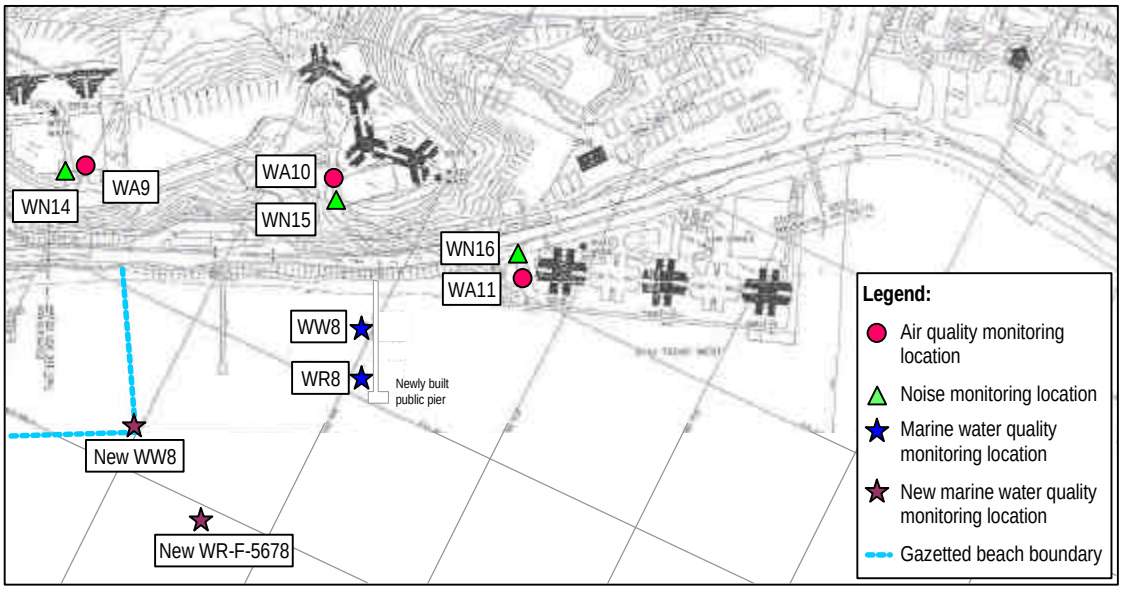
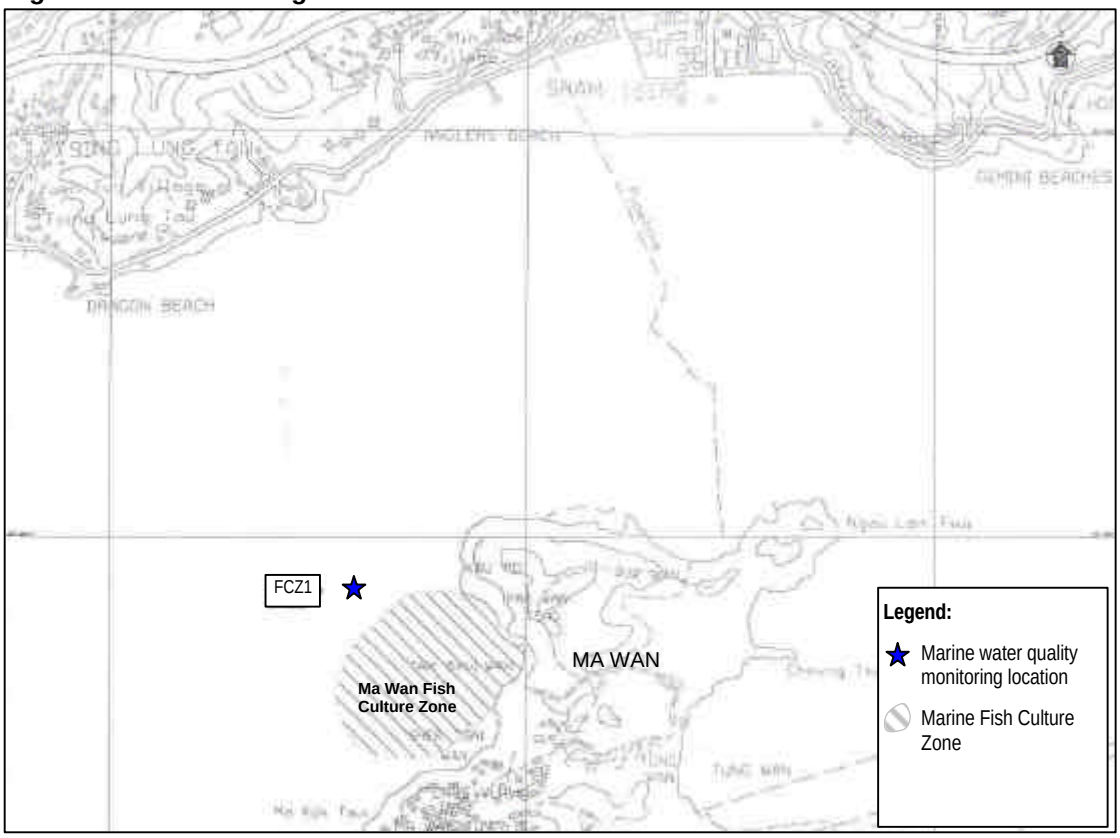


Figure 3-1e Monitoring locations



3.4 Landscape and Visual Monitoring and Audit

3.4.1 Audit Parameters

All landscape and visual mitigation measures undertaken by both the CT and the Landscape Contractor during the construction phase and during the first year of the operational phase were audited by a Registered Landscape Architect, to ensure compliance with the intended aims of the mitigation measures.

3.4.2 Audit Frequency

The landscape and visual monitoring and audits were undertaken at least once every two weeks throughout the construction period and once every two months during the operational phase.

3.4.3 Audit Location

The landscape and visual monitoring and audits were conducted throughout the site.

3.5 Performance Limits and Event-Action Plans

The monitoring results were checked against appropriate standards and requirements. A two-tier system performance limits had been established in the Project specific EM&A Manual. The "Action Level" and the "Limit Level" (A/L) are established according to the EPD requirements. ET, ER, IC(E), and CT will take corresponding actions in accordance with the Event-Action Plans if the monitoring results exceed the performance limits.

3.5.1 Air Quality

The action and limit levels for air quality have been established during the baseline monitoring and are provided in Table 3-6.

Table 3-6 Action and Limit Level for air quality

Air Monitoring Station No.	1-hour TSP Level in $\mu g/m^3$		24-hour TSP Level in $\mu g/m^3$	
	Action Level	Limit Level	Action Level	Limit Level
WA1	350	500	187	260
WA2	362		192	
WA3	353		190	
WA4	362		187	
WA5	346		185	
WA6	362		204	
WA7	351		187	
WA8	347		188	
WA9	345		182	
WA10	352		183	
WA11	357		195	

Table 3-7 details the actions required to be carried out by different parties in case of an exceedance of performance limits being detected.

Table 3-7 Event/Action plan for air quality

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

3.5.2 Construction Noise Impact

The action and limit levels for the construction noise have been established in accordance with the Baseline Monitoring Report[2] and are tabulated in Table 3-8.

Table 3-8 Action and Limit Levels for construction noise

Time Period	Action	Limit
0700 – 1900 hours on any day not being a Sunday or public holiday	When one documented complaint is received	75dB(A)(1)
19:00 – 23:00 hours on all days and 07:00 – 23:00 on general holidays (including Sundays)		55(2) / 70(3)
23:00 – 07:00 hours on all days		40(2) / 55(3)

Remarks:
(1) For educational establishments the limit level shall be 70dB(A) and reduced to 65dB(A) during examination periods.
(2) Refers to the types of Plant regulated under the Technical Memorandum on Noise from Construction Work in Designated Areas (DA-TM).
(3) Refers to the types of Plant regulated under the Technical Memorandum on Noise Other than Percussive Piling (GW-TM).
(4) Owing to the high background noise level recorded at WN5, WN9, and WN10, the noise impact monitoring results at these 3 locations will be corrected by its background using the following background correction equation: $L_{eq(30min)=}$ 10 log ($10^{m/10}$ –$10^{b/10}$) as m= Measured $L_{eq(30min),}$ b=Average Baseline $L_{eq(30min)}$.
Only up to the maximum of 3dB(A) is allowed to be deducted after the background correction.

Table 3-9 details the actions required to be carried out by different parties in the case of an exceedance of performance limits being detected.

Table 3-9 Event/Action plan for construction noise

Event	Action			
	ET Leader	IC(E)	ER	Contractor
Action Level	1. Notify the IC(E) and the Contractor. 2. Carry out investigation. 3. Report the results of investigation to the IC(E) and the Contractor. 4. Discuss with the Contractor and formulate remedial measures. 5. Increase monitoring frequency to check mitigation measures.	1. Review with analysed results submitted by the ET. 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly. 3. Supervise the implement of remedial measures.	1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented.	1. Submit noise mitigation proposals to IC(E). 2. Implement noise mitigation proposals.
Limit Level	1. Notify the IC(E), the ER, the EPD and the Contractor. 2. Identify the source. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency. 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. 6. Inform the IC(E), the ER, and the EPD the causes & actions taken for the exceedances. 7. Assess effectiveness of the contractor's remedial actions and keep the IC(E), the EPD and the ER informed of the results. 8. If exceedance stops, cease additional monitoring	1. Discuss amongst the ER, the ET Leader and the Contractor on the potential remedial actions. 2. Review the 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 the Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated.	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 problem still not under control. 5. Stop the relevant activity of works as determined by the ER until the exceedance is abated.

3.5.3 Water Quality

The action and limit levels for the water quality have been established in accordance with the EM&A Manual and approved by EPD on 15 October 2002. EPD and IC(E) had agreed on 10 April 2003 to apply the "Direct Comparison" method for evaluation of the marine water quality exceedance. The A/L levels had been revised in April 2003 and are presented in Table 3-10.

Table 3-10 Action and Limit Levels of water quality

Parameters		Monitoring Location			
		WW1 to WW8		FCZ1	
		Action Level	Limit Level	Action Level	Limit Level
Mid-Ebb					
DO (mg/L)	Surface & Middle	**4.9**	**4.8**	**4.7**	**4.6**
	Bottom	**4.8**	**4.8**	**4.0**	**4.0**
SS (mg/L) (Depth-averaged)		**17.0**	**23.4**	For EPD: **12.9** For AFCD: **12.9 and 120%** of upstream control station's SS at the same tide of the same day	For EPD: **14.0** For AFCD: **14.0 and 130%** of upstream control station's SS at the same tide of the same day
Tby (NTU) (Depth-averaged)		**12.0**	**13.6**	For EPD: **9.1** For AFCD: **9.1 and 120%** of upstream control station's Tby at the same tide of the same day	For EPD: **10.3** For AFCD: **10.3 and 130%** of upstream control station's Tby at the same tide of the same day.
Mid-Flood					
DO (mg/L)	Surface & Middle	**4.3**	**4.2**	**4.5**	**4.4**
	Bottom	**4.3**	**4.1**	**4.1**	**4.1**
SS (mg/L) (Depth-averaged)		**25.3**	**28.7**	For EPD: **23.3** For AFCD: **23.3 and 120%** of upstream control station's SS at the same tide of the same day	For EPD: **25.9** For AFCD: **25.9 and 130%** of upstream control station's SS at the same tide of the same
Tby (NTU) (Depth-averaged)		**25.2**	**31.5**	For EPD: **18.7** For AFCD: **18.7 and 120%** of upstream control station's Tby at the same tide of the same day	For EPD: **22.3** For AFCD: **22.3 and 130%** of upstream control station's Tby at the same tide of the same day.

Notes: "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

In order to better differentiate between exceedance caused by the contract works and elevated readings arising from causes unrelated to contract works, all parties had agreed to introduce a term "Reaching of Trigger Value" to represent the scenario where the A/L levels were exceeded by the "Direct Comparison" evaluation method. Upon the detection of "Reaching of Trigger Value", an initial analysis would be

carried out to determine whether it was caused by contract works. Exceedance and non-compliance should only be recorded in case where the "Reaching of Trigger Value" was caused by the contract works.

Table 3-11 details the actions required to be carried out by different parties in the case of water quality exceedance of performance limits being detected. The revised Event/Action Plan for water quality has been endorsed by IC(E) in May 2003.

Table 3-11 Event/Action plan for water quality

Event	Action			
	ET Leader	IC(E)	ER	Contractor
Trigger Value				
1. Trigger Value being surpassed for one sampling day	1. Repeat in-situ measurement to confirm findings. 2. Conduct investigation to identify the source(s) of impact. 3. Check monitoring data, all plant, equipment, mitigation measures and the Contractor's working methods. 4. Inform the IC(E), ER, EPD, HyD, Contractor and AFCD (if required) the investigation results. 5. If exceedance is confirmed as caused by the construction works, take relevant actions as detailed in **"Action Level"** and **"Limit Level"**	1. If exceedance is confirmed as caused by the construction works, take relevant actions as detailed in **"Action Level"** and **"Limit Level"**	1. If exceedance is confirmed as caused by the construction works, take relevant actions as detailed in **"Action Level"** and **"Limit Level"**	1. If exceedance is confirmed as caused by the construction works, take relevant actions as detailed in **"Action Level"** and **"Limit Level"**
Action Level				
1. Action level being exceeded by one sampling day and is caused by the construction works	1. Discuss the current mitigation measures with the IC(E) and the Contractor. 2. Pay attention on the monitoring results collected on the subsequent scheduled monitoring date to see if an exceedance, caused by the same or related construction works, is recurring.	1. Discuss with the ET Leader and the Contractor on the current mitigation measures. 2. Assess the effectiveness of the current mitigation measures and advised the ER accordingly.	1. Discuss with the IC(E) on the current mitigation measures.	1. Inform the ER and confirm notification of the exceedance in writing. 2. Rectify unacceptable practice. 3. Check all plants and equipment. 4. Consider changes of working methods. 5. Discuss with the ET Leader and the IC(E) on the current mitigation measures.
2. Action level being exceeded by more than one consecutive days and is cause by the construction works	1. Discuss mitigation measures with the IC(E) and the Contractor. 2. Ensure the proposed mitigation measures are implemented. 3. Further evaluation of the monitoring results on the next scheduled monitoring day and report to all concerned parties, if the affected monitoring stations are still being affected (or are no longer affected) by the construction works. 4. Prepare to increase the monitoring frequency to daily, if the Limit Level is exceeded as below.	1. Discuss with the ET Leader and the Contractor on the proposed mitigation measures. 2. Review proposals on mitigation measures submitted by the Contractor and advised the ER accordingly. 3. Assess the effectiveness of the implemented mitigation measures.	1. Discuss with IC(E), the ET Leader and the Contractor on the proposed mitigation measures. 2. Make agreement on the proposed mitigation measures to be implemented. 3. Assess the effectiveness of the implemented mitigation measures.	1. Inform the ER and confirm notification of the consecutive exceedance in writing. 2. Rectify unacceptable practice. 3. Check all plants and equipment. 4. Consider changes of working methods. 5. Discuss with the ET Leader and the IC(E) and propose mitigation measures to the IC(E) and the ER within 3 working day. 6. Implement the agreed mitigation measures.
Limit Level				
1. Limit level being exceeded by one sampling day and is cause by the construction works	1. Discuss mitigation measures with the IC(E), the ER and the Contractor. 2. Ensure the proposed mitigation measures are implemented. 3. Prepare to increase the monitoring frequency to daily if further exceedances of the Limit Level are detected on the next sampling day.	1. Discuss with the ET Leader and the Contractor on the proposed mitigation measures. 2. Review proposals on mitigation measures submitted by the Contractor and advised the ER accordingly. 3. Assess the effectiveness of the implemented mitigation measures.	1. Discuss with IC(E), the ET Leader and the Contractor on the proposed mitigation measures. 2. Request the Contractor to Critically review the working methods. 3. Make agreement on the proposed mitigation measures to be implemented. 4. Assess the effectiveness of the implemented mitigation measures.	1. Inform the ER and confirm notification of the exceedance in writing. 2. Rectify unacceptable practice. 3. Check all plants and equipment. 4. Consider changes of working methods. 5. Discuss with the ET Leader, the IC(E) and the ER, and propose mitigation measures to the IC(E) and the ER within 3 working days. 6. Implement the agreed mitigation measures.

Event	Action			
	ET Leader	IC(E)	ER	Contractor
2. Limit level being exceeded by more than one consecutive days and is cause by the construction works	1. Discuss further mitigation measures with the IC(E), the ER and the Contractor. 2. Ensure the proposed further mitigation measures are implemented. 3. Increase the monitoring frequency to daily until no exceedance of the Limit Level.	1. Discuss with the ET Leader and the Contractor on the proposed further mitigation measures. 2. Review proposals on further mitigation measures submitted by the Contractor and advised the ER accordingly. 3. Assess the effectiveness of the implemented further mitigation measures.	1. Discuss with IC(E), the ET Leader and the Contractor on the proposed further mitigation measures. 2. Request the Contractor to Critically review the working methods. 3. Make agreement on the further mitigation measures to be implemented. 4. Assess the effectiveness of the implemented further mitigation measures. 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit Level.	1. Inform the ER and confirm notification of the consecutive exceedance in writing. 2. Rectify unacceptable practice. 3. Check all plants and equipment. 4. Consider changes of working methods. 5. Discuss with the ET Leader, the IC(E) and the ER, and propose further mitigation measures to the IC(E) and the ER within 3 working days. 6. Implement the agreed further mitigation measures. 7. As directed by the ER, slow down or stop all or part of the construction activities.

3.5.4 Landscape and Visual

The Final Tree Survey Report[3] approved in April 2001 was adopted as the framework of the baseline landscape condition of this road section. In addition, a supplementary tree survey has been carried out in December 2001. The Supplementary Tree Survey Report (Revision A)[4] completed in March 2002 is also adopted to provide supplementary information of the baseline landscape condition of this road section.

If any non-conformity on landscape and visual issue is observed, the actions in accordance with Event/Action Plan shown in Table 3-12 shall be carried out.

Table 3-12 Event/Action plan for landscape and visual impact

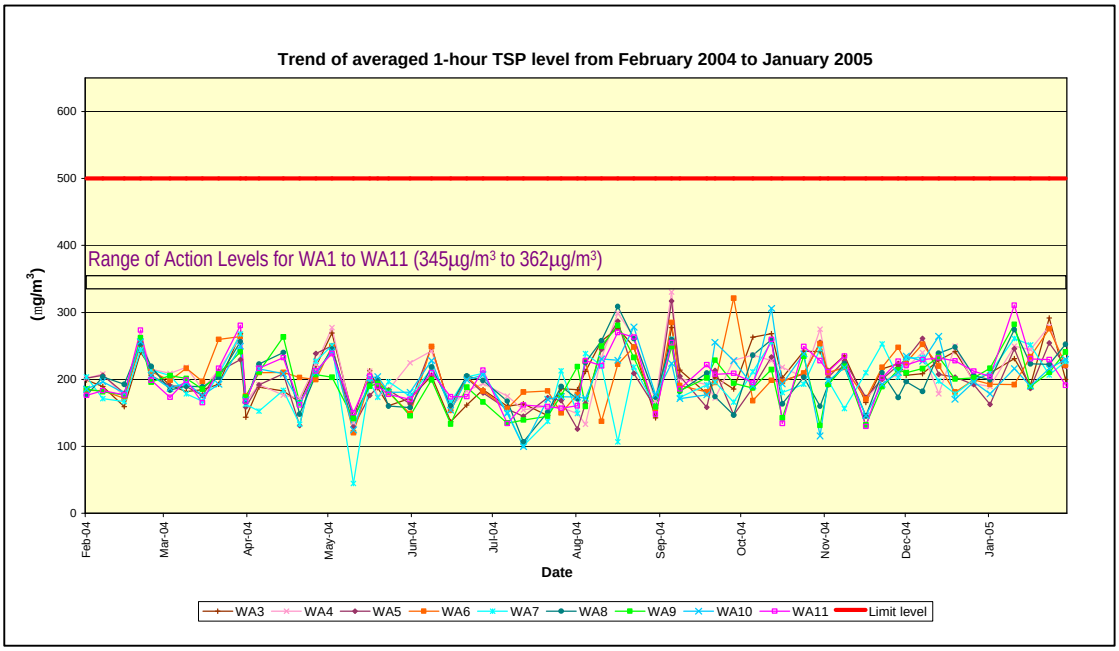
Event	Action			
	ET Leader	IC(E)	ER	Contractor
Non-conformity on one occasion	1. Identify Source(s). 2. Inform the IC(E) and the ER. 3. Discuss mitigation actions with the IC(E), the ER and the Contractor. 4. Monitor remedial actions until rectification has been completed.	1. Check report. 2. Check the Contractor's working method. 3. Discuss with the ET Leader and the Contractor on possible remedial measures. 4. Advise the ER on effectiveness of proposed remedial measures. 5. Check implementation of remedial measures.	1. Notify Contractor. 2. Ensure remedial measures are properly implemented.	1. Amend working method. 2. Rectify damage and undertaken any necessary replacement.
Repeated Non-conformity	1. Identify Source(s). 2. Inform the IC(E) and the ER.l 3. Increase monitoring frequency 4. Discuss mitigation actions with the IC(E) , the ER and the Contractor. 5. Monitor remedial actions until rectification has been completed. 6. If exceedance stops, cease additional monitoring	1. Check monitoring report 2. Check the Contractor's working method 3. Discuss with the ET Leader and the Contractor on possible remedial measures. 4. Advise the ER on effectiveness of proposed remedial measures. 5. Supervise implementation of remedial measures.	1. Notify the Contractor. 2. Ensure remedial measures are properly implemented.	1. Amend working method. 2. Rectify damage and undertaken any necessary replacement.

4. AIR QUALITY

4.1 1-hour TSP Monitoring Results

The trend of averaged 1-hour TSP levels at each monitoring location in the period from February 2004 to January 2005 are plotted and presented in Figure 4-1.

Figure 4-1 Graphical presentation of 1-hour TSP level from February 2004 to January 2005



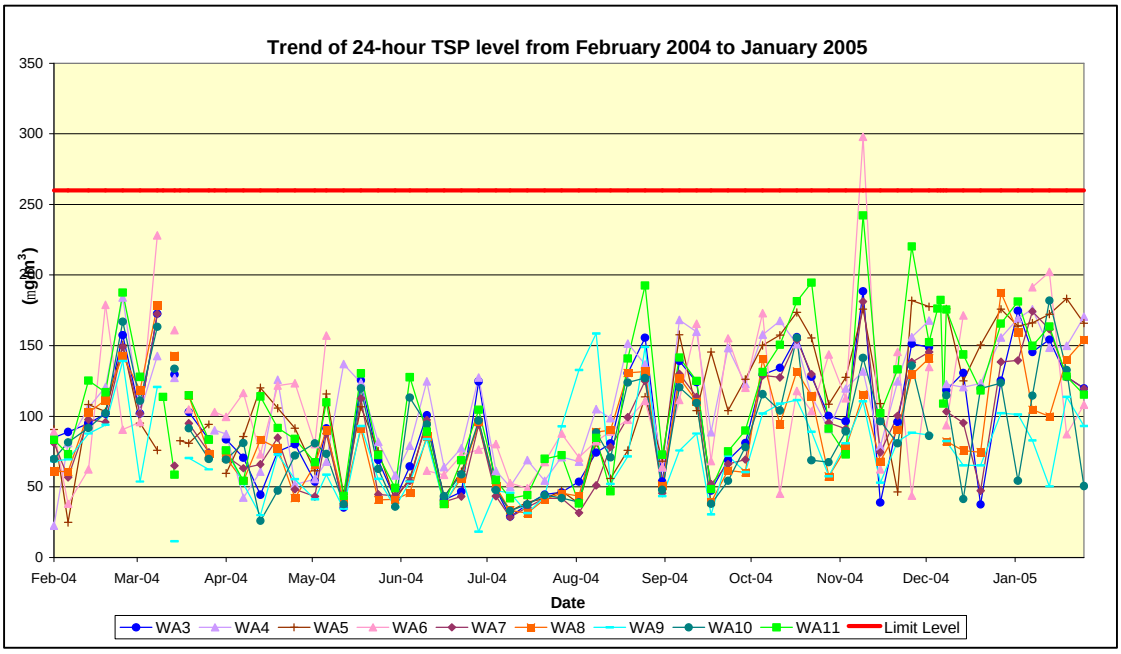
The highest 1-hour TSP level was 360.1µg/m^3 recorded at Tsing Lung Tau Tin Hau Temple (WA6) on 30 September 2004 while the lowest 1-hour TSP level was 30.9µg/m^3 recorded at Carpark of Sea Crest Villa Phase 4 Block 12 (WA7) on 12 May 2004.

There was no exceedance on the Action and Limit (A/L) Levels during the monitoring period.

4.2 24-hour TSP Monitoring Results

The trend of 24-hour TSP levels at each monitoring location in the period from February 2004 to January 2005 are plotted and presented in Figure 4-2.

Figure 4-2 Graphical presentation of 24-hour TSP level from February 2004 to January 2005



The highest 24-hour TSP level was 297.8μg/m^3 recorded at G/F of Tsing Lung Tau Tin Hau Temple (WA6) on 10 November 2004 while the lowest 24-hour TSP level was 11.4μg/m^3 recorded at Car Park (L3) of Sea Crest Villa Phase 2 Block 6 (WA9) on 15 March 2004.

Exceedance on Action Level was recorded at WA6 on 9 March 2004, WA11 on 10 November 2004, and WA11 on 27 November 2004. Exceedance on Limit Level was found at WA6 on 10 November 2004. Detail investigations of exceedances were provided in Section 9.2.1.

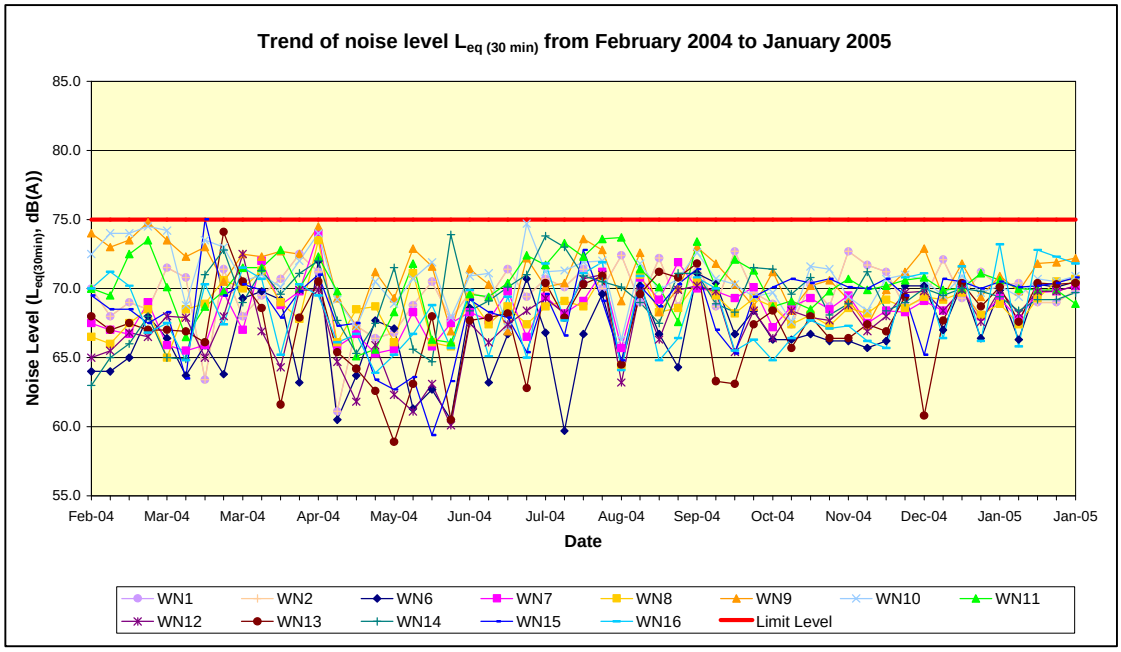
The HVS at WA6 was broken down since 13 May 2004. After a thorough maintenance check by the supplier, it was found that an integral part of the HVS need to be replaced. Such part was replaced and monitoring resumed at 11 June 2004. The HVS at WA6 has been out of order again during the period between 20 December 2004 and 8 January 2005. After investigation, it was found that the HVS was broken down because of aging problems of another integral parts and unstable power supply. Mitigation measures and contingency plan was proposed and implemented to avoid similar situation from happening again.

5. NOISE

5.1 Noise Monitoring Results

The trend of noise levels at each monitoring location in the period from February 2004 to January 2005 are plotted and presented in Figure 5-1.

Figure 5-1 Graphical presentation of noise level from February 2004 to January 2005



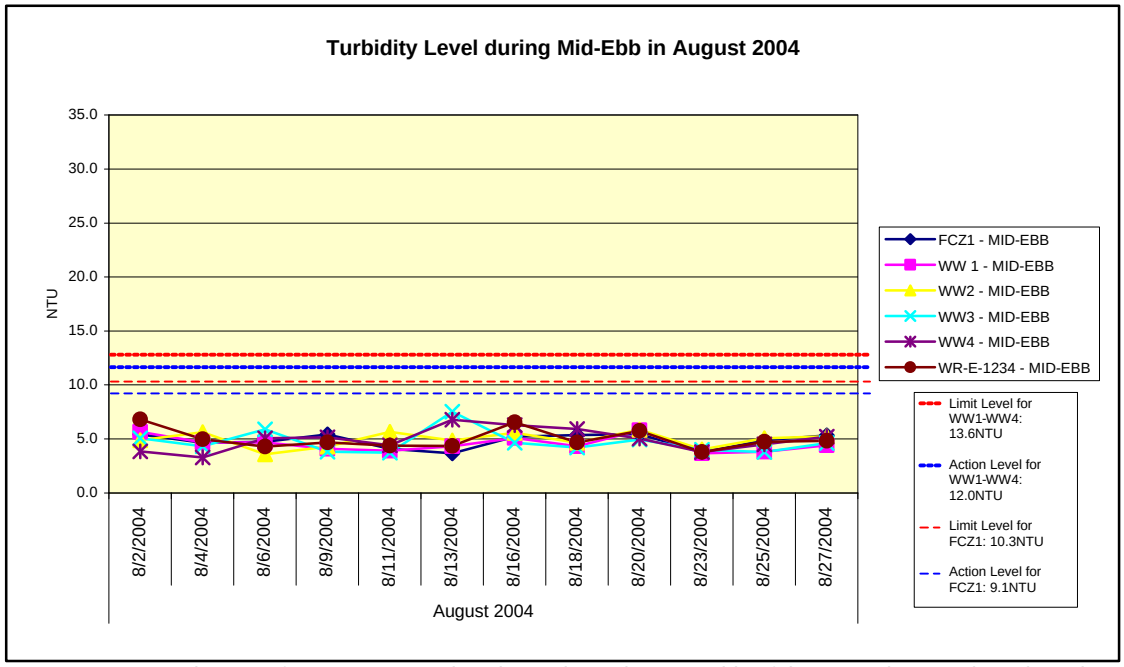
The highest noise level was 75.0dB(A) recorded at Sea Crest Villa Phase 1 (WN15) on 17 March 2004 while the lowest noise level was 59.0dB(A) recorded at Sea Crest Villa Phase 3 (WN13) on 25 March 2004. There was no exceedance on the A/L Levels during the monitoring period.

6. WATER QUALITY (DESIGNATED PROJECT)

6.1 Marine Water Quality Monitoring Results

As informed by the Contractor, the planned sand placement activities were conducted at Seawall B. Marine impact monitoring near Seawall B (i.e. WW1, WW2, WW3, WW4, WR-E-1234, WR-F-1234 and FCZ1) was therefore resumed from 2 to 27 August 2004. The monitoring results are presented in Figure 6-1 to Figure 6-8.

Figure 6-1 Turbidity levels during mid-ebb in August 2004



Note: 120% and 130% of upstream control station's Tby at the same tide of the same day are also adopted as the Action Level and Limit Level for the evaluation of the exceedance of Tby.

Figure 6-2 Turbidity levels during mid-flood in August 2004

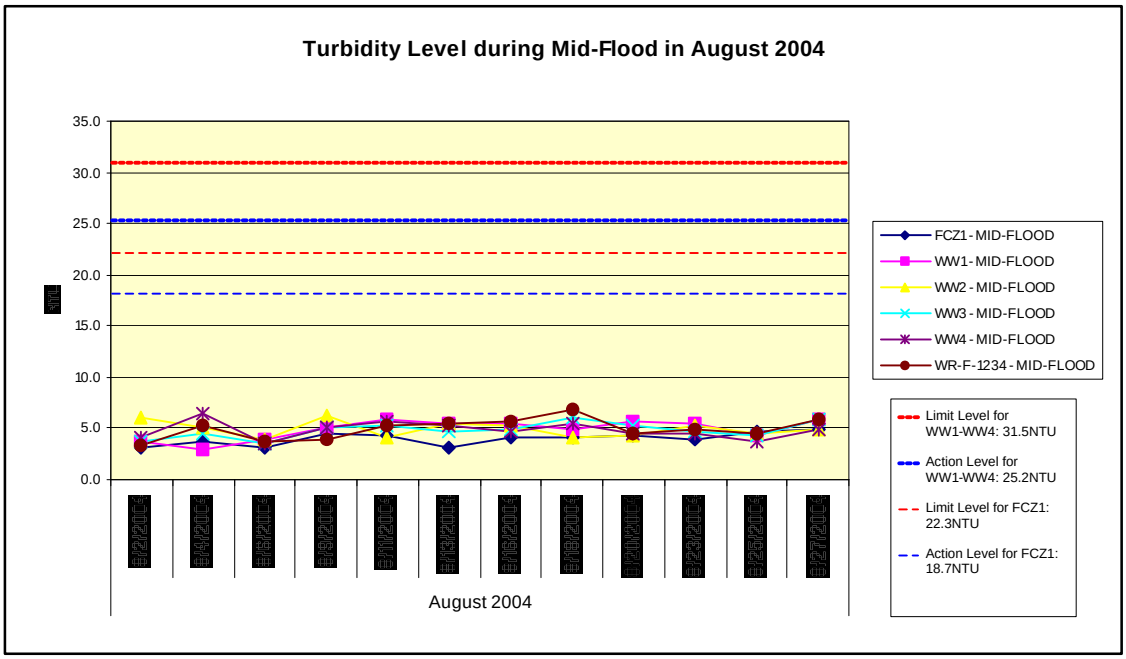
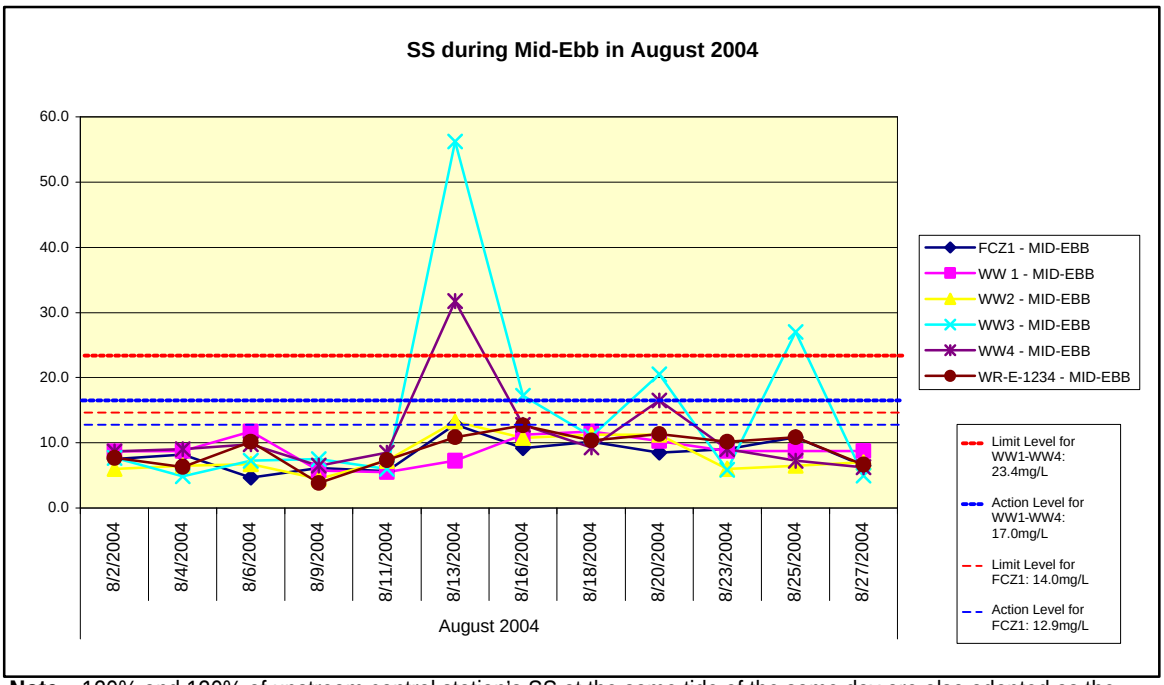
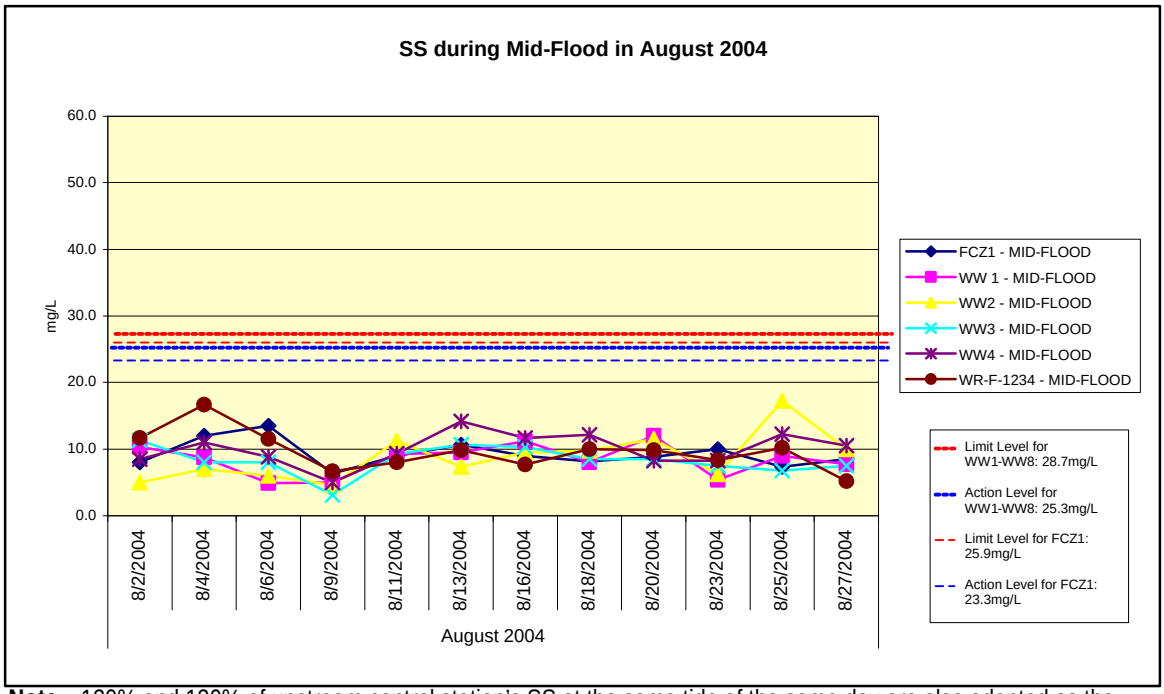


Figure 6-3 SS during mid-ebb in August 2004



Note: 120% and 130% of upstream control station's SS at the same tide of the same day are also adopted as the Action Level and Limit Level for the evaluation of the exceedance of SS.

Figure 6-4 SS during mid-flood in August 2004



Note: 120% and 130% of upstream control station's SS at the same tide of the same day are also adopted as the Action Level and Limit Level for the evaluation of the exceedance of SS.

Figure 6-5 DO at surface and middle level during mid-ebb in August 2004

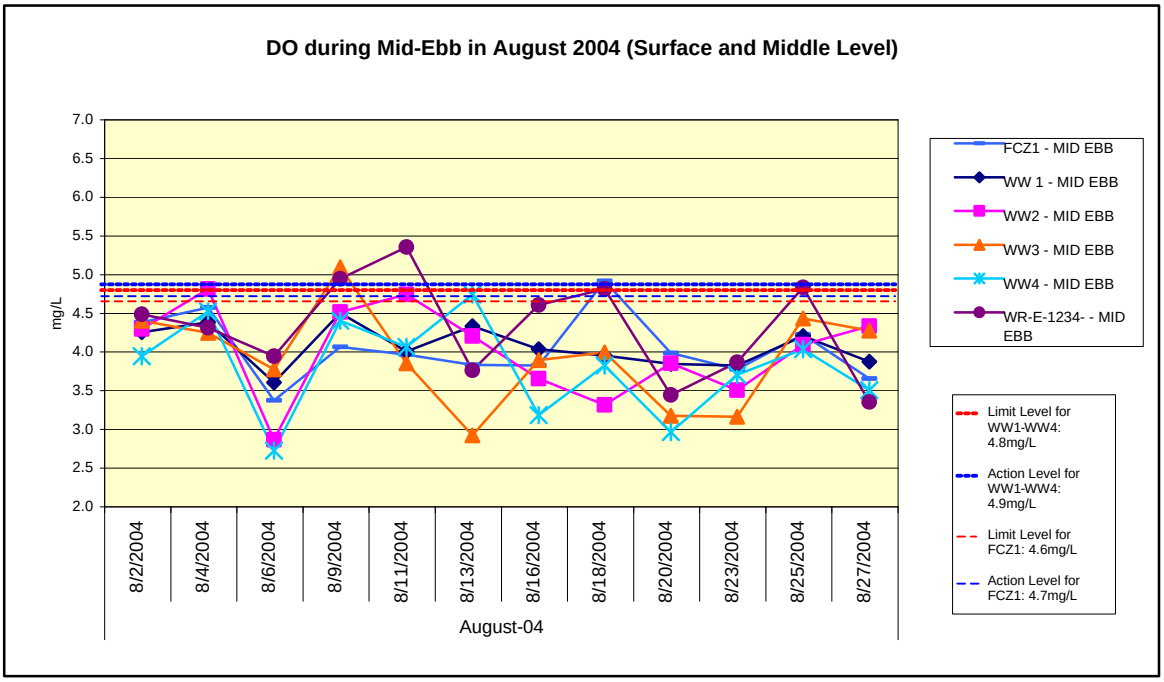


Figure 6-6 DO at surface and middle level during mid-flood in August 2004

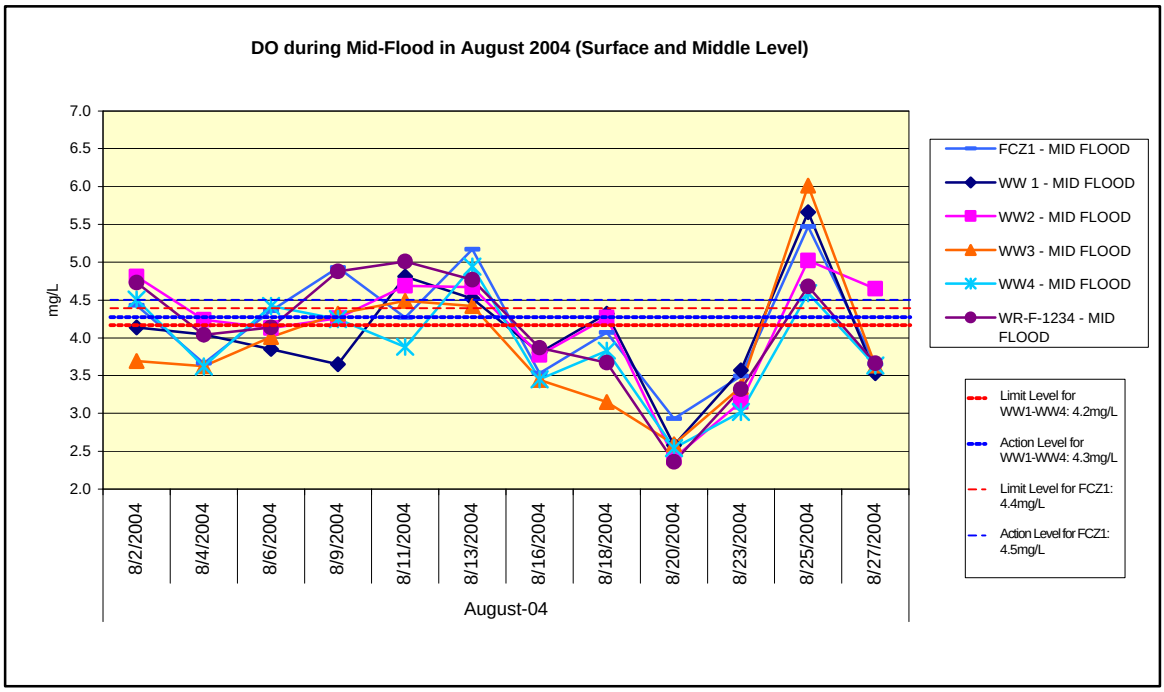


Figure 6-7 DO at bottom level during mid-ebb in August 2004

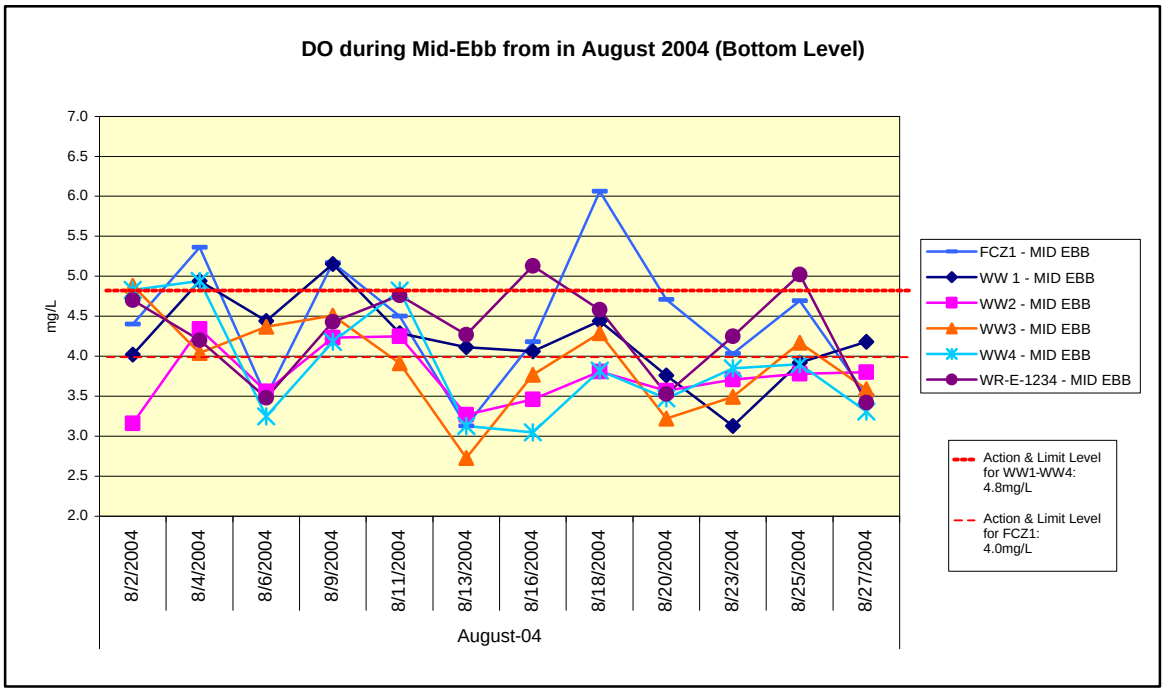
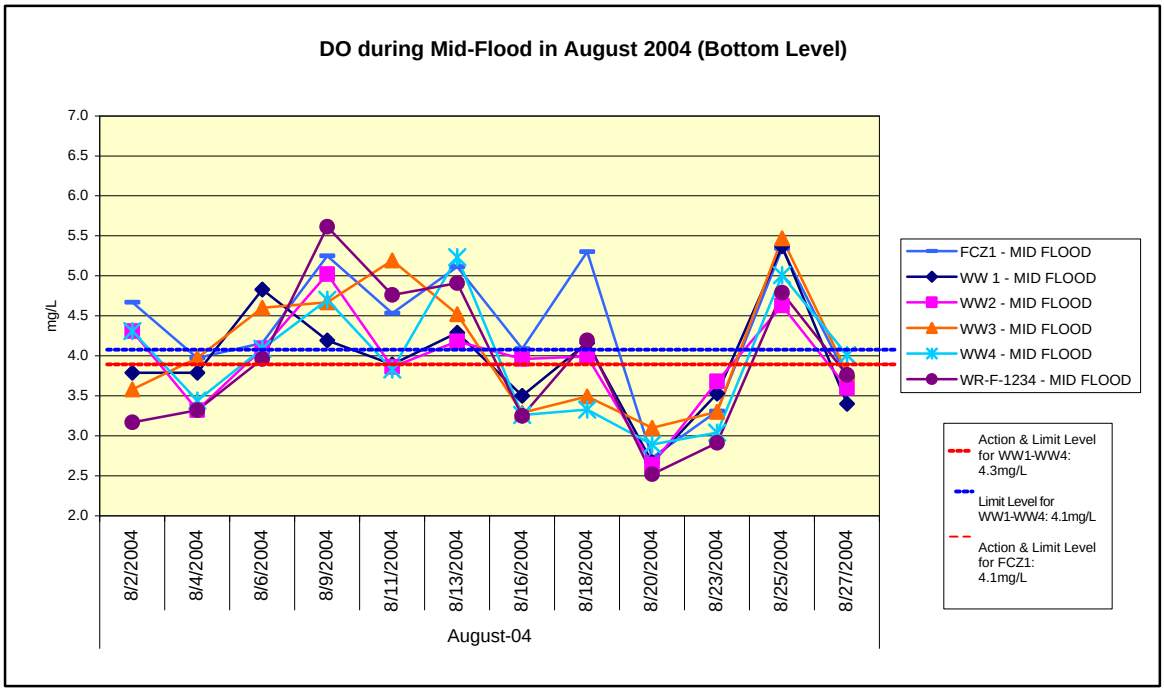


Figure 6-8 DO at bottom level during mid-flood in August 2004



There were 210 exceedances of DO (9 times of Actions Levels and 201 time of Limit Levels) and 5 exceedances of SS (3 times of Action Levels and 1 time of Limit Levels) recorded during the marine water monitoring period in August 2004. No exceedance of Tby was recorded. A thorough investigation had been triggered and detailed in Section 9.2.3 to reveal the causes of exceedances.

7. LANDSCAPE AND VISUAL MONITORING AND AUDIT

A total of 26 times of landscape and visual monitoring and audits had been carried out on biweekly basis from February 2004 to January 2005 by a Registered Landscape Architect. No non-conformity regarding the landscape and visual issues was recorded.

8. IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

The CT had implemented various environmental mitigation measures as stipulated in the EIA Report[5], EM&A Manual and the environmental requirements as stipulated in the Contract Specification. The implementation status in the period from February 2004 to January 2005 is summarized in Appendix B.

9. ANNUAL SUMMARY, ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE RECORDS

9.1 Summary of Waste Disposal

A total of 309 loads of Construction & Demolition (C&D) waste had been disposed of at WENT Landfill in the period from February 2004 to January 2005. A total of 33,212 loads of C&D fill materials (Public Fill) had been disposed of at Public Filling Area in Tuen Mun by dump trucks in the period from February 2004 to January 2005. Table 9-1 summarises the number of loads that had been disposed of at Public Filling Area and Landfill in the period from February 2004 to January 2005.

Table 9-1 Waste disposal quantity in the period from February 2004 to January 2005

Month	Number of Loads to Landfill	Number of Loads to Public Filling Area
February 2004	10	1,034
March 2004	20	1,792
April 2004	24	2,168
May 2004	100	1,483
June 2004	11	1,494
July 2004	31	1,522
August 2004	23	1,909
September 2004	15	692
October 2004	18	1,106
November 2004	20	1,092
December 2004	17	1,126
January 2005	27	2,078
Total	316	17,496

No chemical waste was disposed of from February 2004 to January 2005.

9.2 Non-compliance Record

9.2.1 24-hour TSP Monitoring Results

- **24-hour TSP at WA6 on 9 March 2004**

24-hour TSP monitoring results measured at WA6 on 9 March 2004 was 228.1μg/m^3 , which exceeded the Action Level. There was no abnormal construction activity carried out near WA6 and no visible dust source was found during the 24-hour TSP monitoring period. As it was noticed that intensive burning of incense and candle occurred in the open space of Tin Hau Temple on the same day, this exceedance was highly probably not justified to the construction activities.

- **24-hour TSP at WA6 on 10 November 2004**

24-hour TSP monitoring results measured at WA6 on 10 November 2004 was 297.8μg/m^3, which exceeded the Limit Level. Neither abnormal construction activity was carried out close to WA6 nor visible dust source was observed from the nearby construction sites during the course of 24-hour TSP monitoring. There was only utility pipe laying works and final ground compacting works taking place in Seawall B near Tin Hau Temple during the monitoring period. The exceedance was caused by high background dust level as well as the large scale of incense and candle burning at the open space of Tin Hau. The exceedance was not justified as non-compliance. Nevertheless, the Contractor had been advised to properly implement the dust suppression measures.

- **24-hour TSP at WA11 on 10 November 2004**

24-hour TSP monitoring results measured at WA11 on 10 November 2004 was 242.2μg/m^3, which exceeded the Action Level. The site staff's had checked the works schedule and found that there was no heavy construction activity carried out close to WA11. There was only drainage works in front of the strip of restaurants opposite Lido Garden and road diversion preparations in front of RERW70 during the monitoring period. The exceedance was not justified as non-compliance. Nevertheless, the Contractor had been advised to properly implement the dust suppression measures.

- **24-hour TSP at WA11 on 27 November 2004**

24-hour TSP monitoring results measured at WA11 on 27 November 2004 were 220.1μg/m^3, which exceeded the Action Level. As confirmed by the Contractor, rock breaking and dust generating activities were conducted during the monitoring period. Dust suppression measures were introduced and additional monitoring was conducted on 6, 7 and 8 December 2004. No further exceedance was found in these monitoring days.

9.2.2 Complaints on Construction Noise

There were four documented complaints regarding construction noise which had triggered the Action Level of construction noise.

- **Construction Noise Complaints received on 20 February 2004**

Three complaints (Log no. 123) was received on 20 February 2004 regarding the noise generated from the temporary steel plates on road pavement near Blocks 1 and 2 of Hong Kong Garden. The condition of the decking plate was checked on 23 February 2003 and was repaired during off peak hours on 24 February 2004. Regular inspection was followed and adjacent works was expedited to allow early road diversion for permanent removal of the steel plates.

- **Construction Noise Complaint on 9 July 2004**

Complaint log no. 139 was received on 9 July 2004 regarding noise arising from prescribed construction works (PCW) or works using power mechanical equipment (PME) at night (1900-2300) on 3 July 2004 near Seawall B area opposite to Hong Kong Garden. After an investigation, it was found that there was no evidence to have undertaken any PCW and PME during the concerned period.

- **Construction Noise Complaint on 10 July 2004**

Complaint log no. 140 was received on 10 July 2004 regarding noise arsing from rock breaking near Sea Crest Villa Phase 3. . After an investigation, it was found that there was no evidence of any rock breaking activities undertaken in the vicinity of Sea Crest Villa Phase 3 during the concerned period.

- **Construction Noise Complaint on 5 January 2005**

Complaint log no. 172 was received on 5 January 2005 regarding the daytime construction noise started at 7:30am over the past few days. Contractor clarified with the complainant that construction work at 7:30am was within regulations guidelines. However, the contractor still agreed to arrange noisy activities to be carried out after 8:00am.

9.2.3 Marine Water Quality Monitoring Results

There were occasional exceedances on A/L Levels of DO and SS of marine water quality at different impact monitoring stations on different monitoring days in August 2004. No exceedance of Tby was recorded in August 2004.

210 exceedances of DO (9 times of Actions Levels and 201 time of Limit Levels) were recorded in the monitoring programme from 2 August 2004 to 27 August 2004 (i.e. 12 monitoring days). It was believed that the majority of exceedances of DO were possibly not justified to the sand placing works, taking into account the very short period and intermittent nature of works (3 consecutive days on 5-7 August 2004 and 13 August 2004). In addition, there was no identifiable source of discharge from the sites, either point or non-point source, which may affect the DO levels within the monitoring areas. In fact, such exceedances would likely be caused by elevated water temperature (recorded as about 27-32°C), which reduced the solubility of DO in water throughout the monitoring period in summer.

5 exceedances of SS (3 times of Action Levels and 1 time of Limit Levels) were recorded in the same monitoring programme. It was concluded that the exceedances of SS on 13 August 2004 was justified to the sand placing works, based on the

information from complaint no 149. However, the implementation of proper mitigation measures promptly rectified the problem as illustrated by the resumption to compliance SS levels for the subsequent monitoring. As no sand placing work or other marine works have been carried out, other exceedances of SS on 20 and 25 August 2004 were not considered as caused by construction work.

9.3 Complaint Record

A total of 9 environmental complaints were received from February 2004 to January 2005. Four of them were concerned about construction noise; two regarded daytime construction noise; and the other two regarded construction in restricted hours. One the complaints were about marine pollution, one was regarding accumulation of foul water in trench. The remaining are complaints of the management of general refuse in the site. All had been solved after investigation.

9.4 Notification of Summons and Successful Prosecutions

The Contractor had convicted an offence on 29 May 2003 regarding the discharge of effluent on 6 January 2003 with BOD and E. coli exceeding the maximum standards as stated in the Discharge Licence.

9.5 Comparison of EM&A Data with EIA Predication

Apart from occasional exceedance of air quality and one exceedance of marine water quality monitoring, the environmental monitoring data (i.e. air quality and construction noise) collected in the period from February 2004 to January 2005 were generally in line with the prediction of the EIA Report as the monitoring results were within the acceptable levels as stipulated in the EIA Report. No marine water assessment/modelling was undertaken during the EIA stage and therefore, comparison with the marine water quality monitoring results was not feasible.

9.6 Review of Environmental Monitoring Methodology and EM&A Programme

The environmental monitoring methodologies and procedures were regularly reviewed by the ET. No modification to the existing monitoring methodology was recommended.

The EM&A programme and the implementation of the mitigation measures were successful in the period from February 2004 to January 2005.

9.7 Environmental Acceptability of the Project

Even though occasional exceedances of air quality and marine water quality were detected, the environmental monitoring results had indicated that the operation of the site activities by the CT in the period from February 2004 to January 2005 in general comply with the relevant environmental requirements.

10. REFERENCES

[1] Mouchel Halcrow Joint Venture. 2001. Castle Peak Road Improvement between Area 2 and Ka Loon Tsuen, Tsuen Wan West Contract No. HY/99/18, Environmental Monitoring & Audit Manual.

[2] Ove Arup & Partners Hong Kong Limited. July 2001. Contract No. HY/99/18 Castle Peak Road Improvement between Shem Tseng and Ka Lung Tsuen, Tsuen Wan, Environmental Baseline Monitoring Report (Second Issue).

[3] Mouchel Halcrow Joint Venture. 2001. D&C Consultancy Agreement No. CE 1/96 Castle Peak Road Improvement between Area 2 and Ka Loon Tsuen, Tsuen Wan, Tree Survey Report & Tree Felling Application Revision D.

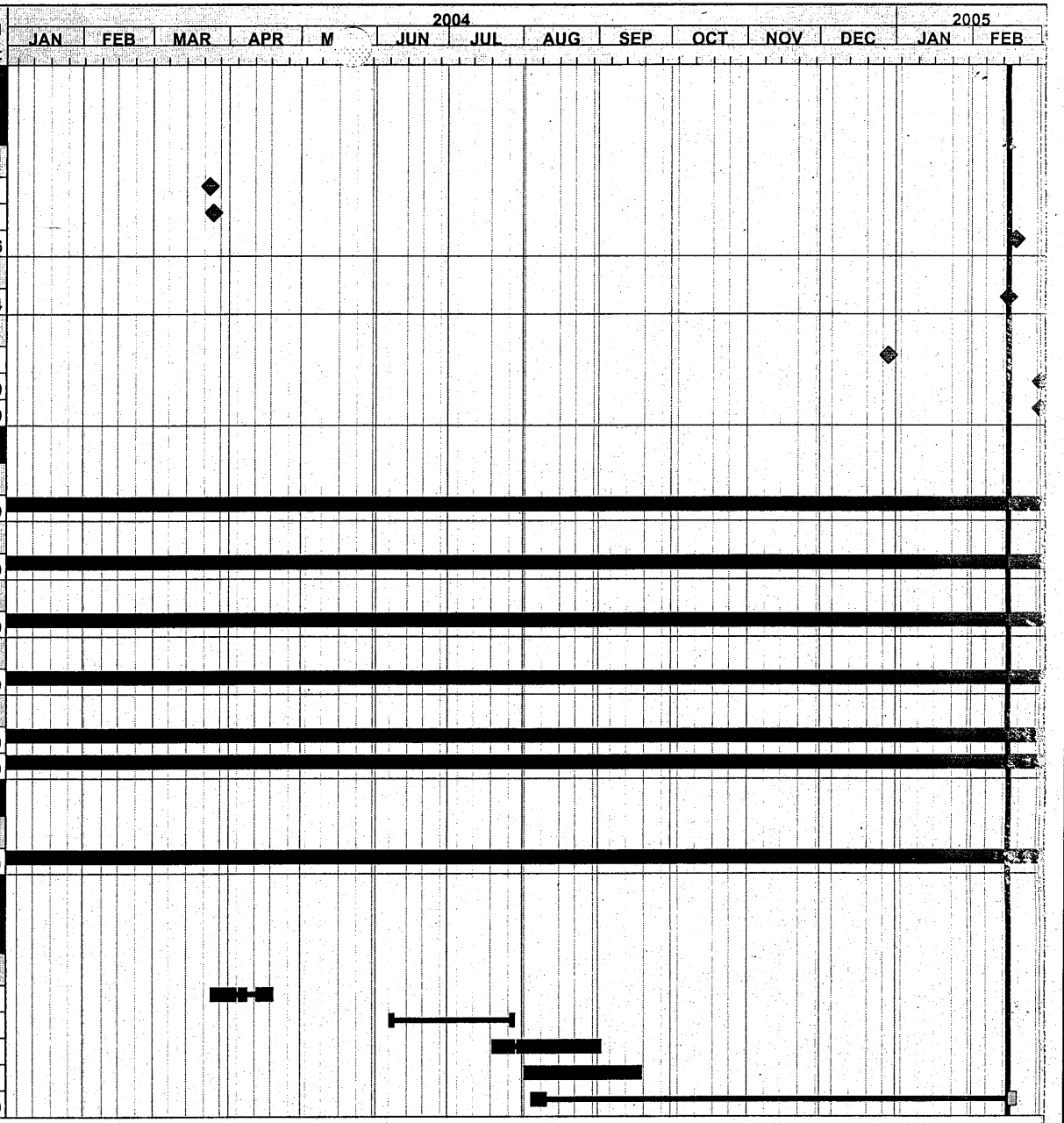
[4] Mouchel Halcrow Joint Venture. Contract No. HY/99/18 March 2002. D&C Consultancy Agreement No. CE 1/96 Castle Peak Road Improvement between Area 2 and Ka Loon Tsuen, Tsuen Wan, Supplementary Tree Survey Report & Tree Felling Application Revision A.

[5] Maunsell Consultants Asis Ltd. 1996. Feasibility Study for Castle Peak Road Improvement between Ka Loon Tsuen and Yau Kom Tau, Final Report Volume 3 Environmental Impact Assessment.

APPENDIX A

Construction Programme

Activity ID	Activity Description	Orig Dur	Early Star	Early Finish	Total Float
CPR Improvement bet Sham Tseng & Ka Loon Tsuen					
Important Dates					
Key Dates					
00-SECVII	KDG - All Works in Portion W10 except Landscape	0		23MAR04A	
00-SECV	KDE - All Works bet CH2210-2300	0		25MAR04A	
00-SECVI	KDF - All Works except Landscape bet CH0900-1205	0		18FEB05*	-176
Portions Possession Dates					
00-AD0W2	Possession of Portion No. W2	0	16FEB05*		-44
Portions Handover Dates					
00-VD8D	Handover Portion No. 8D to Employer	0		28DEC04A	
00-VD6	Handover Portion No. 6 to Employer	0		28FEB05*	0
00-VD7	Handover Portion No. 7 to Employer	0		28FEB05*	0
1. Preliminaries					
Planning & Programming					
01-0108	Maintain Programming & Submit Progress Reports	1,236	24NOV01A	10AUG05	0
Waste Management					
01-1166	Implement & Monitor WMP	1,171	21DEC01A	11JUN05	0
Maintenance of Traffic Flow					
01-1153	Maintain Traffic Flow	1,171	24NOV01A	11JUN05	0
Environmental Monitoring & Audit					
01-11702	Implement & Maintin Impact Monitor & Audit	1,601	08MAR02A	10AUG06	0
Interfacing and Coordination					
01-1173	Coordination/Integration with Interfacing Works	1,171	01DEC01A	11JUN05	0
01-1174	Provide Reasonable Access to Other Contractors	1,171	01DEC01A	11JUN05	0
16. Site Safety					
Safety Management System					
16-1612	Implement & Maintain Safety Management System	1,151	14DEC01A	11JUN05	0
CPR from Chainage 0+900 to Chainage 1+870					
1. Preliminaries					
Proposed Utility Works					
01-1202	Proposed Gasmain on E/B C,way CH1570-1650	23	25MAR04A	19APR04A	
01-12024	Proposed HT on E/B C,way CH1550-1660	8	07JUN04A	28JUL04A	
01-12022	Pro. Gasmain on E/B C,way CH1500-1570, 1650-1700	23	20JUL04A	02SEP04A	
01-12026	Proposed CLP on E/B C,way CH1500-1700	8	02AUG04A	18SEP04A	
01-120256	Proposed CATV on E/B C,way CH1800-1860	8	05AUG04A	19FEB05	90



Start Date 23NOV01
Finish Date 07DEC06
Data Date 16FEB05
Run Date 24FEB05 10:56

Early Bar
Progress Bar
Critical Activity

W38C

Sheet 1 of 18

Maeda Corporation

HY/99/18 - Castle Peak Road Improvement

Extract for period from 01/01/04 to 28/02/05

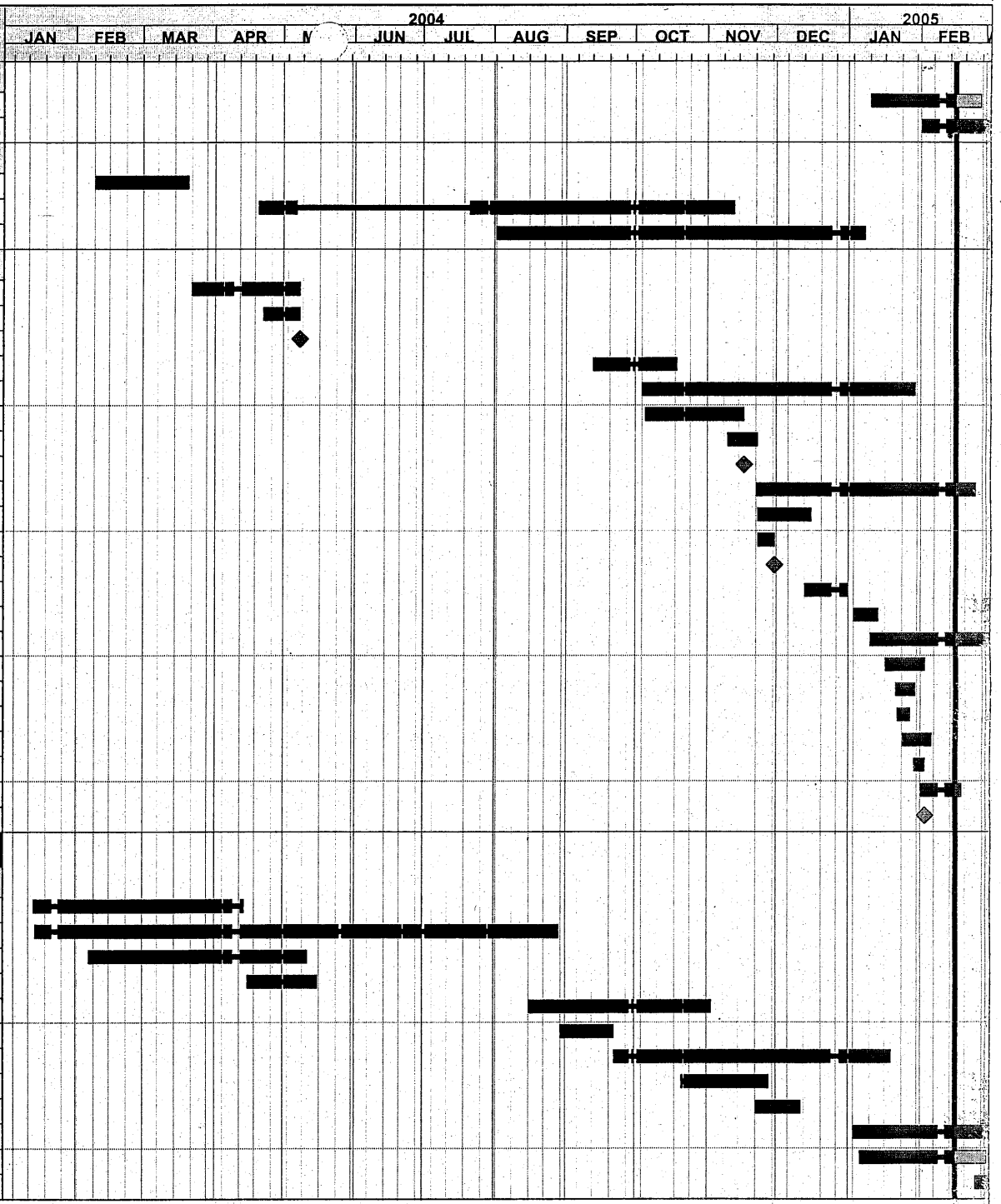
MAEDA

progress as of 15/02/05

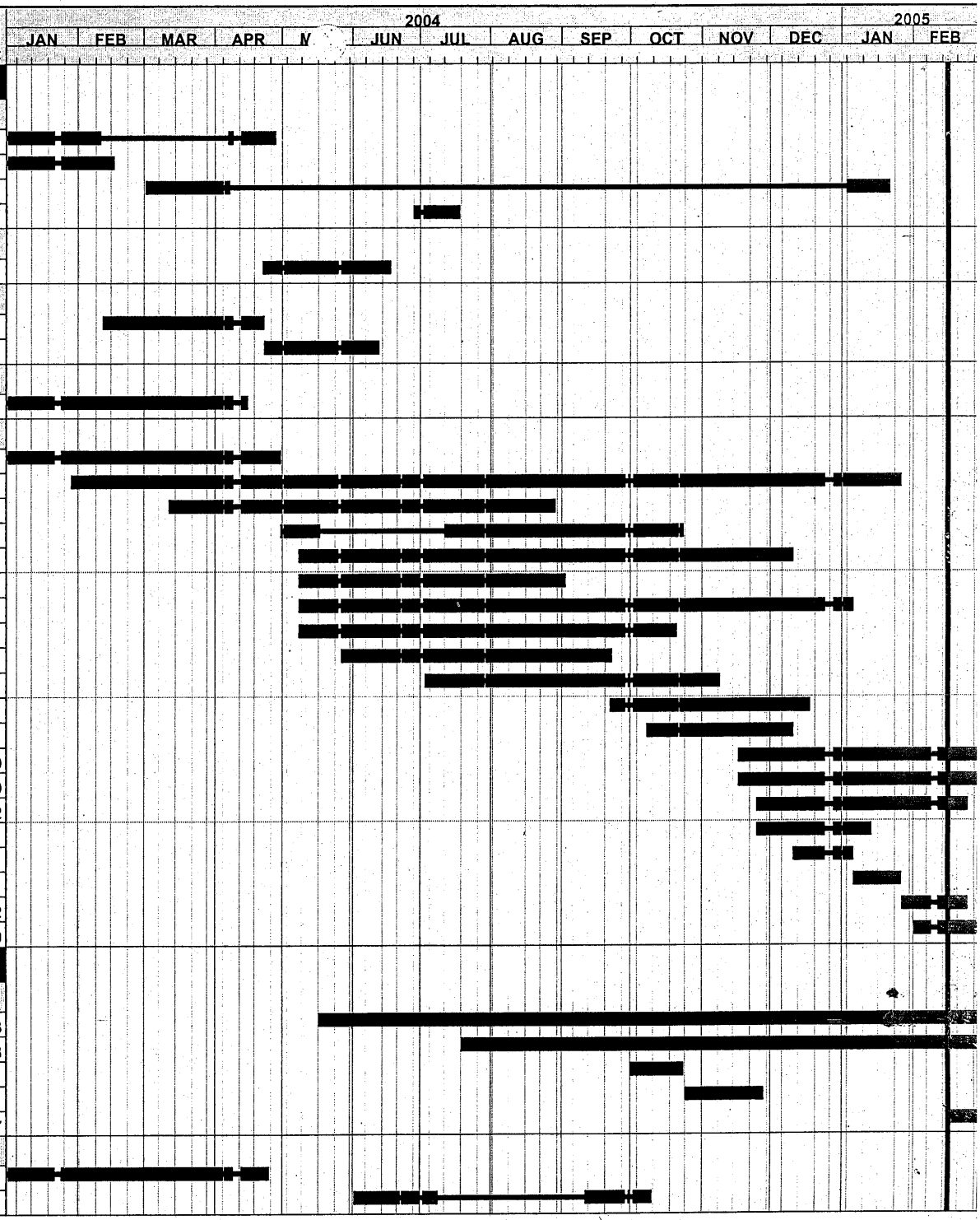
Date	Revision	Checked	Approved
30JUL03	revision 01		
17SEP03	revision 02		
22MAR04	revision 03		
28SEP04	revision 03A		
05JAN05	revision 03B		

Activity ID	Activity Description	Orig Dur	Early Star	Early Finish	Total Float
Proposed Utility Works					
01-121923	CLP Cross Rd. Ducts at E/B CH1470-1550	6	23AUG04A	18SEP04A	
01-120255	Additional HKT at E/B CH1770-1870	12	30AUG04A	20NOV04A	
01-1219	Proposed NWT on E/B C,way CH1470-1510	6	03SEP04A	04SEP04A	
01-121921	Proposed HT on E/B C,way CH1470-1550	6	03SEP04A	04SEP04A	
01-12073	CATV Cross Rd. Ducts at R8	6	15SEP04A	18SEP04A	
01-1220	CLP Cross Rd. duct at Access Rd R8	2	25OCT04A	25OCT04A	
01-12091	Proposed HKT on W/B C,way CH1464-1550	5	08NOV04A	10NOV04A	
01-12093	Proposed HKBN on W/B C,way CH1464-1550	5	08NOV04A	10NOV04A	
01-12092	Proposed CLP on W/B C,way CH1464-1550	5	09NOV04A	13NOV04A	
01-120342	CLP Cross Rd. Ducts at E/B CH1005	6	10NOV04A	11NOV04A	
01-12034	Proposed CLP on E/B C,way CH0960-1060	6	11NOV04A	16NOV04A	
01-1209	Proposed CATV on W/B C,way CH1464-1550	5	15NOV04A	20NOV04A	
01-12023	Gasmain Connection for E/B CH1480-1700	6	17NOV04A	26NOV04A	
01-12032	Proposed HT on E/B C,way CH0960-1060	2	17NOV04A	18NOV04A	
01-12075	CATV Cross Rd. Ducts at W/B CH1502	4	17NOV04A	20NOV04A	
01-121935	HKT Cross Rd. Ducts at W/B CH1810	4	22NOV04A	24NOV04A	
01-12033	Proposed HKT on W/B C,way CH0960-1075	6	07DEC04A	31DEC04A	
01-12062	Proposed HKBN on W/B C,way CH960-1075	6	07DEC04A	31DEC04A	
01-120652	CLP Cross Rd. Ducts at W/B CH1110	4	10DEC04A	11DEC04A	
01-12063	Proposed CLP on W/B C,way CH0960-1075	6	14DEC04A	07JAN05A	
01-12038	Proposed HKT on W/B C,way CH1075-1205	6	20DEC04A	29JAN05A	
01-120642	Proposed HKBN on W/B C,way CH1075-1205	6	20DEC04A	29JAN05A	
01-12065	Proposed CLP on W/B C,way CH1075-1205	6	28DEC04A	05FEB05A	
01-1205	Proposed Gasmain on E/B C,way CH1350-1480	30	08JAN05A	03FEB05A	
01-12039	Proposed CLP on E/B C,way CH1060-1205	8	10JAN05A	05FEB05A	
01-1206	Proposed CATV on W/B C,way CH0960-1075	6	10JAN05A	15JAN05A	
01-120362	Proposed HT on E/B C,way CH1060-1100	4	24JAN05A	28JAN05A	
01-12064	Proposed CATV on W/B C,way CH1075-1205	6	01FEB05A	17FEB05	-141
3. Roadworks					
Earthworks					
03-30140	Add. retaining wall at House no. 6; VO 214	119	18SEP03A	30APR04A	
03-3011	BAckfill behind RER01; CH1464 to 1554	30	26JUL04A	03NOV04A	
03-3008	Backfill behind RW01; CH1075 to 1205	30	02AUG04A	22NOV04A	
03-3009	Backfill behind RW01; CH1205 to 1350	30	16SEP04A	11DEC04A	
03-3010	Backfill behind RW01; CH1350 to 1464	30		25JAN05A	
Drainage Works					
03-3136	Drainage along E/B C'way bet CH1100-1280	26	23SEP03A	27MAR04A	
03-3129	Drainage along E/B C'way bet CH1050-1105	18	04MAR04A	27MAR04A	
03-3133	Drainage along E/B C'way bet CH1575-1700	38	25MAR04A	10JUL04A	
03-3134	Drainage at Access Road R8	30	10MAY04A	08JAN05A	
03-31282	Drainage along E/B C'way bet CH0980-1000	12	17MAY04A	12JUN04A	
03-3123	Drainage along W/B C'way bet CH1464-1550	17	02AUG04A	24NOV04A	
03-3135	Drainage along W/B C'way bet CH1075-1205	26	11OCT04A	19JAN05A	
03-3128	Drainage along E/B C'way bet CH1000-1050	12	25OCT04A	09NOV04A	

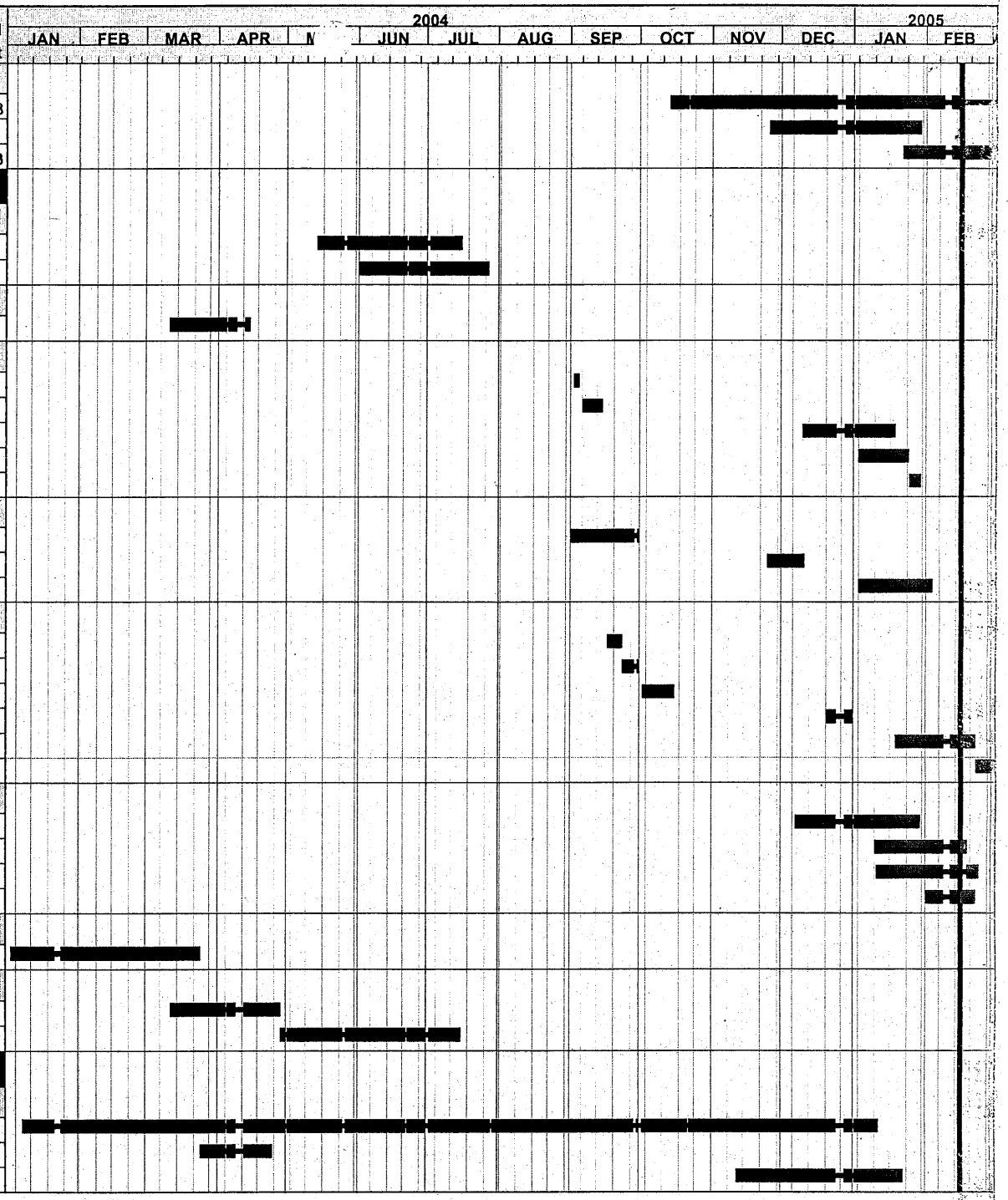
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
Drainage Works					
03-31312	Drainage along E/B C'way bet CH1464-1550	20	10JAN05A	26FEB05	14
03-3121	Drainage along W/B C'way bet CH1205-1464	44	01FEB05A	04APR05	-80
Pipe Works (Local Supply Watermains)					
03-3150	Pipe Works on E/B C'way bet CH1185-1280	20	09FEB04A	20MAR04A	
03-3153	Pipe Works on E/B C'way bet CH1500-1700	21	20APR04A	12NOV04A	
03-3154	Pipe Works at Access Road R8	20	02AUG04A	07JAN05A	
Road Works					
03-3024	Temp Rdworks at E/B C'way (CH1070-1350)	30	22MAR04A	07MAY04A	
03-32133	Construct rd pave; E/B CH1100-1205	11	22APR04A	07MAY04A	
03-3025	Divert Traffic to E/B C'way CH1070 -1350	0		07MAY04A	
03-3217	Formattion/sub-base/footpath ; E/B CH1550-1700	12	13SEP04A	18OCT04A	
03-3218	Lay sub-base, kerbs & edgings; Access Rd R8	12	04OCT04A	29JAN05A	
03-32172	Road Pave to Base Course; E/B CH1550-1700	6	05OCT04A	16NOV04A	
03-3213	Formatin/sub-base, kerbs; E/B CH0950-1050	12	10NOV04A	22NOV04A	
03-3106	Divert Traffic to E/B C'way CH1550 -1700	0		16NOV04A	
03-32182	Construct rd pave & f/p; Access Rd R8	12	22NOV04A	24FEB05	-26
03-3026	Slew traffic towards North at CH 1350-1450	10	23NOV04A	15DEC04A	
03-32132	Construct rd pave & f/p; E/B CH0950-1050	7	23NOV04A	29NOV04A	
03-32135	Divert Traffic to E/B C'way CH960-1100	0		29NOV04A	
03-31145	Const. & Divert road to const. Outfall B(middle)	14	13DEC04A	31DEC04A	
03-32130	Break the temp. footpath at E/B CH1060-1205	12	03JAN05A	13JAN05A	
03-32180	Demolish eixst. RW2a & Install Gate,Bay Side Vil	39	10JAN05A	22MAR05	-40
03-31140	Construct kerbs/ftp; W/B CH960-1075	10	17JAN05A	02FEB05A	
03-31144	Construct rd pave & f/p; W/B CH1075-1205	10	21JAN05A	29JAN05A	
03-31142	Formation, Sub-base; W/B CH1150-1205	6	22JAN05A	27JAN05A	
03-32131	Lay sub-base, kerbs/footpath; E/B CH1100-1205	12	24JAN05A	05FEB05A	
03-31105	Rd finishes, marking & lighting; W/B CH0960-1205	4	29JAN05A	02FEB05A	
03-32134	Rd finishes, marking & lighting; E/B CH0950-1205	12	01FEB05A	18FEB05	-142
03-31143	Divert Traffic to W/B Perma C'Way CH1075-1205	0		02FEB05A	
5. Footbridges					
Footbridge FB12					
05-531122	Pile tests at North Support for FB12; 17 piles	8	14JAN04A	13APR04A	
05-53102	Piling Work at South Support for FB12; 13 piles	109	15JAN04A	28AUG04A	
05-5330	North Pile caps for FB12; 8 Nos.	40	07FEB04A	11MAY04A	
05-53301	North Columns 0.5m below F.G.L. at FB12	20	16APR04A	15MAY04A	
05-53302	North Columns and Column head for FB12; 10 Nos.	50	16AUG04A	02NOV04A	
05-53103	Demobilize Piling Rig & Pile Test; FB12 (S)	18	30AUG04A	21SEP04A	
05-5320	South Pile caps for FB12; 6 Nos.	40	22SEP04A	19JAN05A	
05-5360	Construct Ramp for FB12 (North)	60	21OCT04A	27NOV04A	
05-53604	Construct Stairway for FB12 (North)	30	22NOV04A	11DEC04A	
05-53202	South Columns & Column head For FB12; 9 Nos.	50	03JAN05A	10MAR05	-83
05-53606	Erect Steelwork & Roofing for FB12 (North)	30	06JAN05A	01MAR05	7
05-5350	Construct Ramp for FB12 (South)	60	25FEB05	10MAY05	-83



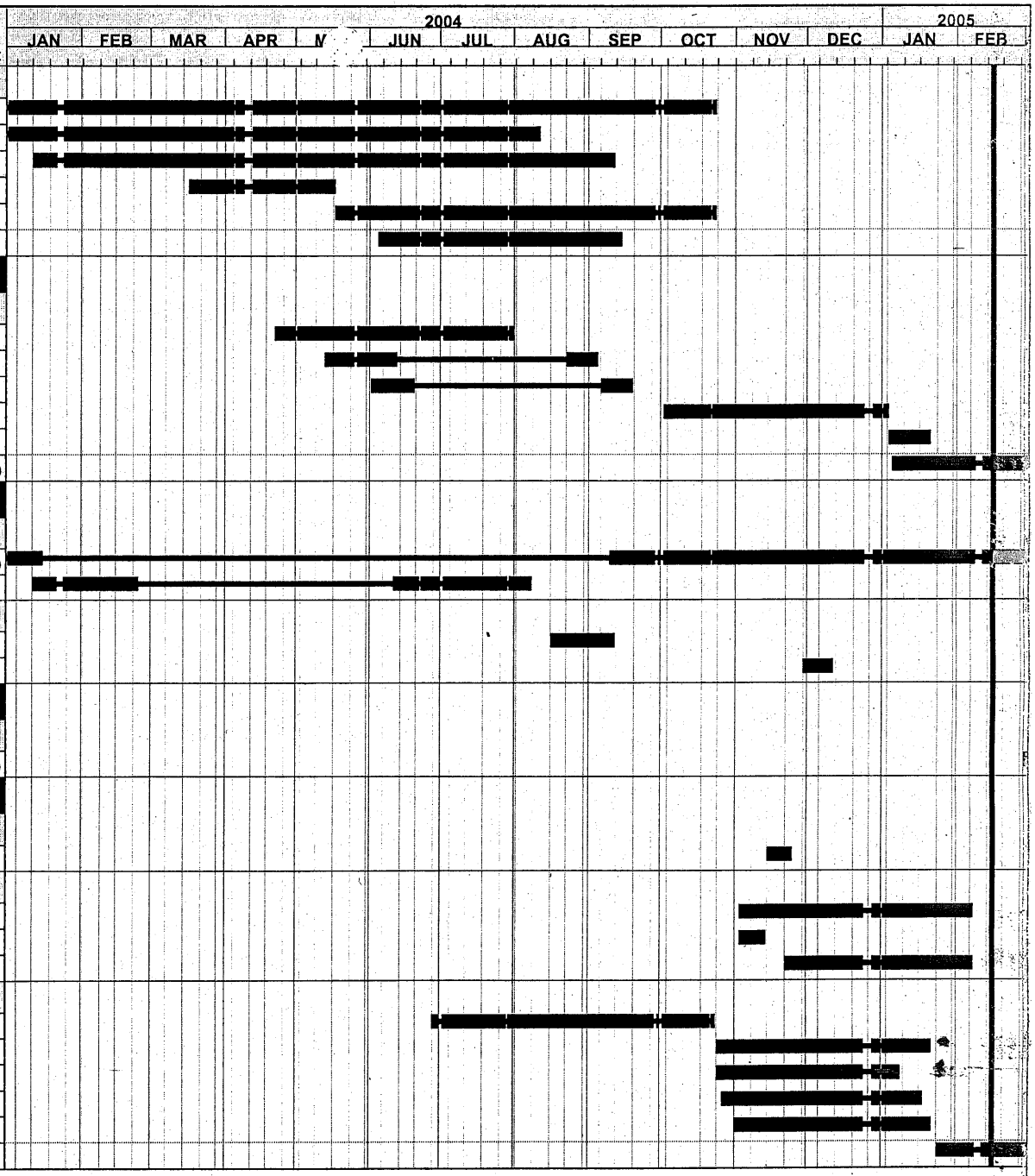
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
6. Retaining Walls					
Bored Pile Wall BPRW03					
06-62232	Construct Facing Wall for BPRW03; 1 to 30	45	24NOV03A	27APR04A	
06-62233	Construct Caping Beam for BPRW03; 1 to 30	30	19DEC03A	04MAY04A	
06-62235	Fill & Trim Slope/Construct U-Channel; 1 to 30	30	02MAR04A	21JAN05A	
06-62260	U-channel on F/P at BPRW03	15	28JUN04A	17JUL04A	
Bored Pile Wall BPRW60					
06-62660	U-channel on F/P at BPRW60	15	22APR04A	17JUN04A	
Reinforced Earth Wall 01					
RE0116	Mass concrete/Install panel & mesh/Backfill	36	12FEB04A	22APR04A	
RE0118	L-shaped wall & Plinth	40	23APR04A	12JUN04A	
Reinforced Earth Wall 60					
RE6014	Backfill/Trim slope/Drainage & Maint. stair	24	10NOV03A	15APR04A	
L-Shaped Walls					
06-6201	Construct Slope Replacing Wall RW74; VO 206;East	66	12DEC03A	29APR04A	
06-6106	Retaining Wall RW01 (CH1340-1390); 5 bays	297*	29JAN04A	26JAN05A	
06-61062	Construct base/wall RW-01; bays 41-45	42	12MAR04A	28AUG04A	
06-6202	Construct Slope Replacing Wall RW74; VO 206;West	30	30APR04A	23OCT04A	
06-6101	Retaining Wall RW01 (CH1075-1205); 13 bays	179*	08MAY04A	10DEC04A	
06-61011	Excavate/temp soil nailing for bays 14-26	40	08MAY04A	02SEP04A	
06-6102	Retaining Wall RW01 (CH1205-1340); 14 bays	198*	08MAY04A	05JAN05A	
06-61021	Excavate/temp soil nailing for bays 27-40	91	08MAY04A	20OCT04A	
06-61012	Construct base/wall for bays 14-26	60	27MAY04A	22SEP04A	
06-61022	Construct base/wall for bays 27-40	89	03JUL04A	08NOV04A	
06-61031	Excavate/temp soil nailing for bays 46-52	30	22SEP04A	17DEC04A	
06-61014	Construct plinth for bays 13-32	30	08OCT04A	10DEC04A	
06-6105	Retaining Wall RW01 (CH1554-1680); 13 bays	148*	17NOV04A	20MAY05	-80
06-61051	Excavate/temp soil nailing for bays 53-65	100	17NOV04A	19MAR05	-90
06-6103	Retaining Wall RW01 (CH1390-1463); 7 bays	73*	25NOV04A	24FEB05	-72
06-61032	Construct base/wall for bays 46-52	50	25NOV04A	13JAN05A	
06-61024	Construct plinth for bays 33-40	16	11DEC04A	05JAN05A	
06-61064	Construct plinth for bays 41-45	10	06JAN05A	26JAN05A	
06-61034	Construct plinth for bays 46-52	14	27JAN05A	24FEB05	-72
06-61052	Construct base/wall for bays 53-65	80	01FEB05A	10MAY05	-90
7. Noise Structures					
Procurement of Noise Barrier					
07-7060	Fabrication of Steel Members for Noise Barrier	120	17MAY04A	07MAR05	-18
07-7080	Delivery of Steel Members for Noise Barrier	90	19JUL04A	17MAR05	-18
07-7040	Prepare/Submit Shop Drawings for NM03	21	01OCT04A	23OCT04A	
07-7050	ER Review/Approve Shop Drawings for NM03	30	25OCT04A	27NOV04A	
07-7070	Fabrication of Panels for Noise Barrier	100	16FEB05	26MAY05	-57
Noise Mitigation No. 01					
07-71112	Foundation of NM01 (N); CH1205-1300 (bays 1-7)	50	04DEC03A	24APR04A	
07-7113	Foundation of NM01 (N); CH1350-1405 (bays 11-14)	50	02JUN04A	09OCT04A	



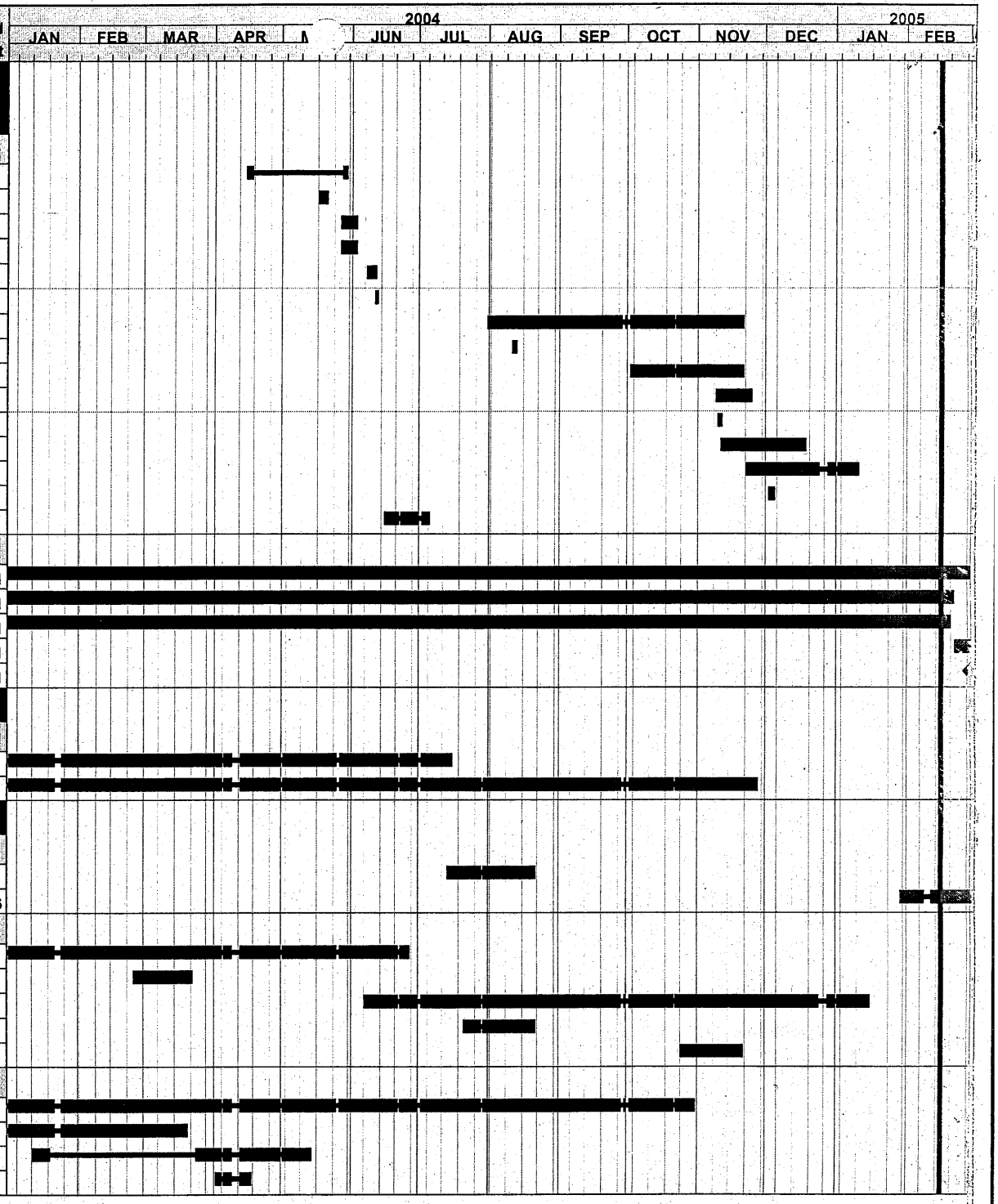
Activity ID	Activity Description	Orig Dur	Early Sta	Early Finish	Total Float
Noise Mitigation No. 01					
07-7114	Erect Steel Members at North Supports for NM01	30	14OCT04A	13JUL05	-83
07-7122	Foundation of NM01 (S); CH1205-1320 (bays 15-22)	50	26NOV04A	29JAN05A	
07-7121	Foundation of NM01 (S); CH1320-1405 (bays 23-28)	45	22JAN05A	09MAR05	-73
8. Culverts and Outfalls					
Culvert-Outfall AA					
08-81502	Exc. Culvert-Outfall AA (within Exist CPR)	6	14MAY04A	15JUL04A	
08-815022	const. Culvert-Outfall AA (within Exist CPR)	12	01JUN04A	27JUL04A	
Culvert-Outfall AB					
08-81022	Const. Culvert-Outfall AB (the remain. portion)	12	11MAR04A	14APR04A	
Culvert-Outfall B					
08-8202	Excavate Culvert-Outfall B (South of Exist CPR)	6	03SEP04A	04SEP04A	
08-82022	1.5m conc. pipe/surround; Outfall B (South)	12	06SEP04A	14SEP04A	
08-82024	1.5m Cascade at Outfall B outside RW01	12	10DEC04A	18JAN05A	
08-8203	Excavate Culvert-Outfall B (Within Exist CPR)	12	03JAN05A	24JAN05A	
08-82032	Const. Culvert-Outfall B (middle) & backfill	6	25JAN05A	29JAN05A	
Culvert-Outfall CA					
08-8302	Excavate Culvert-Outfall CA(South)	6	01SEP04A	30SEP04A	
08-83022	Construct manhole SMHCA3 at Outfall CA	6	25NOV04A	10DEC04A	
08-83024	1.2m Concrete & DI pipes with concrete surround	10	03JAN05A	03FEB05A	
Culvert-Outfall C					
08-8402	Excavate Culvert-Outfall C (South of Exist CPR)	6	17SEP04A	23SEP04A	
08-84021	1.5m DI pipes with concrete surround	6	24SEP04A	30SEP04A	
08-84022	Construct manhole SMHC3 at Outfall C	10	02OCT04A	15OCT04A	
08-84024	1.5m Concrete with concrete surround	10	20DEC04A	31DEC04A	
08-84028	Rock breaking for Step Channel; Outside RW01	10	19JAN05A	22FEB05	-41
08-84029	1.5m DI pipe/Step Channel; Outside RW01	10	23FEB05	05MAR05	-41
Culvert-Outfall CB					
08-81602	Exc. Culvert-Outfall CB (South of RW01)	6	07DEC04A	29JAN05A	
08-81603	Exc. Culvert-Outfall CB (Middle Portion)	6	10JAN05A	18FEB05	-71
08-816032	Const. Culvert-Outfall CB (Middle Portion)	12	11JAN05A	23FEB05	-71
08-816022	Const. Culvert-Outfall CB (South of RW01)	21	01FEB05A	22FEB05	-51
Culvert-Outfall D					
08-85022	Const. SMHD1/Cascade/Staircase/1500 pipe	18	03JAN04A	24MAR04A	
Culvert-Outfall E					
08-8601	Exc. Outfall E at E/B C'way/relocate LA Pipes	20	12MAR04A	28APR04A	
08-86012	Const. Culvert-Outfall E at E/B C'way	30	29APR04A	15JUL04A	
10. Geotechnical & Slope Works					
New Slope Nos. 4, 5 & 3					
10-10205	Excavation & Filling Works for Slopes 4, 5 & 3	24	08JAN04A	11JAN05A	
08-85021	Add. Mass Conc. Wall at toe of Slope 3; VO 253	24	25MAR04A	24APR04A	
10-102052	Drainage/Stabise Slopes 4, 5 & 3	18	12NOV04A	22JAN05A	



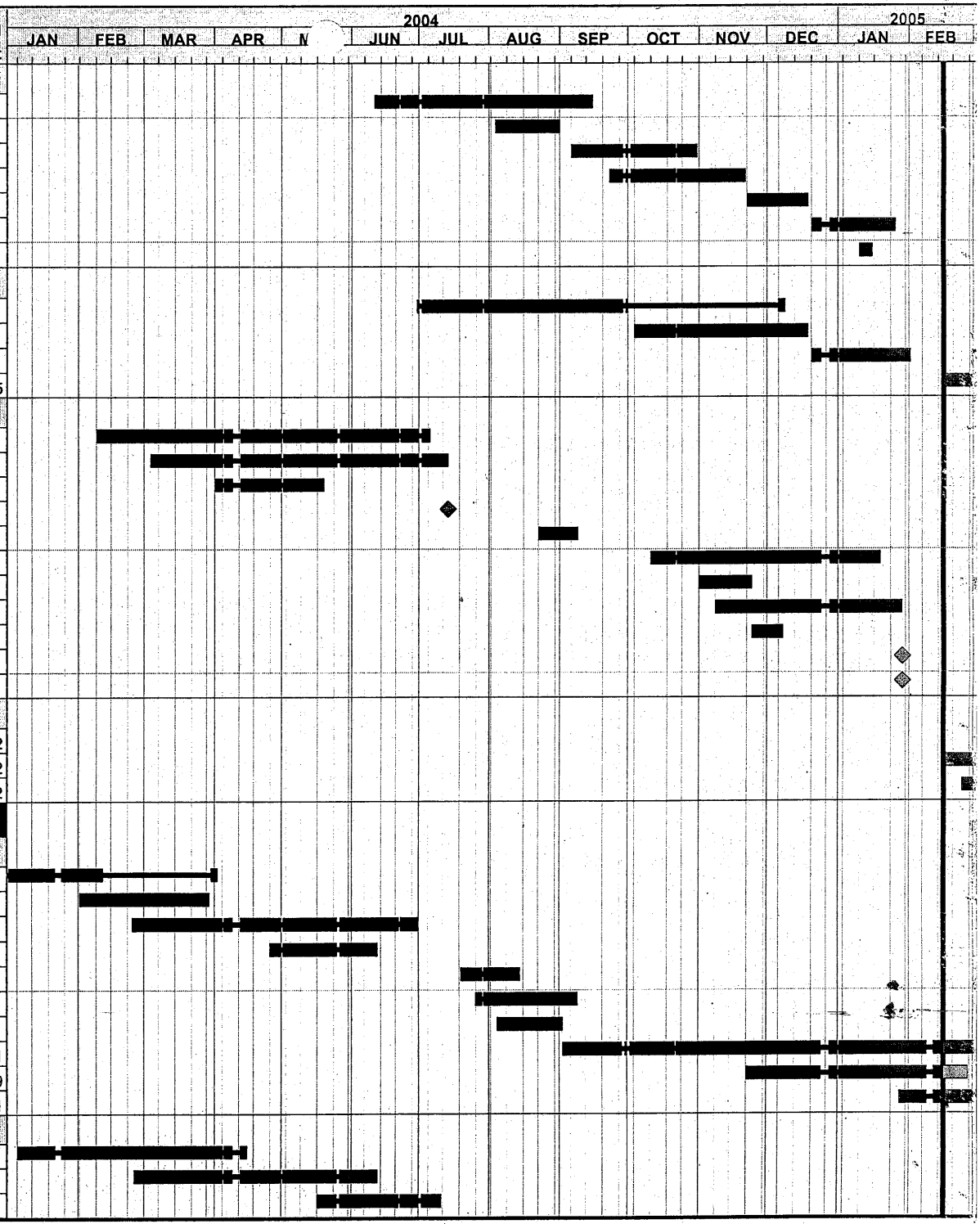
Activity ID	Activity Description	Orig Dur	Early Sta	Early Finish	Total Float
Existing Slope Works					
10-10210	Remedial Works to Slope No. C161 & C5	250*	17DEC03A	23OCT04A	
10-102102	Erect scaffolding/rock mapping	18	30DEC03A	11AUG04A	
10-102104	Install rock dowels/surface protection	30	12JAN04A	11SEP04A	
10-102106	Excavate & formation for retaining wall RW101	30	17MAR04A	17MAY04A	
10-102108	Construct retaining wall RW101/backfill	30	18MAY04A	23OCT04A	
10-102105	Remove scaffolding, temp. catch fence	20	05JUN04A	14SEP04A	
12. Entrusted Watermains					
Entrusted Water Mains					
12-1206	DN1000FW/Associated Wks (E/B C'way	16	22APR04A	31JUL04A	
12-12042	Const. Trough for T. watermain CH1464-1550	17	13MAY04A	04SEP04A	
12-1204	DN1000FW/Associated Wks (W/B C'way	17	02JUN04A	18SEP04A	
12-1208	DN1000FW/Associated Wks (W/B C'way	73	02OCT04A	03JAN05A	
12-12082	Pressure test for DN1000FW CH1000-1205)	12	04JAN05A	20JAN05A	
12-1202	DN1000FW/Associated Wks (W/B C'way	44	05JAN05A	01APR05	-80
13. Reprovisioning of LCSD & FEHD Facilities					
FEHD Facilities					
13-1340	Reprovision of Sitting Out Area at Ka Loon Tsuen	75	13SEP03A	04MAR05	79
13-1320	Construct RCP A	35	12JAN04A	07AUG04A	
Stairways					
13-1313	Construct Stairway ST03	30	16AUG04A	11SEP04A	
13-1312	Construct Stairway ST02A	12	29NOV04A	11DEC04A	
14. Landscape Works					
Landscape Softworks					
14-14115	L'scape Works in Slope No. 6	40	01MAR05*	20APR05	-90
18. Variation Works					
Additonal Drilholes for Ground Investigation					
VO-40102	5 Drillholes for G.I. at bays 61 to 64 of RW01	10	15NOV04A	24NOV04A	
Relocate Water Meters at Mui Yuen & Lung Sing					
VO-37400	Relocate Water Meters at Mui Yuen & Lung Sing	80*	03NOV04A	07FEB05A	
VO-37402	Lay new pipeline incl. cross road	6	03NOV04A	13NOV04A	
VO-37404	Water testing and connection	12	22NOV04A	07FEB05A	
Vehicular Parapets					
VO-24930	Additional Vehicular Parapets at CH 1465-1555	30	28JUN04A	23OCT04A	
VO-24910	Additional Vehicular Parapets at CH 1070-1205	74*	25OCT04A	21JAN05A	
VO-24911	Formation; Vehicular Parapets at CH 1070-1205	18	25OCT04A	08JAN05A	
VO-24912	Base; Vehicular Parapets at CH 1070-1205	18	27OCT04A	17JAN05A	
VO-24913	Wall/Backfil; Vehicular Parapets at CH 1070-1205	18	01NOV04A	21JAN05A	
VO-24920	Additional Vehicular Parapets at CH 1205-1465	50	24JAN05A	12APR05	-80



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
CPR from Chainage 2+210 to Chainage 3+010					
1. Preliminaries					
Proposed Utility Works					
01-1212	Proposed Gasmain C,way bet CH2830-2950	18	15APR04A	29MAY04A	
01-12124	Proposed CATV at E/B CH2830-2950	6	17MAY04A	20MAY04A	
01-12126	Proposed HKT at E/B CH2830-2950	6	27MAY04A	02JUN04A	
01-12129	Proposed HKBN at E/B CH2830-2950	6	27MAY04A	02JUN04A	
01-12150	Proposed Gasmain on W/B C,way CH2480-2550	4	08JUN04A	11JUN04A	
01-12125	Proposed HT at E/B CH2830-2950	6	11JUN04A	12JUN04A	
01-12151	Proposed Gasmain on W/B C,way CH2550-2780	12	31JUL04A	20NOV04A	
01-12105	Proposed CATV on E/B C,way crossing(1)	4	11AUG04A	12AUG04A	
01-1214	Proposed Gasmain on E/B C,way CH2300-2480	27	02OCT04A	20NOV04A	
01-1215	Connect Gasmain for CH 2300-2780	10	09NOV04A	24NOV04A	
01-12128	HKT Cross Rd. Ducts at W/B CH2990	4	10NOV04A	11NOV04A	
01-12112	Proposed CLP on W/B C,way CH2480-2800	14	11NOV04A	18DEC04A	
01-12127	Proposed CLP at W/B CH 2800-3010	11	22NOV04A	10JAN05A	
01-121125	CLP Cross Rd. Ducts at W/B CH2770	2	02DEC04A	04DEC04A	
01-12123	Proposed CLP at E/B CH 2830-2950	15		05JUL04A	
Programme for SA No. 3					
01-0110	Programme for SA No. 3	519*	29SEP03A	28FEB05	-1
01-0118	Prepare final SA	12	25NOV03A	21FEB05	-1
01-0114	Review & endorse detailed design by ICE/MHJV/QS	12	28NOV03A	20FEB05	-1
01-0119	Prepare formal copies of SA for execution SA	7	22FEB05	28FEB05	-1
01-01110	Execute SA	0		28FEB05	-1
2. Site Clearance					
Demolition of Existing Buildings					
02-2130	General Site Clearance bet CH2210 and 3010	90	08JAN02A	15JUL04A	
02-2131	Temp. Divert W. Way/Demol. Exist Pavil. & W.Way	24	23JUN03A	27NOV04A	
3. Roadworks					
Utility Diversion					
03-3211	Protect/Divert Exist. UUs at E/B CH 2300-2500	30	14JUL04A	21AUG04A	
03-3212	Protect/Divert Exist. UUs at E/B CH 2580-2800	30	29JAN05A	10MAR05	-56
Earthworks					
03-3201	Road formation at W/B C'way bet CH2300 & 2500	30	22DEC03A	26JUN04A	
03-3206	Formation/drainage within W10	18	26FEB04A	22MAR04A	
03-3203	Road formation at CPR CH2800 & 3010	30	07JUN04A	15JAN05A	
03-3207	Excavate for Drain. & Waterm. E/B CH2300-2480	30	21JUL04A	21AUG04A	
03-3202	Road formation at W/B C'way bet CH2480 & 2800	12	25OCT04A	20NOV04A	
Drainage Works					
03-3222	Drainage Works at CPR CH2800-3010	370*	02AUG03A	30OCT04A	
03-32225	Drainage Works at both W/B CH2850-2950	18	08DEC03A	20MAR04A	
03-32211	Drainage Works at W/B C'way bet CH2450-2500	18	12JAN04A	14MAY04A	
03-3221	Drainage Works at W/B at CH2500-2650 & 2750-2800	10	02APR04A	17APR04A	



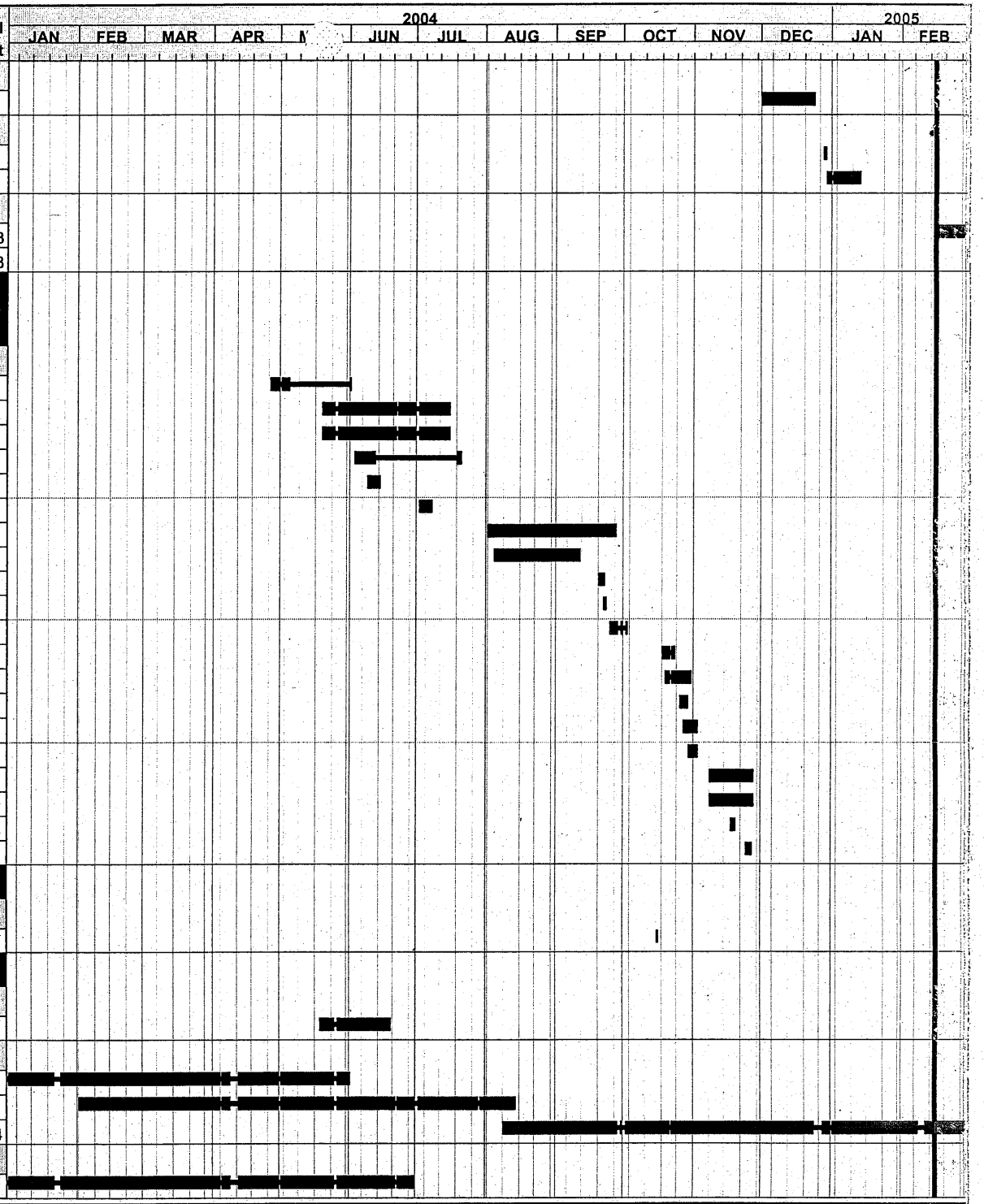
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
Drainage Works					
03-32212	Drainage Works at W/B C'way bet CH2650-2750	14	11JUN04A	15SEP04A	
03-3224	Drainage Works at E/B C'way bet CH2300-2450	30	04AUG04A	31AUG04A	
03-32227	Drainage Works at W/B CH2990-3010	20	06SEP04A	30OCT04A	
03-32241	Gullies at E/B CH2300-2450	6	23SEP04A	20NOV04A	
03-32228	Drainage Works at E/B CH2800-2850	24	22NOV04A	18DEC04A	
03-3225	Drainage Works at E/B CH2610-2695/CH2750-2800	30	20DEC04A	25JAN05A	
03-32242	Drainage Works at E/B C'way bet CH2450-2480	12	10JAN05A	15JAN05A	
Pipe Works (Local Supply Watermains)					
03-3232	Pipe Works at CPR CH2900-3010	21	30JUN04A	08DEC04A	
03-3234	Pipe Works on E/B C'way bet CH2300-2570	30	04OCT04A	18DEC04A	
03-32342	Testing & Connection of 150mm Pipe; CH2270-2570	18	20DEC04A	01FEB05A	
03-3235	Pipe Works on E/B C'way bet CH2610-2720	16	16FEB05	05MAR05	-5
Road Works					
03-3142	Lay sub-base, kerbs & edgings; W/B CH2300-2480	18	09FEB04A	05JUL04A	
03-31422	Construct rd pave & f/p; W/B CH2300-2480	18	04MAR04A	13JUL04A	
03-31762	Temp. road/diversion at Outfall G; West bound	18	01APR04A	19MAY04A	
03-3147	Divert Traffic to W/B C'way CH2210 to 2500	0		13JUL04A	
03-31764	Temp. road/diversion at Outfall G; East bound	12	23AUG04A	08SEP04A	
03-3146	Lay sub-base, kerbs & edgings; CH2800-3010	10	11OCT04A	19JAN05A	
03-3145	Lay sub-base, kerbs & edgings; W/B CH2450-2800	12	01NOV04A	23NOV04A	
03-31462	Construct rd pave & f/p; CH2800-3010	10	08NOV04A	28JAN05A	
03-31452	Construct rd pave & f/p; W/B CH2480-2800	12	24NOV04A		
03-31471	Divert Traffic to W/B Perma C'way CH2450 to 2800	0		28JAN05A	
03-31472	Divert Traffic to W/B Perma C'way CH2800 to 3010	0		28JAN05A	
Junction J6 (at Lung Yu Road)					
J6-02	Close eastern lane of Lung Yuen Rd	1	16FEB05	16FEB05	-42
J6-04	Expose existing UUs at eastern lane	12	17FEB05	02MAR05	-42
J6-06	Const. drainage both storm & sewer at east lane	18	24FEB05	16MAR05	-42
5. Footbridges					
Footbridge FB01					
05-5120	South Pile caps for 6 to 8; FB01; 3 Nos.	18	18DEC03A	02APR04A	
05-51103	Pile testing for FB01 (South)	12	02FEB04A	29MAR04A	
05-51202	South Columns & Column head for FB01; 10 Nos.	40	25FEB04A	30JUN04A	
05-51201	South Pile caps for 9 to 12; FB01; 4 Nos.	24	26APR04A	12JUN04A	
05-51111	GI Works at FB01;North(3 conform & 3 additional)	9	20JUL04A	14AUG04A	
05-5150	Construct Ramp for FB01 (South)	60	26JUL04A	08SEP04A	
05-51504	Construct Stairway for FB01 (South)	30	05AUG04A	02SEP04A	
05-51112	Piling Works at North Supports for FB01;12 Nos.	72	03SEP04A	01MAR05	-71
05-51506	Erect Steelwork & Roofing for FB01 (South)	30	22NOV04A	26FEB05	39
05-5113	Demobilize Piling Rig & Pile Test; FB01 (N)	18	28JAN05A	04MAR05	-71
Footbridge FB02					
05-5230	South Pile caps for FB02; 8 Nos.	35	05JAN04A	15APR04A	
05-52302	South Columns & column head for FB02; 9 Nos.	40	26FEB04A	12JUN04A	
05-5260	Construct Ramp for FB02 (South)	60	17MAY04A	10JUL04A	



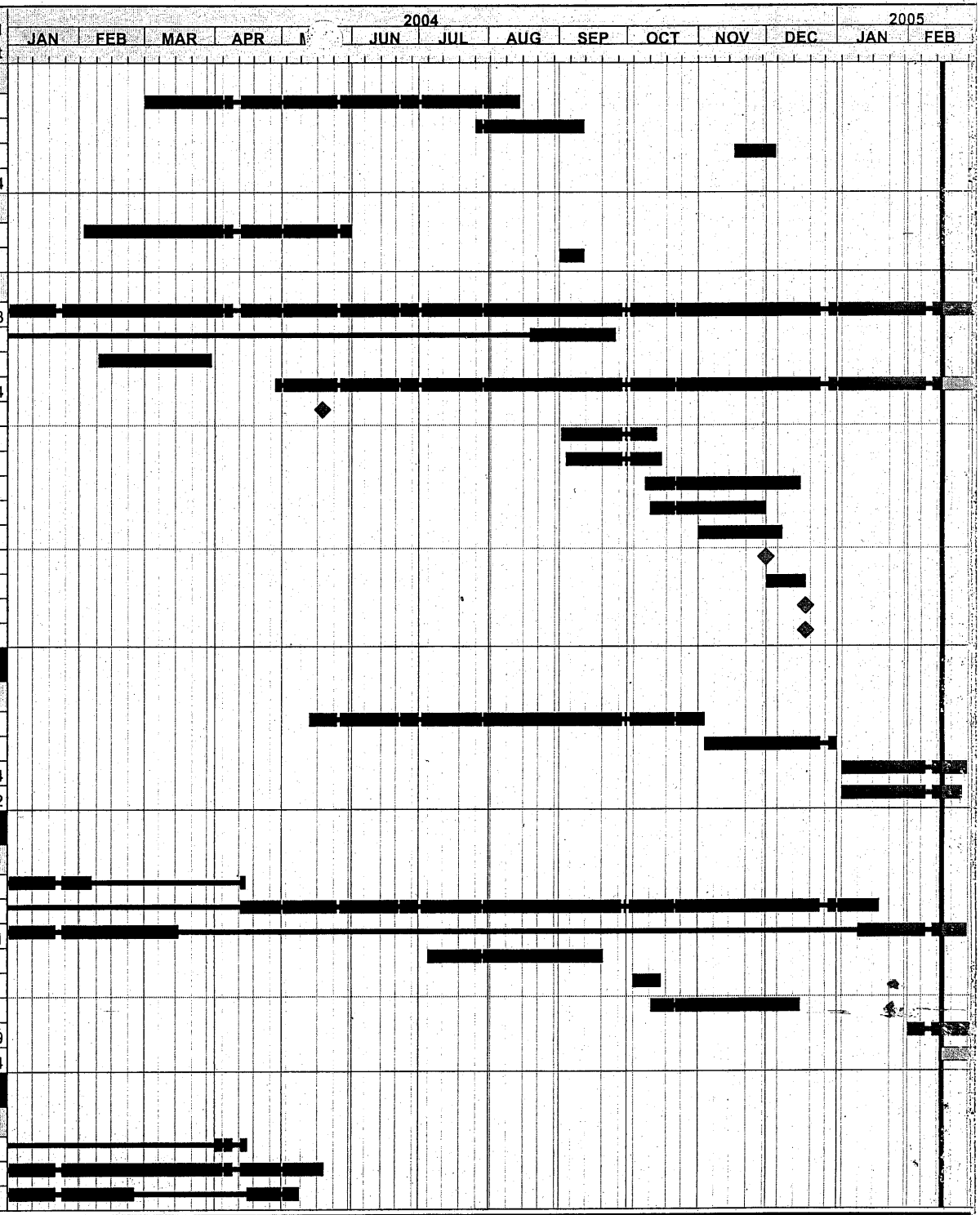
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
Footbridge FB02					
05-52604	Construct Stairway for FB02 (South)	30	15JUN04A	21JUL04A	
05-5250	Const./Erect Deck of Main Span for FB02	45	30JUN04A	20SEP04A	
05-52706	Erect Steelwork & Roofing for FB02 (North)	30	14JUL04A	22FEB05	87
05-52606	Erect Steelwork & Roofing for FB02 (South)	30	21SEP04A	22FEB05	87
05-52502	Erect Steelwork & Roofing of Main Span for FB02	30	25SEP04A	22FEB05	87
05-5280	E&M and Finishing Works for Footbridge FB02	30	06DEC04A	23FEB05	87
7. Noise Structures					
Noise Mitigation No. 02					
07-7222	Erect Steel Members at South Supports for NM02	30	03SEP04A	05OCT04A	
07-7221	Foundation of NM02 (North)	76*	19JAN05A	25APR05	-45
07-72211	Excavation/formation for NM02 (Bays 25-26)	24	19JAN05A	26FEB05	-34
07-72212	Excavation/formation for NM02 (14-24)	30	07FEB05A	19MAR05	-45
07-72213	Construct base for NM02 (Bays 25-26)	24	18FEB05	17MAR05	-34
07-72214	Construct base for NM02 (Bays 14-24)	30	24FEB05	02APR05	-45
Noise Mitigation No. 03					
07-7311	Foundation of NM03 (South)	36*	09SEP04A	23OCT04A	
07-73112	Excavation/formation of NM03 (South)	18	09SEP04A	27SEP04A	
07-73114	Construct base of NM03 (South)	34	17SEP04A	13OCT04A	
07-73116	Const. wall stem/coloumn of NM03 (South)	34	24SEP04A	23OCT04A	
07-7322	Erect Steel Members at South Supports for NM03	30	14DEC04A	26JAN05A	
07-7321	Foundation of NM03 (North)	60*	16FEB05	30APR05	-50
07-73212	Excavation/formation for NM03 (North)	30	16FEB05	22MAR05	-50
07-73214	Construct base for NM03 (North)	30	02MAR05	09APR05	-50
Noise Mitigation No. 04					
07-7407	Erect Steel Frame for NM04(Within portion W10)	50	20JUL04A	21JUL04A	
07-74041	Foundation of NM04 (bay 5)	14	03NOV04A	20NOV04A	
07-740412	Foundation of NM04 (bays 12-13)	30	16FEB05	22MAR05	1
8. Culverts and Outfalls					
Culvert-Outfall F					
08-87104	Stitch concrete at Outlet for Outfall F	6	31MAY04A	06JUL04A	
08-8720	Excavate for stage 1; Outfall F North	19	16AUG04A	14SEP04A	
08-87202	Const. SMHEF2 & 1.8m conc. pipe (stage 1)	18	15SEP04A	26OCT04A	
08-87203	Excavate for stage 2; Outfall F North	13	15SEP04A	03NOV04A	
08-87204	Const. SMHF1 & 1.8m conc. pipe (stage 2)	18	04NOV04A	31DEC04A	
08-87205	Backfill; Outfall F	4	03JAN05A	12JAN05A	
Culvert-Outfall G					
08-8820	Exc. Culvert-Outfall G (Remaining Portion)	12	20MAY04A	26JUN04A	
08-88202	Const. Culvert-Outfall G (Remaining Portion)	24	28JUN04A	14AUG04A	
9. Seawalls and Marine Works					
Sea Wall B (710 m Length)					
09-9114	Granular Fill (CH2210-2500)	50	22APR03A	19JUN04A	
09-9134	Granular Fill (CH2800-3010)	50	10MAY03A	10JUL04A	
09-9124	Granular Fill (CH2500-2800)	50	09JUN03A	15OCT04A	

Activity ID	Activity Description	Orig Dur	Early Sta.	Early Finish	Total Float
Sea Wall B (710 m Length)					
09-91322	2nd stage Armour to +4 mPD (CH2800-3000)	30	13MAR04A	24MAY04A	
09-91222	2nd stage Armour to +4 mPD (CH2525-2800)	30	01JUN04A	11OCT04A	
09-91224	Reinstate Beach at CH2230-2470	9	05AUG04A	17AUG04A	
L-Shaped Walls					
09-9133	Retaining Wall RW-B for Bays 57-76 (CH2800-3010)	250*	11JUN03A	14APR04A	
09-91331	Reprovision of Pavillion at Sea Wall B	498*	19JUN03A	22FEB05	-84
09-9123	Retaining Wall RW-B for Bays 33-56 (CH2500-2800)	348*	24JUL03A	22SEP04A	
09-91337	Plinth for bays 57-76 at CH2800-3010	46	08JAN04A	14APR04A	
09-91236	Wall for bays 33-56 at CH 2550-2800	60	02FEB04A	05JUN04A	
09-91238	Plinth for bays 28-56 at CH2500-2800	46	06MAR04A	22SEP04A	
09-91234	Base & wall for bays 28-32 at FB01	30	23MAR04A	29MAY04A	
09-91333	Roofing/staircase/flooring & finishings	40	07JUN04A	22FEB05	88
10. Geotechnical & Slope Works					
Existing Slope Works					
09-9212	Remedial Works to Slope No. C186 & C1/C78	182*	14JUL04A	22FEB05	-29
09-92122	Remedial Works to Slope 6SW-D/C186	136*	14JUL04A	23DEC04A	
09-921221	Site clearance/tree felling at Slope 6SW-D/C186	17	14JUL04A	04SEP04A	
09-92124	Remedial Works to Slopes 6SW-D/C1 & C78	182*	14JUL04A	22FEB05	-29
09-921241	Site clear./tree fell. at Slope 6SW-D/C1&C78	21	14JUL04A	16OCT04A	
09-921222	Cut slope at Slope 6SW-D/C186	12	06SEP04A	16DEC04A	
09-921242	Cut slope at Slope 6SW-D/C1&C78; VO386	40	18OCT04A	17DEC04A	
09-921245	Drainage/Stair at 6SW-D/C1&C78; VO386	12	08NOV04A	22FEB05	-29
09-921223	U-channel & slope protection at Slope 6SW-D/C186	27	09NOV04A	23DEC04A	
09-921243	Test Nails at Slope 6SW-D/C1&C78; VO386	20	06DEC04A	29DEC04A	
09-921244	Soil nails 5 rows at 6SW-D/C1&C78; VO386	35	16DEC04A	29JAN05A	
11. Entrusted Sewerage Works					
Entrusted Sewers/Drains					
11-1132	Sewer Works at Access Road R9 at West	40	16FEB05	07APR05	-82
12. Entrusted Watermains					
Entrusted Water Mains					
12-1216	DN1000FW/Associated Wks at CPR CH2750-3010	52	10SEP03A	17MAY04A	
12-1219	DN1000FW/Associated Wks at E/B CH2480-2550	30	06JAN04A	19JUN04A	
12-12182	DN1000FW/Associated Wks at W/B CH2550-2625	30	29APR04A	30JUN04A	
12-1218	DN1000FW/Associated Wks at W/B CH2625-2750	30	12JUN04A	04SEP04A	
12-1217	DN1000FW/Associated Wks at E/B CH2300-2480	30	16AUG04A	14OCT04A	
12-12172	DN1000FW/Associated Wks at E/B CH2450-2480	12	01NOV04A	06NOV04A	
13. Reprovisioning of LCSD & FEHD Facilities					
FEHD Facilities					
13-1333	Construct RCP No. D	35	21JUN04A	14AUG04A	
18. Variation Works					
Add. Fishermen's Access Staircase at Sewall B					
VO-35600	Construct Fishermen's Access Staircase; VO356	18	16FEB05	08MAR05	76

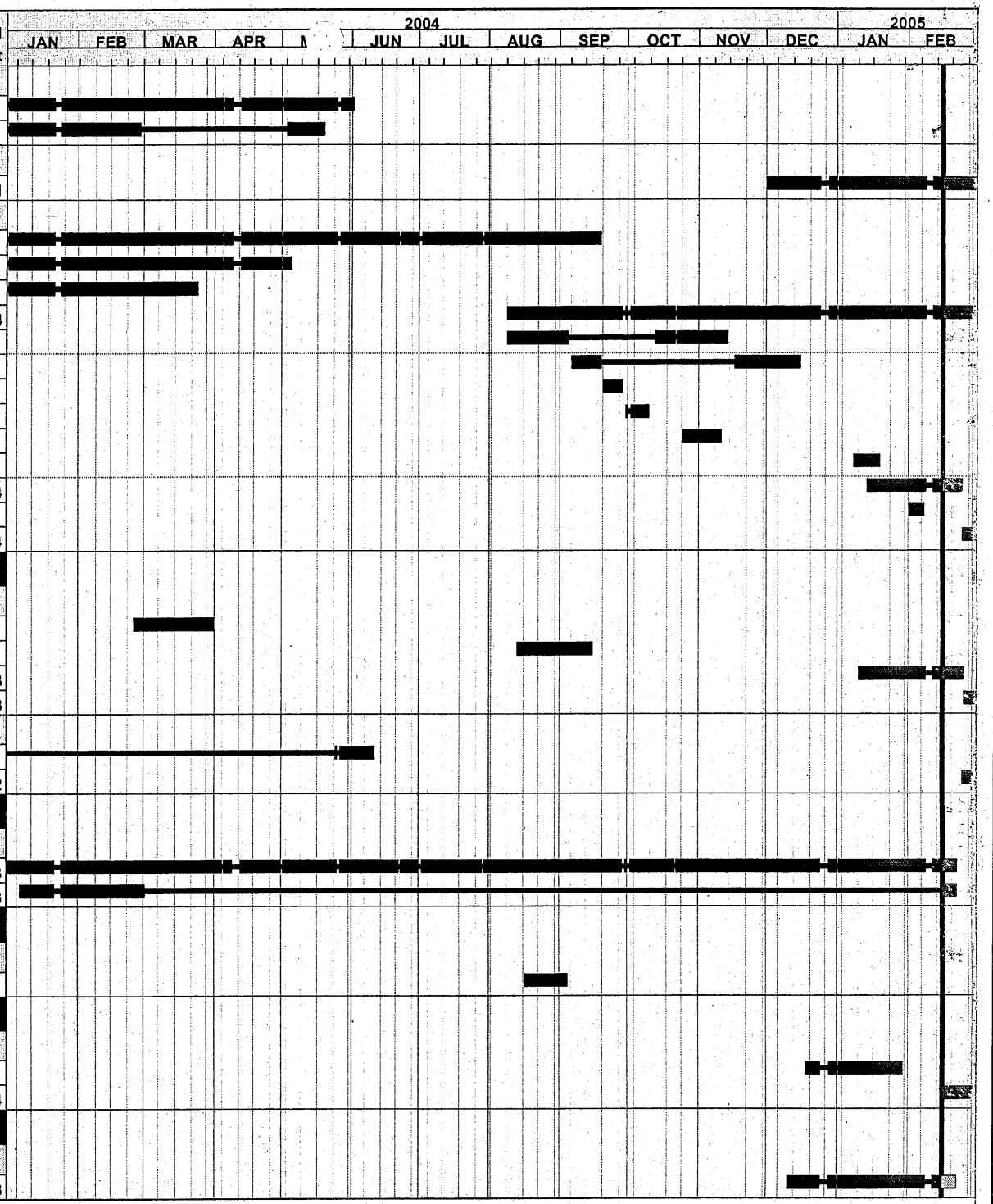
Activity ID	Activity Description	Orig Dur	Early Sta	Early Finish	Total Float
Additional Foul Sewers					
VO-41502	Add. Foul Sewers in front of Dragon Villa; VO415	18	01DEC04A	24DEC04A	
Additional Mass Wall at East End of RW-B					
AMW02	Formation for Additional Mass Wall at RW-B	2	28DEC04A	29DEC04A	
AMW04	Construct Additional Mass Wall at RW-B; 2 bays	8	30DEC04A	13JAN05A	
Additional Works at Western Toe of Slope 8					
VO-30302	Site Clearane/ Excavate for L-shape wall; VO303	10	18FEB05	01MAR05	-33
VO-30304	Construct L-shape wall; VO303	12	02MAR05	15MAR05	-33
CPR from Chainage 3+010 to Chainage 3+730					
1. Preliminaries					
Proposed Utility Works					
01-1245	Proposed Gasmain on E/B C, way CH3540-3670	20	27APR04A	01JUN04A	
01-12455	Proposed HKT on E/B C,way CH3540-3670	7	20MAY04A	15JUL04A	
01-12457	Proposed HKBN on E/B C,way CH3540-3670	7	20MAY04A	15JUL04A	
01-12453	Proposed CATV on E/B C,way CH3540-3670	7	03JUN04A	20JUL04A	
01-12402	Proposed CATV on W/B CH3010, rd crossing	2	09JUN04A	14JUN04A	
01-12454	Proposed HT on E/B C,way CH3540-3670	7	02JUL04A	07JUL04A	
01-12456	Proposed CLP on E/B C,way CH3500-3670	7	02AUG04A	27SEP04A	
01-1242	Proposed Gasmain on W/B C,way CH3050-3300	20	05AUG04A	11SEP04A	
01-12403	Proposed HT on W/B CH3035, rd crossing	2	20SEP04A	22SEP04A	
01-1255	Proposed Gasmain on E/B C, way CH3460-3540	12	22SEP04A	23SEP04A	
01-1240	Proposed CLP on W/B bet CH3050-3270	5	25SEP04A	02OCT04A	
01-12121	Proposed Gasmain on W/B C,way CH2950-3050	10	18OCT04A	23OCT04A	
01-12556	Additional CLP LV cables at E/B CH3500-3670	5	20OCT04A	30OCT04A	
01-12552	Proposed CATV on E/B C,way CH3460-3540	5	26OCT04A	29OCT04A	
01-125521	CATV Cross Rd. Ducts at E/B CH3525	4	28OCT04A	02NOV04A	
01-12555	Proposed HT on E/B C,way CH3500-3540	5	30OCT04A	02NOV04A	
01-12553	Proposed HKBN on E/B C,way CH3460-3540	5	08NOV04A	27NOV04A	
01-12554	Proposed HKT on E/B C,way CH3460-3540	5	08NOV04A	27NOV04A	
01-125564	CLP Cross Rd. Ducts at E/B CH3480	4	18NOV04A	19NOV04A	
01-125542	HKT Cross Rd. Ducts at E/B CH3470	4	24NOV04A	26NOV04A	
2. Site Clearance					
Demolition of Existing Buildings					
02-2162	Demolish Exist RCP at Portion No. W32	6	16OCT04A	16OCT04A	
3. Roadworks					
Utility Diversion					
03-3410	Temp. Divert Exist. Gasmain at CH 3350-3460	30	19MAY04A	19JUN04A	
Earthworks					
03-3241	Earthworks at W/B C'way CH3010-3300	137*	11DEC03A	01JUN04A	
03-3243	Earthworks at E/B C'way CH3400-3540	30	02FEB04A	14AUG04A	
03-3242	Earthworks at W/B C'way CH3400-3530	213*	09AUG04A	28APR05	-74
Drainage Works					
03-3324	Drainage Works on E/B C'way bet CH3540-3670	33	10APR03A	30JUN04A	



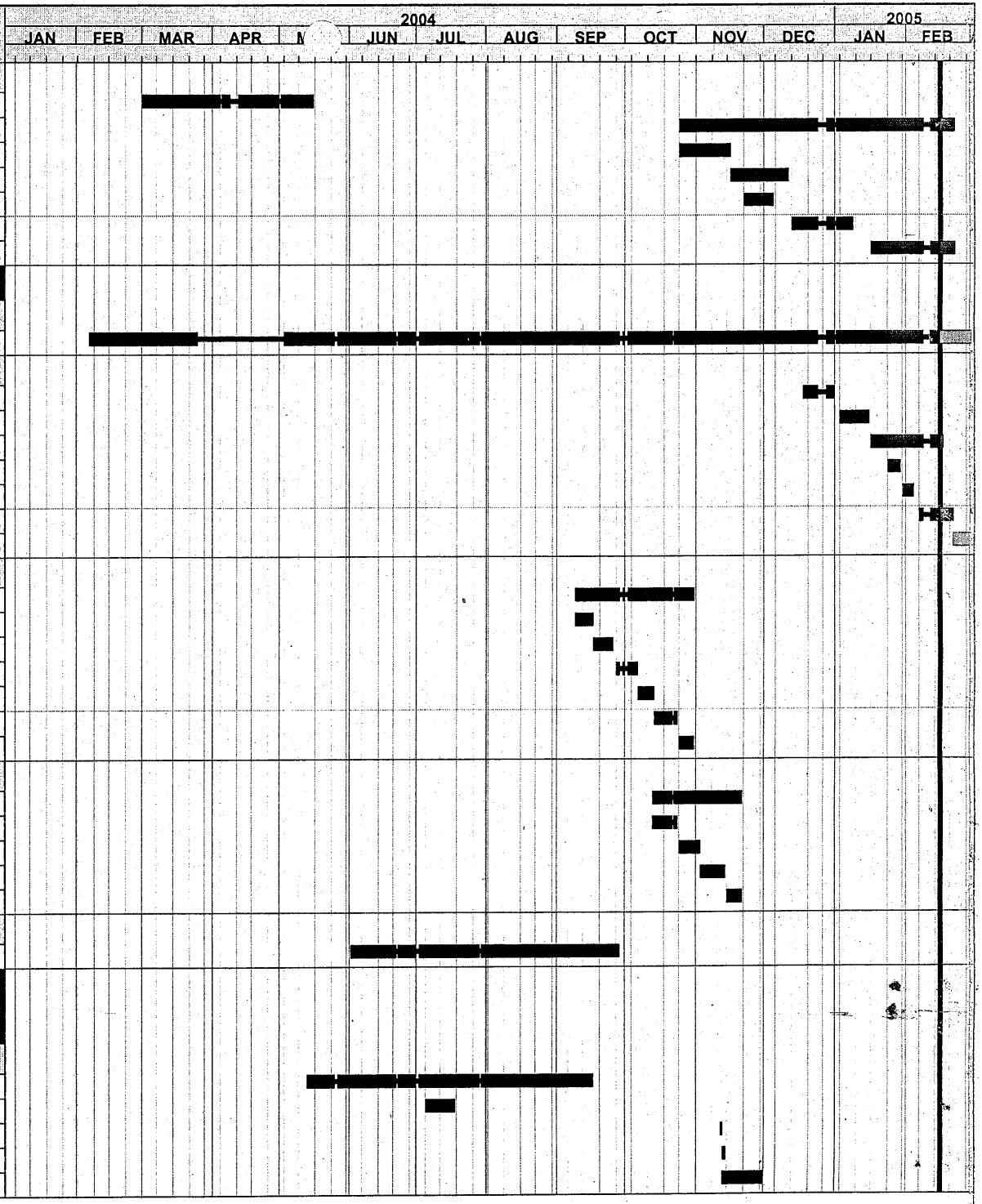
Activity ID	Activity Description	Orig Dur	Early Sta	Early Finish	Total Float
Drainage Works					
03-3320	Drainage Works on W/B C'way bet CH3010-3300	58	01MAR04A	14AUG04A	
03-3325	Drainage Works on E/B C'way bet CH3460-3540	16	26JUL04A	11SEP04A	
03-33252	Re-construct 7 nos. gullies at E/B CH3460-3670	12	17NOV04A	04DEC04A	
03-33202	Drainage Works on W/B C'way bet CH3300-3400	20	28FEB05	22MAR05	-84
Pipe Works (Local Supply Watermains)					
03-3331	Pipe Works on E/B C'way bet CH3540-3670	22	03FEB04A	31MAY04A	
03-3334	Pipe Works on E/B C'way bet CH3460-3540	16	01SEP04A	11SEP04A	
Road Works					
03-3340	Dragon Garden Accommodation	872*	12APR02A	22MAR05	-98
03-334006	Const. Plinth & Wall Face	60	10JAN03A	25SEP04A	
03-33132	Temp UUs & Roadworks at E/B CH3300-3460	30	10FEB04A	30MAR04A	
03-334008	Remove Temporary Hoarding & Reinstatement	35	28APR04A	22MAR05	64
03-33133	Divert Traffic on E/B Temp. C'way CH3300-3460	0		18MAY04A	
03-3314	Formation/sub-base, kerbs; W/B CH3030-3300	12	02SEP04A	13OCT04A	
03-3318	Formation/sub-base/kerbs; E/B CH3540-3670	20	04SEP04A	15OCT04A	
03-33182	Construct rd pave & f/p; E/B CH3540-3670	12	09OCT04A	15DEC04A	
03-33142	Construct rd pave & f/p; W/B CH3010-3300	12	11OCT04A	30NOV04A	
03-3328	Formation, sub-base, kerbs; E/B CH3460-3540	12	01NOV04A	07DEC04A	
03-3316	Divert Traffic on W/B Perma C'way CH3010-3300	0		30NOV04A	
03-33282	Construct rd pave & f/p; E/B CH3460-3540	12	01DEC04A	17DEC04A	
03-33162	Divert Traffic on E/B Perma C'way CH3540-3670	0		17DEC04A	
03-33283	Divert Traffic on E/B Perma C'way CH3460-3540	0		17DEC04A	
R.E. Wall REV05					
Reinforced Earth Wall REV05					
REV010	Excavation/Temp. soil nail/Cleaning the base	70	13MAY04A	03NOV04A	
REV012	Mass concrete/Install panel & mesh/Backfill	60	04NOV04A	31DEC04A	
REV014	L-shaped wall & Plinth	40	03JAN05A	26FEB05	-84
REV016	P1 Parapets	30	03JAN05A	24FEB05	-82
5. Footbridges					
Footbridge FB11					
05-5530	North Pile caps for FB11; 6 Nos.	35	06OCT03A	14APR04A	
05-5520	South Pile caps for FB11; 7 Nos.	35	10OCT03A	19JAN05A	
05-55202	South Columns & column head for FB11; 9 Nos.	40	09DEC03A	26FEB05	-21
05-55302	North Columns for FB11; 7 Nos.	40	05JUL04A	20SEP04A	
05-5560	Scaffolding for Ramp/Stair; FB11 (North)	12	04OCT04A	15OCT04A	
05-55604	Construct Ramp/Stair for FB11 (North)	48	12OCT04A	15DEC04A	
05-5550	Construct Ramp for FB11 (South)	60	01FEB05A	22APR05	-19
05-55606	Erect Steelwork & Roofing for FB11 (North)	30	16FEB05	22MAR05	34
6. Retaining Walls					
Reinforced Earth Wall 13					
RE1312	Mass concrete/Install panel & mesh/Backfill	80	21JAN03A	15APR04A	
RE1314	Finishing Work	142*	24NOV03A	19MAY04A	
RE1315	Construct L-shaped wall	30	24NOV03A	08MAY04A	



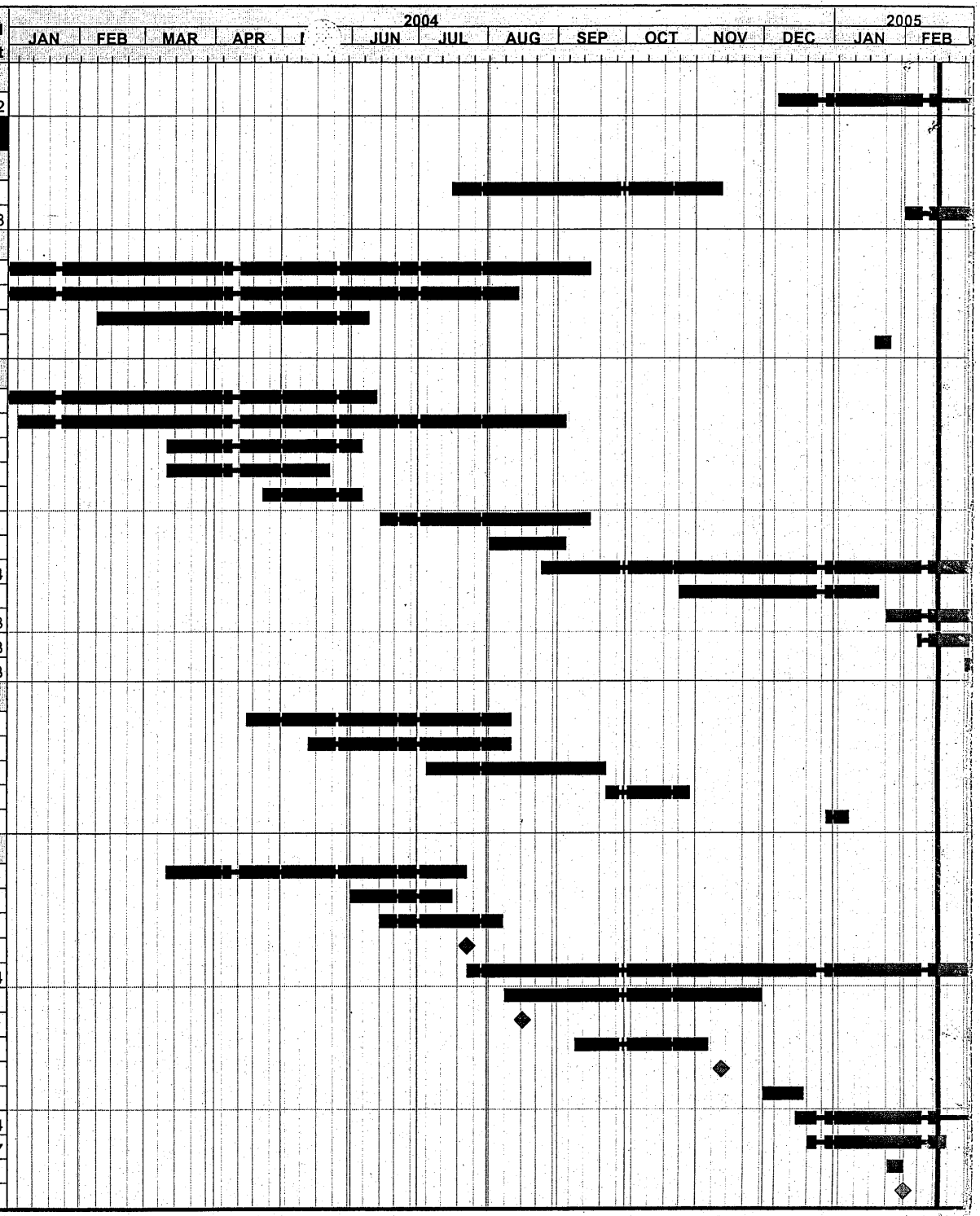
Activity ID	Activity Description	Orig Dur	Early Sta	Early Finish	Total Float
Reinforced Earth Wall 13					
RE1316	Compacted selected fill	18	11DEC03A	01JUN04A	
RE1317	Construct Plinth	18	20DEC03A	19MAY04A	
Reinforced Earth Wall 14					
RE1410	Excavation/Temp. soil nail/Cleaning the base	85	01DEC04A	23MAR05	-91
L-Shaped Walls					
06-6590	Construct Partition Wall; adjacent to RW16	225	28SEP02A	18SEP04A	
06-6592	Construct Retaining Wall RW16	180	08MAR03A	04MAY04A	
06-6560	Construct Retaining Wall RW13	70	15AUG03A	24MAR04A	
06-6580	Construct Retaining Wall RW15	229*	09AUG04A	18MAY05	-74
06-65801	Excavation for RW15; bays 1-3	40	09AUG04A	13NOV04A	
06-65802	Base/wall for RW15; bays 1-3	40	06SEP04A	15DEC04A	
06-659042	Construct Partition Wall; Bay 12 (S)	8	20SEP04A	28SEP04A	
06-659043	Construct Partition Wall; Bay 11 (upper)	16	30SEP04A	09OCT04A	
06-659044	Construct Partition Wall; Bay 10 (upper)	16	25OCT04A	10NOV04A	
06-65803	Backfill for RW15; bays 1-3	10	08JAN05A	19JAN05A	
06-65805	Excavation for RW15; bays 4-6	18	14JAN05A	24FEB05	-74
06-65804	Plinth for RW15; bays 1-3	12	01FEB05A	07FEB05A	
06-65806	Base/wall for RW15; bays 4-6	40	25FEB05	16APR05	-74
8. Culverts and Outfalls					
Culvert - Outfall HB					
08-810102	Const. Culvert-Outfall HB (South of Exist CPR)	20	26FEB04A	31MAR04A	
08-810103	Excavate & Construct Outlet of HB	20	13AUG04A	15SEP04A	
08-81020	Temp. Works & Exc. Culvert-Outfall HB (N)	21	10JAN05A	25FEB05	-83
08-810202	Const. Culvert-Outfall HB (Remaining Portion)	30	26FEB05	06APR05	-83
Culvert-Outfall H					
08-811102	Const. Culvert-Outfall H (North of Exist CPR)	42	18AUG03A	10JUN04A	
08-81130	Exc. Culvert-Outfall H (Remaining Portion)	12	25FEB05	10MAR05	-52
10. Geotechnical & Slope Works					
Existing Slope Works					
10-1092	Remedial Works to Slope No. FR41	468*	26JUL03A	22FEB05	-8
10-10928	Fill behind RW104 & Finishing Work	16	07JAN04A	22FEB05	-8
11. Entrusted Sewerage Works					
Entrusted Sewers/Drains					
11-1143	Sewer Works at E/B bet CH3460-3540	16	17AUG04A	04SEP04A	
12. Entrusted Watermains					
Entrusted Water Mains					
12-12212	DN1000FW/Associated Wks(W/B C'way	26	18DEC04A	29JAN05A	
12-1230	DN1000FW/Associated Wks E/B CH2970-3130	50	16FEB05	19APR05	-84
13. Reprovisioning of LCSD & FEHD Facilities					
FEHD Facilities					
13-1321	Construct RCP E	35	10DEC04A	22FEB05	78



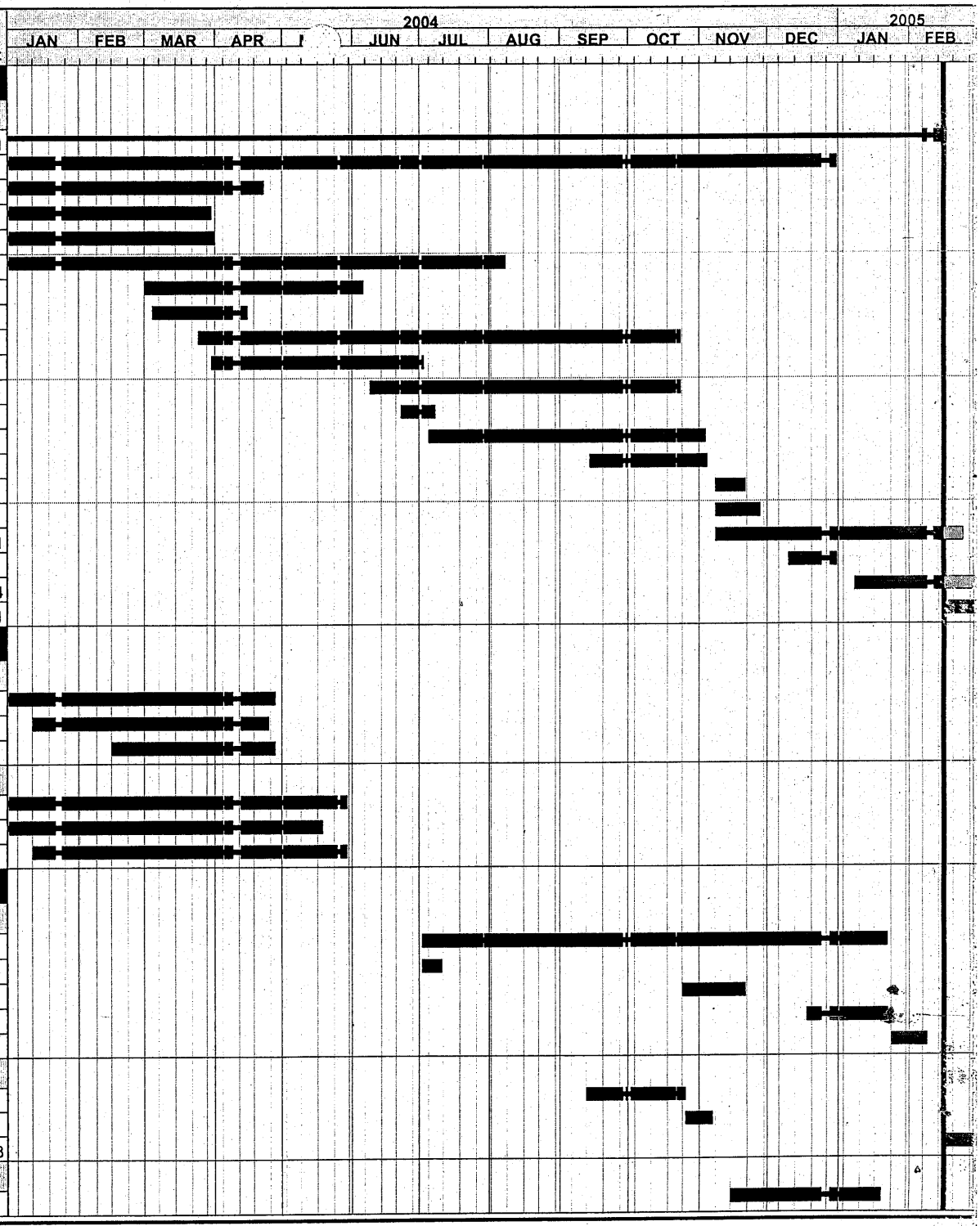
Activity ID	Activity Description	Orig Dur	Early Sta	Early Finish	Total Float
Stairways					
13-1331	Construct Stairway ST06	60	01MAR04A	15MAY04A	
13-1332	Construct Stairway ST07	98*	25OCT04A	22FEB05	-8
13-13322	Form access & Construct foundation; ST07	20	25OCT04A	15NOV04A	
13-13324	Falsework/Construct columns/Stair; ST07	20	16NOV04A	11DEC04A	
13-13318	Finishing & railing; ST06	12	22NOV04A	04DEC04A	
13-13326	Concrete curing/remove fwk & falsework; ST07	10	13DEC04A	08JAN05A	
13-13328	Finishing & railing; ST07	12	17JAN05A	22FEB05	-8
18. Variation Works					
New Slope No. 11					
10-10757	Reprovsion of B. Fence; V.O. No. 133	45	07FEB04A	01MAR05	82
Culvert-Outfall IA					
08-81230	Form Access & Remove Vegetation; VO 195	12	18DEC04A	31DEC04A	
08-81231	Excavate & Break Conc. Pipe	18	03JAN05A	15JAN05A	
08-81232	Construct Cascade	18	17JAN05A	17FEB05	-96
08-81233	Excavate for 1050 Concrete pipe	6	24JAN05A	29JAN05A	
08-81234	Install 1050mm Conc. pipe/Concrete surround	6	31JAN05A	04FEB05A	
08-81235	Backfill & M. Stairway	6	07FEB05A	21FEB05	-96
08-81238	Reinstate Slope/Drainage incl. Hydroseeding	12	22FEB05	07MAR05	50
New L-Shape Wall Between RERW13 & REV05					
VO-37700	Add. L-Shaped Wall between RERW13 & REV05	42*	09SEP04A	30OCT04A	
VO-37702	Excavation/Formation for Mass Wall	7	09SEP04A	16SEP04A	
VO-37704	Construct Mass Wall	6	17SEP04A	25SEP04A	
VO-37706	Construct Base for L-Shaped Wall; 2 bays	12	27SEP04A	06OCT04A	
VO-37708	Construct Wall for L-Shaped Wall; 2 bays	12	07OCT04A	13OCT04A	
VO-37710	Construct Plinth for L-Shaped Wall; 2 bays	8	14OCT04A	23OCT04A	
VO-37712	Backfill behind L-Shaped Wall	6	25OCT04A	30OCT04A	
New Rockfill Slope in front of RW13					
VO-34800	Additional Rockfill Slope in front of RW13	33*	13OCT04A	20NOV04A	
VO-34802	Formation for additional mass wall	8	13OCT04A	23OCT04A	
VO-34804	Const. additional mass wall; 3 bays	12	25OCT04A	02NOV04A	
VO-34806	G200 rockfill & capping layer behind mass wall	8	03NOV04A	13NOV04A	
VO-34808	1m wide Maint. Access	4	15NOV04A	20NOV04A	
Vehicular Parapets					
VO-24950	Additional Vehicular Parapets at CH 3060-3255	54	02JUN04A	28SEP04A	
CPR from Chainage 3+730 to Chainage 4+470					
1. Preliminaries					
Proposed Utility Works					
01-1248	Proposed Gasmain on E/B C,way CH3920-4330	45	13MAY04A	16SEP04A	
01-124634	CLP Cross Rd. Ducts at E/B CH4100	4	05JUL04A	17JUL04A	
01-1247342	NWT Cross Rd. ducts at Slow Lane E/B CH4450	4	12NOV04A	12NOV04A	
01-1247384	CLP C. Rd. Ducts at E/B Slow Lane CH4430	7	13NOV04A	13NOV04A	
01-124821	Gasmain connection for E/B CH3980-4330	10	13NOV04A	30NOV04A	



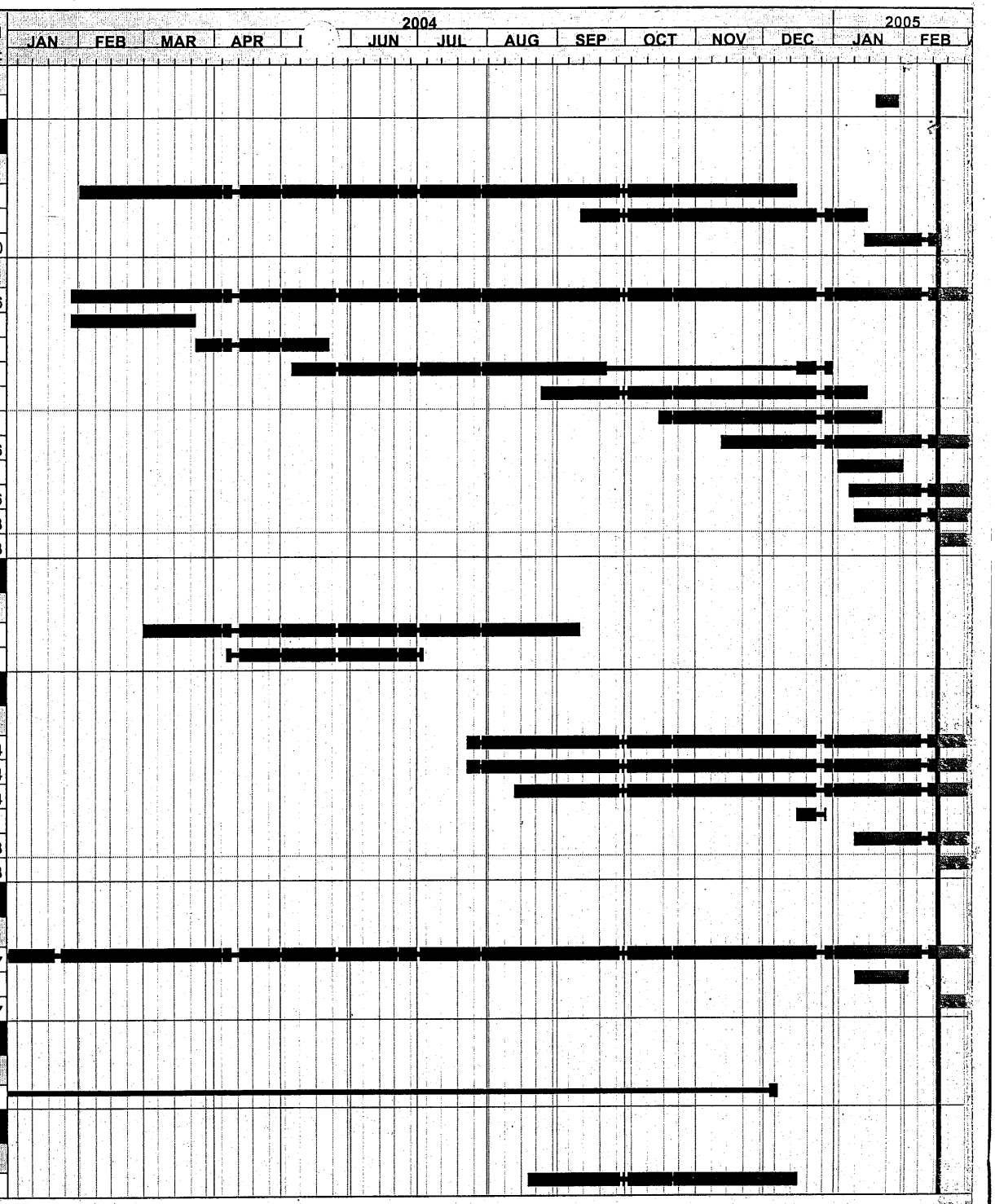
Activity ID	Activity Description	Orig Dur	Early Sta	Early Finish	Total Float
Proposed Utility Works					
01-12471	Additional Gasmain on E/B C.way CH4330-4470	21	07DEC04A	22MAR05	-92
3. Roadworks					
Utility Diversion					
03-345062	Relocate Traffic Control System at E/B CH4100	30	16JUL04A	12NOV04A	
03-34556	Expose/protect UUs at E/B CH 3850-3900	30	01FEB05A	10MAR05	-98
Earthworks					
03-3400	Excavate & Temp. Slope Protection; Walkway-FB03	431*	01APR03A	15SEP04A	
03-34002	Excavate & Temp. Slope Protection; bays 16-20	40	13OCT03A	14AUG04A	
03-34003	Excavate & Temp. Slope Protection; bays 13-15	20	09FEB04A	08JUN04A	
03-3403	Road formation at W/B C'way CH3850-3910	6	19JAN05A	25JAN05A	
Drainage Works					
03-3424	Drainage at E/B CH3900-3940 & 3980-4050	40	28NOV03A	12JUN04A	
03-3445	Drainage Works at E/B C'way CH4160-4300	103	05JAN04A	04SEP04A	
03-3426	Drainage Works at E/B C'way CH4400-4470	69*	11MAR04A	05JUN04A	
03-34262	Trial pits/Sheet piling/excavate at CH4400-4470	40	11MAR04A	22MAY04A	
03-34264	Construct drainage/backfill at CH E/B4400-4470	30	23APR04A	05JUN04A	
03-34242	Drainage at E/B CH3940 -3980	20	14JUN04A	15SEP04A	
03-34552	Drainage along Access Road R10	16	02AUG04A	04SEP04A	
03-3465	Construct drainage/backfill at E/B CH4300-4470	148	25AUG04A	22MAR05	-94
03-34202	Drainage Works at W/B C'way CH3850-3900	20	25OCT04A	20JAN05A	
03-34201	Drainage Works at W/B C'way CH3610-3700	30	24JAN05A	12MAR05	-98
03-3420	Drainage Works at W/B C'way CH3700-3850	30	07FEB05A	19MAR05	-88
03-3421	Drainage Works at W/B C'way CH3950-4150	50	28FEB05	30APR05	-98
Pipe Works (Local Supply Watermains)					
03-3433	Pipe Works at Access Road R10	30	16APR04A	11AUG04A	
03-34321	Pipe Works at E/B CH3980-4055	30	13MAY04A	11AUG04A	
03-34312	Pipe Works at E/B CH4135-4325	20	05JUL04A	22SEP04A	
03-34313	Testing/Connection Pipe Works at E/B CH4135-4325	16	23SEP04A	29OCT04A	
03-3431	Pipe Works at W/B C'way bet CH3890-3910	10	29DEC04A	07JAN05A	
Road Works					
03-34533	Stage 2 TTA (works at E/B fast lane)	107*	11MAR04A	22JUL04A	
03-345332	Road formation/Paving asphalt at E/B fast lane	12	01JUN04A	16JUL04A	
03-34507	Construct Road at E/B CH 3980-4060	30	14JUN04A	07AUG04A	
03-345334	Divert traffic for Stage 3 TTA	0		22JUL04A	
03-34534	Stage 3 TTA (works at E/B slow lane)	209*	23JUL04A	08APR05	-94
03-3455	Road formation at Access Road R10	24	09AUG04A	30NOV04A	
03-345072	Divert Road at E/B CH 3950-4060	0		16AUG04A	
03-34508	Construct Temp./Perm. Road at E/B CH 4060-4330	30	09SEP04A	06NOV04A	
03-345073	Divert Road at E/B CH 4060-4330	0		12NOV04A	
03-34554	Lay sub-base, kerbs & edgings; R10	8	01DEC04A	18DEC04A	
03-34561	lay sub-base, kerbs & edgings; E/B CH4330-4470	12	15DEC04A	01APR05	-94
03-34556	Construct rd pave; R10	8	20DEC04A	19FEB05	-37
03-345022	Construct Temp. Road W/B CH3850-3910	6	25JAN05A	31JAN05A	
03-3509	Divert Road at W/B CH3850-3910/East of Outfall I	0		31JAN05A	



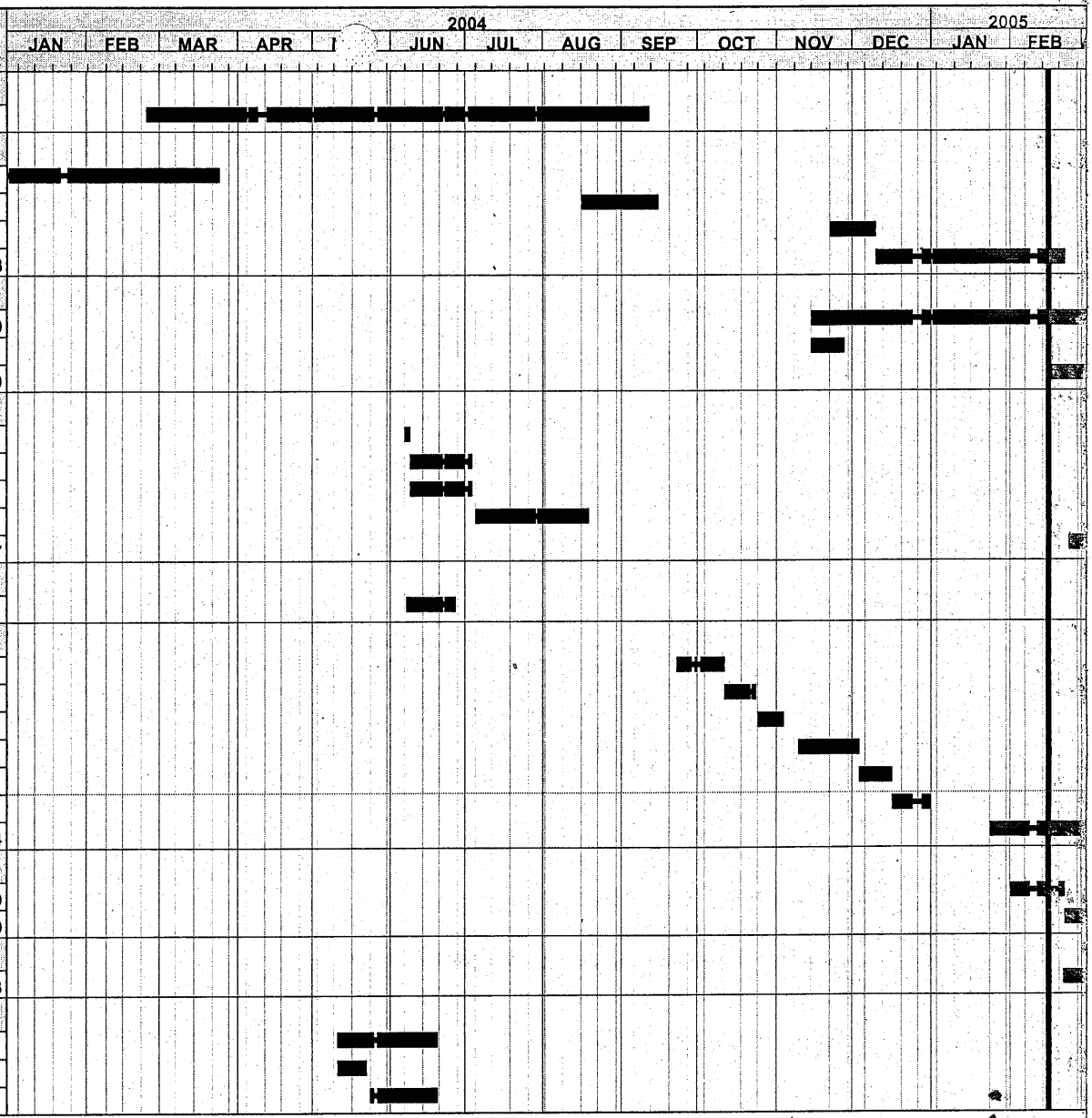
Activity ID	Activity Description	Orig Dur	Early Sta	Early Finish	Total Float
5. Footbridges					
Footbridge FB03					
05-5412	GI Works for Middle Supports at FB03	8	07DEC02A	17FEB05	-81
05-5450	Construct Walkway for FB03 (South)	379*	20SEP03A	30DEC04A	
05-54502	Construct Walkway for FB03 (South); bays 3-12	84	20SEP03A	22APR04A	
05-54113	Pile testing at FB03 (Sout); 6 Nos.	25	19NOV03A	30MAR04A	
05-54302	North Columns & Col head for FB03; 6 Nos.	50	21NOV03A	31MAR04A	
05-54504	Construct Ramp for FB03 (South); Bays 3-7	60	31DEC03A	07AUG04A	
05-5460	Construct Ramp for FB03 (North)	60	01MAR04A	05JUN04A	
05-54604	Construct Stairway for FB03 (North)	30	05MAR04A	15APR04A	
05-54505	Const. Walkway; FB03(South); bays 17-21	72	25MAR04A	23OCT04A	
05-5420	South Pile cap & base for bays 1-2 for FB03	30	31MAR04A	02JUL04A	
05-54503	Const. Walkway; FB03(South); bays 13-15	41	09JUN04A	23OCT04A	
05-54202	South Column for FB03	30	23JUN04A	07JUL04A	
05-54501	Const. Walkway; FB03(South); bays 1-2	30	05JUL04A	03NOV04A	
05-54602	Construct/Install Pre-cast Ramp for FB03 (North)	40	14SEP04A	04NOV04A	
05-545042	Construct Ramp for FB03 (South); Bays 1-2	18	08NOV04A	20NOV04A	
05-54506	Construct Stairway for FB03 (South)	30	08NOV04A	27NOV04A	
05-54606	Erect Steelwork & Roofing for FB03 (North)	30	08NOV04A	24FEB05	41
05-545052	Const. Walkway; FB03(South); bay 16	16	10DEC04A	30DEC04A	
05-54508	Erect Steelwork & Roofing for FB03 (South)	30	08JAN05A	04MAR05	34
05-54121	GI Report/Receive Founding Levels; FB03(M)	12	18FEB05	03MAR05	-81
6. Retaining Walls					
Reinforced Earth Wall 21					
RE2114	Finishing Work	105*	16DEC03A	27APR04A	
RE2116	Backfill slope on top of RE wall	30	12JAN04A	24APR04A	
RE2117	Trim slope & construct berm & channel	18	16FEB04A	27APR04A	
Reinforced Earth Wall 70					
RE7012	Finishing Work	143*	02DEC03A	29MAY04A	
RE7014	Backfill slope on top of RE wall	30	12DEC03A	18MAY04A	
RE7015	Trim slope & construct berm & channel	30	12JAN04A	29MAY04A	
8. Culverts and Outfalls					
Culvert-Outfall IB					
08-81520	Exc. Culvert-Outfall IB (South Portion)	169*	02JUL04A	22JAN05A	
08-815202	1050 Conc. Pipe Behind Bay 21	8	02JUL04A	10JUL04A	
08-815203	Cascade/Outlet of Outfall IB	12	25OCT04A	20NOV04A	
08-815204	Excavate for SMHIB2.1/1050 Conc. Pipe	12	18DEC04A	22JAN05A	
08-815206	Construct SMHIB2.1/1050 Conc. Pipe	12	24JAN05A	08FEB05A	
Culvert-Outfall I					
08-81322	Excavation Culvert bays 3-4; Outfall I	12	13SEP04A	25OCT04A	
08-813222	Construct Culvert bays 3-4; Outfall I	24	26OCT04A	06NOV04A	
08-81330	Excavate Culvert bays 5-7; Outfall I	24	16FEB05	15MAR05	-98
Culvert-Outfall IC					
08-81430	Exc. Culvert-Outfall IC (at Exist CPR)	60	15NOV04A	19JAN05A	



Activity ID	Activity Description	Orig Dur	Early Sta	Early Finish	Total Float
Culvert-Outfall IC					
08-814302	Const. Culvert-Outfall IC (at Exist CPR)	24	20JAN05A	29JAN05A	
9. Seawalls and Marine Works					
Seawall C (460 m Length)					
09-9242	Granular Fill at FB03, W. way bays 1-12	30	02FEB04A	15DEC04A	
09-924*	Granular Fill at FB03 Walkway (bays 13-21)	40	11SEP04A	15JAN05A	
09-9260	Granular Fill behind RW-C; Bays 7-16	24	15JAN05A	17FEB05	-90
L-Shaped Walls					
09-9250	Construct Retaining Wall RW-C	351*	29JAN04A	07APR05	-96
09-92502	Protect slope/excavate for RW-C; Bays 22-24	30	29JAN04A	23MAR04A	
09-92504	Construct Retaining Wall RW-C; bays 22-24	40	24MAR04A	22MAY04A	
09-92505	Protect slope/excavate for RW-C; Bay 3	18	06MAY04A	31DEC04A	
09-92507	Protect slope/excavate for RW-C; Bays 7-16	60	25AUG04A	15JAN05A	
09-92508	Construct Retaining Wall RW-C; bays 7-16	60	16OCT04A	22JAN05A	
09-925072	Protect slope/excavate for RW-C;Bays 25-33	60	13NOV04A	10MAR05	-96
09-92506	Construct Retaining Wall RW-C; bay 3	22	03JAN05A	31JAN05A	
09-92509	Construct Retaining Wall RW-C; bay 25-33	50	08JAN05A	07APR05	-96
09-925073	Protect slope/excavate for RW-C;Bays 5-6/17-21	40	10JAN05A	22MAR05	-98
09-925092	Construct Retaining Wall RW-C; bay 4-6/17-21	48	18FEB05	19APR05	-98
11. Entrusted Sewerage Works					
Entrusted Sewers/Drains					
11-1124	Sewer Works at E/B C'way bet CH4200-4330	73	01MAR04A	10SEP04A	
11-1126	Sewer Works at E/B C'way bet CH3975-4050	30	07APR04A	03JUL04A	
12. Entrusted Watermains					
Entrusted Water Mains					
12-1225	DN1000FW/Associated Wks E/B bet CH4320-4470	189*	23JUL04A	11MAR05	-94
12-12252	Trial pits/Sheet piling/excavate at CH4320-4470	161	23JUL04A	02MAR05	-94
12-12254	DN1000FW/Associated E/B Wks bet CH 4320-4470	152	13AUG04A	11MAR05	-94
12-12222	DN1000FW/Associated Wks W/B bet CH3850-3910	10	16DEC04A	28DEC04A	
12-1222	DN1000FW/Associated Wks W/B bet CH3700-3850	30	10JAN05A	01MAR05	-88
12-12221	DN1000FW/Associated Wks W/B bet CH3610-3700	30	16FEB05	22MAR05	-98
13. Reprovisioning of LCSD & FEHD Facilities					
FEHD Facilities					
13-1350	Reprovision Pavillion & Pai Lau	398*	22DEC03A	30APR05	-37
13-1352	Superstructure of Pai Lau	42	10JAN05A	02FEB05A	
13-1353	Substructure of Pavilion	18	16FEB05	08MAR05	-37
14. Landscape Works					
Tree Felling and Transplanting					
14-21606	Transplant Trees;South of exist. CPRCH4200-4300	65	09MAY02A	06DEC04A	
18. Variation Works					
L-Shaped Walls					
09-925061	Public facilites & temp. hoarding; V.O. 267	30	19AUG04A	15DEC04A	



Activity ID	Activity Description	Orig Dur	Early Sta	Early Finish	Total Float
Entrusted Sewers/Drains					
11-1121	Additional Sewer Works at R10; VO No. 209	30	25FEB04A	11SEP04A	
Footbridge FB03					
03-340022	T. design/Sheet pile/excavate; bay 21-VO 246	40	01NOV03A	24MAR04A	
03-340024	Additional M. Wall/Rockfill at Bay 20; VO325	21	16AUG04A	15SEP04A	
03-340026	Reprovision of L.A. No.12 & Remove soil	12	22NOV04A	09DEC04A	
03-340027	Reprovision of L.A. No.12 & Capping Layer	12	10DEC04A	22FEB05	-53
Stairways					
13-1336	Const. New Pavilion/ret. wall/stair; VO 211	124*	15NOV04A	19APR05	-40
13-13362	Excav./M. wall to Pavilion/ret. wall/stair;VO211	12	15NOV04A	27NOV04A	
13-13364	Const. RW-C1; VO 211	24	18FEB05	17MAR05	-40
Additional Outfall MI; VO 244					
08-81820	Excavation for SMMI2 & 675mm twin pipes	4	07JUN04A	08JUN04A	
08-81821	Construct SMMI2 & 675mm twin pipes	12	09JUN04A	03JUL04A	
08-8182L	Excavate/break existing retaining wall	12	09JUN04A	03JUL04A	
08-81823	Const. 675mm twin pipes/reinstate exist. wall	12	05JUL04A	18AUG04A	
08-81826	Excavation for 675mm twin pipes at exist. CPR	12	24FEB05	09MAR05	-77
Junction Widening at Sham Tseng					
VO-33110	Additional Junction Widening at Sham Tseng	19	08JUN04A	26JUN04A	
Additional Works at RW-C; Bays 2-4					
VO-385002	4 Nos. SI bore holes at RW-C (Bays) 2-4; VO 385	14	23SEP04A	11OCT04A	
VO-385004	Prepare/Submit Reports for SI bore holes; VO385	10	12OCT04A	23OCT04A	
VO-385006	Review/Redesign RW-C bays 2-4; VO395	30	25OCT04A	03NOV04A	
VO-39502	ICE certified Temp. Design/Method for VO395 work	18	10NOV04A	03DEC04A	
VO-39504	Consent for Temp. Design/Method for VO395 work	12	04DEC04A	16DEC04A	
VO-39506	Temp. works/Excavation/Mass concrete; Bay 3	12	17DEC04A	31DEC04A	
VO-39508	Temp. works/Excavation/Mass concrete; Bay 4	30	24JAN05A	08MAR05	-84
Remedial Works to Existing Feature No. 6SE-C/C22					
VO-30902	Erect scaffolding platform	6	01FEB05A	22FEB05	0
VO-30904	Remove existing shortcrete	12	23FEB05	08MAR05	0
Vehicular Parapets					
VO-24970	Additional Vehicular Parapets at CH 3735-3850	30	22FEB05	31MAR05	-88
Watermain Chamber at Sham Tseng					
SI-24410	Additional Watermain Chamber at Sham Tseng	34*	11MAY04A	19JUN04A	
SI-24412	Sheet piling/Excavation/Formaton for Cahmber	11	11MAY04A	22MAY04A	
SI-24414	Const. Chamber/Inst. Pipes & Ffitings/Backfil	23	24MAY04A	19JUN04A	



APPENDIX B

Implementation Status on Environmental Protection Requirements

Feasibility Study EIA Ref.:	Feasibility Study EM&A Manual Log ref.:	Environmental Protection Measures	Location	Implementation Status
Air Quality				
Annex F	2.8	Twice daily watering	All unpaved haul roads, bulldozed material, exposed site areas	Implemented
Annex F	2.8	Collection of dust through a fabric filter	Concrete batching plants	Not Applicable
Annex C2		**General Requirement** The Contractor shall undertake measures to prevent dust nuisance as a result of his activities. Any air pollution control system installed shall be operated whenever the plant is in operation. The Contractor shall not install any furnace, boiler or other similar plant or equipment using any fuel that may produce air pollutants without the prior written consent of the Director of Environmental Protection (DEP) pursuant to the Air Pollution Control Ordinance. The Contractor shall not burn debris or other materials on the works areas. The Contractor shall implement dust suppression measures which shall include, but not be limited, to the following: • Stockpiles of sand and aggregate greater than $20m^3$ for use in concrete manufacture shall be enclosed on three sides, with walls extending above the pile and 2m beyond the front of the pile. • Effective water sprays shall be used during the delivery and handling of all raw sand and aggregate, and other similar materials, when dust is likely to be created and to dampen stored materials during dry and windy weather • Areas where there is a regular movement of vehicles shall have all-weather surface to a standard agreed with the Engineer and be kept clear of loose surface material. • If used, conveyor belts shall be fitted with wind boards, and conveyor transfer points and hopper discharge areas shall be enclosed to minimize dust emission. Conveyors carrying materials which have the potential to create dust shall be totally enclosed and fitted with belt cleaners, • Cement and other such fine grained material delivered in bulk shall be stored in closed silos fitted with a high level alarm indictor. The high level alarm indicators shall be interlocked with the filling line so that in the event of the hopper approaching an overfull conditions, an audible alarm will operate and the pneumatic line to the filling tanker will close.	All areas	Implemented Complied Complied Not applicable Implemented Implemented Not applicable Not applicable

Feasibility Study EIA Ref.:	Feasibility Study EM&A Manual Log ref.:	Environmental Protection Measures	Location	Implementation Status
Annex C2		• Air vents on cement silos shall be fitted with suitable fabric filters provided with either shaking or pulse-air cleaning mechanisms. The fabric filter area shall be determined using an air-cloth ration (filtering velocity) of 0.01-0.03m/s.	All areas	Not applicable
		• Weigh hopper shall be vented to a suitable filter.		Not applicable
		• The filter bags in the cement silo dust collector must be thoroughly shaken after cement is blown into the silo to ensure adequate dust collection for subsequent loading.		Not applicable
		• The provision of adequate dust suppression plant including water browsers with spray bars or means of applying surface chemical treatment, the details of which shall be submitted to and approved by the Engineer.		Implemented
		• Areas of reclamation shall be completed, including final compaction, as quickly as possible consistent with good practice to limit the creation of wind blown dust.		Seawall reclamation works completed
		• Unless otherwise approved by the Engineer, the Contractor shall restrict all motorized vehicles on the work areas to a maximum speed appropriate to the quality of the haul roads and confine haulage and delivery vehicles to designed roadways inside the work areas.		Implemented
		• If applicable, the Contractor shall arrange blasting techniques so as to minimise dust generation.		Chemical blasting was implemented
		In addition to these standard dust control measures, the proposed control measures contained in the Air Pollution Control (Construction Dust) Regulation should be noted.		Complied
		At any concrete batching plant or crushing plant being operated on the work areas the following additional conditions shall be complied with:	All areas	
		• Where dusty materials are being discharged to vehicles from a conveying system at a fixed transfer point, a three-sided roofed enclosure with a flexible curtain across the entry shall be provided. Exhaust fans shall be provided for this enclosure and vented through a suitable fabric filter system.		Not applicable
		Any vehicle with open load carrying area for moving potentially dust producing material shall properly fitting side and tail boards. Materials having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin in good condition. The tarpaulin shall be properly secured and shall extend at least 300mm over the edges of the side and tail boards.		Implemented
		• The Contractor shall frequently clean and water and concrete batching plant and ancillary areas in minimize any dust emissions.	All areas	Not applicable

Feasibility Study EIA Ref.:	Feasibility Study EM&A Manual Log ref.:	Environmental Protection Measures	Location	Implementation Status
Annex C2 (v)		• Dry mix batching shall be carried out in a totally enclosed area with exhaust to suitable fabric filters. Concrete batching plant or crushing plants mat be required to obtain specified processes licenses from EPD.		Not applicable Not applicable
Annex C3		The Contractor will not be allowed to operated Mineral Works (Crushing Plant) on the works areas	All areas	Complied
Annex C4		**Monitoring of Dust (TSP) Levels** The Contractor shall carry out the Works in such a manner as to minimize dust emissions during execution of the Works. The Engineer may require equipment intended to be used on the Works to be made available for inspection and approval to ensure that it is suitable for the project. The Contractor shall devise and arrange methods of working to minimize dust emissions, and shall provide experienced personnel with suitable training to ensure that these methods are implemented. Before the commencement of the Works, the Contractor shall submit to the Engineer the proposed methods of working. After commencement of the Works if the equipment or work methods are believed by the Engineer to be causing serious air pollution impacts, remedial proposals shall be drawn up by the Contractor and once approved by the engineer, implemented. In developing these remedial measures, the Contractor shall inspect and review all dust sources that may be contributing to the pollution impacts. Where such remedial measures include the use of additional or alternative equipment such equipment shall not be used on the Works until approved by the Engineer. Where remedial measures include maintenance or modification of previously approved equipment such equipment shall not be used on the Works until such maintenance or modification is completed and the adequacy of the maintenance or modification is demonstrated to the satisfaction of the Engineer. If the Engineer finds that approved remedial measures are not being implemented and that serious impacts persist, he may direct the Contractor to cease related parts of the Works until the measures are implemented. No claims by the Contractor shall be entertained in connection with such a direction. The dust levels will be measured by the "High Volume method for total suspended particulates" as described by the United State Environmental Protection Agency in 40 CFR Part 50.	At the monitoring locations specified in the EM&A Manual	Implemented Complied Implemented Implemented Complied Complied Implemented

Feasibility Study EIA Ref.:	Feasibility Study EM&A Manual Log ref.:	Environmental Protection Measures	Location	Implementation Status
Annex C4		The Engineer will carry out baseline monitoring prior to the commencement of major construction works to determine and agree with the Contractor ambient dust (TSP) levels at each specified monitoring station. The baseline monitoring will be carried out for a period of at least two weeks, with measurements to be taken every day at each monitoring station. Impact monitoring during the course of the Works will normally undertaken ay any one or more of the monitoring stations. The contractor will be responsible for the data; however, because of conflict of interest, the monitoring and processing work should be done by others, such as a consultant, rather than by the contractor itself. Data should be submitted to the Engineer for approval. Should the impact monitoring record dust level which are indicative of a deteriorating situation so that closer monitoring is reasonably indicated, then the Engineer may instruct the Contractor to undertake daily impact monitoring at any one or more of the monitoring stations until the results indicate an improving and acceptable level of air quality.	At the monitoring locations specified in the EM&A Manual	Complied. The baseline monitoring had been conducted by Contractor's ET Implemented Complied
Annex C5		**Action on Construction Dust (TSP) Levels** A systematic and objective Action Plan, which Is linked to Action and Limit levels as stipulated in the EM&A Manual, should be strictly followed Where the Engineer determines that the recorded dust (TSP) level is significantly greater than the levels established in the baseline survey, the Engineer will direct the Contractor to take effective remedial measures including, but not limited to, reviewing dust source and modifying working procedures. The Contractor shall inform the Engineer of all steps taken. Written reports and proposals for action shall be passed to the Engineer by the Contractor whenever the Engineer determines that air quality monitoring shows that the recorded dust (TSP) level is significantly greater than the levels established in the baseline survey of breaching the Air Quality Objective, or accepted guidelines. If the Engineer finds that approved remedial measures are not being implemented and that serious impacts persist, he may direct the Contractor to cease related parts of the Works until the measures are implemented. No claims by the Contractor shall be entertained in connection with such a direction.	All areas	Implemented Complied Complied Complied

Feasibility Study EIA Ref.:	Feasibility Study EM&A Manual Log ref.:	Environmental Protection Measures	Location	Implementation Status
Construction Noise				
7.3.2	3.7	Noisy equipment and activities should be sited by the Contractor as far away from sensitive receivers as is practical. Replace noisy plant with quieter alternatives. Idle equipment should be turned off or throttled down. Quieter power units of stationary and earth moving plant with partial or full enclosures or vibratory isolation. Properly maintain powered mechanical equipment. Use temporary noise barriers or earth embankments where practicable. Details of the type, length, height and material shall be submitted to DEP for agreement no later than 1 month before construction. Surface density of portable barriers should not be less than 7kg/m^2.	All areas	Implemented Implemented Complied Implemented Complied Implemented
7.3.2	3.7	Hand held breakers to comply with EEC Technical Directive 84/537.	All areas of road removal	Complied
7.3.2	3.7	Portable compressors to comply with EEC Technical Directive 84/533.	Works yards, all areas where pile cap, column, superstructure, surfacing and retaining wall works are underway	Implemented
7.3.6	3.7	Schedule noisy activities to reduce duration and severity of noise exposure.		Implemented
7.4.2	3.7	Shield prefabrication and concrete for SR4	Western work yard	Not applicable
Annex C13		**General Requirement** The Contractor shall consider noise as an environmental constraint in his planning and execution of the Works. The Contractor shall take all necessary measures to ensure that the operation of mechanical equipment and construction process on or off the works areas will not cause any unnecessary and excessive noise, which may disturb any occupant of any nearby dwellings, schools, hospitals, or premises with similar sensitivity to noise. The Contractor shall submit to the Engineer for his consent details of the Contractor's equipment including methods of use and construction operations together with proposed measures for limiting noise therefore which shall include, inter alia, the use of silencers, mufflers, acoustic linings or shields, or acoustic sheds (this will apply in particular to the tunnel portals) or screens and shall be based upon the best reasonable practice. Information on the types and models of silenced equipment and acoustic treatment for unsilenced equipment shall be	All areas	Implemented Implemented

Feasibility Study EIA Ref.:	Feasibility Study EM&A Manual Log ref.:	Environmental Protection Measures	Location	Implementation Status
		included. The contractor shall use such measures and shall maintain plant and silencing equipment in good condition so as to minimize the noise emission during construction works.		
Annex C13		Hand-held breakers used by the Contractor shall comply with the standards specified in EET Technical Directive 84/537, and portable compressors shall comply with the standards specified in EEC Technical Directive 84/533. The Engineers may require equipment intended to be used on the works to be made available for inspection and approval to ensure that it is suitable for the project. The Contractor shall devise and arrange methods of working to minimize noise impacts, and shall provide experienced personnel with suitable training to ensure that these methods are implemented. Before the commencement of the Works the Contractor shall submit to the Engineer the proposed methods of working. After commencement of the Works of the equipment or work methods are believed by the Engineer to be causing serious noise pollution impacts, the equipment or work methods shall be inspected and remedial proposals drawn upon by the Contractor and once approved by the Engineer, implemented. In developing these remedial measures, the Contractor shall review all construction noise sources that may be contributing to the pollution impacts, and propose changes to scheduling of activities, installation of plant soundproofing, provision of alternative plant, erection of sound barriers around part of the works areas or the location of construction noise sources, or any other measures that may be effective in reducing noise. Where such remedial measures include the use of additional or alternative equipment, such equipment shall not be used on the Works until approved by the Engineer. Where remedial measures include maintenance or modification pf previously approved equipment such equipment shall not be used on the Works until such maintenance or modification is completed and the adequacy of the maintenance or modification is demonstrated to the satisfaction of the Engineer. If the Engineer finds that approved remedial measures are not being implemented and that serious impacts persist, he may direct the Contractor to cease related parts of the Works until the measures are implemented. No claims by the Contractor shall be entertained in connection with such a direction.	All areas	Implemented Complied Implemented Complied Implemented The case had not been happened.
Annex C14		**Permitted Noise Levels** In the event that the Contractor intends to carry out works of a type and during periods ("the Restricted Periods") to which Section 6 of the Noise Control Ordinance applies, the Contractor shall apply for and obtain a Construction Noise Permit and thereafter shall comply with the conditions which may be imposed in relation thereto.	All areas	Complied. No "Restricted Periods" work is required.

Feasibility Study EIA Ref.:	Feasibility Study EM&A Manual Log ref.:	Environmental Protection Measures	Location	Implementation Status
Annex C14		Work will be permitted during "the Restricted Periods" subject to: • The Contractor complying with its obligations under Annex C13 above. • The Contractor making an application for an obtaining a Construction Noise Permit in due time and in due form; and • The Contractor not causing the canceling or adverse variation of such Construction Noise Permit as may be issued by reason of the generation of noise in excess of the limits set out in Technical memorandum on Noise from Construction Work for the identified NSRs	All areas	Complied. No "Restricted Periods" work is required.
Annex C15		**Noise Monitoring and Compliance Audit Reporting** Monitoring equipment and methodology shall comply with the Technical Memorandum on Noise from Construction Work other than Percussive Piling, issued under Section 9 of the Noise Control Ordinance. Monitoring will be carried out throughout the construction period by the Contractor under the supervision of the Engineer. The data will be provided to the Engineer on a regular basis, or as requested. A monthly summary of monitoring data will be prepared by the Engineer. This will include an interpretation of the significance of the monitoring results. The monthly summary shall also identify any additional mitigation measures taken by the Contractor as a result. A copy of the summary report shall be made available for inspection by the Director of Environmental Protection at his request and by the Contractor. The Contractor shall provide within one week of the commencement of the Contract at least one portable sound level meter complying with International electrotechnical Commission Publication 651:1979 (Type 1) and 804:1985 (Type 1) (Bruel & Kjaer Type 2221 or similar approved) complete with tripods. These meters will be used by the Contractor or Engineer for noise monitoring, and should be regularly calibrated to ensure accuracy and consistency. The Engineer will, prior to commencement of major construction works, carry out baseline monitoring to determine baseline noise levels. The baseline monitoring will be carried out for a period at least one week, with measurements to be taken every day at locations and to a schedule determined by the Engineer. From these measurements baseline noise levels (L_{eq} (5 min)) will be calculated. The target level for maximum construction noise levels will be 5dB(A) above the measured background.	All areas	Complied. The construction noise monitoring is carried out by Contractor's ET. Complied. Monthly EM&A report is prepared by the Contractor's ET. The sound level meters will be provided by the Contractor once requested by Engineer. Complied. Baseline monitoring had been conducted by Contractor's ET.

Feasibility Study EIA Ref.:	Feasibility Study EM&A Manual Log ref.:	Environmental Protection Measures	Location	Implementation Status
Operational Noise				
8.3.11		5m barrier fro Lung Tang Court (SR10) Indirect mitigation measures for Lung Tang Court (SR10) (Approximately 18 dwellings eligible – subject to confirmation by the detailed Noise Insulation Work Study) 3.5 barrier for Tsing Lung Tau Village and Yuen Tun (SR12)	Ch2750 to Ch2800 (Lung Yue Road) Floors 3-10 Ch2825 to Ch3000 (access gap at 2950)	Will be implemented before the commencement of the road Will be implemented by HyD
8.3.13		Indirect mitigation measures at Sea Crest Villas Phase IV (SRs 13-1, 13-2, 13-3) (Approximately 238 dwellings eligible – subject to confirmation by the detailed Noise Insulation Work Study)	All levels	Will be implemented by HyD
Table 8.1		Indirect mitigation measures for Dragonville (SR14) (Approximately 1 dwelling eligible – subject to confirmation by the detailed Noise Insulation Work Study)	All levels	Will be implemented by HyD
8.3.15		Indirect mitigation measures at Sea Crest Villas Phase III (SRs 15-1 to 15-4) (Approximately 258 dwellings eligible – subject to confirmation by the detailed Noise Insulation Work Study)	All levels	Will be implemented by HyD
8.3.17		Indirect mitigation measures at Sea Crest Villas Phase II (SRs 15-5 to 15-6) (Approximately 80 dwellings eligible – subject to confirmation by the detailed Noise Insulation Work Study)	Above 10th storey	Will be implemented by HyD
8.3.24		Indirect mitigation measures at Sea Crest Villas Phase I (SRs 41-1 to 41-5) (Approximately 487 dwellings eligible – subject to confirmation by the detailed Noise Insulation Work Study)	Above 5th storey	Will be implemented by HyD

Feasibility Study EIA Ref.:	Feasibility Study EM&A Manual Log ref.:	Environmental Protection Measures	Location	Implementation Status
Construction Waste				
13.3.1	5	Segregate different categories of waste	All areas	Implemented
13.3.2	5	Use as much excavated spoil on site as possible	All areas	Implemented
13.3.3	5	Register chemical maintenance waste	All areas	Complied
13.3.4	5	Bund chemical material storage areas to 120% capacity Do not connect chemical material storage areas to the foul or stormwater drainage system	Work yards	Complied Complied
13.3.5	5	Store and label dangerous goods Pack dangerous goods suitably to prevent leakage during transportation	All areas	Implemented Implemented
13.3.6	5	Prevent disposal of hazardous materials to air, soil, water bodies	All areas	Implemented
13.3.7	5	Provide refuse containers at all work areas	All areas	Implemented
13.3.8	5	Discharge human waste into septic tanks	All areas	Implemented

Feasibility Study EIA Ref.:	Feasibility Study EM&A Manual Log ref.:	Environmental Protection Measures	Location	Implementation Status
Construction Water Quality				
12.3.1	4.8	Bund all active work areas to 110% capacity.	All areas	Implemented
		Obtain discharge consent.	Site Offices	Implemented
		Direct drainage as far away as possible from sensitive areas.	All areas	Implemented
		Provide proper sewage treatment and disposal facilities in the form of chemical toilets for site workers.	All areas	Implemented
		Direct surface run-off through sediment removal facilities.	All areas	Implemented
12.3.2	4.8	Undertake works close to beaches outside the designated bathing season.	All areas	Implemented
Annex C6		**General requirements**		
		The Contractor shall carry out the Works in such a manner as to minimize adverse impacts on the water quality during the execution of the Works. In particular he shall arrange his method of working to minimize the effects on the water quality within the works areas, adjacent to the works areas, on the transport routes to and from the works areas and at the loading, and dumping areas.	All areas	Complied
		If marine plant is used on the Works, it shall be inspected by the Engineer to ensure that the plant is suitable for the project and can be operated to achieve the water quality requirement (WQRs) detailed in Clause 8 of the appendix of the Feasibility Study EIA. The Contractor shall provide experienced personnel with suitable training to ensure that these methods are implemented.		Complied
		The Contractor shall devise and arrange methods of working to minimize water pollution and to meet the WQRs and shall provide experienced personnel with suitable training to ensure that these methods are implemented.		Complied
		Before the commencement of the Works, he Contractor shall submit to the Engineer the proposed methods of working.		Complied
		After commencement of the Works, if the plant or work methods are believed by the Engineer to be causing serious water pollution impacts, the Contractor shall proposed remedial measures which may include, but not limited to, the pollution avoidance measures outlined in Clause of the Appendix of Feasibility Study EIA. Where such remedial measures include the use of additional or alternative plant such plant shall not be used on the works until approved by the Engineer. Where remedial measures include maintenance or modification of previously approved plant, such plant shall not be used on the Works until such maintenance or modification is completed and the adequacy of the maintenance or modification is demonstrated to the satisfaction of the Engineer.		Complied

Feasibility Study EIA Ref.:	Feasibility Study EM&A Manual Log ref.:	Environmental Protection Measures	Location	Implementation Status
Annex C6		If the Engineer finds that approved remedial measures are not being implemented and that serious impacts persist, he may direct the Contractor to cease related parts of the Works until the measured are implemented. No claims by the Contractor shall be entertained in connection with such a direction.		The case had not been happened.
Annex C7		**Definitions** For use in this contract only, the following definition is used: • Unsuitable material – material taken from the area of the Works. (including borrow areas), which is unsuitable for use as fill material. The material may include builders debris, spoil and hard material dumped by others.	All areas	Complied
Annex C8		**Water Quality Requirements** The Contractor shall minimize adverse impacts resulting from the dumping operations on water quality. To achieve these requirements the Contractor shall design and implement methods of working that:- • Minimize loss of material during transport of fill material; • Prevent discharge of fill material except at approved locations; • Prevent the avoidable reduction, due to the Works, of the dissolved oxygen content of the water adjacent to the Works.	Reclamation areas	Complied
Annex C9		**Water Quality Monitoring Requirements** The Contractor shall provide the following equipment within one week of the commencement of the Contract:- • <u>Dissolved oxygen and temperature measuring equipment</u> The instrument shall be a portable, weatherproof dissolved oxygen measuring instrument complete with cable sensor, comprehensive operation manuals, and be operable from a DC power source. It shall be capable of measuring:- * a dissolved oxygen level in the range of 0-20mg/L and 0-200% Saturation; and * a temperature OF 0-45 degree Celsius It shall have a membrane electrode with automatic temperature compensation complete with a cable of not less than 30m in length. Sufficient stocks of spare electrodes and cable shall be maintained for replacement where necessary. (YSI model 58 meter, YSI 5739 probe, TSI 5795A submersible stirrer with reel and cable or similar approved).	During marine water monitoring	The monitoring equipment had been provided by Contractor's ET and agreed with ER and EPD.

Feasibility Study EIA Ref.:	Feasibility Study EM&A Manual Log ref.:	Environmental Protection Measures	Location	Implementation Status
Annex C9		• Turbidity Measurement Instrument A portable weatherproof turbidity-measuring instrument complete with cable sensor and comprehensive operation manuals. The equipment shall be operable from a DC power source. Is shall have a photoelectric sensor capable of measuring turbidity between 0-100NTU and be complete with a cable at least 30m long. (Partech Turbidimeter Model 70003RP mark 2 or similar approved). • Suspended Solids Sampling Equipment A 12 volt DC powered peristaltic pump equipped with a Tygon tubing of at least 30m length. • Thermometer A laboratory standard certified mercury thermometer with an accuracy of at least 0.5degree Celsius. • Water Depth Detector A portable, battery-operated echo sounder. This unit can either be handheld or affixed to the bottom of the work boat if the same vessel is to be used throughout the monitoring programme. (Seafarer 700 or similar approved). • 12V batteries and 200V/12V Battery charger Monitoring instrument shall be checked, calibrated and certified by an approved accredited laboratory use on the Works and subsequently re-calibrated at 3-month intervals throughout all stages of the water quality monitoring. Response of sensors and electrodes should be checked with certified standard solutions before each use.	During marine water monitoring	The monitoring equipment had been provided by Contractor's ET and agreed with ER and EPD.
Annex C10		**General Procedures for the Avoidance of Polluting During Transporting, and Dumping** The Contractor's equipment shall be designed and maintained to minimize the risk of silt and other contaminants being released into the water column or deposited in other than designated locations. Pollution avoidance measures shall include but are not limited to the following:- • Mechanical grabs shall be designed and maintained to avoid spillage and shall seal tightly while being lifted; • Vessels shall be sized so that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that under turbidity is not generated by turbulence from vessel movement or propeller wash; Pipe leakages are to be required promptly and plant is not to be operated with leaking pipes;	Reclamation areas	Implemented Implemented

Feasibility Study EIA Ref.:	Feasibility Study EM&A Manual Log ref.:	Environmental Protection Measures	Location	Implementation Status
Annex C10		• The marine works shall cause no visible foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the work areas or dumping grounds; • Barges shall fitted with tight fitting seals to their bottom openings to prevent leakage of material; • Excess material shall be cleaned from the decks and exposed fittings of barges before the vessel is moved; The Engineer may monitor vessels transporting material to ensure that no dumping outside the approved location takes place and that loss of material does not take place during transportation. The Contractor shall provide all reasonable assistance to the Engineer for these purposes. The Contractor shall ensure that material is disposed of at approved locations. He will be required to ensure accurate positioning of vessels before discharge and will be required to submit and agree proposals with the Engineer for positional control at disposal sites. Disposal in designated marine dumping grounds shall be in accordance with conditions of a licence issued by the DEP under the Dumping at Sea Act (Overseas Territories) Order 1975. Floatable and certain contaminated material (as defined by DEP) will not be acceptable at marine dumping grounds and will require other method of disposal.	Reclamation areas	Implemented Complied Complied
Annex C11		**Removal of Waste Material** Notwithstanding the provision of the GCC the Contractor shall not permit any sewage, waste water or effluent containing sand, cement, silt or any other suspended or dissolved material to flow from the works areas onto any adjoining land or allow and waste matter or refuse to be deposited anywhere within the works areas or onto any adjoining land and shall all such matter removed from the works areas. The Contractor shall be responsible for temporary training, diverting or conducting of open streams or drains intercepted by any works and for reinstating these to their original courses on completion of the Works. The Contractor shall submit any proposed stream course and nullah temporary diversions to the Engineer for agreement one month prior to such diversion works being commenced. Diversions shall be constructed to allow the water flow to discharge without overflow, erosion or washout. The area through which the temporary diversion is no longer required. The Contractor shall segregate inert construction waste material suitable for reclamation or land formation and shall dispose of such material at a public dumping areas(s).	All areas	Implemented Implemented Implemented Implemented

Feasibility Study EIA Ref.:	Feasibility Study EM&A Manual Log ref.:	Environmental Protection Measures	Location	Implementation Status
Annex C11		Non-inert construction waste material deemed unsuitable for reclamation or land formation and other waste material shall be disposed of at a public landfill. The Contractor's attention is drawn to the Waste Disposal Ordinance, the Public Health and Municipal Services Ordinance and the Water Pollution Control Ordinance.	All areas	Implemented Complied
Annex C12		**Discharge into Sewers and Drains** The Contractor shall not discharge directly or indirectly (by runoff) or cause or permit or suffer to be discharged into any public sewer, storm-water drain, channel, stream-course or sea, any effluent or foul or contaminated water or cooling or hot water without the prior consent of the relevant Authority who may require the Contractor to provide, operate and maintain at the Contractor's own expense, within the premises or otherwise, suitable works for the treatment and disposal of such effluent or foul or contaminated or cooling or hot water. If any office, site canteen or toilet facilities is erected, foul water effluent shall, subject to paragraph 12(i) above, be directed to a foul sewer or to a sewage treatment facility. The Contractor's attention is drawn to the Building Ordinance, the Water Pollution Control Ordinance and the Technical Memorandum "Standard for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters".	All areas	Implemented Implemented Complied
12.3.1		Dredging of marine sediment shall be limited to the scour apron. No more than 1 derrick lighter shall be used for marine dredging works. The total maximum dredging rate shall not be more than 200m3 per day. No more than 1 derrick lighter shall be used for marine dredging works. The total maximum dredging rate shall not be more than 200m3 per day. All filling activities shall be carried out behind rockfill and rock armour. Tightly closed grabs shall be used to restrict the loss of fine sediment to suspension. Silt curtain shall be used along the reclamation area during construction to control sediment suspension within the work area. The construction method specified in Section 2.1 of the Project Profile submitted on 16 February 2001 shall be followed during the construction.	Tsing Lung Tau and Sham Tseng West Reclamations	Marine dredging completed

Feasibility Study EIA Ref.:	Feasibility Study EM&A Manual Log ref.:	Environmental Protection Measures	Location	Implementation Status
Landscape and Visual				
14.13.4		Off-site planting works to ameliorate landscape and visual impacts. Semi-ornamental planting to provide a coordinated streetscape and interface with road junctions. Verge planting to enhance the view from the road and soften the overall appearance of the route.	All areas Urban Areas All areas	Implementing Implementing Implementing
Drawing Nos 97294/MF/081 to 97294/MF/095		Woodland Hydroseeding Screen planting Edge Planting	Slopes Shotcrete Areas Exposed rock slopes	Implementing Implementing Implementing

APPENDIX C

Log record on environmental complaints

Log Record on Environmental Complaints

No.	Date of Complaint Received	Description	Propopsed Actions	Completion Date	Remarks
029	12-Aug-02	Complaint from Mr. Au regarding muddy water washing out from Kowloon Bound Lane from the construction site	Enlarge concrete paving at site entrance; further improvement to the existing temporary drainage system to minimise wash-off of waste water to the adjacent road; and make sure temporary water supply points are properly turned off during lunch break or other times when they are not in use.	16-Aug-02	
036	31-Aug-02	Complaint from Mrs. Chung regarding the generation of fugitive dust from the construction site in front of Tsing Lung Tau Village	Frequent watering of the related works area with the aid of water browser	31-Aug-02	
054	07-Dec-02	Complaint from Mr. Lo regarding the stagnant water ponding in front of the construction site at Sham Tseng	Explained to the complainant that the water ponding was a wheel washing bay	07-Dec-02	
067	03-Mar-03	Complaint from Hong Kong Garden Management Office regarding the noise from vehicular movement over the temporary road cover at Castle Peak Road provided by the Contractor	The Contractor has added extra welding to improve the rigidity of the temporary steel deck. The work was completed dring the off-peak hours in the period between 12-Mar-03 to 17-Mar-03.	17-Mar-03	The Contractor has taken noise readings and found that the noise level was within the baseline levels.
068	11-Mar-03	Complaint from Mr. Leung at Hong Kong Garden regarding the noise from evening road traffic, travelling over the steel decking plate on the adjacnt temporary road diversion.	The Contractor has added extra welding to improve the rigidity of the temporary steel deck. The work was completed dring the off-peak hours in the period between 12-Mar-03 to 17-Mar-03.	17-Mar-03	The Contractor has taken noise readings and found that the noise level was within the baseline levels.
070	06-Mar-03	Complaint from EPD regarding the reclamation works at Seawall B opposite to Hong Kong Garden on Sunday	The Contractor has previously informed the subcontractor of the statutory requirements as noise, dust emission, water discharge, and waste management. The Contractor agreed to keep vigilant in monitoring and survellance of the site and continue to remind the subcontractors of the statutory requirements.	10-Mar-03	The Contractor has formally closed all site area for the Chinese New Year. Entrances of all site area were barricaded before the Contractor's staff vacnated the sites on 30 January 2003.
070	06-Mar-03	Complaint from EPD regarding dust emission from the reclamation works at Seawall B opposite to Hong Kong Garden.	The Contractor has previously informed the subcontractor of the statutory requirements as noise, dust emission, water discharge, and waste management. The Contractor agreed to keep vigilant in monitoring and surveillance of the site and continue to remind the subcontractors of the statutory requirements.	10-Mar-03	The Contractor has investigated and confirmed that the marine works towards the eastern end of Seawall B was wet and the concreting works at the west end of the Seawall B were not dusty and no dust was emitted. Ground surface was also covered with crushed rock. The Contractor was also further reminded to spray water before and during unloading and moving of rock boulders and onto the haul road.
070	24-Mar-03	Complaint from EPD regarding daytime construction noise at Seawall B opposite to Hong Kong Garden.	The Contractor agreed to continuously monitor and review the operation in the vicinity opposite to Lung tang Court, in order to minimize the noise impact caused to the public. In addition the Contractor will respond to the complaints received on the 24- hours Contract Complaint Hotline 2496 2555 in the first instant.	31-Mar-03	No exceedance was recorded at the noise monitoring station WN6, WN7 and WN8 from January 2003 to March 2003. It was suspected that the noise was due to traffic noise together with operational noise of plant equipment at Seawall B. The Contractor was also reminded if reorganzation of working arrangement is necessary, mitigation proposal should be submitted to IC(E) for review. Additioinal noise monitoring shall also be conducted at the noise monitoring station WN8 once the mitigation proposal is implemented.
076	15-Apr-03	Complaint from Mr. Wong of TL 60 Management Limited regarding the noise nuisance generated from the vehicle movement over the temporary steel decking in front of Hong Kong Garden at Castle Peak Road provided by the Contractor.	The Contractor has replaced the isolated decking plate by 17 April 2003 and agreed to frequently inspect the condition of the steel decking. Further improvement works were completed on 25 April 2003.	25-Apr-03	

Log Record on Environmental Complaints

No.	Date of Complaint Received	Description	Propopsed Actions	Completion Date	Remarks
078	15-Apr-03	Complaint from Mr. Chau of Hong Kong Garden regarding the noise nuisance generated from vehicle movement over the temporary steel plate in front of the premises.	The Contractor has explained to Mr. Chau that the improvement works were completed on 25 April 2003 and agreed to carry out daily inspection to check the condition of the steel plate.	29-Apr-03	The complainant agreed that the noise nuisance has abated.
080	05-May-03	Complaint from Mr. Tsao / Mr. Chan of Mui Yuen, opposite to Bayside Villas regarding water leakage from the rocky slope behind his house and the damage of water pipes by cleaning works.	The water pipe was repaired on 9 May 2003. The Contractor has explained that the rocky slope was ouside the site boundary.	09-May-03	
082	07-May-03	Complaint from Ms. Chan regarding water ponding on existing footpath along Castle Peak Road near the Contractor's site office.	The Contractor has formed holes at existing upstand wall to drain off water trapped in the adjacent footpath and to patch up local depression at the affected footway with plain concrete.	19-May-03	
084	21-May-03	Complaint from Ms. Lam of Sea Crest Villa Phase I regarding construction noise from the slope works outside Sea Crest Villa Phase I.	The Contractor has observed low-noise emission construction equipment were being used at the time of inspection and proposed to speed up the works to limit the duration of daytime construction noise impact. The Contractor has provided additional information in their letter ref. HY/99/18/M45/300/40/10229 dated 25 June 2003. Additional noise monitoring had been taken by the Contractor on 22 May 2003 at WN15 obtaining the result of 66.6dB(A), which was below the limit level of 75dB(A). After reviewing the findings and investigation details, the Contractor confirmed that no further remedial actions was required.	25-Jun-03	The Contractor was requested to submit mitigation proposal to IC(E) for review and to implement the mitigation proposal. Additioinal noise monitoring is required to be conducted at the noise monitoring station WN15 once the mitigation proposal is implemented. The IC(E) had no comment on the Contractor's findings. Since no mitigation measures were implemented, additional noise monitoring was not conducted.
086	23-May-03	Complaint from Mr. So regarding stagnant water in the drainage and wheel washing bay near the entrance of Sea Crest Villa Phase IV and the damage of road surface near L1 main gate and CLP electricity supply room.	Explained to the complainant that the stagnant water inside the wheel washing bay was for cleaning of vehicle. The leakage found the temporary water pipe was repaired. The water and silt trapped in the U-channel near the main entrance of the estate was removed and the kerb on west side of the run-in to Gate L1 was reinstated.	29-May-03	The Contractor will properly maintain the wheel washing facility, regularly inspect and clean the drainage channel and the gully pots near the main entrance of the estate. The damaged paving slab and cable pit near the power supply room will be restored to original condition after completion of the adjacent substructure works around mid August 2003.
088	03-Jun-03	Complaint from EPD regarding construction dust from Seawall B.	The Contractor proposed to place the concerned area under higher priority and endeavor to water the concerned haul road more frequently during dry days.	06-Jun-03	No rock breaking activity has been observed in site audits since 5 June 2003. The haul road at Seawall B was observed wetted in the site audits. The Contractor was reminded to provide water spraying if there is rock breaking activity in this vicinity.
088	03-Jun-03	Complaint from EPD regarding construction noise from Seawall B.	The Contractor reported that there may be occasional crashing noise for the piling works when rock level is reached. The Contractor has been providing mitigation measures, such as barrier and restriction of the rate of concerned works. The Contractor will also endeavor to expedite the works to reduce the duration of perceived daytime impact. The Contractor proposed to perform additional ad hoc inspections on Mondays, Wednesday and Fridays at the concerned area to confirm continual implementation of measures and to conduct additional noise monitoring where appropriate.	06-Jun-03	No rock breaking activity has been observed in site audits since 5 June 2003. Contractor has been reminded to submit mitigation proposal to IC(E) for review and to implement the mitigation proposal if provision of additional mitigation measures is required. The Contractor was also advised to provide portable noise barrier if there is rock breaking activity. Additioinal noise monitoring is also required to be conducted at the noise monitoring station WN8 once the mitigation proposal is implemented. The IC(E) had no comment on the Contractor's findings. Since no mitigation measures were implemented, additional noise monitoring was not conducted.

Log Record on Environmental Complaints

No.	Date of Complaint Received	Description	Propopsed Actions	Completion Date	Remarks
091	16-Jun-03	Complaint from Ms. Chan of Sea Crest Villa Phase 1 regarding noise from drilling works carried out at BPRW70 outside Sea Crest Villa Phase 1 before 07:00.	Upon investigation, the Contractor confirmed that there has been no construction work being conducted before 07:00. Nevertheless, the Contractor has scheduled the concerned work to be commenced at 08:00 as on 17 July 2003.	17-Jun-03	
092	16-Jun-03	Complaint from Mrs. Chung of Lido Garden regarding noise from drilling works carried out at BPRW70 opposite to Lido Garden before 07:00.	Upon investigation, the Contractor confirmed that there has been no construction work being conducted before 07:00. Nevertheless, the Contractor has scheduled the concerned work to be commenced at 08:00 as on 17 July 2003.	17-Jun-03	
097	27-Jun-03	Complaint from Mr Fok of Kai Shing Management Services regarding noise nuisance and the ponding of stagnant water arising from the construction activities outside Sea Crest Villa Phase III.	Upon investigation, the condition of water pumps installed separately at east end of the slope close to SCV Phase III and Pai Min Kok Stream Course has been checked. Noise generated from the ongoing construction works in these areas has been monitored. The rock breaking with jackhammer at PMK had been completed on 26 June 2003.	04-Jul-03	After further enquiry into the nature of the complaint, its appears that the complaint refers to the extended duration of construction works in the concerned area (i.e. inconvenienve caused due to lengthy works program). The Contrator's Mr Peter Ip has explained the nature of the works to the Management Office. There have been no further complaints from SCV Phase III since the briefing.
103	31-Jul-03	Complaint from Hong Kong Management Office regarding the noise generated by vehicles running over the steel decking plate on the Castle Peak Road close to Hong Kong Garden.	The existing steel decking plate had been repaired during off peak hours and regular inspection on the condition of steel plate and adjacent road surface was agreed to be conducted.	05-Aug-03	There had been no further complaints after the repair.
105	13-Aug-03	Complaint from Mr Chow of Sham Tseng regarding fell of all old trees along section of Castle Peak Road near Ma Wan Pier.	After investigation on the matter, it had been confirmed that the felling and the transplanting of group of trees along the Castle Peak Road near Ma Wan Pier had been carried out in compliance with approved plans and schedules. No follow up is required.	16-Aug-03	
108	11-Sep-03	Complaint from Mr Edith Lee of Sea Creat Villa Phase I complained that it was very dusty at her house and she found that there was no water spraying at the construction site of the slope near Ma Wan Pier.	After investigation on the matter, water browser was arranged for spraying through the haul road. Rock breaking location would be sprayed directly connected from water supply point. To follow up the case, water browser would be arranged every 2 to 3 hours depends on drying up condition. A worker would be arranged for spraying water through out the rock breaking process.	11-Sep-03	
112	10-Oct-03	Complaint from Mr Cheung of FEHD that egarding the general refuse being accumulating on the pedestrian walkway between Sea Crest Villa Phase III and Phase II and the drainage channel at Pai Min Kok Village.	Investigation was conducted immediately on 11 October 2003. It was observed that the pedestrian walkway and Outfall I had been tidied up except at the corner of Sea Crest Villa Phase III where a broken umbrella and some broken traffic light was lying on the ground. Immediate action was taken to remove the broken umbrella and signal lights. The site area would be maintained regularly. It was noted that wooden formwork and construction materials might possibly been mistaken to be rubbish.	13-Oct-03	

Log Record on Environmental Complaints

No.	Date of Complaint Received	Description	Propopsed Actions	Completion Date	Remarks
114	25-Nov-03	Complaint log no. 114 was received on 25 November 2003 regarding the muddy water found on the beach opposite to Sea Crest Villa Phase III.	An inspection for the concerned site area at the interface between the beach and the construction site revealed that there was no evidence of active construction works adjacent to the beach or the presence of muddy water. There was also no evidence of muddy water discharge from Outfall I. The work programme for the following days leading up to the complaint was inspection and found that the bored piling activity had been completed and removed since 15 November 2003. The contractor would regularly monitor the area for muddy water. If potential discharge sources were identified, the Contractor would take action to rectify the situation.	26-Nov-03	
115	30-Nov-03	Complaint from Miss Chan of Sham Tseng Latrine was received on 30 November 2003 regarding the pond of foul water at the footway in front of Sham Tseng Latrine.	An inspection for the concerned site area was carried out. The water ponding was confirmed to be overflow from the terminal manhole, which was a part of public latrine system. The maintenance of the public latrine and the associated systems were the responsibility of FEHD. The Contractor had contacted FEHD to follow up the issue.	01-Dec-03	
116	06-Dec-03	Complaint from Mr Paul Wong of Hong Kong Garden Management Office was received on 6 December 2003 regarding construction noise during early hours of 8:00am.	Inspection of concern area and no abnormal construction activities was found. The Contractor had explained to the Complainer that no statutory permit was required for construction work other than percussive piling at 8:00am and the nature of works conducted at the area was well within permitted limits. ET was reminded the Contractor to implement noise mitigation proposal in accordance with EM&A Manual.	08-Dec-03	Noise generated from the ongoing construction works in these areas was monitored and no exceedance was found. As the Contractor had responded to the complainant and no further complaint was recorded, the Contractor proposed that no further remedial/ preventative measures were necessary.
123	20-Feb-04	Complaint from Mr Ho of TL60 Management Ltd was received on 20 February 2004 regarding noise arising from the temporary steel plates on road pavement near Blocks 1 & 2 of Hong Kong Garden	Condition of the decking plat was checked on 23 February 2004 and was repaired on 24 February 2004 during off peak hours.	24-Feb-04	Regular inspection will be conducted and adjacent works was be expedited to allow early road diversion for permanent removal of the steel plates.
139	09-Jul-04	Complaint from EPD was received on 9 July 2004 regarding noise arising from prescribed construction works or works using power mechanical equipment at night near Seawall-B area opposite to Hong Kong Garden	After investigation on the matter, there was no evidence of carrying out the prescribed constuction works or using power mechanical equipment between 1900 and 2300 on 3 July 2004.	23-Jul-04	
140	10-Jul-04	Complaint from Highway Department was received on 10 July 2004 regarding noise arising from rock breaking near Sea Crest Villa Phase 3	After investigation on the matter, there was no evidence of rock breaking activities undertaken in the vicinity of Sea Crest Villa Phase 3.	23-Jul-04	
149	11-Aug-04	Complaint from EPD regarding the sandy wake of a marine vessel carrying sand to the beach reinstatement area of Seawall B	After investigation on the matter, the following action was proposed. The vessel and water depth should be thoroughly checked prior to sand placing. If shadow water need to be approached, another shallower vessel should be used. The land co-ordinator should cease the sand placing operation if muddy plumes were noticeable.	31-Aug-04	
154	25-Aug-04	Complaint from Ms Tang regarding littering on the slope close to the Sea Crest Villa Phase 2.	After investigation on the matter, there was no evidence that the problem was caused by any construction activities.	27-Aug-04	

Log Record on Environmental Complaints

No.	Date of Complaint Received	Description	Propopsed Actions	Completion Date	Remarks
156	18-Sep-04	Complaint from Mr Chu regarding excessive garbage trapped along the adjacent shore of Seawall B west end.	It was out of control over the accumulation of floating rubbish drifting toward the shore. However, the contractor would remove them as soon as possible.	20-Sep-04	
166	04-Nov-04	Complaint from Mr Wong regarding the accumulation of foul ground and sewage waters in the trench in front of the strip of restaurants at Sham Tseng.	Contractor placed a sludge separation plant to treat the accumulated water prior to discharge and pumped away the accumulated water as regularly as possible. An CNP has been attained for the pumping of concerned areas.	11-Nov-04	
172	05-Jan-05	Complaint from Mr Raymond Chan regarding the daytime construction noise started 7:30am over the past few days.	Contractor clarified with Mr Chan that construction work at 7:30am was within regulation guidelines. However, the contractor still agreed to arrange noisy activities be carried out after 8:00am.	05-Jan-05	
175	28-Jan-05	Complaint from Mr Kan regarding the rubbish discarded at the finished RERW slopes and Outfalls opposite to Sea Crest Villa Phase II and	Contractor inspected the concerned area, taken photographs and carry out maintenance works as requested.	31-Jan-05	