Chun Wo Construction & Engineering Co Ltd

Contract No HY/2005/06 Castle Peak Road Improvement – West of Tsing Lung Tau

Quarterly Environmental Monitoring and Audit Summary Report for Reclamation Works (EP No EP-219/2005) – September to November 2006

Second Issue

Chun Wo Construction & Engineering Co Ltd

Contract No HY/2005/06 Castle Peak Road Improvement – West of Tsing Lung Tau

Quarterly Environmental Monitoring and Audit Summary Report for Reclamation Works (EP No EP-219/2005) – September to November 2006

December 2006

This report takes into account the particular instructions and requirements of our client. It is not intended for and should not be relied upon by any third party and no responsibility is undertaken to any third party

Maunsell Environmental Management Consultants Ltd

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By Fax (2492 6201) and Post

Meinhardt Halcrow JV 4/F., Wah Ming Centre, 421 Queen's Road West, Hong Kong

Attn: Mr. Michael S Harfoot

29 December 2006

Dear Sir,

Contract No. HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau Quarterly EM&A Summary Report for Reclamation Works (EP No. EP-219/2005) -September to November 2006

We refer to the Quarterly EM&A Surnmary Report for Reclamation Works (EP No. EP-219/2005) -September to November 2006 received via emails on 22 December 2006 from Ove Arup & Partners Hong Kong Ltd., the Environmental Team (ET) of Castle Peak Road Improvement - West of Tsing Lung Tau (Remaining Contract).

Having addressed the IEC's comment on 28 December 2006, the Quarterly EM&A Summary Report for Reclamation Works (EP No. EP-219/2005) - September to November 2006 is verified to be acceptable for onward submission to the Engineer, HyD, EPD and AFCD.

Should you have any inquiry or comment, please do not hesitate to contact the undersigned or our Miss Connie Wong at 3105 8530.

Yours faithfully for and on behalf of Maunsell Environmental Management Consultants Ltd

Y T Tang

Independent Environmental Checker

MHJV

Mr. Simon Illingworth

(Fax: 2559 1613)

Arup

Mr. Sam Tsoi / Mr. Samuel Chan

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Page 1 of 1



Job title		Contract No I Tsing Lung T								
					24583					
Document tit	le	Quarterly Env Reclamation 2006	File reference per							
Document re	f									
Revision	Date	Filename	23-Sep06-Dec06(Recl	23-Sep06-Dec06(Reclamation).doc						
First Issue	22/12/06	Description	Submit to IEC for comm							
			Prepared by	Checked by	Approved by					
		Name	Raymond Liu	Samuel Chan	Sam Tsoi					
		Signature								
Second	28/12/06	Filename	23-Sep06-Dec06(Recla	amation)-RevA.doc	·					
Issue		Description	Submit to ER with IEC's verification letter							
			Prepared by	Checked by	Approved by					
		Name	Raymond Liu	Samuel Chan	Sam Tsoi					
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Executive Summary

This is the third quarterly environmental monitoring and audit (EM&A) summary report presenting the progress of environmental monitoring and audit works for the reporting period between September and November 2006. Noise monitoring at Grand Bay Villa was temporarily suspended as the premises were vacant with no resident. Marine water monitoring and weekly environmental site audit were carried out during the reporting period.

Marine Water Quality

Impact marine water quality monitoring was conducted during mid-ebb and mid-flood tidal cycles at 10 designated locations including 5 impact and 5 control stations. A baseline check was conducted on 27 February 2006 prior to the commencement of marine works and a compliance checking mechanism was established in accordance with the criteria specified in Baseline Monitoring Report.

Summary of Mid-Ebb Tide

The lowest DO levels for surface & middle and bottom positions were 5.57 mg/L and 5.35 mg/L respectively at WWFCZ1 on 25 September 2006. There were no exceedances of DO levels during reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level was 14.1 Nephelometric Turbidity Unit (NTU) at WWA1 on 09 October 2006. There were 15 exceedances of Tby levels during the reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

The highest SS level was 31.0 mg/L at WWFCZ2 on 08 December 2006. There were 36 exceedances of SS levels during the reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

Summary of Mid-Flood Tide

The lowest DO levels for surface & middle and bottom positions were 5.64 mg/L at WWA3 on 20 September 2006 and 5.37 mg/L at WWFCZ2 on 04 September 2006 respectively. There were no exceedances of DO levels during reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level was 11.1 NTU at WWA3 on 09 October 2006. There were 9 exceedances of Tby levels during the reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

The highest SS level was 43.8 mg/L at WWFCZ2 on 8 November 2006. There were 10 exceedances of SS levels during reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

Waste Disposal

A total of 150 tonnes of Construction & Demolition (C&D) waste and 24,983 tonnes of C&D materials (Public Fill) were disposed of at WENT Landfills and Public Filling Area in Tuen Mun respectively during the reporting period. The CT commenced to transport the dredged material by barge on 24 May 2006. No chemical waste was disposed of during the reporting period.

Complaint Records

No environmental complaint was received during the reporting period.

Exceedance

There were no exceedances for air quality and noise monitoring during the reporting period. However, there were 70 exceedances of marine water quality monitoring during the reporting period. After ET's investigation, only 1 exceedance was likely due to the construction activities of the Project and the remaining exceedances were likely due to natural variation of marine water.

Notification of Summons and Successful Prosecution

No notification of summon and prosecution was received during the reporting period.

Environmental Licences

One Construction Noise Permit was granted during the reporting period.

1 Introduction

Ove Arup & Partners Hong Kong Limited (Arup) was appointed by the Contractor (CT) – Chun Wo Construction & Engineering Co. Ltd as the Environmental Team (ET) for *Contract No. HY/2005/06 Castle Peak Road Improvements – West of Tsing Lung Tau* (hereafter called the "Project"). The reclamation at west of Tsing Lung Tau is covered by an Environmental Permit (EP) No. EP-219/2005 issued in June 2005 with reference to Section 6 of the Technical Memorandum on Environmental Impact Assessment Ordinance (TM-EIAO). The EP was issued following the approval of the application to apply directly for an EP based upon the Project Profile. In accordance with the EM&A Manual, environmental monitoring for construction noise and marine water quality will be required during the construction and operational phases. The construction phase of the Project commenced on 28 February 2006.

1.1 Project Background

The Castle Peak Road (CPR) Improvement works consist of upgrading the existing CPR to provide a dual two-lane carriageway of "Rural Road A" classification between Area 2 (Tsuen Wan) and Ka Loon Tsuen. The CPR Improvement project is divided into three contracts, namely HY/99/18 (West Contract), HY/99/19 (Middle Contract) and HY/2000/02 (East Contract).

Prior to inviting tenders for Contract No. HY/99/18, a section of the proposed works, between Ch.1+800 and Ch.2+240, west of Tsing Lung Tau, was excised from the Project and entrusted to the Route 10 – North Lantau to Yuen Long Highway project. This 440m long section of CPR was located under the proposed Route 10 suspension bridge, and was to form part of the works area for the Route 10 project. The Route 10 project team revised the alignment of this section of CPR accordingly to suit the arrangement of the Route 10 suspension bridge.

Following subsequent developments, the Route 10 project was placed under review, and Government therefore decided to implement the excised section of CPR (the Remaining Project) under the original CPR Improvement project. The site location plan **Appendix A** is showed in **Appendix A**.

Additional reclamation (0.58 ha) at west of Tsing Lung Tau is required to support part of the remaining section of road improvement works and the additional reclamation works constitutes a material change to the reclamation works at Tsing Lung Tau.

The scope of the construction works covered by this Project is summarised as follows:

- The area of reclamation to the east of Grand Bay Villa is about 0.12 ha. The length of
 this part of the reclamation, measured parallel to the road, is about 107 m, and the
 maximum width, measured from the existing High Water Mark (HWM) to the proposed
 toe of the scour apron is about 16 m, of which about 13 m is sloping revetment;
- The area of reclamation west of Grand Bay Villa is about 0.46 ha. The length of this part of the reclamation, measured parallel to the road, is about 172 m, and the maximum width, measured from the existing High Water Mark (HWM) to the proposed toe of the scour apron is about 38 m, of which about 15 m is sloping revetment.

1.2 Project Organisation

The project organisation chart for environmental management is shown in **Appendix B** The key personnel contact names and numbers are summarised in **Table 1-1**. The duties of respective parties are listed in Section 1.9 of the EM&A Manual.

Table 1-1. Contact information of Key Personne	Table 1-1:	Contact Information	of Key Personnel
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Organisation	Name	Telephone		
Highway Department	Mr WK Lee	Tel: 2762 3570		
Environmental Protection Department	Mr Thomas To	Tel: 2835 1103		
Engineer's Representative (MHJV)	Mr Michael Harfoot	Tel: 2417 3820		
Independent Environmental Checker (MEMCL)	Mr YT Tang	Tel: 3105 8537		
Contractor (Chun Wo)	Mr Simon Wong	Tel: 2491 1214		
ET Leader (Arup)	Mr Sam Tsoi	Tel: 2268 3211		

1.3 Purpose of the Report

The purpose of the quarterly EM&A summary report is to provide the information on monitoring methodology, monitoring results, environmental permit status, site audit findings, recommendations and conclusions for the scope of impact EM&A specified under EP No. EP-219/2005.

This is the third quarterly EM&A summary report summarising the monitoring methodology, locations, periods, frequencies, results and any observation from the noise, marine water quality and environmental site audit from September to November 2006.

2 Scope of Construction Works

2.1 Construction Programme

The construction work was commenced on 28 February 2006. An up-to-date construction programme is attached in **Appendix C**.

2.2 Construction Activities of the Quarter

The major construction activities carried out by CT during the reporting period included:

- Construction of upper RC retaining wall and backfilling at Seawall A; and
- Backfilling and complete Rock Armour at Seawall B.

3 Summary of EM&A Requirements

The impact environmental monitoring and audit for the Project included noise, marine water quality and environmental site audit. The monitoring parameters, frequency and locations are shown in **Appendix D**.

3.1 Performance Limits and Event and Action Plan

The monitoring results will be checked against appropriate standards and requirements. A two-tier system performance limits have 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. The ET, ER, IEC, and CT will take corresponding action in accordance with the Event-Action Plans if the monitoring results exceed the performance limits.

3.1.1 Construction Noise

The A/L Levels for the construction noise have been established during the baseline monitoring as summarised in **Table 3-1**.

Table 3-1: Action and Limit Levels of construction noise

Time Period	Action Level	Limit Level
0700 - 1900 hours on any day not being a Sunday or public holiday	When one documented complaint is received	75dB(A)

The action required to be taken by different parties in case of occurrence of exceedances of A/L Levels and summarised in the Event and Action Plan in **Appendix E**.

3.1.2 Marine Water Quality

Based on the baseline water quality monitoring data obtained. The A/L levels established using the baseline marine water quality monitoring data are shown in **Table 3-2**. If the water quality monitoring results at any impact stations exceeded the criteria, the actions in accordance with the Event-Action Plan in **Appendix E** should be carried out.

As the baseline monitoring was conducted in September to October 2005, the established A/L Levels will be more representative to the marine water quality during summer months. To cope with any potential variation of baseline levels due to change in weather conditions, baseline check will be conducted in bi-annual basis in order to update any variation of the baseline water quality at the monitoring locations.

The first baseline check was conducted on 27 February 2006 prior to the commencement of marine works and the updated marine water quality monitoring data were summarised in **Table 3-3**. Compliance assessment for future impact monitoring data will be made against the updated baseline check criteria as follows:

- Tier 1 Comparison of water quality monitoring data at Impact Stations with the A/L Levels (Table 32) established in the Baseline Monitoring Report. If the data comply with A/L Levels, go to Tier 2. Otherwise, non-compliance will be reported and Event and Action Plan will be triggered.
- Tier 2 Comparison of water quality monitoring data at Impact Stations with the Baseline Check Level (80% of average values of baseline check data collected at 10 monitoring locations for DO and 120% of average values of baseline check data collected at 10 monitoring locations for Tby and SS) (Table 33). If the impact water quality is better than Baseline Check Level, compliance will be reported. Otherwise, go to Tier 3.
- Tier 3 Comparison of water quality monitoring data at Impact Stations with the respective Control Stations. If the impact water quality is better than the respective Control Station, compliance will be reported. Otherwise, non-compliance will be reported and Event and Action Plan will be triggered for implementation of action based on exceedance of Action Level.

Table 3-2: Action and Limit Levels of marine water quality established in Baseline Monitoring Report #

						Monitoring	locations				
Parameters		WWA1		WWA2		WWA3		WWFCZ1		WWFCZ2	
		Action Level	Limit Level								
					Mid	ebb					
DO	Surface & middle	3.5	3.5	3.5	3.4	3.4	3.3	5.0 *	5.0	5.0 *	5.0
(mg/L)	Bottom	3.4	3.4	3.4	3.3	3.4	3.2	3.7	2.0	3.6	2.0
Tby (NTU)		7.4	7.7	6.7	6.9	7.8	8.3	6.4	8.6	6.7	7.0
SS (mg/L)		25.3	26.0	22.2	23.1	24.6	25.2	26.3	30.3	22.6	22.9
					Mid-1	flood					
DO (m m/l)	Surface & middle	3.3	3.3	3.4	3.3	3.5	3.3	5.0 *	5.0	5.0 *	5.0
(mg/L)	Bottom	3.2	3.2	3.2	3.2	3.2	3.2	3.3	2.0	3.5	2.0
Tby (NTU)		6.9	7.2	7.6	8.2	8.7	10.7	7.4	11.0	5.9	6.5
SS (mg/L)		24.1	24.3	23.5	23.6	22.3	23.5	24.4	25.8	27.4	28.0

Notes:

[#] Action and Limit Level for marine water quality were extracted from Baseline Monitoring Report, January 2006.

^{*} Based on the criteria in Table 4-6 of Baseline Monitoring Report, the originally established action levels of DO for fish culture zone at surface & middle level were all below the 5.0 mg/L.

Table 3-3: Marine water quality data obtained in the baseline check on 27 February 2006

	Parameters	Monitoring locations									
	raiailleteis	WWA1	WWA2	WWA3	WWFCZ1	WWFCZ2					
	Mid-ebb										
DO	Surface & middle	5.4	5.4	5.4	5.4	5.4					
(mg/L)	Bottom	5.4	5.4	5.4	5.4	5.4					
	Tby (NTU)	6.5	6.5		6.5	6.5					
	SS (mg/L)	13.0	13.0	13.0	13.0	13.0					
			Mid-f	lood							
DO (mg/l)	Surface & middle	5.3	5.3	5.3	5.3	5.3					
(mg/L)	Bottom	5.3	5.3	5.3	5.3	5.3					
	Tby (NTU)	6.6	6.6	6.6	6.6	6.6					
	SS (mg/L)	17.0	17.0	17.0	17.0	17.0					

3.2 Site Inspection and Environmental Complaint Handling

3.2.1 Site Inspection Frequency and Areas Covered

Regular site inspections will be carried out on a weekly basis. The areas of inspection cover the different environmental impacts, such as air, noise, water and waste, and their pollution controls and mitigation measures for both within and outside the site area.

Ad hoc site inspection will be carried out if significant environmental non-compliance is identified. Inspections may also be carried out subsequent to receipt of any environmental complaints, or as part of the investigation work, as specified in the Event and Action Plans.

Environmental Complaints 3.2.2

A 24-hour complaint hotline at 6277 7465 has been established for the Project. accordance with the EM&A Manual, environmental complaints will be referred to the ET for initiation of the complaint investigation procedures. The ET will undertake the following procedures upon receipt of complaints:

During the complaint investigation work undertaken by the ET, the CT and ER should cooperate with the ET on providing all the necessary information and assistance for completion of the investigation. If mitigation measures are identified as necessary after the investigation, the CT should promptly carry out the required mitigation to the satisfaction of ET. The ER should ensure that the CT has carried out such identified measures.

A flow chart of the complaint response procedures is shown in **Appendix F** for reference.

4 Noise Monitoring

4.1 Occupancy Status of Grand Bay Villa

In the reporting period, Grand Bay Villa (WN5) was vacant with no resident and noise monitoring was temporarily suspended.

5 Marine Water Quality Monitoring

5.1 Summary of Results

Impact marine water quality monitoring was undertaking during mid-ebb and mid-flood tidal cycles at 10 designated locations including 5 impact and 5 control stations. A baseline check was conducted on 27 February 2006 prior to the commencement of marine works and a compliance checking mechanism was established in accordance with the Baseline Monitoring Report. Graphical presentation of the monitoring results are illustrated in **Appendix G**.

5.1.1 Summary of Mid-Ebb Tide

The lowest DO levels for surface & middle and bottom positions were 5.57 mg/L and 5.35 mg/L respectively at WWFCZ1 on 25 September 2006. There were no exceedances of DO levels during reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level was 14.1 Nephelometric Turbidity Unit (NTU) at WWA1 on 09 October 2006. There were 15 exceedances of Tby levels during the reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

The highest SS level was 31.0 mg/L at WWFCZ2 on 08 December 2006. There were 36 exceedances of SS levels during the reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

5.1.2 Summary of Mid-Flood Tide

The lowest DO levels for surface & middle and bottom positions were 5.64 mg/L at WWA3 on 20 September 2006 and 5.37 mg/L at WWFCZ2 on 04 September 2006 respectively. There were no exceedances of DO levels during reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level was 11.1 NTU at WWA3 on 09 October 2006. There were 9 exceedances of Tby levels during the reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

The highest SS level was 43.8 mg/L at WWFCZ2 on 8 November 2006. There were 10 exceedances of SS levels during reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

6 Implementation Status on Environmental Protection Requirements

The CT had implemented various environmental mitigation measures as stipulated in the EIA Report and EM&A Manual. The implementation status of environmental mitigation measures during the reporting period is summarized in **Appendix H**.

7 Quarterly Summary, Environmental Complaint and Non-compliance Record

7.1 Summary of Waste Disposal

Disposal of waste material during the reporting period generally complied with the corresponding waste disposal requirements. The waste disposal quantity during the reporting period is summarised in **Table 7-1**.

Table 7-1: Waste disposal quantity during the reporting period

Type of was	te or material	Disposal at	No. of loads or quantities
C&D waste		WENT Landfill	150 tonnes
C&D material	By truck	Public Filling Reception Facility in	24,983 tonnes
C&D material	By barge	Tuen Mun Area 38	0 tonnes
Chemical waste	:	Collected by licensed collector 0	

7.2 Complaint Record

There was no environmental complaint received during the reporting period.

7.3 Summary of Exceedance

There were no exceedances for air quality and noise monitoring during the reporting period.

However, there were 70 exceedances of marine water quality monitoring during the reporting period. After ET's investigation, only 1 exceedance of SS Baseline Check Criteria was likely due to the construction activities of the Project. The remaining exceedances were unlikely related to the Project and might be to due to natural variation of marine water. The exceedances are summarized in the **Tables 7-2 and 7-3.**

Table 7-2: Summary of exceedances of marine water quality monitoring related to construction works from September to November 2006.

		Number of exceedances									
Tide Month		DO (mg/L)			Tby (NTU)			SS (mg/L)			Total
		Baseline Check	Action Level	Limit Level	Baseline Check	Action Level	Limit Level	Baseline Check	Action Level	Limit Level	
Mid- flood	Sep	0	0	0	0	0	0	1	0	0	1
To	otal	0	0	0	0	0	0	1	0	0	1

Table 7-3: Summary of exceedances of marine water quality monitoring not related to construction works from September to November 2006.

Tide		Number of exceedances									
	Month	DO (mg/L)			Т	Tby (NTU)			SS (mg/L)		
		Baseline Check	Action Level	Limit Level	Baseline Check	Action Level	Limit Level	Baseline Check	Action Level	Limit Level	
q	Sep	0	0	0	2	0	2	10	0	0	14
Mid-Ebb	Oct	0	0	0	3	1	7	10	0	1	22
Σ	Nov	0	0	0	0	0	0	14	0	1	15
pc	Sep	0	0	0	0	0	0	0	0	0	0
Mid-flood	Oct	0	0	0	2	3	4	5	1	1	16
Ž	Nov	0	0	0	0	0	0	1	0	1	2
To	otal	0	0	0	7	4	13	40	1	4	69

The exceedance of SS level at WWA2 on 14 September 2006, which was related to the Project, was likely due to heavy rainstorm in preceding day (i.e. 13 September 2006). Muddy runoff was observed discharging into nearby gullies at Castle Peak Road from the site entrance of Slope A and muddy marine water was also observed near Seawall A and B during site inspection conducted by ET auditor on 14 September 2006. Although the exceedance of SS level was only marginal to the Baseline Check Criteria, the SS level at WWA2 was higher than that at control station, WRA2. The CT mobilised workers to clear the silt deposited in gullies and along Castle Peak Road immediately. The CT also paved the site entrance of Slope A, diverted the runoff to desilting tank and conducted regular clearing of the desiliting facility. The CT closely monitored the effectiveness of the temporary drainage system. With the remedial work implemented, the subsequent marine water quality monitoring data (16, 18 and 20 September 2006) indicated resumption to normal ambient conditions

A comparison between the quarterly mean of SS and the 1.3 times the baseline mean was conducted for each monitoring station and the results are shown in **Table 7-4**. The quarterly mean of SS monitoring data collected in the reporting period was lower than 1.3 times of the baseline mean at both mid-ebb and mid-flood tides. The statistical analysis results are given in **Appendix J**.

Table 7-4: Comparison of guarterly mean and 130% of the baseline mean

	·	Mid-e	ebb	Mid-fl	ood
Monitoring	Station	130% Baseline Mean	Quarterly Mean	130% Baseline Mean	Quarterly Mean
Impact Station	WWA1	22.1	10.5	20.9	11.1
	WWA2	24.8	9.8	21.6	10.9
	WWA3	22.5	10.6	22.6	10.7
	WWFCZ1	24.6	9.4	21.6	11.6
	WWFCZ2	22.7	10.2	22.8	12.4
Control Station	WRA1	22.2	9.9	23.1	9.9
	WRA2	22.5	9.4	23.2	9.7
	WRA3	22.8	9.6	21.2	9.9
	WFCZR1	23.4	9.6	22.5	12.9
	WFCZR2	26.0	9.6	24.2	12.3

7.4 Notification of Summons and Successful Prosecution

No notification of summon and prosecution was received during the reporting period.

7.5 Environmental Licenses

One Construction Noise Permit (CNP) was granted during the reporting period. A summary of the valid environmental licences is given in **Table 7-5.**

 Table 7-5:
 Summary of valid environmental licences during the reporting period

Type of Licence	Reference No.	Valid from	Valid to
Environmental Permit	EP-219/2005	20 Jun 2005	Not applicable
Registration of Chemical Waste Producer	5111-336-C2869-49	16 Feb 2006	Not applicable
Water Discharge Licence	EP-760/336/011348 I	31 Mar 2006	31 Mar 2011
Construction Noise Permit	GW-RW0326-06	09 Jun 2006	08 Dec 2006
Construction Noise Permit	GW-RW0349-06	23 Jun 2006	22 Dec 2006
Construction Noise Permit	GW-RW 0654-06	14 Nov 2006	15 Mar 2007

8 Comments, Recommendation and Conclusion

8.1 Comments and Recommendations

Regarding the air quality, haul roads within the site were observed dry and dusty and mud trails were observed on public road occasionally. The CT implemented mitigation measures upon requested by the ET. These included frequent watering of dry and dusty haul road and clearing of mud trails.

Accumulation of general refuse and C&D waste were occasionally observed by the ET. The CT cleared the waste upon requested by the ET. Oil drums were observed without driptray. The CT was reminded to provide driptray for oil drum and storage of oil in designated area.

Stagnant water was often observed within the construction site, but was cleared up immediately by the CT. The CT was also reminded to provide adequate drainage system for exposed/excavated areas prior to rainy season. Muddy water was observed discharging from Slope A into nearby gullies in September after a heavy rainfall. The CT mobilised workers to clear the muddy water and silt on public road immediately. The CT also paved the site entrance of Slope A, diverted the runoff to desilting tank and conducted regular clearing of the desiliting facility.

The environmental monitoring methodologies and procedures were regularly reviewed by the ET. No modification to the existing EM&A programme was recommended.

8.2 Conclusion

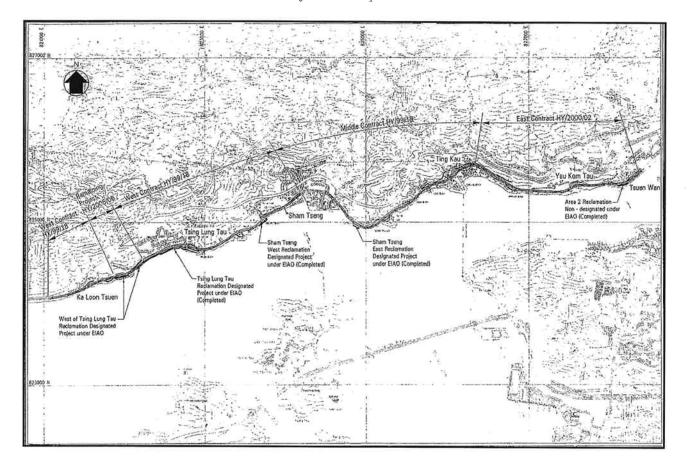
The EM&A programme was implemented during the reporting period, including marine water quality monitoring and environmental site audits. The environmental performance of the Contractor during the reporting period was in general satisfactory. Upon advised by the ET, remedial measures had been taken to mitigate the environmental impacts caused by the construction activities. As a whole, EM&A programme had been well conducted in the reporting period.

9 References

- [1] Mouchel Halcrow Joint Venture. January 2006. Supplementary Agreement No.1 Remaining Project EM&A Manual for Construction of Reclamation West of Tsing Lung Tau.
- [2] Ove Arup & Partners Hong Kong Limited. January 2006. Castle Peak Road Improvement – West of Tsing Lung Tau. Contract No.HY2005/06.Environmental Baseline Monitoring Report (Second Issue)

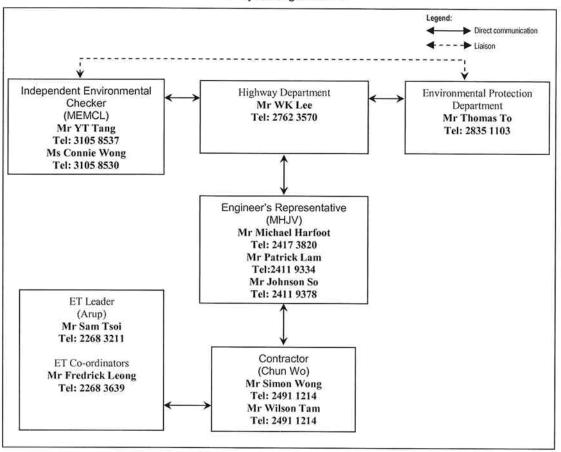
Appendix A
Project Location Plan

Project location plan



Appendix B
Project Organisation
Chart

Project Organisation



Appendix C
Construction
Programme

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1 30/05/cos 26/07/cos 2	43 02/05/06	2.5 Dia Bored Pile Construction (B01.23)	
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Tucklon (B01.24) 28 18/07/06 18/03/06 19 19 19 19 19 19 19 1	15 08/07/06	2.5 Dis Bored Pile Construction (801.26)	
Sheet 1 of 5 Sh	28 18/07/06	V Parameter Pile Construction (801.24) V	
20/08/06 15/00 Contract No. HY/2005/06 Interess 1.0 Contract No. HY/2005/06 Castle Peak Read Improvement West of Tsing Lung Tau CSD Works Programme Rev 1		CSD2 Chun We Construction & Ena. Co. Ltd Sweet 1 of 5 Bare Revision	bevoided
Castle P			
		CSD Works Programme Rev 1	

	Plant Mobilization & Testing	2 18/04/06*	19/04/06	4
	Formation of Tempoary Working Platform 31-33		22/04/06	Formation of Temporary Working Pletroom 31-33
П	Initial Setting up for Bored Pile Construction	5 24/04/06	28/04/06	Inhibit Setting up for Bored Pile Construction
4BP3110 2.5	2.5 Dia Bored Pile Construction (B01.33)	15 29/04/06	18/05/06	LE Dia Boyed Piel Construction (601 33)
T	Set up tot bared File Bot. 3) 2.5 Dia Bared Pile Construction (Bot 31).	18 20/05/06	10/06/06	South of Local Constitution (1911, 31)
Т	Set Up for Bored Pile B01.32	1 12/06/06	12/06/06	Sat Up for Bored Pile BO132
Г	2.5 Dia Bored Pile Construction (B01.32)	14	28/06/06	To Die Bored Pile Construction (801.32)
4BP3131 Forr	Formation of Tempoary Working Platform 28-30	\$ 29/06/06	90/20/50	WFormation of Temporary Working Platform 26-30
	2.5 Dla Bored Pile Construction (B01,29)	13	20/07/06	2.5 Die Bored Pile Construction (801.29)
	Set Up for Bored Pile 801,30	1 21/02/06	21/07/06	Set Up for Bored Pile Bot 30
	2.5 Dia Bored Pile Construction (B01.30)	11 22/07/06	03/08/06	E. 3. Use lated Pile Constitution (BVT.30)
4BP3135 Set	Set Up for Bored Pile BU1 28 2.5 Dia Bored Pile Construction (B01 28)	16 05/08/06	23/08/06	Set Up to the death of the construction (BU128)
	Excavation to Road Formation & Rock Cut	60 01/09/06	13/11/06	Excavation to Food Formation & Rook Cut
Г	Bored Pile Lagging Wall Construct (23-33)	40 14/11/06	03/01/07	
П	Top Capping Beam	22 04/01/07	29/01/07	Top Cappling Beam
4BP3180 Wal	Wall Facing Panel Installation	40 30/01/07	22/03/07	What Facing Fatre Installation
oy.	Roadworks Construction	and and and	100 100 100	The second of th
ARW4100	Construct E/B U/G drainage & watermain	50 10/41/06	11/01/07	And the Charles of th
7	IIII Watermain Crizoso to Crizoso (120 III) EB	35* 06/01/07	15/02/07	Bearing Land EB
Т	Construct E/B Rd Kerb, Barrior& Surfacing	18 18/01/07	07/02/07	Opisitude EIS Rd Kerb, Berner& Surfacing
Γ	Divert the original road to the E/B	1 08/02/07	08/02/07	Divert the original your for El®
	Construct E/B Beam Barrier & Footpath	30 24/02/07	30/03/07	Construct E/B Beam Barrior & Footpath
	Construct W/B U/G draInage & watermain	40 09/02/07	02/04/07	Construct WIS US drainage & watermain
g	Utilities Laying W/B	48* 15/02/07	21/04/07	William Land Land Land Land Land Land Land Land
4RW4615 Con	Construct W/B Beam Barrier & Football	15 03/04/07	24/04/07	Construct Wile Beam Barrier & Footpath
	TTM Staging Preparation	19 07/12/06	02/01/07	Managuri X Staging Preparation:
	TMLG Meeting	1 03/01/07	03/01/07	TMLQWeeting
4RW4640 RM	RMO/Roadwork Advice	10 04/01/07	15/01/07	HIMO/Noadwork Advice.
rea 3 Cons	Area 3 Construction(Ch1+825 to Ch2+030)	+030)		
⋖	pnstruction	20100100	Soloston	Monatural (A constitution)
3SWA0500 Not	Seawar A Construction Notification to Marine Debt. & EPD	28 07/01/06	03/05/06 INO	
	Install Sill Curtain	4 04/02/06		Invarial Str Curtain
	Dredging / Rockfill(700)	50 04/02/06	03/04/06	Condiging / Prockfill (700)
П	Place rockfill(700)	45 04/04/06	90/90/20	Place rockfill(700)
	Place rock armour	21 03/06/06	27/06/06	Fisco Tox almont
35WA1400 Plac	Construct lower HC fetaming well (Bay 1-18) Place rockfill(200)	32 25/08/06	30/09/06	District Control of the Control of t
Г	Complete rock armour	22 16/09/06	13/10/06	Complete rock armour
	Construct upper RC retaining wall (Bay 1-17)	64 28/09/06	14/12/06	Copartuct upper RC retaining wall (Bay 1-17)
3SWA1700 Bac	Backfilling	56 19/10/06	27/12/06	Management (Backfilling)
ş		***************************************	000000000000000000000000000000000000000	The Daywood Glove D & C.
SEWEDDO CUR	Cut Proposed Slope B, D & E	40 16/08/06	30/09/06	West Court Court of the Stope at a little still on the Stope a
ork	Boadworks Construction			
3RW2100 Cor	Construct W/B U/G drainage & watermain	56 25/10/06	03/01/02	Marian Marian Mile UrG draingge & waiemtain
	Construct W/B Rd Kerb, Barner& Surfacing	18 23/12/06	16/01/07	W Conjestruct WR Ript Kerb, Berrier & Surfacing
1	1m Watermaln CH1825 to Ch2030 (205 m) W/B	1	11/12/06	EMERGENE II W Maternal IC (1825) to CA2020 (205 m) WB
A03RW4200 GA	GAS PIPE LAYING W/B	42 07/11/06	28/12/06	EMPERIOR OF THE LINE WE
	Usities Laving W/B	56 04/01/07	15/03/07	Benginstand False Laying W/IB
	Divert the original road to the W/B	1 17/01/07	17/01/07	Divier the original road to the W/B
Date	21/12/05	TOTAL PROPERTY OF THE PERSON NAMED IN	INVESTIGATION Early Bar	CSDS
Data Date	21/12/05 22/12/05		Progr	21/08/
				Castle Peak Road improvment West of Tsing Lung Tau
				AAA 11. d.s. D
				CSD Works Programme Hev 1

3RW2505 Construct W/B Beam Barrier & Footpath	Dur Start 35 18/01/07	Finish 05/03/07	THE LIMBA APPLIANT JUN JULI AND LECTINOV DECLIJAN FEB IMARI APPLIANT JUN LIUN AND SEPTIOCI NOVI DECLIJAN FEB IMARI APPLIANT JUN JUN JUN LIUN AND SEPTIOCI	MG SEP O
Г		29/03/07	Institute view of an artistic control of the contro	
8		20/04/07	The state of the s	
3RW2505 Construct E/B Rd Kerb, Barriera Surfacing		24/04/07	Construct EIB Rd Kerb, Barrier & Surfacing	
	19 21/11/06	12/12/06	TTM Sholing Personality	
	1 13/12/06	13/12/06		10000
3RW2630 RMO/Roadwork Advice	Ľ	28/12/06	www.franch.com/crosswork.kdv/ce	
Area 5 Construction(Ch2+150 to Ch2+300)				
B				
\neg	204* 04/02/06	11/10/06	Segval B construction	
	3 04/02/06	07/02/06	Install SI Curlain	
2SWB1000 Dredging / Rockfill (700)	50 04/02/06	03/04/06	Conditing Robelli (700)	
2SWB1200 Place rock armour	28 04/04/06	29/05/06	The state of the s	
T	90/20/08	01/09/06		
П	28 22/08/06	22/09/06		
2SWB1500 Complete rock armour	14 23/09/06	11/10/06	Transformitation rich armount	
	35 26/01/07	13/03/07	Construct RC Retaining Well (Bey 1-5)	
ADSSWELLOW Backfilling ADSWELLOW Complete Book Amount	10,09/03/07	20/03/07	Backelling (Backelling)	
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	t	21/10/06	Market Construct WB U/G drainage & watermaln(Bay 6-12)	
	14	90/10/60		
	4* 10/10/06	13/10/06	B/Cross Road Duct Laying W/B	
A02RW1600 Utilities Laying W/B		30/12/06	A SAME AND	
	18 14/10/06	04/11/06	Constituted With Bild Res Surfacing	
	35	15/12/06	The control of the co	-5%
	65	16/01/07	Construct E/B U/G drainage & watermain	
		28/12/06	(#200 m) Eiß	
A02RW2100 Gas Pipe Laying E/B	28 15/11/06	16/12/06	Salest Richard EVB	
AOZHWZUUU Cross Hoad Duct Laying E/B AOZHWIZUU Litatiles Laying E/B	4 18/12/06	22/12/06	ACCOSE MODEL LAWING EAS	
Т		24/01/07	Constitute Lynn 20 March 18 Ma	
		25/01/07	• Divort the ordinal road to the EIB	
	15 13/01/07	30/01/07	Construct E/B Beam Berrier & Footpath	
	19 29/11/06	21/12/06	TTM Siteging Propriation	
2HW3710 TMLG Meeting 2HW3720 BMO/Booking Adrian	1 22/12/06	22/12/06	TMLS Metring	-
8		02/04/07	METHALOROGOMON ACTIONS IN TO A COLUMN STATE OF THE STATE	
	1	23/04/07	The Constitute W/B Rd Kerb, Beriefra Surfacing (B1-5)	
	13 04/04/07	23/04/07	Territories Laving for B1-5	
		24/04/07	Construct W/B Beam Barrier & Foothpath (61-5)	
OUTFALL EA & EB CONSTRUCTION	N			
30F100 Construct late & cultate	(R) 120° 26/06/06	16/11/06	Lover section nonstruction (Searde - CPR)	
П	58 07/09/06	16/11/06	Constitute to these	
	35	05/03/07	Upper section place bearing)	
3OF2100 Pipe Construction (At Carriageway Portlon)	n) 35 18/01/07	05/03/07	Pipe Construction (At Carriageway Portion)	
ပ္ပို	Name of			
	12 03/02/07	16/02/07	FFW/WB: Chear existing road surface	
5HW1500 Construct W/B carriageway road surfacing		01/03/07	V Ecantilegeway road surfacing	
21/12/05 23/05/08 24/42/08	Section of the sectio	No. ************************************	anty Bar 6902 Chun Wo Construction & Eng. Co. Ltd Sheer3 of 5 Date Renation Construction & Eng. Co. Ltd Approx	Approved
22/08/06 15:0		δ	Chiltad Antholy Castle Peak Read Immorrant West of Taling Imm Tau	
			CSD Works Programme Rev 1	
THIII GVEIG OVSIGING TIE.				

Committee and a control of the con		Description	1 0000007	02/03/02	A [Divertible original road to the new road (Will)
The control of contr		E New road (W/Lb)	12 03/03/07	16/03/07	EB: clear extering road surface
Microbian Control Co	T	road surfacing	6 17/03/07	23/03/07	20
Management of the control of the c			19 03/01/07	24/01/07	Breat TM Stepling Preparation
Contract C			1 25/01/07	25/01/07	MALCA Meeting MERAO Readwork Advice
Contract and con	5RW3530 RMO/Roadwork Advice	TO STATE OF THE PARTY OF THE PA	10 26/01/07	06/02/07	
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Contract c		race, 1 lane	12.14/10/00	2// 10/00	Sconning WB earliageway road surfacility, 1 and
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Control Of Standard State		Face 1 lane	12 07/11/06	20/11/06	MBIW/R: clear existing road surface, 1 ann
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		oad surfacing, 1 lane	6 12/12/06	18/12/06	Construct Ef8 carriageway road Surfacing, 1 lane
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10	Mile Execution & domolie	execute page and surface	12 21/04/06*	08/05/06	WEWINIB: Excavation & demolish existing road surface
10 10 10 10 10 10 10 10	T	to Ch1825 (25 m) E/B	80 25/05/06	28/08/06	(SUMMARIAN IN Watermain Correction to Ch1825 (25 th) E/IB
100	T	W/B	8 23/09/06	03/10/06	21)
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100 United Lating with warmanish can be required to the part of the control of the part of the control of the part of the control of the part of t	Т	to Ch1825 (25 m) W/B	80 25/05/06	28/08/06	Commence of the Welenmain Connection to Chill 8/25 (25 m) W/B
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Contented with B. Bit See Assume and Mindred By Annual Market By Annual		ain, watermain, etc	115 08/05/06	20/03/06	Resident was proposed by the EFB: Ut6 drain, watermain, etc
Divortive degree of such stack by the control of March 1970 Divortive degree of the control of March 1970 Divortive degr		arrier&road surfacing	19 21/09/06	14/10/06	September 2015 A Septem
Sign biz Lud defining state of support of the first of support		re new road (E,W/B)	1 16/10/06	16/10/06	Over the rought of the control of th
Sign bill colored an interpretation of the colored and the c		Samer & Footpath	42 17740/06	91/11/06	MINISTER HAE EXCENT & demolish worls road surface
Contract SD PM anticing work Signory Contract SM anticing work Signory		Hies	82 01/11/06	08/02/07	Parameter Statement Stip Ret. U.G. drainage & utilities
Continue control of Car Perk	T	work	18 09/02/07	67/03/07	The Tail Construct Sitp Rd aurifacing work
This Stage Preparation This Stage Preparat	8		50 21/09/06	21/11/06	Incomplete Construction of Car Park
Participation of the company of th			15 26/08/06	12/09/06	WWITTM Stiguing Preparation
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Appendix D
Summary of EM&A
Requirements

Construction Noise

Monitoring Parameters

Construction noise monitoring will be 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.

Monitoring Frequency

Noise measurements will be conducted on a weekly basis. The monitoring time periods, monitoring parameters and frequency are summarised in **Table D-1**.

Table D-1: 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	Leq(30 min)		1
Between 1900-2300 hours on normal weekdays		Once necessity	
Between 2300-0700 hours of next day	Leq(5 min)*	Once per week	3 (consecutive)
Between 0700-1900 hours on holidays	1		

^{*} The Leq6 nin) will only be measured if construction activities are conducted in holidays and between the period of 1900 and 0700 hours during normal weekdays.

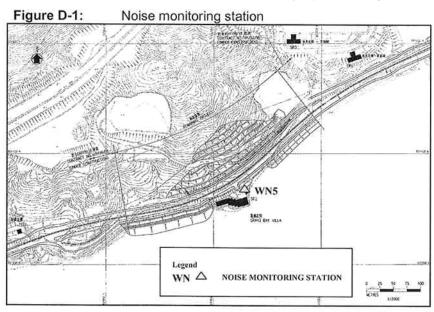
Monitoring Location

Noise monitoring will be conducted at one designated location as shown in **Figure D-1**. The details of the noise monitoring location are given in **Table D-2**. The measurements will be taken at a position 1m from the exterior of building façade and at a position of 1.2m above ground.

Table D-2: Construction noise monitoring locations

Noise Monitoring Station No.	Location	Monitoring Point	Remarks
WN5	Grand Bay Villa	G/F, House 1	Monitoring temporarily suspended *

Grand Bay Villa is currently vacant with no resident. Construction noise monitoring at WN5 temporarily suspended until the premises are occupied.



Occupancy Status of Grand Bay Villa

The property management company of Grand Bay Villa (WN5) will be coordinated a monthly basis within 10 working days of each month to confirm the occupancy status of these premises. Once this location is confirmed occupied, noise monitoring will be resumed within 1 week.

Marine Water Quality

Monitoring Parameters

Marine water quality monitoring will include 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 as far as practicable together with observations of any special phenomena, works underway at the construction site, etc.

Monitoring Frequency

Impact marine water quality monitoring will be conducted three times per week, at mid-flood and mid-ebb tides and at 10 designated monitoring locations. The interval between two sets of monitoring will not be less than 36 hours.

Monitoring Locations

A total of 10 locations, 5 for impact and 5 for control were specified for marine water quality monitoring in accordance with the EM&A Manual, which are summarised in **Table D-3** and shown in **Figure D-2**.

Table D-3: Marine water quality monitoring locations

		Loca	ation
Marine Water Quality N	Ionitoring Location No.	Eastings	Northings
M 1 50 15 M	WWA1 (Impact Location)	821981	824282
West of Grand Bay Villa	WRA1 (Control Location)	821776	824078
0.000	WWA2 (Impact Location)	822141	824352
Grand Bay Villa	WRA2 (Control Location)	822283	824107
E / (0 ID V///-	WWA3 (Impact Location)	822222	824429
East of Grand Bay Villa	WRA3 (Control Location)	822625	824222
	WWFCZ1 (Impact Location)	823500	823870
	WWFCZ2(Impact Location)	822943	823983
Ma Wan Fish Culture Zone	WFCZR1 (Control Location)	824024	824333
	WFCZR2 (Control Location)	822677	823547

Appendix E

Event and Action Plan

Table E-1: Event and Action Plan for construction noise

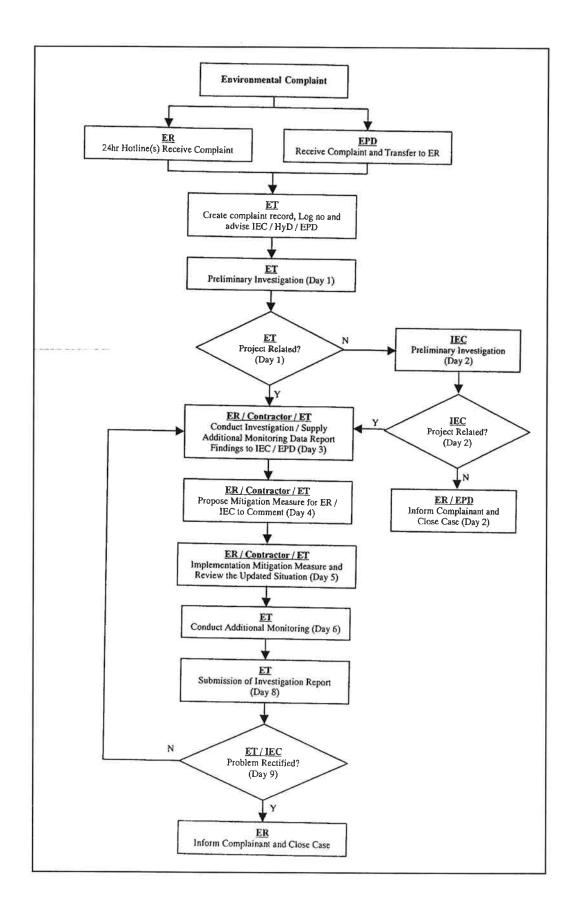
Dynami	第一日の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本	Action		
T. C.	ET Leader	IEC	H.	Contractor
Action Level	 Notify IEC and the Contractor. Carry out investigation. Report the results of investigation to the IEC and the Contractor. Discuss with the Contractor and formulate remedial measures. Increase monitoring frequency to check mitigation effectiveness. 	Review with the analysed results submitted by ET. Review the proposed remedial measures by the Contractor and advise ER accordingly. Supervise the implementation of remedial measures.	Confirm receipt of notification of exceedance in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented.	Submit noise mitigation proposals to IEC. Implement noise mitigation proposals.
Limit Level	 Notify the IEC, the ER, the DEP and the Contractor. Identify the source. Repeat measurement to confirm findings. Increase monitoring frequency. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. Inform the IEC, the ER, and the DEP the causes & actions taken for the exceedances. Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP and the ER informed of the results. 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 exceedance 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 IEC 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.

Marine Water Quality

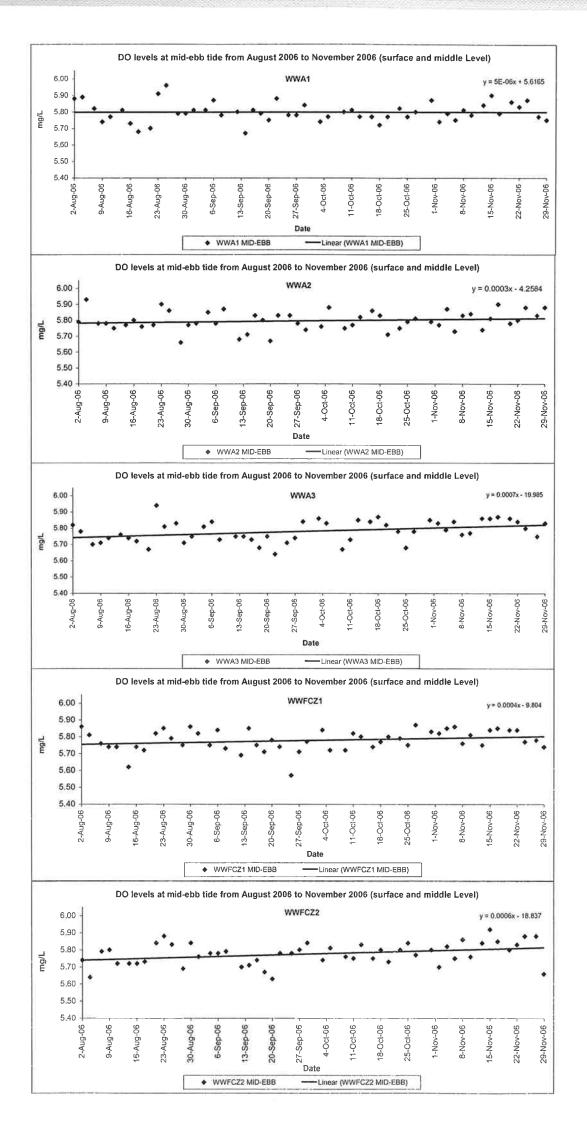
Table E-2: Event and Action plan for marine water quality

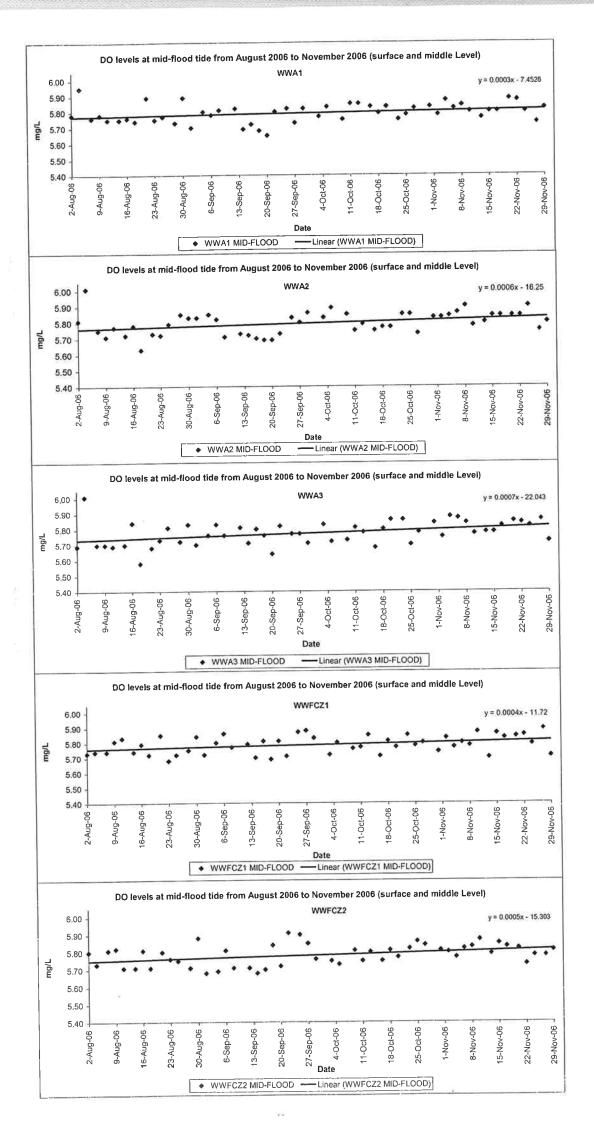
	100			Action	
Event				Action	
The second second	33	ET Leader	IEC	ER	Contractor
Action Level Action level being exceeded by one sampling day Action level being exceeded by more than one consecutive days	+ 444 Q Q + 464 Q Q P Q	itu measurement to confirm ca di the Contractor. cand the Contractor. cing data, all plant, equipment ractor's working methods. gation measures with the IEC ractor. asurement on next day of itu measurement to confirm can the Contractor. C and the Contractor. C and the Contractor. can diffe and all plant, equipment ractor's working methods. gation measures with the IEC ractor's working methods. gation measures with the IEC ractor's working methods. intigation measures are circease the monitoring frequency	1. Discuss with the ET Leader and the Contractor on the 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. 4. Discuss with the ET Leader and the Contractor on the mitigation measures. 5. Review proposals on mitigation measures. 6. Review proposals on mitigation measures submitted by the Contractor and advised the ER accordingly. 7. Assess the effectiveness of the implemented mitigation measures.	Discuss with the IEC on the proposed mitigation measures. Make agreement on the mitigation measures to be implemented. Discuss with IEC on the proposed mitigation measures. Make agreement on the mitigation measures to be implemented. Assess the effectiveness of the implemented mitigation measures.	1. Inform the ER and confirm notification of the non-complance 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 IEC and the ER. Implement the agreed mitigation measures to the IEC and the ER. Inform the ER and confirm notification of the non-compliance 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 IEC and propose mitigation measures to the IEC and the ER within 3 working days. 6. Implement the agreed mitigation measures. 7. Implement the agreed mitigation measures. 8. Implement the agreed mitigation measures. 9. Informatical measures and the IEC and the ER within 3 working days. 9. Implement the agreed mitigation measures.
Limit Level Limit level being exceeded by one sampling day	- 104 rg 0 r	-	Discuss with the ET the Contractor on the measures. Review proposals on measures submitted Contractor and advise accordingly. Assess the effectiven implemented measures.	IEC, the ET Leader and not the proposed mitigs contractor to critically review ds. fectiveness of the implement sures.	1. Inform the ER and confirm notification of the non-compliance 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 IEC and the ER, and propose mitigation measures to the IEC and the ER within 3 working days. 6. Implement the agreed mitigation measures.
Limit level being exceeded by more than one consecutive days	F	confirm DEP. Jipment Te IEC, are to daily for two	1. Discuss with the ET Leader and the Contractor on the 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 IEC, 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 mitigation measures to be implemented. 4. Assass the effectiveness of the implemented 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 EK and confirm notification of the non-compliance 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 IEC and the ER, and propose mitigation measures to the IEC and the ER within 3 working days. 6. Implement the agreed mitigation measures. 7. As directed by the ER, slow down or stop all or part of the construction activities.

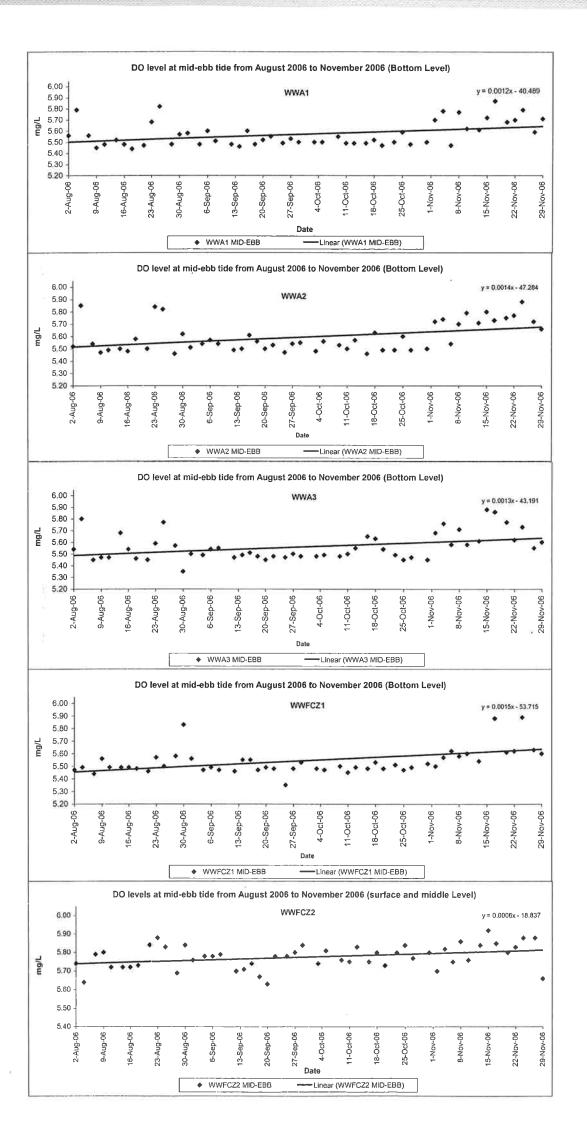
Appendix F
Complaint Procedures

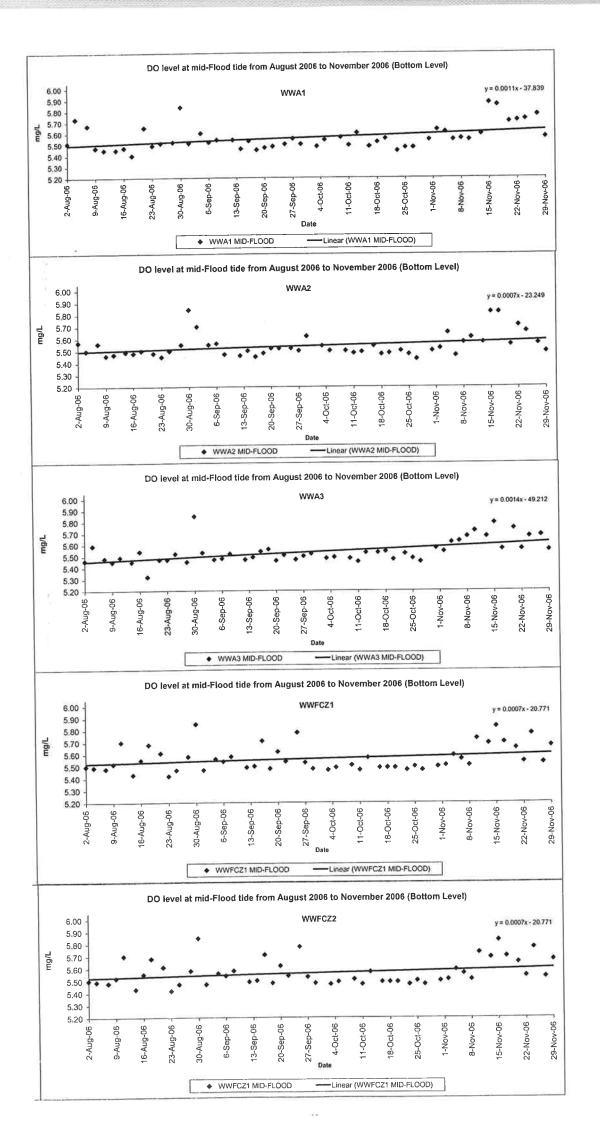


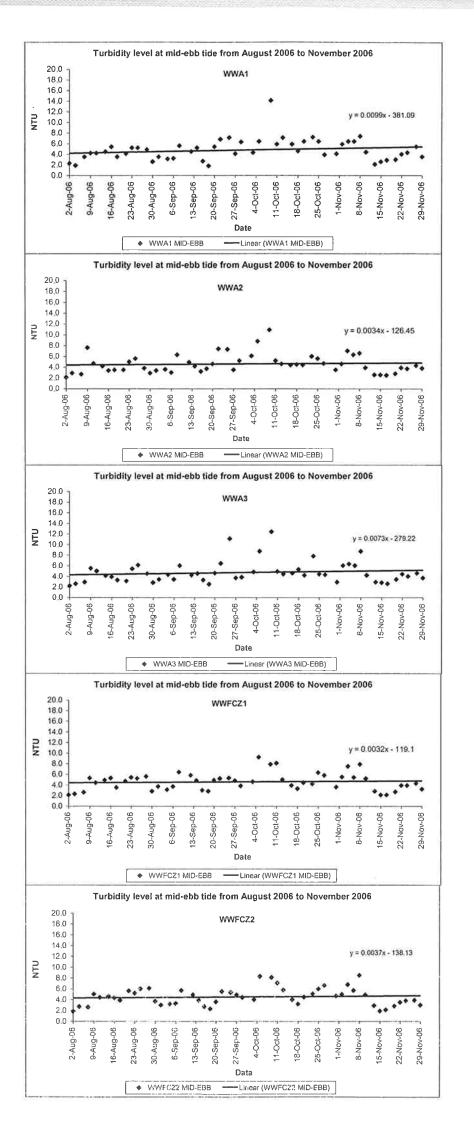
Appendix G
Graphical Presentation
of Marine Water
Monitoring Results

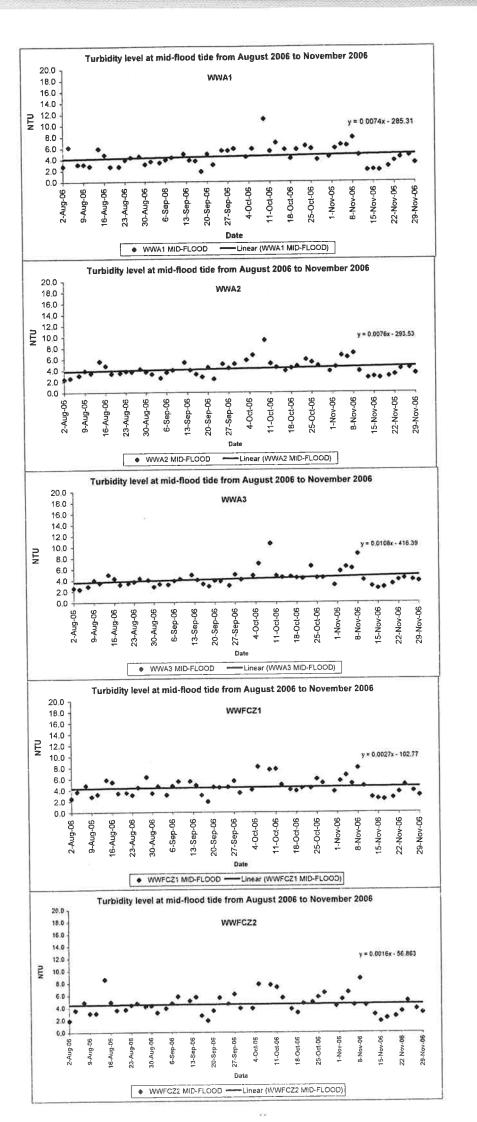


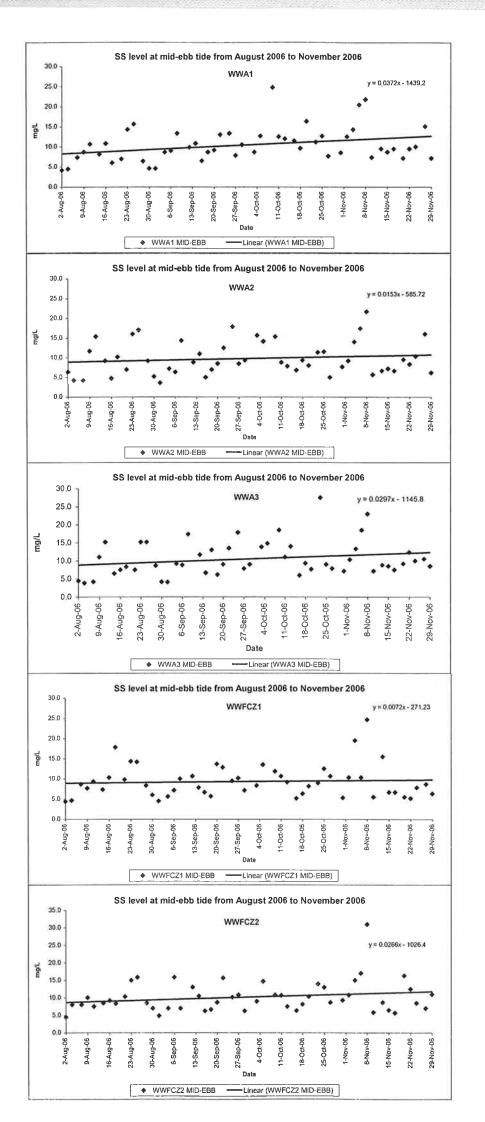


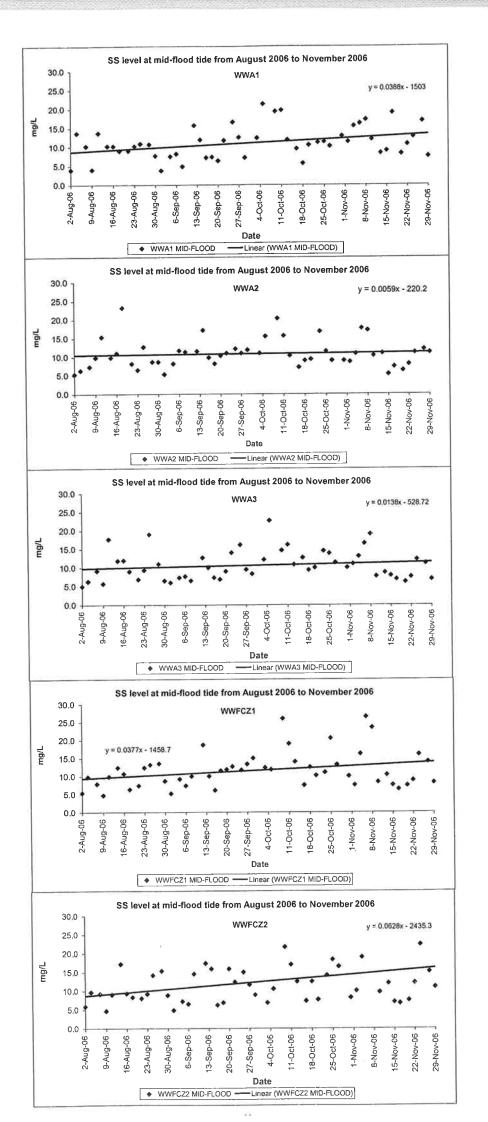












Appendix H
Implementation Status
on Environmental Protection Requirements

HY/2005/06 Castle Peak Road Improvement – West of Tsing Lung Tau (EP No. EP219/2005) Environmental Mitigation Implementation Schedule

	l ocation/	Implementation	Relevant Standard or		Implement	Implementation Stages		Implementation
Environmental Protection Measures	Timing	Agent	Requirement	Design	Construction	Operation	Decommission	Status
Construction Water Quality								
Dredging of marine sediment shall be limited to the scour apron.	West of Tsing Lung Tau Reclamation	Contractor	Environmental Permit No. 219/2005 Condition 3.1		`			Implemented
No more than a total of 2 derrick lighter shall be used West of Tsing Lung for marine dredger works. The maximum dredging are shall not be more than 1,000 and 2,000 cum per day at the reclamation east and west of Grand Bay Mila respectively.	Vest of Tsing Lung Tau Reclamation	Contractor	Environmental Permit No. 219/2005 Condition 3.2		>			Implemented
All filling activities shall be carried behind rockfill and West of Tsing Lung rock armour.	West of Tsing Lung Tau Reclamation	Contractor	Environmental Permit No. 219/2005 Condition 3.3		>			Implemented
Tightly closing grabs shall be used to restrict the loss West of Tsing Lung of fine sediment to suspension.	West of Tsing Lung Tau Reclamation	Contractor	Environmental Permit No. 219/2005 Condition 3.4		>			Implemented
Silt curtain shall be installed along the reclamation varea during construction to control sediment suspension within the work area.	West of Tsing Lung Tau Reclamation	Contractor	Environmental Permit No. 219/2005 Condition 3.5		>			Implemented
Marine water quality monitoring and audit programme shall be carried out.	West of Tsing Lung Tau Reclamation	Contractor	Environmental Permit No. 219/2005 Condition 3.6		>			Implemented
The construction method specified in Section 2.1 of the Project Profile (Register No. PP-245/2005) shall be followed during construction.	West of Tsing Lung Tau Reclamation	Contractor	Environmental Permit No. 219/2005 Condition 3.7		>			Implemented
Wastewater collected from canteen kitchens, including from basins, sinks and floor drains shall be discharged into public sewers via grease traps. Drainage system provided at car parking areas shall be equipped with oil interceptors in addition to sand or silt removal facilities.	West of Tsing Lung Tau Reclamation	Contractor	Environmental Permit No. 219/2005 Condition 3.10		>			Not Applicable

Appendix I
Investigation Summary
on Marine Water Quality
Exceedances

Contract No. HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005) Marine Water Exceedance Investigation Summary

(3)			1 × × ×	∞ ∞ L → n >		
		Kemark	Refer to ET's field record & CT's daily records.	Refer to ET's field record & CT's daily records.	Ditto	Ditto
		Closing Date	15-Sep-06	15.Sep-06	Ditto	Ditto
	-	C18 action	No action	No action	Ditto	Ditto
	i i	El s investigation	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at 2006 by ET's field staff. The exceednace contributed by the nearby stations WRA1, WRA2 and WRA3 would be unlikely due to their normal SS levels, hence the exceedance would be unlikely caused by the construction works of the Project.	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at quality were observed at staff. The exceedances of SS levels were only marginal to the Baseline Check Criteria. In addition, there were no exceedances of Tby levels on the same stations on the same attainors on the same day. Hence, the exceedances were unlikely due to the construction works of the Project. Nevertheless, the Contractor was reminded to maintain regular clearance of perimreter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	Ditto	Ditto
		Level at Impact Station	15.8	13.3	14.3	17.3
	SS (mg/L)	Control	14.2	13.0	80.	12.7
		Baseline Check	13.0	13.0	13.0	13.0
g Data		Level at Impact Station	,	,	*	3
Exceedance of Monitoring Data	Tby (NTU)	Control	,	,		
Exceedance		Baseline Check	8	9	•	9
		Level at Impact Station		·•	Ĭ.	
	DO (mg/L)	Control			v	
	00	Baseline Check	b.		ř.	i
		Position			6	
	Location	Focalion	WWFGZ2	WWA1	WWA2	WWA3
	Tide		mid-ebb	mid-ebb	mid-ebb	mid-ebb
No.	0240	Date	90-daS-9	9-Sep-06	8-Sep-06	8-Sep-06

Contract No. HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005) Marine Water Exceedance Investigation Summary

	Remark		Refer to ET's field record & CT's daily records.	Refer to ET's field record & CT's daily records.
	Closing Date	,	29-5ep-08	29-Sep-06
	CT's action		The CT mobilised workers to clear the sitt deposited in gullies and along Castle Peak Road immediately. The CT also paved the site entrance of Slope A, diverted the runoff to desilting tank and conducted regular clearing of the desiliting facility. The CT closely monitored the effectiveness of the temporary drainage system. With the remedial work implemented, the subsequent marine water quality monitoring data (16, 18 and 20 September 2006) indicated resumption to normal ambient conditions	No action
	FT's investigation		Muddy runoff was observed discharging into nearby guillies are dear the silt deposited in actate peak Road from the site deposited in a classe Road from the site entrance of Slope A and muddy marine water was also bearved near Seawall A and B entrance of Slope A, during site inspection during site inspection and september 2006. This might occuded by ET auditor on 14 September 2006. This might of the desiliting facility. The preceding day (i.e. 13 September 2006). Althrough the exceedance of SS level was only marginal to the Baseline Check Criteria, the SS spermber 2006 indicated resulting mortiform of the exceedance was unlikely the covertoexposed stores and divert all runoff to desiliting facilities before discharging.	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at quality were observed at 2006 by ET's field staff and no exceedances were recrded at other impact monitoring stations. The exceedance contributed by the nearby stations WRA1, WRA2, WRA3 and WWFCZ2 would be unlikely due to their normal SS levels. Hence, the exceedance would be unlikely caused by the construction works of the Project and might be due to natural variation.
		Level at Impact Station	2.7.7	7.87
	SS (mg/L)	Control	ro.	12.2
		Baseline Check	17.0	13.0
Data	S	Level at Impact Station	ū	
f Monitoring	Tby (NTU)	Control	,	
Exceedance of Monitoring		Baseline Check	7	e
3	6-	Level at Impact Station	8	4
	DO (mg/L)	Control	,	Ĭ.
	000	Baseline Check	,	in the second se
		Position	9	
		Location	WW AZ	WWFGZ1
8		Tide	mid-flood	mid-ebb
		Date	14-Sep-06	20-Sep-06

Contract No. HY/2006/06 Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005) Marine Water Exceedance Investigation Summary

		SHEET 3.5	Tax .	Til	1	
		Kemark	Refer to ET's field record & CT's daily records.	Ditto	Ditto	
		Closing Date	3-Oct-06	Ditto	Ditto	
		CI s action	No action	Ditto	Ditto	
		El s investigation	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at quality were observed at WWA2, WWA3 and WWFCZ2 on 22 September 2006 by ET's field staff. The exceedance levels were comparable to the levels were marginal to the Baseline Check Criteria. Hence the exceedances were marginal to the Baseline Check Criteria. Hence the construction works of the Project and might be due to natural variation of marine water. The Contractor was reminded to intercept stormwater entering the site, provide cover to exposed slopes and divert all runoff to desilting facilities before	Ditto	Ditto	
		Level at Impact Station		13.5 C.5	15.7	
	SS (mg/L)	Control		8.9	13.5	
		Baseline Check		13.0	13.0	
) Data	Tby (NTU)	Level at Impact Station	7.4	ras:		
of Monitoring		Tby (NTU)	Control	ω ω	3.00	
Exceedance of Monitoring Data		Baseline Check	ις.	S(#))	×	
		Level at Impact Station		•	ı.	
	DO (mg/L)	Control	in the state of th	i# I	N:	
	ı) oq	n) OG	Baseline Check		1	ş
		Position				
	100000		WWAZ	WWA3	mid-ebb WWFCZ2	
	Tido		mid-ebb	mid-ebb	mid-ebb	
Total Supplement	Coto		22-Sep-06	22-Sep-06	22-Sep-06	

Contract No. HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005) Marine Water Exceedance Investigation Summary

	Remark		Refer to ET's field record & CT's daily records.	Ditto	Ditto
	Closing Date		3-04-96	Ditto	Ditto
	CT's action		No action	Ditto	Ditto
	FT's investigation		No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at quality were observed at WWA1, WWA2 and WWA3 on 25 September 2006 by ET's field staff. The exceedances were marginal to the Baseline Check Criteria. During monitoring period, rock fill was being unloaded from the barge at Seawall A and no reclimation works was conducted. Hence the exceedances would be unlikely caused by the construction works of the Project and might be due to matural variation of marine water. The Contractor was reminded to intercept stormwater entering the site, provide cover to exposed siopes and divert all runoff to desitting facilities before	Ditto	Ditto
		Level at Impact Station	EN E	17.8	17.8
	SS (mg/L)	Control	10.0	8.2	12.0
		Baseline Check	13.0	13,0	13.0
Data		Level at Impact Station	1.2	7.3	11.1
f Monitoring	Tby (NTU)	Control	4.4	4.6	4.7
Exceedance of Monitoring Data		Baseline Check	0.5 5	6.5	6,5
ш		Level at Impact Station	·	i.	4
	DO (mg/L)	Control		•	,
	000	Baseline Check	**	×	
		Position	,	,	(40)
		Location	WWA1	WWA2	WWA3
	11.0	Tide	дда-ріш	mid-ebb	mid-ebb
		Date	25-Sep-06	25-Sep-06	25-Sep-06

Contract No. HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005) Marine Water Exceedance Investigation Summary

	i	кетатк	Refer to ET's field record, photos & CT's daily records.	Ditto
		Closing Date	13-Oct-06	Ditto
		C s action	No-action	Ditto
世の人との 一世の		El s investigation	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at WWA2 and WWA3 on 3 October 2006 by ET's field staff. The weather was sunny and fine during monitoring period. In addition, there were no exceedances of Tby levels on the same stations on the same stations on the same day. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to matural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept and implement appropriate and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	Ditto
		Level at Impact Station	15.7	13.8
	SS (mg/L)	Control	2.7	9.5
		Baseline Check	13.0	13.0
Data	Tby (NTU)	Level at Impact Station	9	a.
f Monitoring		Tby (NTU)	Control	
Exceedance of Monitoring		Baseline Check	Ti and the state of the state o	
		Level at Impact Station		ĸ
S = 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DO (mg/L)	Control	3	
all Shares		Baseline Check	e e	·
		Position		*
	Location		WWA2	WWA3
108 H745	Tide		mid-ebb	mid-ebb
	Date		3-Oct-06	3-Oct-06

Contract No. HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005) Marine Water Exceedance Investigation Summary

	Remark		Refer to ET's field record, photos & CT's daily records.	Ditto	Ditto	Ditto	Ditto	Ditto	Ditto	
	Closing Date		13-Oct-06	Ditto	Ditto	Ditto	Ditto	Ditto	Ditto	
	CT's action		No-action	Ditto	Ditto	Ditto	Ditto	Ditto	Ditto	
	ET's investigation		No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 5 October 2006 by ET's field staff. The weather was sunny and fine during monitoring period. There were no filling activities conducted on the same day. In general, the exceedance levels were comparable to the levels recorded at control stations. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entening the site and implement appropriate mitigation measures to maintains.	Ditto	Ditto	Ditto	Ditto	Ditto	Ditto	
		Level at Impact Station	2.4- 5.4- 5.4- 5.4- 5.4- 5.4- 5.4- 5.4- 5	14.8	13.5	21.3	22.7	ı	ŕ	
	SS (mg/L)	Control	11.2	12.7	11.0	14.8	8.3			
		Baseline Check	13.0	13.0	13.0	17.0	17.0	•	*	
Data		Level at Impact Station	හ. ග	8.7	9.2		7.0	1.8	7.8	
Exceedance of Monitoring Data	Tby (NTU)	Control	4.7	6,5	7.0		6.2	7.1	7.7	
xceedance o		Baseline Check	6.5	6.5	6.5		6.6	9.9	6.6	
Ü			Level at Impact Station		×					
	DO (mg/L)	Control								
	ı) oq	Baseline Check	× ×	22	1.8		,8:		ŀ	
		Position			,		×			
1000000		Location	WWA2	b WWA3	b WWFCZ1	WWA1	d WWA3	mid-flood WWFCZ1	mid-flood WWFCZ2	
		Tide	mid-edb	mid-ebb	mid-ebb	mid-flood	mid-flood			
		Date	5-Oct-06	5-Oct-06	5-Oct-06	5-Oct-06	5-Oct-06	5-Oct-06	5-Oct-06	

Contract No. HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005) Marine Water Exceedance Investigation Summary

100	۽		CCTs cords.								
	Domork		Refer to ET's field record, photos & CT's daily records.	Ditto	Difto	Difto	Ditto	Ditto	Ditto	Ditto	Ditto
	Closing Date	Closing Date	20-Oct-06	Ditto	Ditto	Ditto	Ditto	Ditto	Ditto	Ditto	Ditto
	CTe arelion	CI S ACTION	No-action	Ditto	Ditto	Ditto	Ditto	Ditto	Ditto	Ditto	Ditto
	ETe invectination	o III	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 9 October 2006 by ET's field staff. No marine works were being conducted on the same day. In general, the exceedance levels were comparable to the levels recorded at control stations. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimreter channels at site boundaries to intercept stormwater entering the site and implement appropriate militigation measures to minimize run-off of muddy site effluent into storm drains.	Ditto	Ditto	Ditto	Ditto	Ditto	Ditto	Ditto	Ditto
		Level at Impact Station	24.7		18.5	ŵ	19.3	20.3	200 100 100 100 100 100 100 100 100 100	26.0	ij
	SS (mg/L)	Control	18.33		16.8		15.8	14.8	•:	25.5	£1
		Baseline Check	13.0	э	13.0	a	17.0	17.0	1 5	17.0	6
i Data		Level at Impact Station	14.1	10.9	12.4	20.	11.1	,	10.6		7.7
of Monitoring	Tby (NTU)	Control		9.5	1.1	7.0	10.1	*	10.2		8,8
Exceedance of Monitoring Data		Baseline Check	က် က	6.5	6.5	6.5	0.0	*	6.6	¥il	6.6
		Level at Impact Station		23			.		**	•:	
	DO (mg/L)	Control		9				i.	e		
) oq	Baseline Check	•		÷	i	ě			6.	
		Position		э			X 1	r.	,	•0)	
	Location		WWA1	WWA2	WWA3	WWFCZ2	WWA1	WWA2	WWA3	mid-flood WWFCZ1	mid-flood WWFCZZ
	Tide		шід-ерр	mid-ebb	mid-ebb	mid-ebb	mid-flood	mid-flood	mid-flood	mid-flood	mid-flood
	Date		9-Oct-06	9-Oct-06	9-Oct-06	9-Oct-06	9-Oct-06	9-Oct-06	9-Oct-06	9-Oct-06	9-Oct-06

Contract No. HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005) Marine Water Exceedance Investigation Summary

	Remark		Refer to ET's field record, photos & CT's daily records.	Ditto	Ditto	Ditto	
	Closing Date		28-0ct-06	Ditto	Ditto	Ditto	
	CT's action		No action	Ditto	Ditto	Ditto	
	FT's investigation		No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 11 October 2006 by ET's field staff. No marine works were being conducted on the same day, in general, the exceedance levels were comparable to the levels recorded at control stations. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to maintains.	Ditto	Ditto	Ditto	
		Level at Impact Station	2 80 6 2 7 8 2 8 8 8 2 2 3 3 2 2 2 2 2 2 2 2 2 2 2	19.7		100	
	SS (mg/L)	Control		11.2		40	
		Baseline Check	t.	17.0			
Data		Level at Impact Station	1.8		7.7	7.3	
f Monitoring	Tby (NTU)	Control	ω ώ	74	5.9	8.8	
Exceedance of Monitoring		Baseline Check	ις ·G		9.9	9.9	
3		Level at Impact Station			34	*	
	DO (mg/L)	ng/L)	Control	,			
	00	Baseline Check		000	(0	7. X	
		Position		P		1	
		Location	mid-ebb WWFCZ1	WWA1	mid-flood WWFCZ1	mid-flood WWFCZ2	
81.	78	Tide	mid-ebb	mid-flood	mid-flood	mid-flood	
1000		Date	11-Oct-06	11-Oct-06	11-Oct-06	11-Oct-06	

Contract No. HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005) Marine Water Exceedance Investigation Summary

00.					
		Kemark	Refer to ET's field record, photos & CT's daily records.	Ditto	Ditto
		Closing Date	28-Oct-06	Ditto	Difto
	Ę	CI & action	No action	Ditto	Ditto
		C1 S IIIVestigation	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 13 October 2006 by ET's field staff. No marine works were being conducted on the same day. The exceedance levels were marginal to the baseline check criteria. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to mainize nun-off of muddy site effluent into storm drains.	Ditto	Difto
		Level at Impact Station		14.0	i
	SS (mg/L)	Control	E	7.5	æ
		Baseline Check	E .	13.0	
g Data	Tby (NTU)	Level at Impact Station	F.2	# '*	ත ග
of Monitorin		Tby (NTU)	Control	ဖ က	
Exceedance of Monitoring Data		Baseline Check	ιο ώ	•	9.6
		Level at Impact Station	6)		×
	DO (mg/L)	Control	e.		
	00	Baseline Check	to .	×).
		Position		\$6	
	Location	Location	WWA1	WWA3	WWA1
	Tido		mid-ebb	mid-ebb	mid-flood
	Cote		13-Oct-06	13-Oct-06	13-Oct-06

Contract No. HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005) Marine Water Exceedance Investigation Summary

100	Remark		Refer to ET's field record & CT's daily records.
	Closing Date		28-Oct-06
	CT's action		No action
	FT's investigation		No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 20 October 2006 by ET's field staff. No manine works were being conducted on the same day. The weather was sunny and fine during monitoring and the exceedance levels were marginal to the baseline check criteria. Hence, the exceedance levels were to the construction works of the Project and might be due to natural variation of manine. Water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize un-off of muddy site effluent into storm drains.
		Level at Impact Station	8. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.
	SS (mg/L)	Control	5.
		Baseline Check	13.0
Data		Level at Impact Station	6
f Monitoring	Tby (NTU)	Control	
Exceedance of Monitoring Data		Baseline Check	
ш		Level at Impact Station	ž.
	DO (mg/L)	Control	
	000	Baseline Check	
		Position	,
		Location	WWA1
TENON S		Tide	шід-ерр
		Date	20-Oct-06

Contract No. HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005) Marine Water Exceedance Investigation Summary

		mark	to ET's ecord & s daily ords.	Ditto	O CO
Refer to ET's field record & CT's daily records.					
		Closing Date	8-Nov-06	Ditto	Since of
CT's action			No action	Ditto	2000
		ET's investigation	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 23 October 2006 by ET's field staff. No marine works were being conducted on the same day. The weather was sunny and fine during monitoring and the exceedance levels were maraginal to the baseline check criteria. Hence, the exceedance levels were unitlely due to the construction works of the Project and might be due to hatural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept and implement appropriate and implement appropriate mitigation measures to maintains run-off of muddy site effluent into storm drains.	Ditto	
		Level at Impact Station 27.5	2.30007.35	14.0	
	SS (mg/L)	Control	18.8	10.2	
		Baseline Check	13.0	13.0	
) Data		Level at Impact Station	7.8		40
of Monitoring	Tby (NTU)	Control	Q io		cu
Exceedance of Monitoring Data		Baseline Check	ගු ග		20
		Level at Impact Station	1		8
	DO (mg/L)	Control	T.		
	00	Baseline Check			
		Position			
	Location		WWA3	WWFCZ2	MANATAR
	, in the second	9	Mid-ebb	Mid-ebb	
	Date		23-Oct-06	23-Oct-06	22 Oct 08

Confract No. HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005) Marine Water Exceedance Investigation Summary

Remark			Refer to ET's field record & CT's daily records.
Closing Date			8-Nov-06
CT's action			No action
ET's investigation			No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 25 October 2006 by ET's field staff. No marine works were being conducted on the same day. The weather was surnry and fine during monitoring and the exceedance levels were marginal to the baseline check criteria. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate minigation measures to minimize run-off of muddy site effluent into storm drains.
		Level at Impact Station	10. CO (10 CO C
	SS (mg/L)	Control	18.3
		Baseline Check	17.0
Data		Level at Impact Station	£
f Monitoring	Tby (NTU)	Control	
Exceedance of Monitoring Data		Baseline Check	,
W	The Control	Level at Impact Station	,
	DO (mg/L)	Control	
	000	Baseline Check	
		Position	ž.
	Location		mid-flood WWFCZ1
		Tide	mid-flood
	Date		25-Oct-06

	nark		ss. is.
		Remark	Refer to ET's field record & CT's daily records.
Closing Date			24-Nov-06
CT's action			No action
		E l's investigation	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 4 Nov 2006 by ET's field staff. No marine works were being conducted on the same day. The SS level at WWFCZI was comparable to that at control station WFCR1, where high SS level was also recorded. In addition, the location of wwWFCZ1 is far away from the construction site and no exceedances were recorded at other impact stations. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept as stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.
	SS (mg/L)	Level at Impact Station	ις: σ
		Control	8.8
		Baseline Check	13.0
) Data		Level at Impact Station	,
of Monitoring	Tby (NTU)	Control	ű.
Exceedance of Monitoring Data		Baseline Check	
		Level at Impact Station	
	DO (mg/L)	Control	,
	OQ	Baseline Check	
		Position	
	Location		Mid-ebb WWFCZ1
	Tido		Мій-ерь
	Date		4-Nov-06

Contract No. HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005) Marine Water Exceedance Investigation Summary

	Remark		Refer to ET's field record & Cors daily records.	Ditto	Ditto	Ditto						
	Closing Date		24-Nov-06	Ditto	Ditto	Ditto						
	CT's action		No action	Ditto	Ditto	Ditto						
	FT's investigation		No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at www.A1, www.A2, www.A3 and ww.WFCZ2 on 6 Nov 2006 by ET's field staff. No marine works were being conducted on the same day. High SS levels were also recorded at control stations, WRA1, wRA2, WRA3 and WFCR2. In addition, the location of WWFCZ2 is far away from the construction site. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to marine water. Nevertheless, the Contractor was reminded to marine water of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	Ditto	Ditto	Ditto						
	Tby (NTU) SS (mg/L)	Level at Impact Station	8.00	17.3	18.5	17.0						
		Control	ا ت	11.5	13.3	12.3						
		Baseline Check	13.0	13.0	13.0	13.0						
Data		Level at Impact Station		e,		,						
f Monitoring		Control		i.		×						
Exceedance of Monitoring Data		Baseline Check		*								
		Level at Impact Station										
STATE OF	DO (mg/L)	Control			ı	liv.						
	00	00	00	0 00) oq	00	000	Baseline Check	· ·		,	•
		Position			,	,						
	Location		WWW A1	WWA2	WWA3	Mid-ebb WWFCZ2						
	Tide		Mid-ebb	Mid-ebb	Mid-ebb	Mid-ebb						
	Date		6-Nov-06	6-Nov-06	90-voN-9	6 ·Nov-06						

Contract No. HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005) Marine Water Exceedance Investigation Summary

		Remark	Refer to ET's field record & CT's daily records.	Ditto	Ditto	Ditto	Ditto	Ditto
			Refer field r CT:	۵			۵	۵
	i	Closing Date	24-Nov-06	Difto	Ditto	Ditto	Ditto	Ditto
		CI's action	No action	Ditto	Ditto	Ditto	Ditto	Ditto
		El s investigation	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitroing stations on 8 Nov 2006 by ET's field staff. No marine works were being conducted on the same day. High SS levels were also recorded at control stations. In addition, the locations of WWFCZ1 and WWFCZ2 are far away from the construction site. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	Ditto	Ditto	Ditto	Ditto	Ditto
Wanted - 48	SS (mg/L)	Level at Impact Station	7.17	21.7	23.0	24.7	31.0	43,8
		Control	16.5	13.5	16.2	22.2	19.2	29.8
		Baseline Check	13.0	13.0	13.0	13.0	13.0	17.0
) Data		Level at Impact Station		i.	ŧ			7.80
of Monitoring	Tby (NTU)	Control	Ti.		F	Ši.	•	
Exceedance of Monitoring Data		Baseline Check		8 7	į.	6	(40)	a
		Level at Impact Station		×			(00)	
	DO (mg/L)	Control	3		ı		4	,
	OQ	Baseline Check	·		10	:: * ::		,
		Position	•	•0		or:		
	Ocation		WWA1	WWA2	WWA3	WWFCZ1	WWFCZ2	WWFCZ2
	Tide	CONTRACTOR OF THE PARTY OF THE	Mid-ebb	Mid-ebb	Mid-ebb	Mid-ebb WWFCZ1	Mid-ebb WWFCZ2	Mid-flood WWFCZ2
	Cate		8-Nov-06	8-Nov-06	8-Nov-06	8-Nov-06	8-Nov-06	8-Nov-06

Contract No. HY/2005/06 Castie Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005) Marine Water Exceedance Investigation Summary

ET's investigation CTs action Closing Date			Refer to ET's field record & CT's daily records.
			9-Dec-06
			No action
			No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 13 Nov 2006 by ET's field staff. No manne works were being conducted on the same day. The location of WWFCZ1 is far away from the construction site and no exceedances were recorded at WWA1, WWA2 and WWA3, which are closer to the construction site. Hence, the exceedance was unlikely due to the construction works of the Project and might be due to the water. Nevertheless, the water. Nevertheless, the contractor was reminded to maural variation of marine water. Nevertheless, the boundaries to intercept stormwater entering the site and implement appropriate militation measures to minimize run-off of muddy site effluent into storm drains.
	SS (mg/L)	Level at Impact Station	263655550F 40504440# 630 6560
		Control	ເດ
		Baseline Check	13.0
Data	Tby (NTU)	Level at Impact Station	6.
f Monitoring		Control	,
Exceedance of Monitoring Data		Baseline Check	,
ш		Level at Impact Station	
	DO (mg/L)	Control	
	000	Baseline Check	
		Position	î .
Location		Location	WWFCZ1
		Tide	Mid-ebb
Date		Date	13-Nov-06

Contract No. HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005) Marine Water Exceedance Investigation Summary

		Remark	Refer to ET's field record & CT's daily records.
		Closing Date	9-Dec-06
		CI's action	No action
ない できるなると 日本の様は		E.I. S. Investigation	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 17 Nov 2006 by ET's field staff. No marine works were being conducted on the same day. It was the only one exceedance recorded on that day and the weather condition is sumy and fine during marine wat ar quality monitoring. Hence, the exceedance was unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater. Nevertheless, the soformation measures to maintain regular clearance of perimeter channels at site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.
	SS (mg/L)	Level at Impact Station	2 n 0 6 5 - 2 0 5 2 5 4 2 0 5 1 2 5 0 5 1 2 5 0 5 1 5 n 5 2 5 0 5 1 5 n 5 2 5 0 5 1 5 n 5 2 5 0 5 1 5 n 5 2 5 0 5 1 5 n 5 2 5 0 5 1 5 n 5 2 5 0 5 1 5 n 5 2 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1
		Control	0.6
		Baseline Check	0.71
Data	Tby (NTU)	Level at Impact Station	9
f Monitoring		Control	
Exceedance of Monitoring Data		Baseline Check	
		Level at Impact Station	
	DO (mg/L)	Control	
	00	Baseline Check	Ŷ.
		Position	•
	Location		WWA1
	Tide		Mid-flood
	Date		17-Nov-06

Contract No. HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005) Marine Water Exceedance Investigation Summary

	Remark		Refer to ET's field record & CT's daily records.
	Closing Date		9-Dec-06
	CT's action		No action
	FTe investigation		No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 20 Nov 2006 by ET's field staff. No marine works were being conducted on the same day. The location of WWFCZ2 is far away from the construction site and no exceedances were recorded at WWA1, WWA2 and WWA3, which are closer to the construction site. Hence, the exceedance was unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the contractor was reminded to natural variation of marine boundaries to intercept stormwater entering the site and implement appropriate miligation measures to minimize run-off of muddy site effluent into storm drains.
	SS (mg/L)	Level at Impact Station	89 90
		Control	un.
		Baseline Check	0.61
Data		Level at Impact Station	
f Monitoring	Tby (NTU)	Control	6
Exceedance of Monitoring		Baseline Check	
Ш		Level at Impact Station	
	DO (mg/L)	Control	
	000	Baseline Check	T .
		Position	
	Location		WWFCZ2
	Tide		Mid-ebb
38	Date		20-Nov-06

	Remark		Refer to ET's field record & CT's daily records.
		<u></u>	Refer field r
		Closing Date	7-Dec-06
		CI s action	No action
		E. S. Investigation	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 24 Nov 2006 by ET's field staff. No marine works were being conducted on the same day. The location of WWFCZ1 is far away from the construction site and no exceedances were recorded at WWA1, WWA2 and NWA3, which are closer to the construction site. In addition, ligh SS level (14.3 mg/L) was recorded at WFCZR1. Hence, the exceedance was unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to marintain regular clearance of perimeter channels at site boundaries to intercept stormwater appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.
	SS (mg/L)	Level at Impact Station	© 22 20 2 20 2 20 2 20 2 20 2 20 2 20 2
		Control	14.3
		Baseline Check	13.0
g Data		Level at Impact Station	
of Monitorin	Tby (NTU)	Control	
Exceedance of Monitoring		Baseline Check	,
		Level at Impact Station	
	DO (mg/L)	Control	
	00	Baseline Check	
	Position		in the second se
	Location		WWFCZ1
No. of the last	Tide	201	Mid-ebb
	Date		24-Nov-06

Contract No. HY/2005/08 Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005) Marine Water Exceedance Investigation Summary

Remark			Refer to ET's field record & CT's daily records.	Ditto
	Closing Date		7-Dec-06 Re	Ditto
ET's investigation CT's action			No action	Ditto
			No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 27 November 2006 by ET's field staff. No marine works were being conducted on the same day. The exceedances were marginal to the Baseline Check Criteria and high SS levels were also recorded at the control stations. WRA1 and WRA2. Hence, the exceedances were unlikely due to the control stations, wRA1 and WRA2. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwaters to mightement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	Ditto
Data	Tby (NTU) SS (mg/L)	Level at Impact Station	0.00.00.00.00.00.00.00.00.00.00.00.00.0	16.0
		Control	10.2	8.3
		Baseline Check	13.0	13.0
		Level at Impact Station	,	
f Monitoring		Control		
Exceedance of Monitoring		Baseline Check	1	,
a		Level at Impact Station	v.	ř
	DO (mg/L)	Control		,
) OQ	Baseline Check		
ix i		Position		,
		Location	www.	WWA2
		Tide	Mid-ebb	Mid-ebb
THE SECTION OF	Date		27-Nov-06	27-Nov-06

Appendix J
Statistical Analysis of SS Monitoring Data

Statistical Analysis for Mid-Ebb Tide

Station WWA1

t-test

Normality Test:	Passed	(P = 0.137)
Equal Variance Test:	Passed	(P = 0.181)

Group Name	N	Missing	Mean	Std Dev	SEM
130% Baseline Mean	16	0	17.001	5.396	1.349
Quarterly Mean	51	0	10.472	4.191	0.587
Difference 6 529					

Results:

t = 5.066 with 65 degrees of freedom. (P = <0.001)

There is a statistically significant difference between two groups. (P = <0.001).

Station WWA2

Mann-Whitney Rank Sum Test

Normality Test:	Failed	(P < 0.050)

Group Name	N	Missing	Median	25%	75%
130% Baseline Mean	16	0	19.250	16.417	21.833
Quarterly Mean	51	0	8.833	6.708	12.292
n(small) = 16 $n(big) = 3$	51 (P=	=<0.001)			

Results:

T = 907.500

There is a statistically significant difference between two groups. (P = <0.001)

Station WWA3

Mann-Whitney Rank Sum Test

Normality Test:	Failed	(P < 0.050)
-----------------	--------	-------------

Group	N	Missing	Median	25%	75%
130% Baseline Mean	16	0	16.667	13.750	21.167
Quarterly Mean	51	0	9.000	7.500	13.458
n(small)=16 $n(big)=$	51 (P=	=<0.001)			

Results

T = 836.500

There is a statistically significant difference between two groups (P = <0.001).

WWFCZ1

Mann-Whitney Rank Sum Test

Normality Test:

Failed (P < 0.050)

75% Median 25% Missing Group N 18.250 14.892 21.917 16 0 130% Baseline Mean 8.667 6.417 10.667 51 Quarter Mean n(small) = 16 n(big) = 51 (P = <0.001)

Results:

T = 903.500

There is a statistically significant difference between two groups (P = <0.001).

WWFCZ2

Mann-Whitney Rank Sum Test

Normality Test:

Failed (P < 0.050)

N Median 25% 75% Missing Group 0 16.692 14.167 20.917 16 130% Baseline Mean 0 9.000 7.125 12.125 51 Quarter Mean n(small)=16 n(big)=51 (P = <0.001)

Results:

T = 866.500

There is a statistically significant difference (P = <0.001).

Statistical Analysis for Mid-Flood Tide

WWA1

t-test

Normality Test: Passed (P = 0.435)Equal Variance Test: Passed (P = 0.211)

Group Name N Missing Mean Std Dev SEM 130% Baseline Mean 16 0 16.047 5.198 1.300 0 Quarterly Mean 51 11.049 4.180 0.585 Difference 4.998

Results:

t = 3.932 with 65 degrees of freedom. (P = <0.001)

There is a statistically significant difference between the input groups (P = <0.001).

WWA2

Mann-Whitney Rank Sum Test

Normality Test: Failed (P < 0.050)

Group N Missing Median 25% 75% 130% Baseline Mean 16 0 16.750 13.558 21.000 Quarterly Mean 51 0 10.333 8.292 11.792 n(small) = 16 n(big) = 51 (P = < 0.001)

Results:

T = 814.500

There is a statistically significant difference (P = <0.001).

WWA3

t-test

Normality Test: Passed (P = 0.099)Equal Variance Test: Passed (P = 0.625)

Group Name N Missing Mean Std Dev SEM 130% Baseline Mean 16 0 17.386 4.337 1.084 Quarterly Mean 0 51 10.652 3.982 0.558 Difference 6.734

Results:

t = 5.780 with 65 degrees of freedom. (P = <0.001)

There is a statistically significant difference between the input groups (P = <0.001).

WWFCZ1

t-test

Normality Test: Passed (P = 0.056)Equal Variance Test: Passed (P = 0.628)

Std Dev SEM Missing Mean **Group Name** 16.593 4.957 1.239 130% Baseline Mean 16 4.962 0.695 0 11.621 Quarter Mean 51 Difference 4.972

Results:

t = 3.498 with 65 degrees of freedom. (P = <0.001)

There is a statistically significant difference between the input groups (P = <0.001).

WWFCZ2

Mann-Whitney Rank Sum Test

Normality Test: Failed (P < 0.050)

75% Median 25% N Missing Group 14.000 20.417 16.833 130% Baseline Mean 16 0 0 10.500 7.750 15.292 Quarter Mean 51

n(small)=16 n(big)=51 (P = <0.001)

Results:

T = 783.000

There is a statistically significant difference (P = <0.001)