

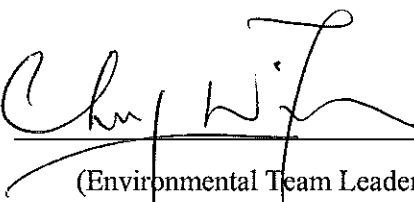
**CCECC & CRWJ Joint Venture**

**Contract No. HY/2003/19**

**Improvement to Tung Chung Road  
between Lung Tseng Tau and Cheung Sha**

**Quarterly EM&A Report  
(Version 2.0)**

August 2008 to October 2008

Certified By   
(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties.

**CINOTECH CONSULTANTS LTD**

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Tel: (852) 2151 2083

Fax: (852) 3107 1388

Email: [info@cinotech.com.hk](mailto:info@cinotech.com.hk)

# TABLE OF CONTENTS

	Page
<b>EXECUTIVE SUMMARY</b> .....	<b>1</b>
<b>1. INTRODUCTION</b> .....	<b>3</b>
<b>2. PROJECT CHARACTERISTICS</b> .....	<b>6</b>
PROJECT ORGANIZATION AND CONTACTS OF KEY MANAGEMENT .....	6
CONSTRUCTION PROGRAMME AND SYNOPSIS OF WORK.....	6
<b>3. ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS</b> .....	<b>7</b>
MONITORING PARAMETERS AND MONITORING LOCATIONS .....	7
MONITORING METHODOLOGY AND CALIBRATION DETAILS .....	7
ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS) .....	7
ENVIRONMENTAL MITIGATION MEASURES.....	7
<b>4. MONITORING RESULTS</b> .....	<b>8</b>
WEATHER CONDITIONS .....	8
AIR QUALITY.....	8
CONSTRUCTION NOISE .....	8
WATER QUALITY.....	8
<b>5. ENVIRONMENTAL AUDIT</b> .....	<b>10</b>
IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES.....	10
SITE AUDIT SUMMARY .....	10
EFFECTIVENESS OF MITIGATION MEASURES .....	11
STATUS OF ENVIRONMENTAL LICENSING AND PERMITTING.....	11
STATUS OF WASTE MANAGEMENT .....	11
<b>6. NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)</b> .....	<b>13</b>
SUMMARY OF EXCEEDANCES .....	13
CONSTRUCTION IMPACTS ON SUSPENDED SOLIDS .....	13
REVIEW OF THE REASONS FOR AND THE IMPLICATIONS OF NON-COMPLIANCE .....	14
<b>7. ENVIRONMENTAL COMPLAINTS AND PROSECUTIONS</b> .....	<b>14</b>
<b>8. COMMENTS, CONCLUSIONS AND RECOMMENDATIONS</b> .....	<b>16</b>

## **LIST OF TABLE**

Table I	Summary Table for Non-compliance Recorded in the Reporting Quarter
Table II	Summary Table for Key Information in the Reporting Quarter
Table 2.1	Key Project Contacts
Table 4.1	Summary of Water Quality Exceedances in the Reporting Quarter
Table 6.1	Summary of Measured levels of Suspended Solids

## **LIST OF FIGURES**

Figure 1	Layout Plan of the Project
Figure 2	Organization Chart
Figure 3	Monitoring Locations (7 sheets total)

## **LIST OF APPENDICES**

A	Construction Programme
B	Monitoring Requirements
C	Action and Limit Levels for Air Quality, Noise and Water Quality
D	Graphical Presentation of Air Quality Monitoring Results
E	Graphical Presentation of Noise Monitoring Results
F	Graphical Presentation of Water Quality Monitoring Results
G	Environmental Mitigation Implementation Schedule (EMIS)
H	Site Audit Summary
I	Summary Status of Environmental Licences and Permits
J	Waste Generated Quantity
K	Summary of Exceedances
L	Complaint Log
M	Summary of Warnings/Direction issued by the EPD and Prosecution

## **EXECUTIVE SUMMARY**

### ***Introduction***

1. This is the 16<sup>th</sup> Quarterly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the “Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha” (the Project). This summary report presents EM&A works performed in the period between August and October 2008.
2. The construction activities undertaken in the reporting quarter were:
  - Construction of rock fall fencing;
  - Construction of drainage and water pipe;
  - Drainage and slope works;
  - Construction of debris trap;
  - Installation of street furniture; and
  - Raising of watermain valve pit.

### ***Environmental Monitoring Works***

3. Environmental monitoring for the Project was performed regularly as stipulated in the Updated EM&A Manual and the results were checked and reviewed. Site audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.

4. Summary of the non-compliance of the reporting month is tabulated in Table I.

**Table I Summary Table for Non-compliance Recorded in the Reporting Quarter**

Parameter	Number of Exceedances due to the Project		Action Taken	Results of Action Taken
	Action Level	Limit Level		
<i>August 2008</i>				
Air Quality	0	0	N.A.	N.A.
Noise	0	0	N.A.	N.A.
Water Quality	0	0	N.A.	N.A.
<i>September 2008</i>				
Air Quality	0	0	N.A.	N.A.
Noise	0	0	N.A.	N.A.
Water Quality	0	0	N.A.	N.A.
<i>October 2008</i>				
Air Quality	0	0	N.A.	N.A.
Noise	0	0	N.A.	N.A.
Water Quality	0	0	N.A.	N.A.

*Air Quality*

5. 24-hr TSP monitoring at 3 monitoring stations, AM1, AM2 and AM4, was conducted as schedule in the reporting period. No Action/Limit Level exceedance was recorded for 24-hr TSP monitoring in the reporting quarter.

*Construction Noise*

6. Noise monitoring at 7 monitoring stations, NM1, NM2, NM3, NM4, NM5, NM6 and NM8, was conducted as schedule in the reporting period except noise monitoring on 6 August 2008 and 24 September 2008 were cancelled due to adverse weather and re-scheduled to 7 August 2008 and 26 September 2008 respectively. No Action/Limit Level exceedance was recorded in the reporting quarter.

*Water Quality*

7. Water quality monitoring was conducted as schedule except the monitoring on 6 and 22 August 2008 was cancelled due to the hoisting of Tropical Cyclone Warning Signals No.8 and No.9 respectively and re-scheduled to 8 and 23 August 2008, at designated monitoring stations (Streams 15, 18, 21, 23, 26, 27, 40, Cheung Sha Stream, Tung Chung Stream and Tung Chung Bay) which are under the influence of the works in the reporting period. Streams 19, 25, 32 and 35 were observed to be dry throughout the reporting quarter. Therefore, no water monitoring was conducted. As the water depth of Tung Chung Bay was less than 3m, only the mid-depth level was monitored.
8. Exceedances of turbidity (NTU) and suspended solids (SS) were recorded in the period. No direct evidence demonstrated that the exceedances were caused by the Project.

***Environmental Licensing and Permitting***

9. License/Permits granted to the Project include Environmental Permit (License No.: EP-170/2003/C), Registration of Chemical Waste Producer (License: WPN5214-950-C1213-01), Water Discharge License (License No.: EP890/W7/XP089, EP890/W7/XP090 and EP890/W2/XG013) and Construction Noise Permit (License No.: GW-RS0419-08, GW-RW0439-08, GW-RW0122-08, GW-RS0209-08 and GW-RS0698-08).

***Key Information in the Reporting Quarter***

10. Summary of key information in the reporting month is tabulated in Table II.

**Table II Summary Table for Key Information in the Reporting Quarter**

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	0	---	N.A.	N.A.	---
Changes to the assumptions and key construction / operation activities recorded	0	---	N.A.	N.A.	---
Notifications of any summons received	0	---	N.A.	N.A.	---
Notifications of any successful prosecution received	0	---	N.A.	N.A.	---

***Complaints and Prosecutions***

11. No environmental complaint was received during the reporting quarter.
12. No warnings, no summons and notifications of successful prosecution were received in the reporting period.

***Future Key Issues***

13. Key issues to be considered in the coming month include:
- Dust generation from stockpiles of dusty materials, exposed retain wall, excavation works and rock breaking activities;
  - Regular removal of silt, mud and sand along u-channels and sedimentation tanks;
  - Review and implementation of temporary drainage system for the surface runoff;
  - Proper storage of construction materials near streams;
  - Runoff from exposed slope;
  - Wastewater and runoff discharge from site;

- Storage of chemicals/fuel and chemical waste/waste oil on site;
- Noise from operation of the equipment, especially for rock-breaking activities and machinery on-site;
- Watering for rock breaking activity, soil nailing and on haul road; and
- Accumulation of general and construction waste near stream and on site.

## 1. INTRODUCTION

- 1.1 The Project “Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha” involves the widening and realignment of Tung Chung Road between Lung Tseng Tau in North Lantau and Cheung Sha in South Lantau. The layout plan of the Project is shown in Figure 1.
- 1.2 The scope of the Project includes:
- a) widening and realignment of a 3.6 km section of Tung Chung Road (TCR) between Lung Tseng Tau and Pak Kung Au from a single-lane road for two-way traffic to a single two-lane road for two-way traffic with a footpath having a minimum width of 1.6 m, and construction of a 2.6 km long single two-lane road between Pak Kung Au and Cheung Sha, including elevated highway structures of a total length of 750 m, with a footpath of a minimum width of 1.6 m;
  - b) provision of 21 passing bays/bus-bays along the road and a roundabout at Cheung Sha; and
  - c) associated works including road rehabilitation, drainage, utility, environmental mitigation measures, landscaping, slope stabilization, traffic aids, road safety enhancement measures, lighting, traffic control and surveillance system, and electrical and mechanical (E&M) works.
- 1.3 The Environmental Impact Assessment (EIA) Report for the Project was approved on 4 July 2002 under the Environmental Impact Assessment Ordinance (EIAO). An Environmental Permit (EP- 170/2003) for the works was also granted on 27 June 2003. A varied Environmental Permit (EP) (EP-170/2003/B) was issued in June 2006. Environmental Monitoring and Audit (EM&A) Manual for the Project was also included as part of the EIA reports in the register. An updated EM&A Manual (Revision C) has been issued on 28 April 2006.
- 1.4 Highways Department awarded the construction of the Project to CCECC & CRWJ Joint Venture (being a joint venture of China Civil Engineering Construction Corporation & China Railway Wujia Group Corporation) (hereinafter called “the Contractor”) in June 2004. The construction works commenced on 4 November 2004 and are scheduled to be completed by September 2007.
- 1.5 Cinotech Consultants Limited (Cinotech) was commissioned by the Contractor to undertake the Environmental Team (ET) Services for the Project since 1 September 2006. All environmental and audit works were conducted by Cinotech and the laboratory testing works were conducted by a HOKLAS laboratory, Wellab Limited. This is the 16<sup>th</sup> quarterly EM&A report summarizing the EM&A works for the Project in the period between August and October 2008.



## 2. PROJECT CHARACTERISTICS

### Project Organization and Contacts of Key Management

- 2.1 Different parties with different levels of involvement in the project organization include:
- Project Proponent – Major Works Project Management Office (MWPMO) of Highways Department (HyD)
  - Engineer (E) / Engineer’s Representative (ER) – Mott Connell Limited
  - Contractor – CCECC & CRWJ Joint Venture
  - Environmental Team (ET) – Cinotech Consultants Limited
  - Independent Environmental Checker (IEC) – ENSR Asia (HK) Limited
- 2.2 The responsibilities of respective parties are detailed in Section 1.5 of the Updated EM&A Manual (Revision C, issued on 28 April 2006) of the Project. The project organization chart is presented in Figure 2.
- 2.3 The key contacts of the Project are shown in Table 2.1.

**Table 2.1 Key Project Contacts**

Party	Role	Name	Position	Phone No.	Fax No.
HyD	Project Proponent	Mr. Sam Wong	Chief Engineer	2762 3622	2714 5289
Mott Connell	Engineer	Mr. K.W. Lee	The Engineer	9108 6050	2827 1823
		Mr. P.H. Ho	Senior Resident Engineer	6533 3500	2988 1677
CCECC and CRJV Joint Venture	Contractor	Mr. Alan Kwong	Project Director	2988 2217	2988 1601
Cinotech	Environmental Team	Dr. Priscilla Choy	ET Leader	2151 2089	3107 1388
ENSR	Independent Environmental Checker	Mr. Y.T. Tang	Independent Environmental Checker	3105 8537	2891 0305
24-hour Emergency Hotline				2988 1259/ 6025 5655	-

### Construction Programme and Synopsis of Work

- 2.4 The construction programme is presented in Appendix A.

### **3. ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS**

#### **Monitoring Parameters and Monitoring Locations**

- 3.1 The EM&A Manual designates locations for the ET to monitor environmental impacts in terms of air quality, noise and water quality due to the Project. The Project area and monitoring locations are depicted in Figures 3. Appendix B gives details of monitoring requirements.

#### **Monitoring Methodology and Calibration Details**

- 3.2 Monitoring works/equipments were conducted/calibrated regularly in accordance with the EM&A Manual. Copies of calibration certificates are attached in the appendices of the Monthly Reports.

#### **Environmental Quality Performance Limits (Action and Limit Levels)**

- 3.3 The environmental quality performance limits, i.e. Action and Limit Levels were derived from the baseline monitoring results. Should the measured environmental quality parameters exceed the Action/Limit Levels, the respective action plans would be implemented. The Action/Limit Levels for each environmental parameter are given in Appendix C.

#### **Environmental Mitigation Measures**

- 3.4 Relevant mitigation measures as recommended in the project EIA report have been stipulated in the EM&A Manual for the Contractor to implement. A list of mitigation measures is given in Appendix G.

## 4. MONITORING RESULTS

### Weather Conditions

- 4.1 The weather during monitoring sessions was mainly sunny or cloudy. The weather conditions for each individual monitoring session were presented in the field record sheets.

### Air Quality

- 4.2 24-hr TSP monitoring at 3 monitoring stations, AM1, AM2 and AM4, was conducted as schedule in the reporting quarter.
- 4.3 No Action Level / Limit Level exceedance was recorded in the reporting quarter.
- 4.4 The graphical presentations of the air quality monitoring results are shown in Appendix D.

### Construction Noise

- 4.5 Noise monitoring at 7 monitoring stations, NM1, NM2, NM3, NM4, NM5, NM6 and NM8, was conducted as schedule in the reporting period except noise monitoring on 6 August 2008 and 24 September 2008 were cancelled due to adverse weather and re-scheduled to 7 August 2008 and 26 September 2008 respectively.
- 4.6 No Action/Limit Level exceedance was recorded in the reporting quarter.
- 4.7 The graphical presentations of the noise monitoring results are shown in Appendix E.

### Water Quality

- 4.8 Water quality monitoring was conducted as schedule except the water quality monitoring on 6 and 22 August 2008 was cancelled due to the hoisting of Tropical Cyclone Warning Signals No.8 and No.9 respectively and re-scheduled to 8 and 23 August 2008, at designated monitoring stations (Streams 15, 18, 21, 23, 26, 27, 40, Cheung Sha Stream, Tung Chung Stream and Tung Chung Bay) which are under the influence of the works in the reporting period. Streams 19, 25, 32 and 35 were observed to be dry throughout the reporting month. Therefore, no water monitoring was conducted. As the water depth of Tung Chung Bay was less than 3m, only the mid-depth level was monitored.
- 4.9 Exceedances of turbidity (NTU) and suspended solids (SS) were recorded in water samples in the reporting quarter. The summary of exceedances for each water quality parameters are provided in Table 4.1.

**Table 4.1 Summary of Water Quality Exceedances in the Reporting Quarter**

Station No.	DO		pH	Turbidity		SS	
	Action	Limit	Limit	Action	Limit	Action	Limit
15_I	0	0	0	0	0	0	0
18_I*	0	0	0	0	0	0	0
19_I*	0	0	0	0	0	0	0
21_I	0	0	0	0	0	0	0
23_I	0	0	0	0	0	0	0
25_I*	0	0	0	0	0	0	0
26_I	0	0	0	0	0	0	0
27_I	0	0	0	0	0	38	2
32_I*	0	0	0	0	0	0	0
35_I*	0	0	0	0	0	0	0
40_I	0	0	0	0	0	1	0
CSS_I	0	0	0	2	0	0	0
TCB_I	0	0	0	0	0	0	0
TCS_I	0	0	0	0	0	1	0

Remarks: \* indicates the stream was not sampled in the reporting quarter.

- 4.10 As reported in monthly report, all exceedances for water quality parameters recorded in the reporting quarter were not due to the Project based on the following observations:
- ✧ No construction activity was observed in the vicinity of the sampling locations.
  - ✧ No pollution discharge from construction activity was observed.
  - ✧ Measured value at the reference station was higher than at the impact monitoring stations.
  - ✧ Natural humus materials were observed in the streams during monitoring.
- 4.11 According to the ET's investigation, no direct evidence demonstrated the exceedances of Action/ Limit level for water monitoring parameters were caused by the Project.
- 4.12 The graphical presentations of the water quality monitoring results are shown in Appendix F.

## 5. ENVIRONMENTAL AUDIT

### Implementation Status of Environmental Mitigation Measures

- 5.1 The implementation status of environmental mitigation measures (EMIS) is given in Appendix G.

### Site Audit Summary

- 5.2 During site inspections in the reporting period, no non-conformance was identified. The observations and recommendations made during the reporting period are summarized in Appendix H.
- 5.3 The major deficiencies identified in the reporting quarter are summarized as follow:

#### *Water Quality*

- Exposed slope near Streams without proper covering was observed. The Contractor was recommended to cover exposed slope near Streams with tarpaulin sheet and hydroseeding.
- Oil leakage was observed from plant equipment. The Contractor was recommended to clear the oil and prevent spillage.
- Silty water leakage to public road was observed. The Contractor was recommended to erect sand bag properly to ensure no leakage.
- Standing water was observed after the rainfall. The Contractor was reminded to dry it out to prevent mosquito breed.
- Silt, debris and rubbish were observed accumulate in the U-Channel, culvert and gullies. The Contractor was reminded to clear them.
- Sediment, stones and debris on the haul road and paved road was observed. The Contractor was reminded to clear them.
- Stockpile without covering during rainstorm was observed. The Contractor was reminded to cover it with tarpaulin properly.
- Sediment accumulated in the sedimentation tanks was observed. The Contractor was reminded to clear them regularly.

#### *Air Quality*

- Stockpile without covering was observed. The Contractor was recommended to implement dust suppressing measures, such as covering it with imperious materials and water spray regularly.
- Dust emission activities were observed within providing proper dust suppression measures. The Contractor was recommended to provide proper enclosure and spray water to prevent dust generation.

- Accumulated silt and mud was observed at entrance of retaining wall and site exit. The Contractor was reminded to clear it and provide wheel washing facility.
- Exposed slope was observed. The Contractor was reminded to hydroseed and plant the slope as soon as practicable.
- De-bagging was observed in an area without sheltered on the top and 3 sides. The Contractor was reminded to provide it an enclosure during the works.
- Stream was observed without fencing. The Contractor was reminded to provide fencing for protecting the stream.
- Dusty road surface was observed. The Contractor was reminded to provide water spray more frequently and clear sediment regularly.

#### *Waste/ Chemical Management*

- Accumulation of C&D materials was observed. The Contractor was recommended to remove the C&D waste more frequently.
- Accumulation of general refuse was observed. The Contractor was reminded to remove the waste regularly.
- Cement bags (abandon) were observed. The Contractor was reminded to clear them.

#### **Effectiveness of Mitigation Measures**

- 5.4 The mitigation measures recommended in the EIA report and required by the EP are considered effective in minimizing environmental impacts. The Contractor has implemented the recommended mitigation measures, it is however considered that the Contractor could put greater efforts into proper implementation of these measures, especially for the construction of temporary drainage system, protection of stream courses and those issues stated in Section 5.3, to ensure their intended effects are fully achieved.

#### **Status of Environmental Licensing and Permitting**

- 5.5 License/Permits granted to the Project include Environmental Permit (License No.: EP-170/2003/B, which was superseded by EP-170/2003/C on 31 July 2007), Registration of Chemical Waste Producer (License: WPN5214-950-C1213-01), Water Discharge License (License No.: EP890/W7/XP089, EP890/W7/XP090 and EP890/W2/XG013) and Construction Noise Permit (License No.: GW-RS0419-08, GW-RW0439-08, GW-RW0122-08, GW-RS0209-08 and GW-RS0698-08).
- 5.6 The status of these licenses and permits obtained for the Project is summarized in Appendix I.

#### **Status of Waste Management**

- 5.7 The waste management of the Project has to follow the requirements and procedures stated in the Waste Management Plan which was prepared by the Contractor.

- 5.8 The solid waste generated from the Project was mainly general refuse that was collected by a licensed collector on an as need basis.
- 5.9 The monthly summary of waste flow table and the timber summary for August – October 2008 are provided in Appendix J.

## 6. NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)

### Summary of Exceedances

6.1 Environmental monitoring works were performed in the reporting period and all monitoring results were checked and reviewed. A summary of exceedances is attached in Appendix K. The details of each exceedance were attached in the Monthly Reports.

#### *Air Quality*

6.2 No Action/ Limit Level exceedance was recorded in the reporting quarter.

#### *Construction Noise*

6.3 No Action/ Limit Level exceedance was recorded in the reporting quarter.

#### *Water Quality*

6.4 Exceedances of turbidity (NTU) and suspended solids (SS) were recorded in water samples in the reporting quarter.

6.5 As reported in monthly report, all exceedances for water quality parameters recorded in the reporting quarter were not due to the Project based on the following observations:

- ✧ No construction activity was observed in the vicinity of the sampling locations.
- ✧ No pollution discharge from construction activity was observed.
- ✧ Measured value at the reference station was higher than at the impact monitoring stations.
- ✧ Natural humus materials were observed in the streams during monitoring.

6.6 According to the ET's investigation, no direct evidence demonstrated the exceedances of Action/ Limit level for water monitoring parameters were caused by the Project.

### Construction Impacts on Suspended Solids

6.7 The measured mean levels of suspended solid for impact monitoring stations during baseline monitoring and impact monitoring (this quarter) are summarized in Table 6.1. Although the measured mean levels of SS at Impact Stations of Stream 27 exceeded 130% of mean value of Baseline data, the finding of Table 6.1 indicates that additional mitigation measures for this stream is not required at this stage. The reasons are listed as below:

- The mean SS values at the Impact Stations of Stream 27 are low; and
- The mean SS levels at Reference Stations of Stream 27 in this quarter also exceeded 130% of mean SS values



**Table 6.1 Summary of Measured levels of Suspended Solids**

Station No.	Measured Mean Level of Suspended Solids (mg/l <sup>3</sup> )			Within 130% of mean value of Baseline data (Yes/No)	
	Baseline Impact Station	Reference Station	Impact Station	Reference Station	Impact Station
		(August-October 08)	(August-October 08)	(August-October 08)	(August-October 08)
15	2.35	2.63	2.63	Yes	Yes
18	4.72	2.61	2.55	Yes	Yes
21	1.98	2.62	2.51	No	Yes
23	2.60	2.55	2.50	Yes	Yes
		2.64		Yes	
26	2.35	2.72	2.56	Yes	Yes
27	1.60	2.60	2.56	No	No
40	9.10	2.55	2.56	Yes	Yes
CSS	3.38	2.72	2.56	Yes	Yes
TCB	9.00	3.04	2.74	Yes	Yes
TCS	4.59	2.63	2.61	Yes	Yes

### Review of the Reasons for and the Implications of Non-compliance

- 6.8 There was no non-compliance from the site audits in the reporting quarter. The observations and recommendations made in each individual site audit session were attached in the Monthly Reports.

**7. ENVIRONMENTAL COMPLAINTS AND PROSECUTIONS**

- 7.1 No environmental complaint was received during the reporting quarter. The updated Complaint Log is attached in Appendix L.
- 7.2 No warnings, no summons and notifications of successful prosecutions were received in the reporting period.
- 7.3 There were a total of 51 environmental complaints, 12 warnings, 3 summons and 2 successful prosecutions received since the commencement of the Project.
- 7.4 The Complaint Log is attached in Appendix L and the summary of warnings issued by the EPD and prosecution is attached in Appendix M.

## 8. COMMENTS, CONCLUSIONS AND RECOMMENDATIONS

8.1 The major construction activities in the coming month include:

### *Northern Section*

- Installation of street furniture at Zone A to C;
- Slope work slope drainage and street furniture at Zone D;
- Slope work at Zone E; and
- Slope work and street furniture at Zone F.

### *Southern Section*

- Construction of footpath at Zone 1 to 3;
- Erection of rock fall protection fence at Zone 4; and
- Slope works at Zone 5 and Zone 6.

8.2 According to the environmental audit performed in the reporting month, the following recommendations were made:

### *Dust Impact*

- To implement dust suppression measures on all haul roads, stockpiles and dry surfaces in dry weather.
- To implement dust control measures for the dust generation work such as excavation, piling works and rock breaking.
- To ensure water spray being applied for the dust emissive works, such as soil nail installation, loading and unloading of soil materials, excavation works and rock dowel installation.
- To cover soil stockpiles and exposed slope surface by impervious tarpaulin sheets or other means.
- To ensure that all vehicles carrying dusty material are properly covered before leaving the site.
- To maintain the machinery and vehicles in a good working condition on site.

### *Noise Impact*

- To implement appropriate mitigation measures, such as cover the tip of the hammer, in order to minimize the noise emitted during rock-breaking activities.
- To review the works sequence of site activities so as to reduce the number of noisy equipment in concurrent operation.
- To employ quiet powered mechanical equipment if possible.
- To ensure compliance of CNP conditions during restricted-hour works.
- To follow up any exceedance caused by the construction works.

- To space out noisy equipment and position as far away as possible from sensitive receivers.

#### *Water Quality Impact*

- To prevent any surface runoff discharge into any stream course.
- To ensure properly maintenance for de-silting facilities.
- To review and implement temporary drainage system.
- To review the capacity of de-silting facilities for discharge.
- To avoid accumulation of stagnant and ponding water on site.
- To identify any wastewater discharges from site.
- To divert all the water generated from construction site to de-silting facilities with enough handling capacity before discharge.
- To follow up any exceedance caused by the construction works.
- To clear the silt and sediment in the sedimentation tanks.

#### *Waste / Chemical Management*

- To ensure the performance of sorting of C&D materials at source (during generation).
- To carry out inspection of dump truck at site exit to ensure inert and non-inert C&D materials are properly segregated before removing off site.
- To ensure proper collection and disposal of rubbish generated on site.
- To avoid storage of oil container within the Country Park.
- To avoid any discharge or accidental spillage of chemical waste directly from the site.
- To avoid storage of construction materials at any stream.
- To check for any accumulation of waste materials or rubbish on site.
- To remove ponding water regularly in drip trays on site.

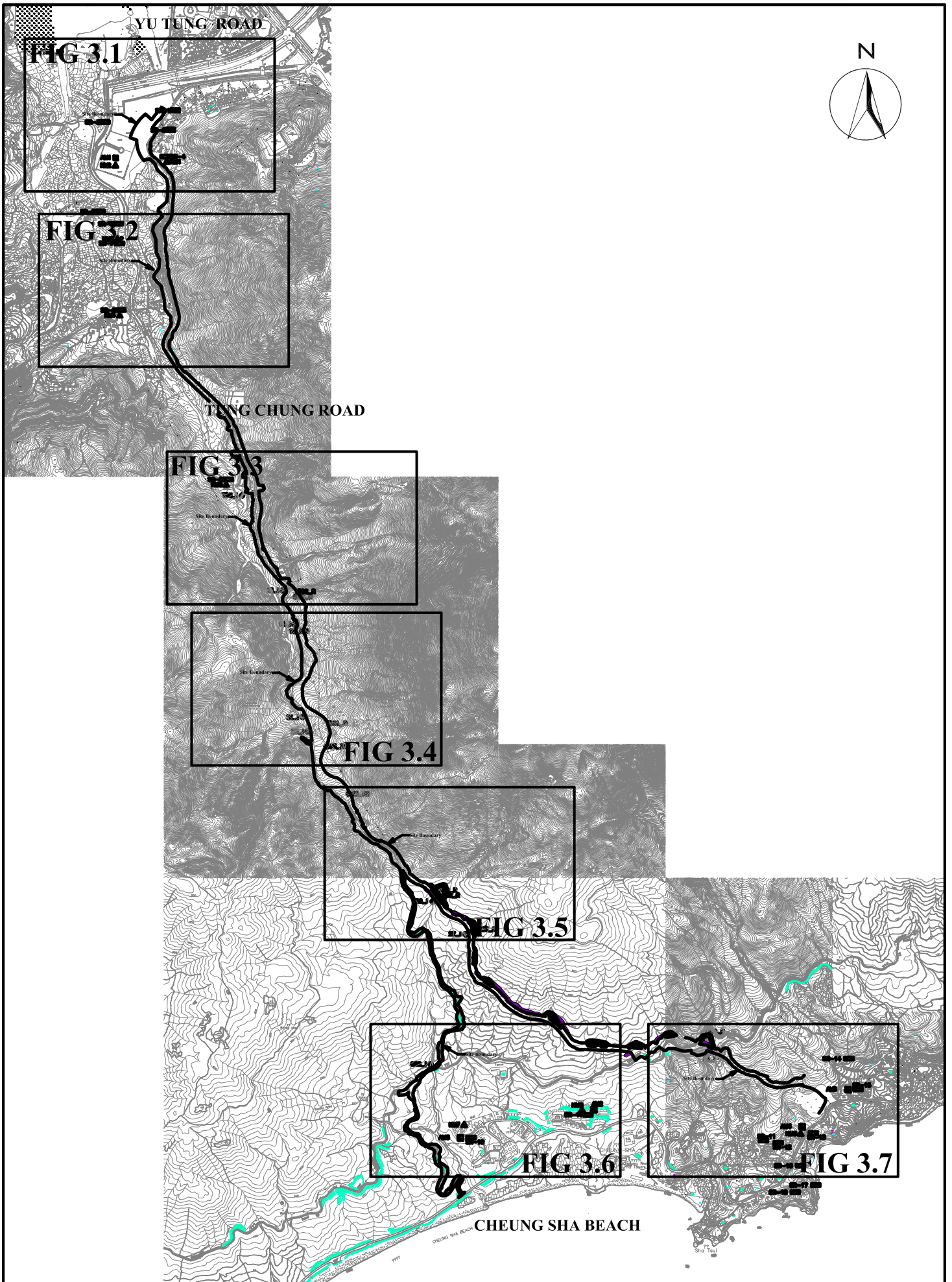
---

---

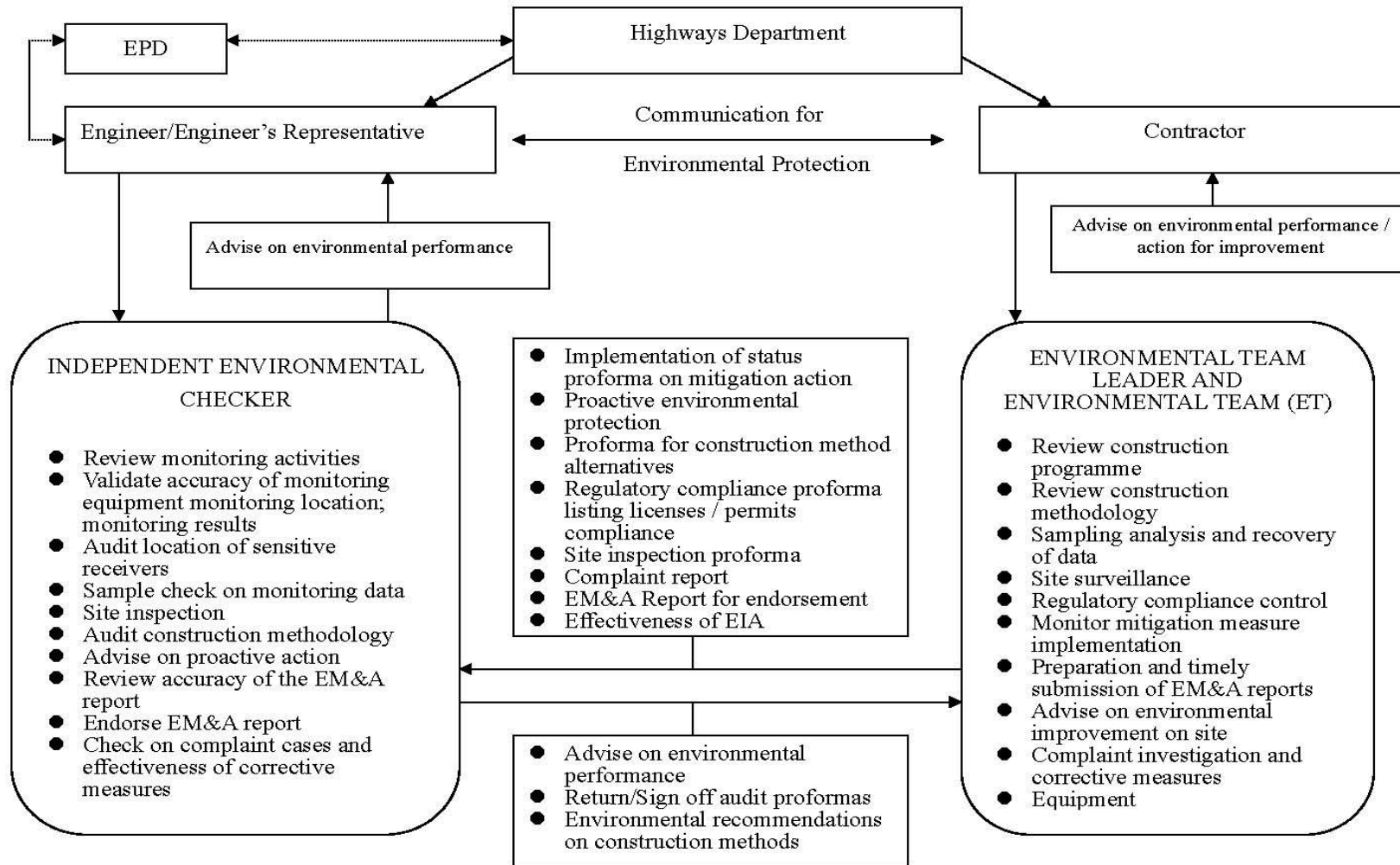
## FIGURES

---

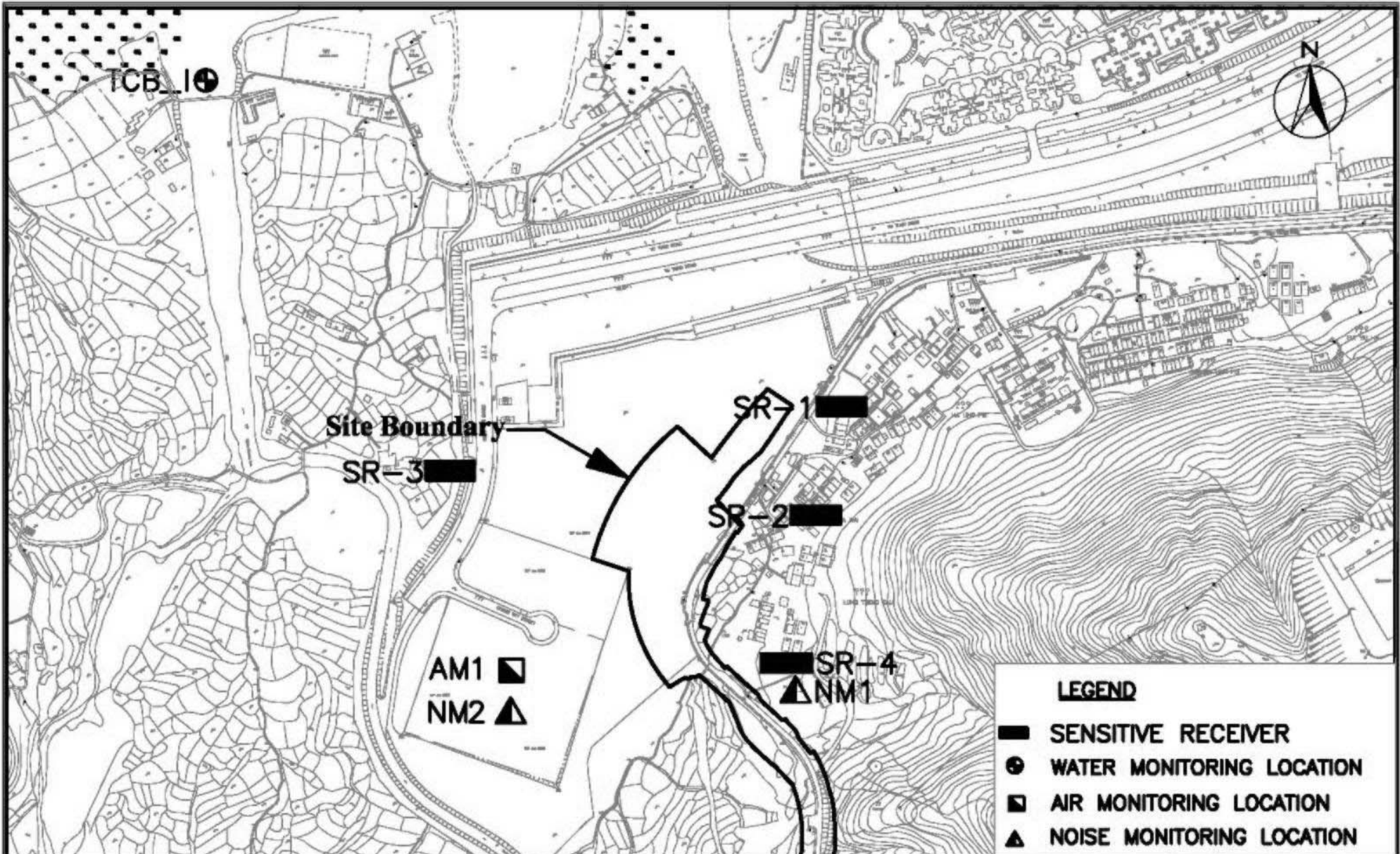
---



SCALE	N.T.S.	DATE	OCT 2006
CHECK	JY	DRAWN	VL
JOB No.	MA6030	DRAWING No.	FIG 1
		REV	—



SCALE	N.T.S.	DATE	2007
CHECK	KL	DRAWN	FL
JOB NO.	MA6030	DRAWING No.	2
		Rev	1



LEGEND	
	SENSITIVE RECEIVER
	WATER MONITORING LOCATION
	AIR MONITORING LOCATION
	NOISE MONITORING LOCATION

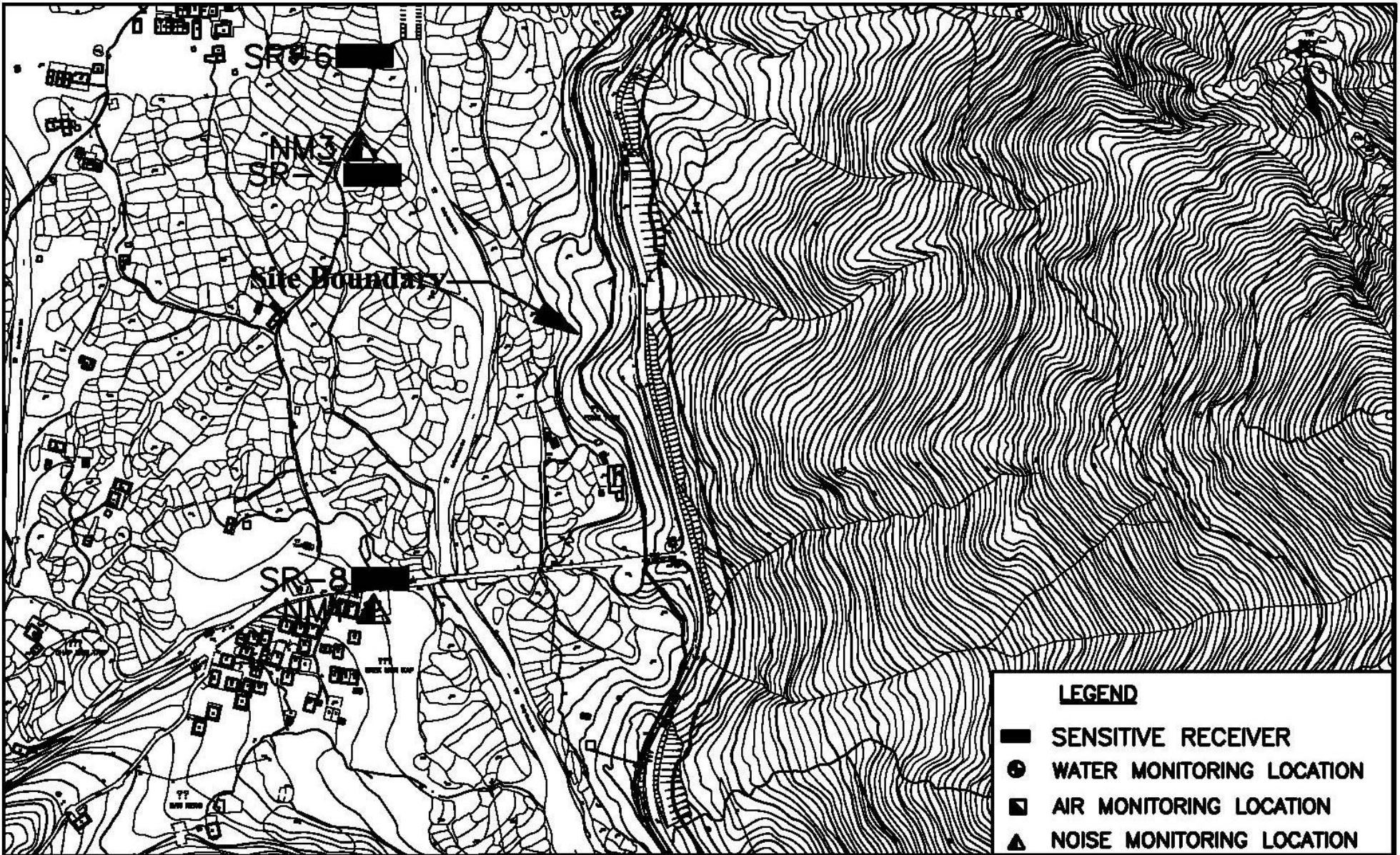
IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSENG TAU AND CHEUNG SHA





SCALE	A4 1:4000	DATE	OCT 2006
CHECK	JY	DRAWN	VL
JOB No.	MA6030	DRAWING No.	FIG 3.1
		REV	1



**MONITORING LOCATIONS**  
(SHEET 1 OF 7)





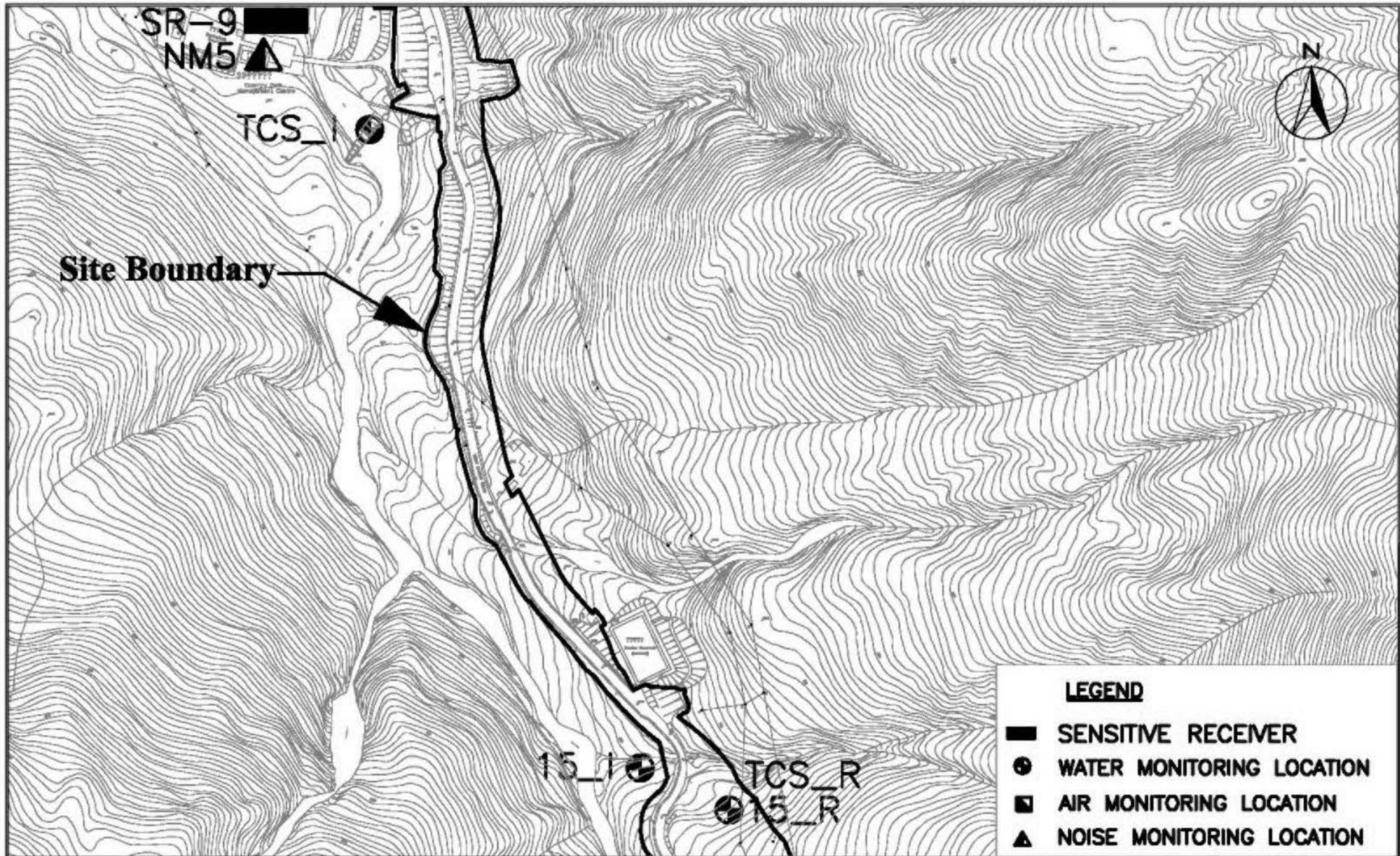
LEGEND	
	SENSITIVE RECEIVER
	WATER MONITORING LOCATION
	AIR MONITORING LOCATION
	NOISE MONITORING LOCATION

IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSEUNG TAU AND CHEUNG SHA

**CNOTECH**  
Cinotech Consultants Limited

**MONITORING LOCATIONS  
(SHEET 2 OF 7)**

SCALE	A4 1:4000	DATE	OCT 2006
CHECK	JY	DRAWN	VL
JOB No.	MA6030	DRAWING No.	FIG 3.2
		REV	1



**LEGEND**

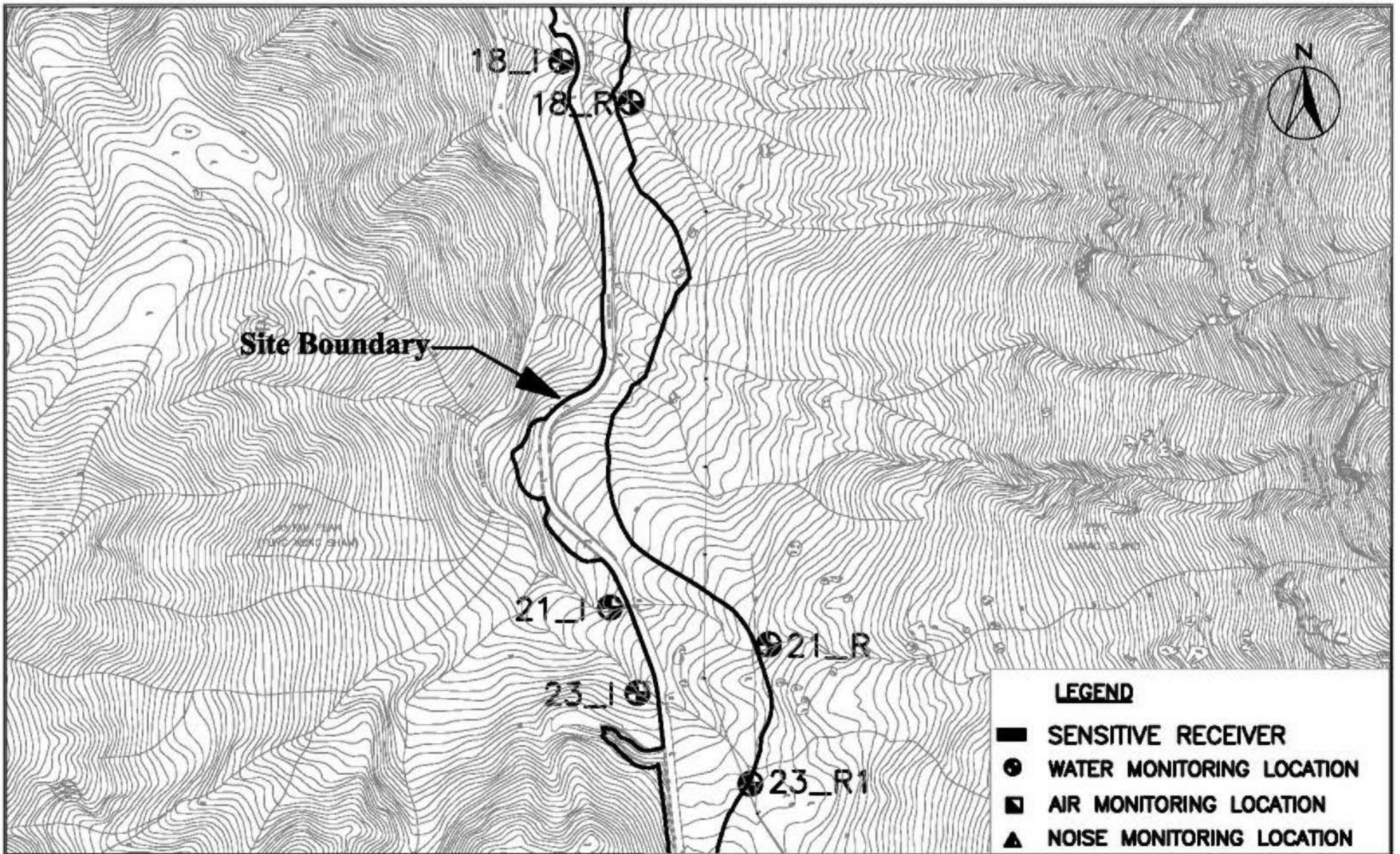
- SENSITIVE RECEIVER
- WATER MONITORING LOCATION
- AIR MONITORING LOCATION
- ▲ NOISE MONITORING LOCATION



IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSENG TAU AND CHEUNG SHA

**MONITORING LOCATIONS  
(SHEET 3 OF 7)**

SCALE	A4 1:4000	DATE	OCT 2006
CHECK	JY	DRAWN	VL
JOB No.	MA6030	DRAWING No.	FIG 3.3
		REV	1



**LEGEND**

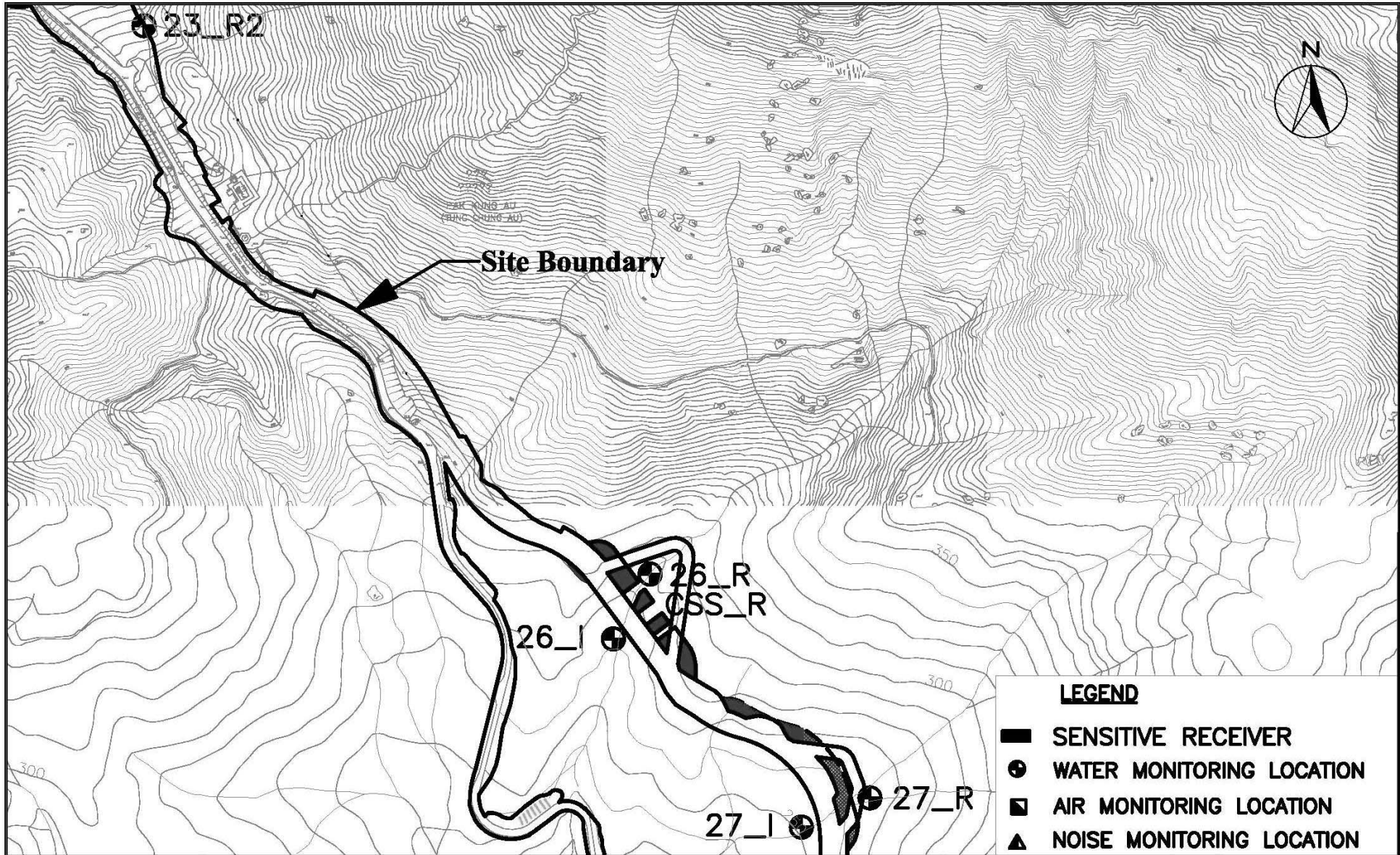
- SENSITIVE RECEIVER
- WATER MONITORING LOCATION
- AIR MONITORING LOCATION
- ▲ NOISE MONITORING LOCATION



IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSENG TAU AND CHEUNG SHA

**MONITORING LOCATIONS  
(SHEET 4 OF 7)**

SCALE	A4 1:4000	DATE	OCT 2006
CHECK	JY	DRAWN	VL
JOB No.	MA6030	DRAWING No.	FIG 3.4
		REV	1

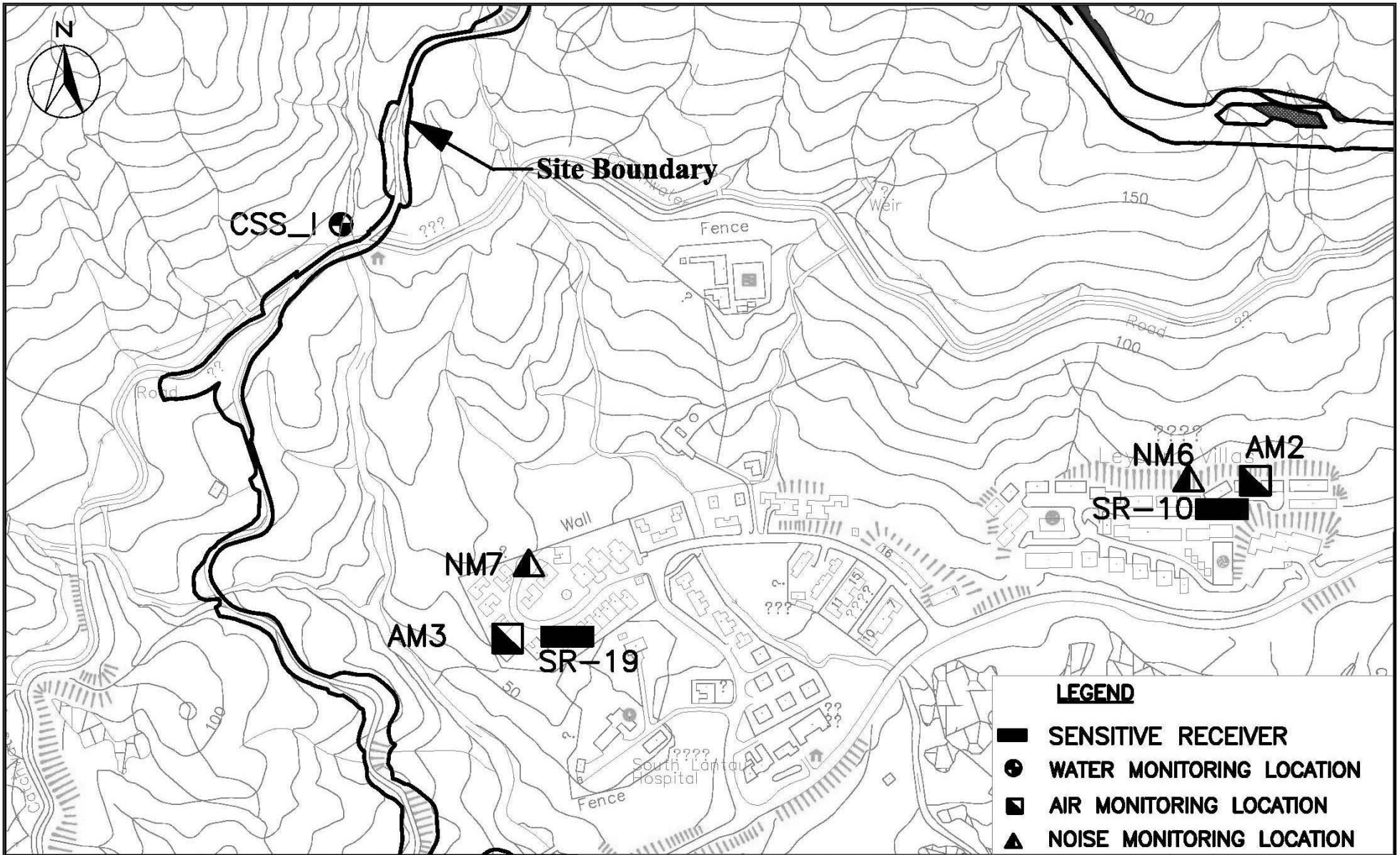


IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSENG TAU AND CHEUNG SHA







**MONITORING LOCATIONS  
(SHEET 5 OF 7)**

SCALE	A4 1:4000	DATE	OCT 2006
CHECK	JY	DRAWN	VL
JOB No.	MA6030	DRAWING No.	FIG 3.5
		REV	1



**LEGEND**

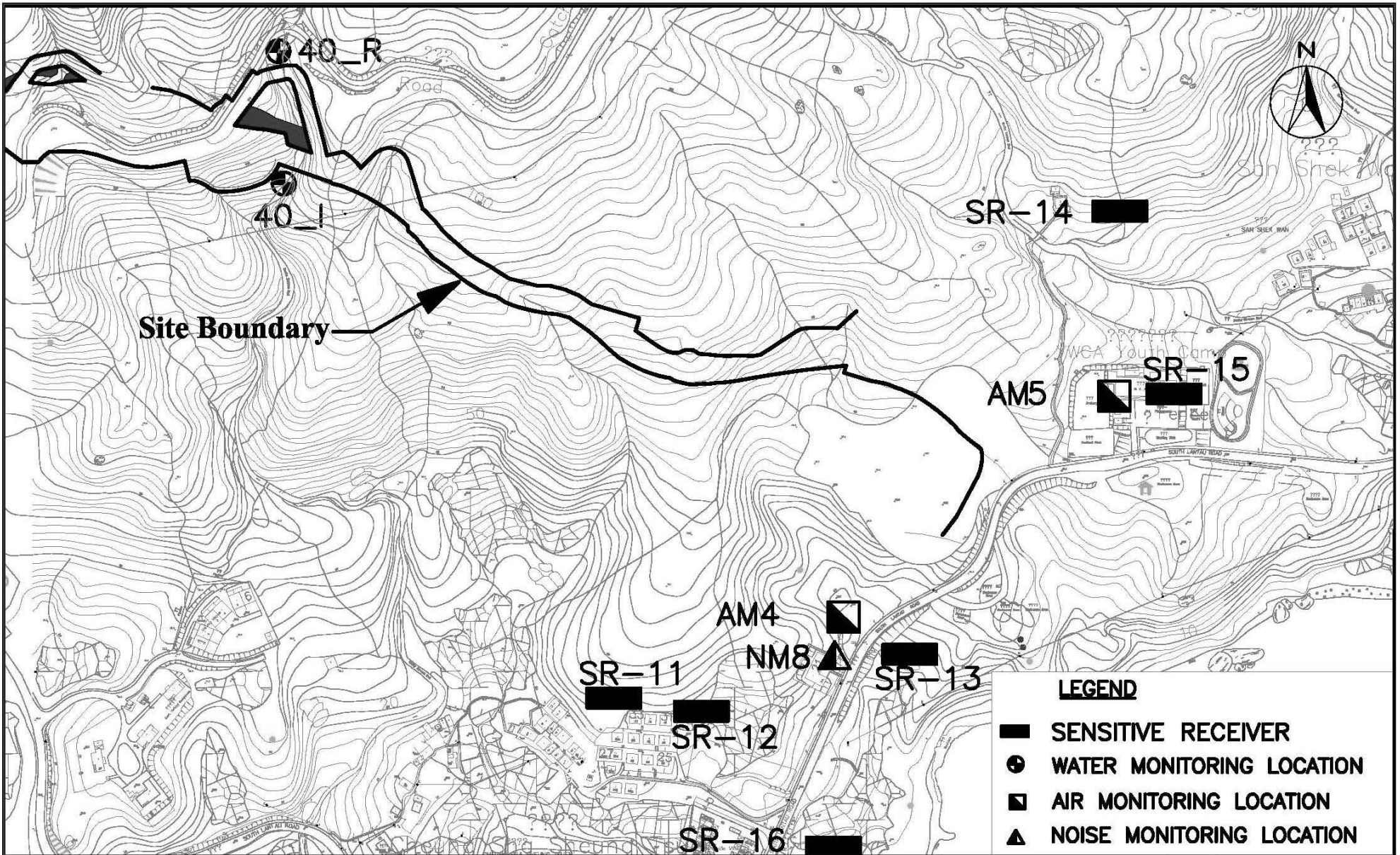
-  SENSITIVE RECEIVER
-  WATER MONITORING LOCATION
-  AIR MONITORING LOCATION
-  NOISE MONITORING LOCATION

**CINOTECH**  
Cinotech Consultants Limited

IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSENG TAU AND CHEUNG SHA

**MONITORING LOCATIONS  
(SHEET 6 OF 7)**

SCALE	A4 1:4000	DATE	OCT 2006
CHECK	JY	DRAWN	VL
JOB No.	MA6030	DRAWING No.	FIG 3.6
		REV	1



IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSENG TAU AND CHEUNG SHA



**MONITORING LOCATIONS  
(SHEET 7 OF 7)**

SCALE	A4 1:4000	DATE	OCT 2006
CHECK	JY	DRAWN	VL
JOB No.	MA6030	DRAWING No.	FIG 3.7
		REV	1

---

---

**APPENDIX A  
CONSTRUCTION PROGRAMME**

---

---

Act ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008						2009											
						27	03	10	17	24	01	08	15	22	29	05	12	19	26				
Commencement & Key Dates																							
Revised Key Dates																							
ZAKD000	Commencement of Contract	0	100	28JUN04 A																			
ZAKD001	Complete Works in Section 1	0	0		30APR09																		
ZAKD002	Complete Works in section 2	0	0		31DEC08															◆ Complete Works in section 2			
ZAKD003	Complete Works in Section 1A	0	0		31AUG11																		
ZAKD0035	Extended Completion Date of Section 1A(Claim 62)	0	0		08MAR09 *																		
ZAKD004	Complete Works in Section 2A	0	0		31AUG11																		
ZAKD005	Complete Works in Section 3	0	0		01AUG11																		
ZAKD006	Complete Works in Section 3A	0	0		30AUG12																		
ZAKD007	Complete Works in Undefined Section	0	0		21AUG09																		
ZAKD008	Complete Establish'nt Works in Undefined Section	0	0		31AUG11																		
Completion Dates																							
ZAKD0020	Extended Completion Date of Section 1 (Claim 62)	0	100		09MAR07 A																		
ZAKD0050	Extended Completion Date of Section 2 (Claim 62)	0	100		06JAN07 A																		
ZAKD0065	Extended Completion Date of Section 2A(Claim 62)	0	0		05JAN09 *															◆ Extended Completion Date of Section 2A(Claim 62)			
ZAKD0080	Extended Completion Date of Section 3 (Claim 62)	0	100		09JUN07 A																		
ZAKD0100	Extended Completion Date of Section 3A(Claim 62)	0	0		08JUN09 *																		
General																							
Monthly Monitoring Submission																							
0470	Waste Management Plan	2323	53	04NOV04 A	25APR 11																		
0480	Environment Monitoring and Audit	2323	53	04NOV04 A	25APR 11																		
Section 1																							
Zone A (CH. 1000 - 1565)																							
Drainage Works																							
S1-1500	Footpath and verge (Additional Work)	64	0	16JUN08 A	01SEP08																		
Roadworks																							
S1-1530	Street Furniture (Additional Works)	50	52	01JUL08 A	30SEP08																		
Landscaping																							
S1-1545	Landscape Earth Bund Ch.920-1020	22	0	01APR09 *	30APR09																		
Zone B (CH. 1565 - 2130)																							
Slope Works																							
S1-2080	Recompact fill slope remedial works ch1755-1945	50	0	01AUG08 *	30SEP08																		
S1-2084	Outlet of Culvert @ Ch2021 remedial works	38	0	16AUG08 *	30SEP08																		
Roadworks																							

Start date 28JUN04  
 Finish date 30AUG12  
 Data date 01APR08  
 Number/Version Revision 15  
 Page number 1A  
 Project name R1549  
 Primavera Systems, Inc.

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

**Contract No. HY/2003/19  
 Improvement to Tung Chung Road  
 3M Rolling Programme 01.11.08 to 31.01.09**

Date	Revision	Checked	Approved
01AUG08	3M update		



Act ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008												2009					
						NOV						DEC						JAN					
						27	03	10	17	24	01	08	15	22	29	05	12	19	26				
S1-2337	Additional drainage Pipe Desilting Works	115	0	14AUG08	31DEC08 *	Additional drainage Pipe Desilting Works																	
S1-2338	Footpath and Verge (Remedial Works)	6	0	01NOV08 *	07NOV08	Footpath and Verge (Remedial Works)																	
S1-2370	Additional street furnitures	20	0	08NOV08 *	01DEC08	Additional street furnitures																	
Zone C (CH. 2130 - 2725)																							
Slope Works																							
S1-3194	Recompacted fill slope (VO50 & 83) remedial work	89	0	16JUN08 *	30SEP08																		
Retaining Wall RW06																							
S1-2350	Utilities (Remedial Works)	119	0	01AUG08 *	22DEC08	Utilities (Remedial Works)																	
S1-3890	RC structure Bay 8	25	0	16OCT08 *	13NOV08	RC structure Bay 8																	
S1-3900	Backfilling	13	0	14NOV08	28NOV08	Backfilling																	
S1-3910	Slope drainage	25	0	29NOV08	30DEC08	Slope drainage																	
Roadworks																							
S1-3631	Waterworks remedial works	6	0	23DEC08 *	31DEC08	Waterworks remedial works																	
S1-3632	HyD remedial works (kerb)	12	0	02JAN09 *	15JAN09	HyD remedial works (kerb)																	
S1-3633	Additional U channel	9	0	02JAN09 *	12JAN09	Additional U channel																	
S1-3634	Street furniture remedial works	16	0	24JAN09 *	14FEB09																		
S1-3635	Footpath and Verge remedial works	7	0	16JAN09 *	23JAN09	Footpath and V																	
Zone D (CH. 2725 - 3100)																							
Slope Works																							
S1-4069	Utility remedial works CH2760-3060 downhill	50	0	01SEP08 *	31OCT08	Utility remedial works CH2760-3060 down																	
S1-4080	Top channel (CH. 2940 - 3060) remedial works	26	0	01NOV08	01DEC08	Top channel (CH. 2940 - 3060) remedial works																	
S1-4081	Concrete verge	12	0	02DEC08 *	15DEC08	Concrete verge																	
Retaining Wall RW07																							
S1-4241	Utility remedial works	166	0	01AUG08 *	21FEB09																		
S1-4260	Backfilling (Remaining)	226	0	01APR08 *	31DEC08	Backfilling (Remaining)																	
S1-4270	Slope Drainage	163	0	17JUN08 *	31DEC08	Slope Drainage																	
Roadworks																							
Road work																							
S1-4416	Utility remedial works	166	0	01AUG08 *	21FEB09																		
S1-4417	Waterworks remedial works	13	0	23FEB09 *	09MAR09																		
S1-4418	HyD remedial works (kerb)	13	0	10MAR09 *	24MAR09																		
S1-4419	Additional U channel	11	0	10MAR09 *	21MAR09																		
S1-4421	Footpath remedial works	6	0	25MAR09 *	31MAR09																		
S1-4430	Street Furniture remedial works	9	0	01APR09 *	15APR09																		
Zone E (CH. 3100 - 4010)																							
Slope Works																							
S1-5151	9SE-D/F9 (Closure of existing TCR)	38	0	16SEP08 *	31OCT08	9SE-D/F9 (Closure of existing TCR)																	
S1-5152	TCR/UF/C/10 (Closure of existing TCR)	25	0	01AUG08 *	30AUG08																		

Start date	28JUN04
Finish date	30AUG12
Data date	01APR08
Number/Version	Revision 15
Page number	2A
Project name	R1549
© Primavera Systems, Inc.	

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

**Contract No. HY/2003/19  
Improvement to Tung Chung Road  
3M Rolling Programme 01.11.08 to 31.01.09**

Date	Revision	Checked	Approved
01AUG08	3M update		

Act ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008						2009											
						27	03	10	17	24	01	08	15	22	29	05	12	19	26				
<b>Retaining Wall RW10</b>																							
S1-5390	Backfilling	176	0	01APR08 *	31OCT08	Backfilling																	
<b>Retaining Wall RW11</b>																							
S1-5450	Backfilling	48	0	01DEC08 *	31JAN09																		
S1-5463	U channel	24	0	02FEB09 *	28FEB09																		
<b>Retaining Wall RW12</b>																							
S1-5500	Backfilling & Reinstatement of Carriageway	37	0	01AUG08 *	16SEP08																		
<b>Roadworks</b>																							
<b>Road work</b>																							
S1-5843	HyD remedial works (kerb)	23	0	02JAN09 *	31JAN09																		
S1-5844	Waterworks remedial works	20	0	02JAN09 *	24JAN09	Waterworks r																	
S1-5846	Additional drainage works	223	0	02JUN08 *	28FEB09																		
S1-5847	Footpath and verge additional works	26	0	02MAR09 *	31MAR09																		
S1-5836	Utilities remedial works	113	0	16AUG08 *	31DEC08	Utilities remedial works																	
S1-5838	Additional street furniture	22	0	01APR09 *	30APR09																		
<b>Zone F (CH. 4010 - 4686)</b>																							
<b>Slope Works</b>																							
S1-6111	9SE-D/C20 (Closure of existing TCR)	126	0	01APR08 *	30AUG08																		
S1-6113	TCR/UF/C/12 (Closure of existing TCR)	25	0	01AUG08 *	30AUG08																		
S1-6114	9SE-D/C35 (Closure of existing TCR)	40	0	02JAN09	20FEB09																		
<b>Retaining Wall RW14</b>																							
S1-6231	Additional drainage works	35	0	21JUL08 *	30AUG08																		
S1-6232	Backfilling	25	0	01SEP08 *	30SEP08																		
<b>Retaining Wall RW15</b>																							
S1-6285	Additional base slab & wall (V.O.115)	22	0	02JAN09	30JAN09																		
<b>Retaining Wall RW16</b>																							
S1-6365	Proposed utilities installation	60	0	02JAN09	16MAR09																		
<b>Retaining Wall RW39</b>																							
S1-6530	Backfilling remedial works	50	0	01SEP08 *	31OCT08	Backfilling remedial work																	
<b>Culvert at CH. 4631</b>																							
S1-6615	1050mm dia. pipeline under existing TCR	30	0	02JAN09	09FEB09																		
<b>Water Works</b>																							
S1-6618	Watermain water seepage around STR007	34	0	07JUL08 *	15AUG08																		
<b>Drainage Works</b>																							
S1-6750	Additional drainage works	64	0	07JUL08 *	20SEP08																		
<b>Roadworks</b>																							

Start date	28JUN04
Finish date	30AUG12
Data date	01APR08
Number/Version	Revision 15
Page number	3A
Project name	R1549
© Primavera Systems, Inc.	

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

**Contract No. HY/2003/19  
Improvement to Tung Chung Road  
3M Rolling Programme 01.11.08 to 31.01.09**

Date	Revision	Checked	Approved
01AUG08	3M update		

Act ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008						2009							
						NOV			DEC			JAN			JAN				
						27	03	10	17	24	01	08	15	22	29	05	12	19	26
S1-6722	Utilities remedial works	58	0	23JUN08 *	30AUG08														
S1-6723	Buttress wall near STR007	134	0	07APR08 *	16SEP08														
S1-6724	Additional footpath & verge	33	0	22SEP08 *	31OCT08	Additional footpath & verge													
S1-6725	Additional street furnitures	25	0	01NOV08 *	29NOV08	Additional street furnitures													
<b>Pump House for Fire Hydrant @ CH. 4398</b>																			
S1-6891	E&M works	126	0	01APR08 *	30AUG08														
S1-6922	Testing & commisioning	25	0	01SEP08 *	30SEP08														
S1-6923	Fencing & ground level works	75	0	01SEP08 *	29NOV08	Fencing & ground level works													
<b>Transformer Room at CH. 4660</b>																			
S1-6903	Fencing & ground level works	151	0	02JUN08 *	29NOV08	Fencing & ground level works													
<b>Section 1A</b>																			
<b>Maintenance Access Track</b>																			
S1-1570	Landscape softworks Ch.0-260	422	0	01APR08 *	31AUG09														
<b>Zone A (CH. 1000 - 1565)</b>																			
S1-1550	Landscape softworks	422	0	01APR08 *	31AUG09														
<b>Zone B (CH. 1565 - 2130)</b>																			
S1-2660	Landscape Softworks	422	0	01APR08 *	31AUG09														
<b>Zone C (CH. 2130 - 2725)</b>																			
<b>Landscaping</b>																			
S1-3850	Landscape softworks	123	0	01APR09 *	31AUG09														
<b>Zone D (CH. 2725 - 3100)</b>																			
S1-4600	Landscape Softworks	114	0	16APR09 *	31AUG09														
<b>Zone E (CH. 3100 - 4010)</b>																			
S1-5915	Landscape Softworks	123	0	01APR09 *	31AUG09														
<b>Zone F (CH. 4010 - 4686)</b>																			
<b>Landscaping</b>																			
S1-6910	Landscape Softworks	123	0	01APR09 *	31AUG09														
<b>Establishment works</b>																			
S1-6920	Establishment Works for Section 1A(claim no.084)	710	0	01SEP09 *	31AUG11														
<b>Section 2</b>																			
<b>Zone 1 (CH. 7013 - Outfall)</b>																			
<b>Roadworks</b>																			
S2-1265	Additional toe wall & F/P near YWCA(Claim no141)	164	16	01MAR08 A	16SEP08														

Start date	28JUN04		Early bar
Finish date	30AUG12		Progress bar
Data date	01APR08		Critical bar
Number/Version	Revision 15		Summary bar
Page number	4A		Summary point
Project name	R1549		Start milestone point
			Finish milestone point
© Primavera Systems, Inc.			

**Contract No. HY/2003/19  
Improvement to Tung Chung Road  
3M Rolling Programme 01.11.08 to 31.01.09**

Date	Revision	Checked	Approved
01AUG08	3M update		



Act ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008						2009											
						27	03	10	17	24	01	08	15	22	29	05	12	19	26				
Zone 1-6																							
Landscaping																							
S2-6730	Landscape Softworks	196	0	01APR08 A	31AUG09																		
S2-6735	Haul road reinstatement	73	0	01APR08 A	31MAR09																		
Establishment works																							
S2-6740	Establishment Works for Section 2A(claim no.084)	710	0	01SEP09 *	31AUG11																		
Section 3																							
Feature No. TCR/UF/C/15																							
S3-3000	Cut and Trim Slope Surface	7	0	02JAN09 *	12JAN09																		
S3-3010	300mm u channel at crest	10	0	14JAN09	31JAN09																		
S3-3020	Slope Surface Protection	14	0	31JAN09	17FEB09																		
Feature No. 13NE-B/C65																							
S3-3030	Install soil nail (199 nos.)	28	0	31JAN09	05MAR09																		
S3-3040	Slope surface protection	14	0	05MAR09	21MAR09																		
Feature No. 13NE-B/C64																							
S3-3050	Install soil nail (127 nos.)	20	0	05MAR09	28MAR09																		
S3-3060	Pull out tests (4 nos.)	8	0	28MAR09	08APR09																		
S3-3065	300mm u-channel at crest & toe	20	0	08APR09	07MAY09																		
S3-3070	Slope surface protection	14	0	07MAY09	23MAY09																		
Feature No. 13NE-B/C63																							
S3-3080	Install soil nail (111 nos.)	19	0	07MAY09	30MAY09																		
S3-3090	Pull out test (5 nos.)	8	0	30MAY09	09JUN09																		
S3-3100	300mm stepped & u-channel	20	0	09JUN09	03JUL09																		
S3-3110	Slope surface protection	14	0	03JUL09	20JUL09																		
Feature No. 13NE-B/C62																							
S3-3120	Install soil nail (144 nos.)	22	0	03JUL09	29JUL09																		
S3-3130	Pull out tests (5 nos.)	8	0	29JUL09	07AUG09																		
S3-3140	300mm stepped & u channel	20	0	07AUG09	31AUG09																		
S3-3150	Slope surface protection	14	0	31AUG09	16SEP09																		
Feature No. 13NE-B/F64																							
S3-3160	Recompact slope	14	0	31AUG09	16SEP09																		
S3-3170	Reconstruct 750mm stepped channel & stairway	20	0	16SEP09	10OCT09																		
S3-3180	300mm u channel	14	0	10OCT09	28OCT09																		
Feature No. 13NE-B/C80																							
S3-3190	Install soil nail (42 nos.)	12	0	10OCT09	24OCT09																		
S3-3200	Pull out test (1 nos.)	8	0	24OCT09	04NOV09																		

Cut and Trim Slope Surface

Start date 28JUN04  
 Finish date 30AUG12  
 Data date 01APR08  
 Number/Version Revision 15  
 Page number 6A  
 Project name R1549  
 Primavera Systems, Inc.

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

**Contract No. HY/2003/19  
 Improvement to Tung Chung Road  
 3M Rolling Programme 01.11.08 to 31.01.09**

Date	Revision	Checked	Approved
01AUG08	3M update		









Act ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008						2009					
						27	03	10	17	24	01	08	15	22	29	05	12
<b>Straining &amp; Deflection Structure SD 10-19</b>																	
S1-5902	Claim 91	183	0	01APR08 A	30SEP08												
S1-5905	Superstructure	50	0	02OCT08	29NOV08	Superstructure											
<b>Zone F (CH. 4010 - 4686)</b>																	
<b>Permanent Soil Nails</b>																	
S1-6625	Soil Nail at RW038	93	0	04MAY09	21AUG09												
<b>Flexible Debris Barrier at CH. 4600 (OFB5)</b>																	
S1-6870	Erect fence (outstanding part)	51	0	02JUL08 A	01SEP08												
S1-6880	Maintenance access path (Remedial Works)	23	0	02SEP08	30SEP08												
<b>Rockfall Protection System at CH. 4400 (RPS2)</b>																	
S1-6886	Erect Fence	24	0	01SEP08	30SEP08												
S1-6887	Maintenance Stairway (Remedial Works)	24	0	02OCT08	31OCT08	Maintenance Stairway (Remedial Work											
<b>Zone 5 (CH. 4922 - 5625)</b>																	
<b>Straining &amp; Deflection Structure SD 12-30</b>																	
S2-5870	Claim 91	151	0	01APR08 A	30SEP08												
S2-5875	Soil Nail	25	0	02OCT08	31OCT08	Soil Nail											
S2-5880	Superstructure	50	0	01NOV08	31DEC08	Superstructure											
<b>Rockfall Protection System at CH. 5320 (RPS3)</b>																	
S2-5900	Delivery of material (lost after heavy rain)	183	0	16JUL08 A	30SEP08												
S2-5910	Erect fence	50	0	02OCT08	29NOV08	Erect fence											
S2-5915	Maintenance stairway (Remedial Works)	25	0	01DEC08	31DEC08	Maintenance stairway (Remedial Works)											
<b>Landscape Works in Undefined Section</b>																	
S2-8000	Landscape Softworks in Undefined Section	145	0	01APR09 *	31AUG09												
S2-8010	Establishment Works for Undefined Section	710	0	01SEP09 *	31AUG11												

Start date 28JUN04  
 Finish date 30AUG12  
 Data date 01APR08  
 Number/Version Revision 15  
 Page number 10A  
 Project name R1549  
 Primavera Systems, Inc.

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

**Contract No. HY/2003/19**  
**Improvement to Tung Chung Road**  
**3M Rolling Programme 01.11.08 to 31.01.09**

Date	Revision	Checked	Approved
01AUG08	3M update		

---

---

**APPENDIX B  
MONITORING REQUIREMENTS**

---

---

## Appendix B - Environmental Impact Monitoring Requirements

Type of Monitoring	Parameter	Frequency	Location	Measurement Conditions
Air Quality	1 hour TSP <sup>(1)</sup>	Three times / 6 days	<ul style="list-style-type: none"> <li>• AM1 (YMCA of Hong Kong Christian College)</li> <li>• AM2 (D 68 Leyburn Villas)</li> <li>• AM3 (Butterfly Crest)<sup>(2)</sup></li> <li>• AM4 (No. 31 South Lantau Road)</li> <li>• AM5 (YWCA)<sup>(3)</sup></li> </ul>	<ul style="list-style-type: none"> <li>• AM1 – Rooftop</li> <li>• AM2 – House</li> <li>• AM3 – House</li> <li>• AM4 – House</li> <li>• AM5 – To be confirmed</li> </ul>
	24 hour TSP	Once / 6 days		

Remarks:

- <sup>(1)</sup> 1 hour TSP monitoring will be carried out in case that an exceedance of 24 hour TSP level is identified to be due to the Project.
- <sup>(2)</sup> Monitoring at AM3 will be conducted when the Project related construction activities are being undertaken within a radius of 500 m from the monitoring location.
- <sup>(3)</sup> Monitoring at AM5, YWCA, will be resumed when YWCA re-open.

Type of Monitoring	Parameter	Frequency	Location	Measurement Conditions
Noise	$L_{eq}$ , $L_{90}$ & $L_{10}$ at 30 minute intervals during (0700 to 1900 on normal weekdays)	Once per week	<ul style="list-style-type: none"> <li>• NM1 (No. 28 Lung Tseng Tau)</li> <li>• NM2 (YMCA of Hong Kong Christian College)</li> <li>• NM3 (No. 37 Shek Lau Po)</li> <li>• NM4 (No. 1 Shek Mun Kap)</li> <li>• NM5 (Tung Chung Au Country Parks Management Centre)</li> <li>• NM6 (D75 Leyburn Villa)</li> <li>• NM7 (House in Butterfly Crest House 22) <sup>(2)</sup></li> <li>• NM8 (No. 31 South Lantau Road)</li> </ul>	<ul style="list-style-type: none"> <li>• NM1 - Facade measurement</li> <li>• NM2 - Facade measurement</li> <li>• NM3 - Facade measurement</li> <li>• NM4 - Facade measurement</li> <li>• NM5 - Facade measurement</li> <li>• NM6 - Facade measurement</li> <li>• NM7 - Facade measurement</li> <li>• NM8 - Facade measurement</li> </ul>
	$L_{eq}$ , $L_{90}$ & $L_{10}$ at 5 minute intervals during (1900 to 2300) <sup>(1)</sup>	Once per week (include 3 consecutive 5-min measurements)		
	$L_{eq}$ , $L_{90}$ & $L_{10}$ at 5 minute intervals during (2300 to 0700 of next day) <sup>(1)</sup>	Once per week (include 3 consecutive 5-min measurements)		
	$L_{eq}$ , $L_{90}$ & $L_{10}$ at 5 minute intervals during (0700 to 1900 on holidays) <sup>(1)</sup>	Once per week (include 3 consecutive 5-min measurements)		

Remarks:

<sup>(1)</sup> – Conduct noise monitoring only when construction work is carried out.

<sup>(2)</sup> Monitoring at NM7 will be conducted when the Project related construction activities are being undertaken within a radius of 300 m from the monitoring location.

Type of Monitoring	Parameter	Frequency	Location	Measurement Conditions
Water Quality	<ul style="list-style-type: none"> <li>• Temperature (oC)</li> <li>• pH (pH unit)</li> <li>• Turbidity (NTU)</li> <li>• Water depth (m)</li> <li>• Salinity (mg/L)</li> <li>• Dissolved oxygen (DO) (mg/L and % of saturation)</li> <li>• Suspended solids (SS) (mg/L)</li> </ul>	Three times per week	<ul style="list-style-type: none"> <li>• 15_I (811781E, 813298N)</li> <li>• 15_R (811853E, 813289N)</li> <li>• 18_I (811836E, 813138)</li> <li>• 18_R (811889E, 813107N)</li> <li>• 19_I (811858E, 812987N)</li> <li>• 19_R (811920E, 812927N)</li> <li>• 21_I (811873E, 812723N)</li> <li>• 21_R (811994E, 812695N)</li> <li>• 23_I (811894E, 812658N)</li> <li>• 23_R1 (811980E, 812589N)</li> <li>• 23_R2 (812079E, 812386N)</li> <li>• 25_I (812324E, 812017N)</li> <li>• 25_R (812353E, 812052N)</li> <li>• 26_I (812456E, 811895N)</li> <li>• 26_R (812525E, 811980N)</li> <li>• 27_I (812604E, 811747N)</li> <li>• 27_R (812658E, 811770N)</li> <li>• 32_I (812988E, 811327N)</li> <li>• 32_R (812980E, 811410N)</li> <li>• 35_I (813218E, 811218N)</li> <li>• 35_R (813231E, 811275N)</li> <li>• 40_I (813690E, 811211N)</li> <li>• 40_R (813686E, 811311N)</li> <li>• CSS_I (812447E, 811165N)</li> <li>• TCS_I (811601E, 813716N)</li> <li>• TCB_I (810787E, 815706N)</li> <li>• TCB_R (810679E, 816038N)</li> </ul>	<ul style="list-style-type: none"> <li>• Sub-surface</li> </ul>

---

---

**APPENDIX C  
ACTION AND LIMIT LEVELS FOR AIR  
QUALITY, NOISE AND WAER QUALITY**

---

---

## Appendix C - Action and Limit Levels

**Table C-1 Action and Limit Levels for 1-Hour TSP**

Location	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AM1	312	500
AM2	328	
AM3	302	
AM4	305	
AM5	342	

**Table C-2 Action and Limit Levels for 24-Hour TSP**

Location	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AM1	155	260
AM2	151	
AM3	141	
AM4	145	
AM5	153	

**Table C-3 Action and Limit Levels for Construction Noise**

Period	Action Level <sup>(2)</sup>	Limit Level	
		0700-1900 hrs on normal weekdays	When one documented complaint is received
1900-2300 hrs on holidays & 0700-2300 hrs on all other days	- <sup>(1)</sup>		
2300-0700 hrs of next day	- <sup>(1)</sup>		

\*Free field noise levels were adjusted with a correction of +3 dB(A)

Notes:

- (1) The noise limits shall be determined by EPD during the application of the construction noise permit (CNP).
- (2) Stated in the *“Environmental Monitoring and Audit Guidelines for Development Projects in Hong Kong”*, Appendix D2, Section 2.6, Table 2.1

**Table C-4 Compliance Level for Water Quality**

Monitoring Stations	DO, mg/L		pH		Turbidity, NTU				SS, mg/L			
	Action	Limit	Action	Limit	Action		Limit		Action		Limit	
TCS I	6.10	4.00	-	<6.5 or >8.5	5.95	or 120% of the upstream control station's Tby (at the sme tide on the same day if appropriate)	13.30	or 130% of the upstream control station's Tby (at the sme tide on the same day if appropriate)	10.30	or 120% of the upstream control station's SS (at the sme tide on the same day if appropriate)	12.00	or 130% of the upstream control station's SS (at the sme tide on the same day if appropriate)
CSS I	6.40	4.00	-	<6.5 or >8.5	7.91		10.50		9.90		16.00	
15 I	5.94	4.00	-	<6.5 or >8.5	11.00		16.10		6.10		8.20	
18 I	6.43	4.00	-	<6.5 or >8.5	6.84		11.10		14.00		16.00	
19 I	6.55	4.00	-	<6.5 or >8.5	7.52		9.03		14.00		18.00	
21 I	6.73	4.00	-	<6.5 or >8.5	7.70		8.30		6.60		20.00	
23 I	6.55	4.00	-	<6.5 or >8.5	6.37		6.62		8.50		17.00	
26 I	6.49	4.00	-	<6.5 or >8.5	7.53		8.10		6.70		15.00	
27 I	5.33	4.00	-	<6.5 or >8.5	6.05		6.76		2.10		3.00	
32 I	5.94	4.00	-	<6.5 or >8.5	10.30		14.20		15.00		18.00	
40 I	6.42	4.00	-	<6.5 or >8.5	9.38		10.60		14.00		15.00	
TCB I	6.31	4.00	-	<6.5 or >8.5	17.10		41.40		19.00		20.00	



---

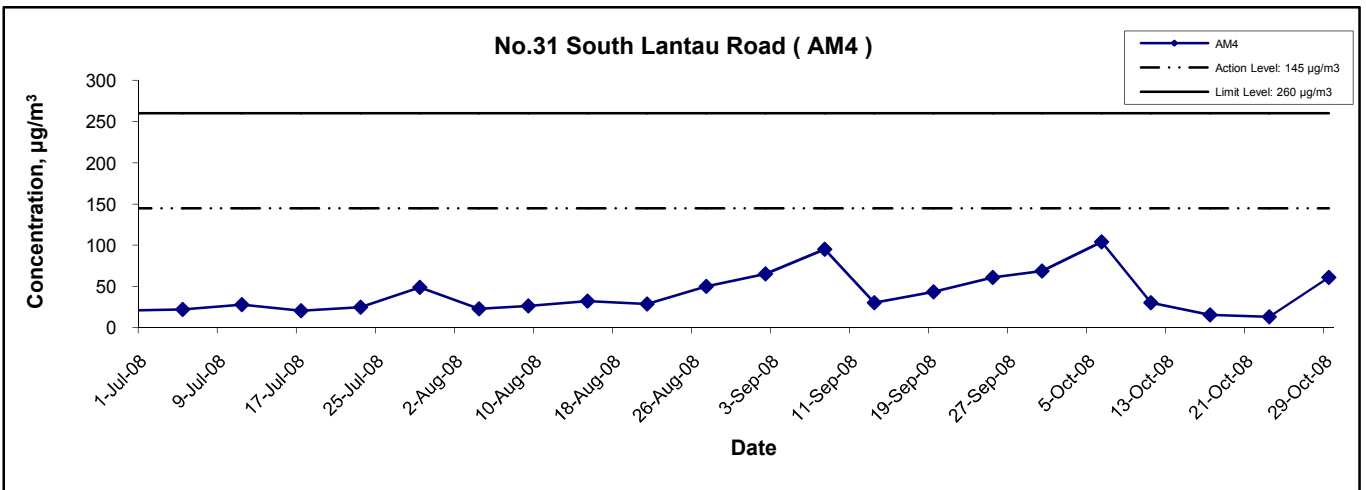
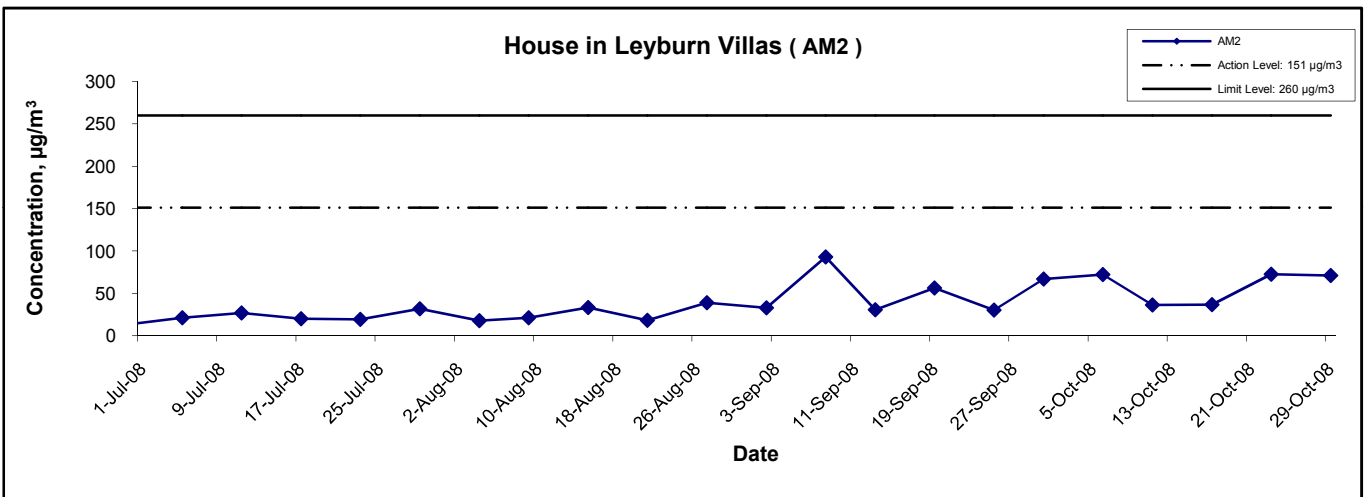
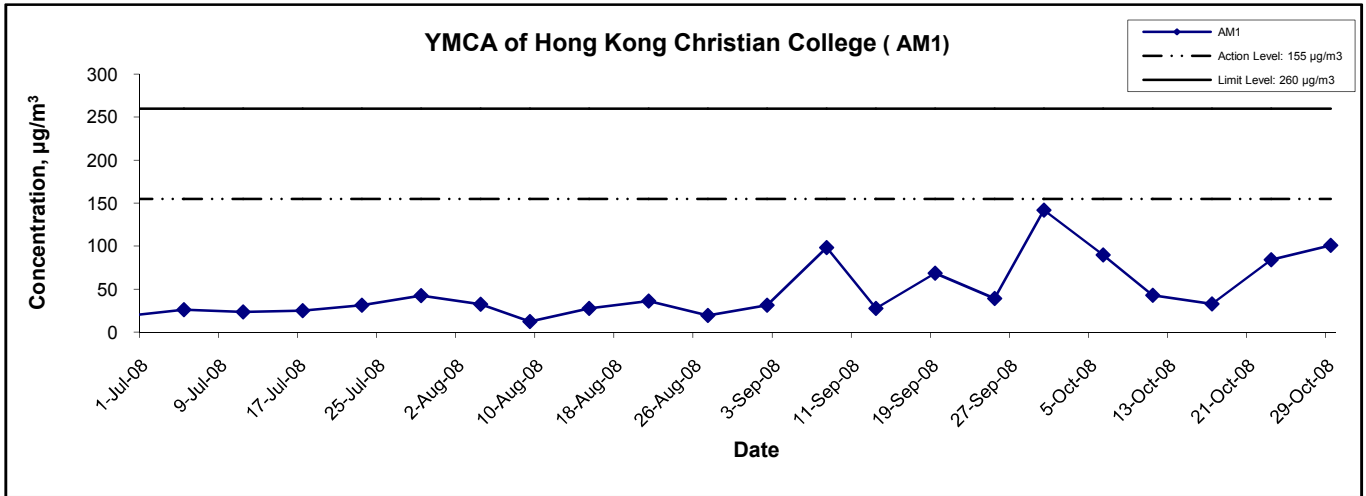
---

**APPENDIX D  
GRAPHICAL PRESENTATION OF AIR  
QUALITY MONITORING RESULTS**

---

---

## 24-hour TSP Levels



Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha  Graphical Presentation of 24-hour TSP Monitoring Results	Scale N.T.S	Project No. MA6030	
	Date Oct 08	Appendix D	

---

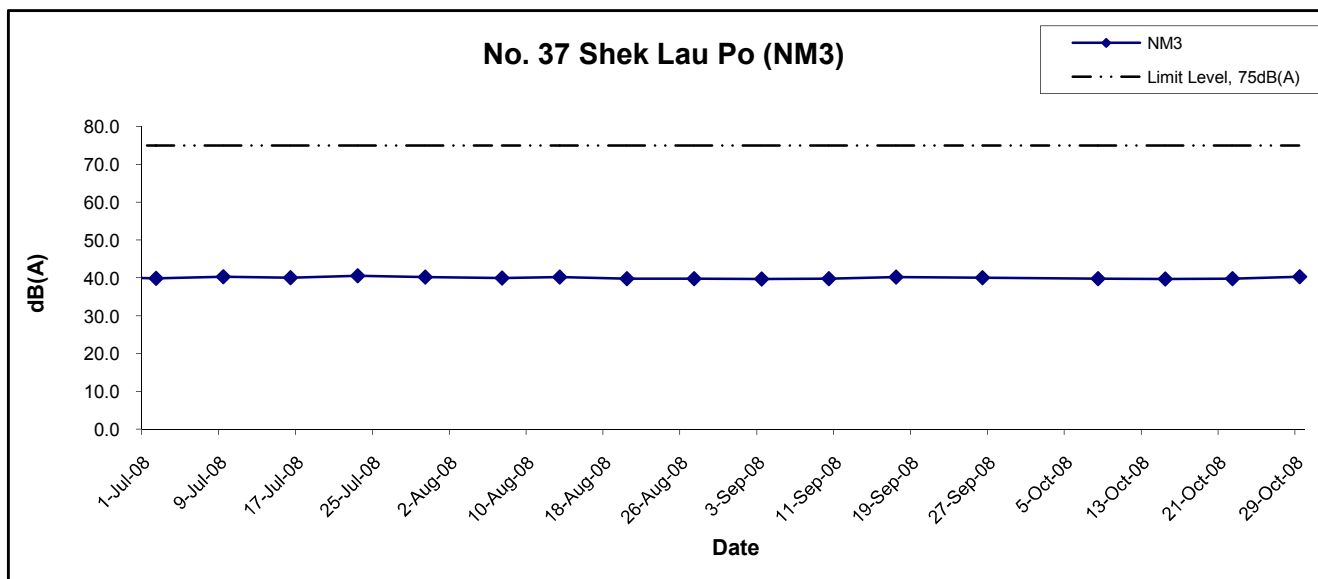
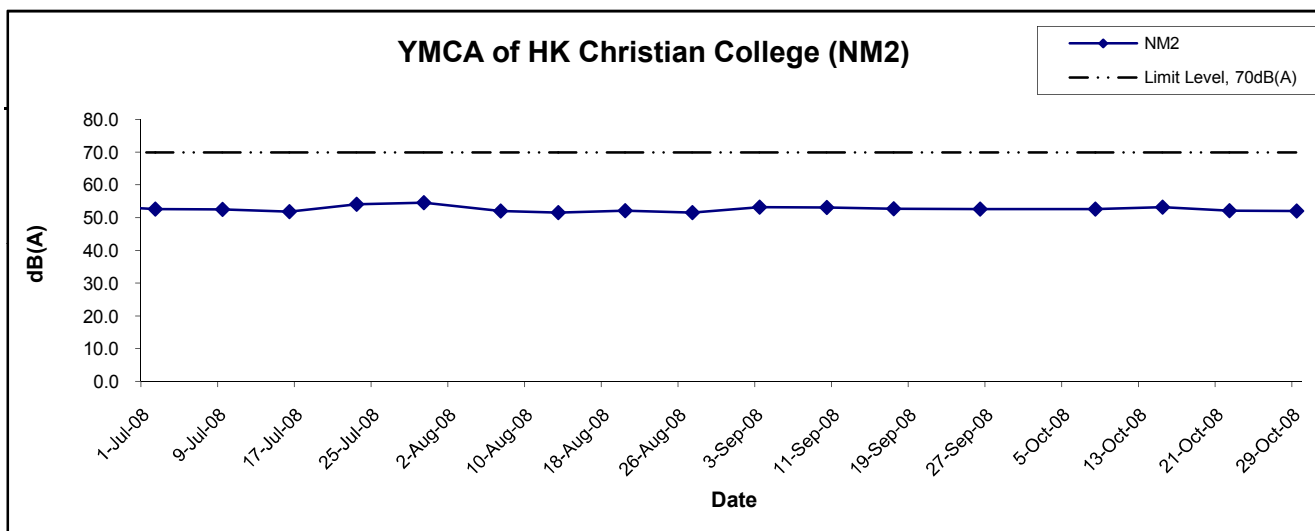
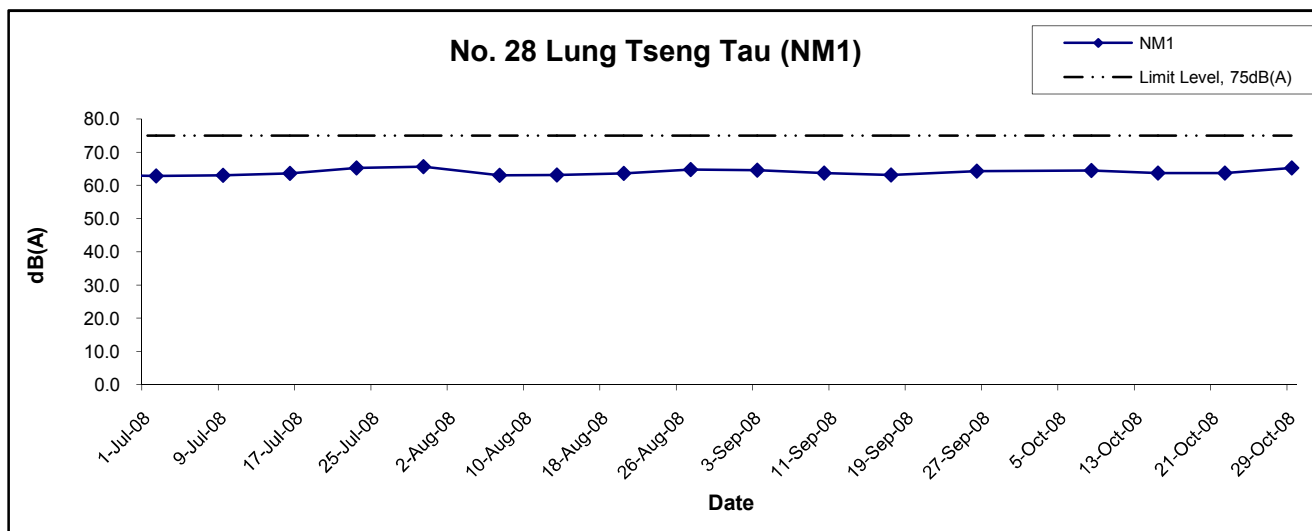
---

**APPENDIX E  
GRAPHICAL PRESENTATION OF  
NOISE MONITORING RESULTS**

---

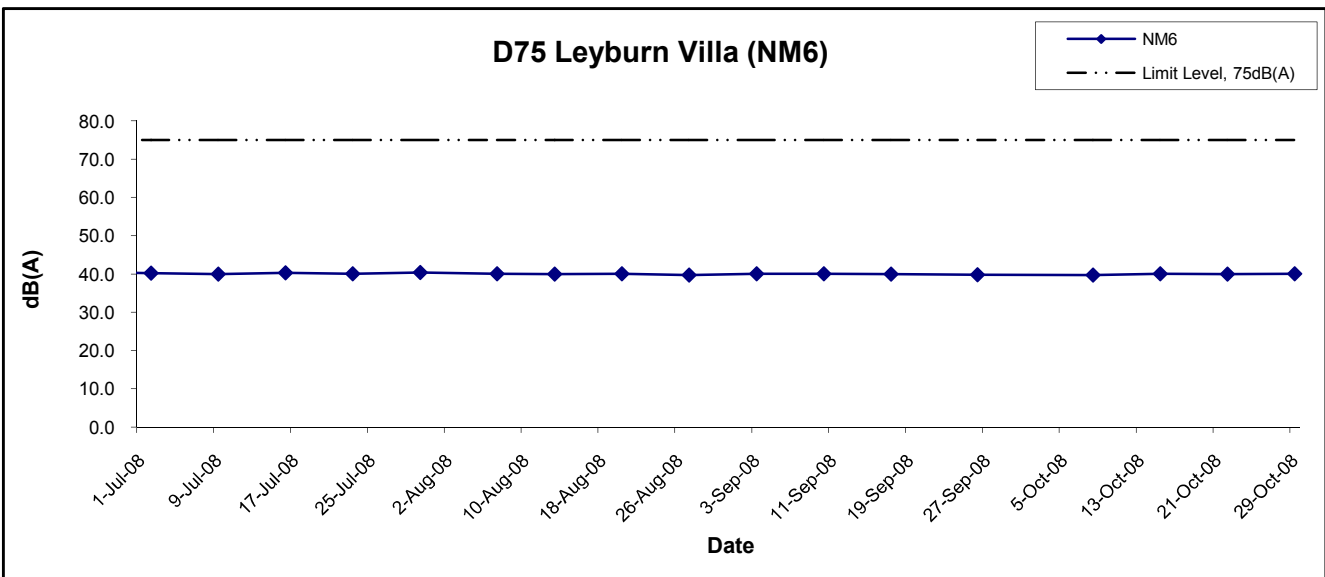
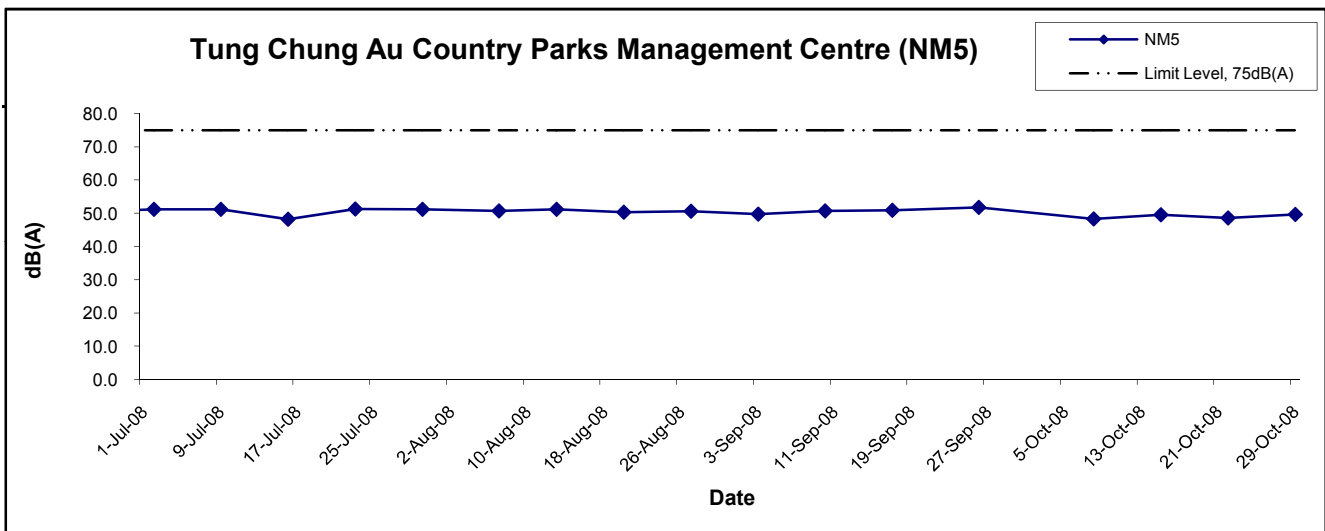
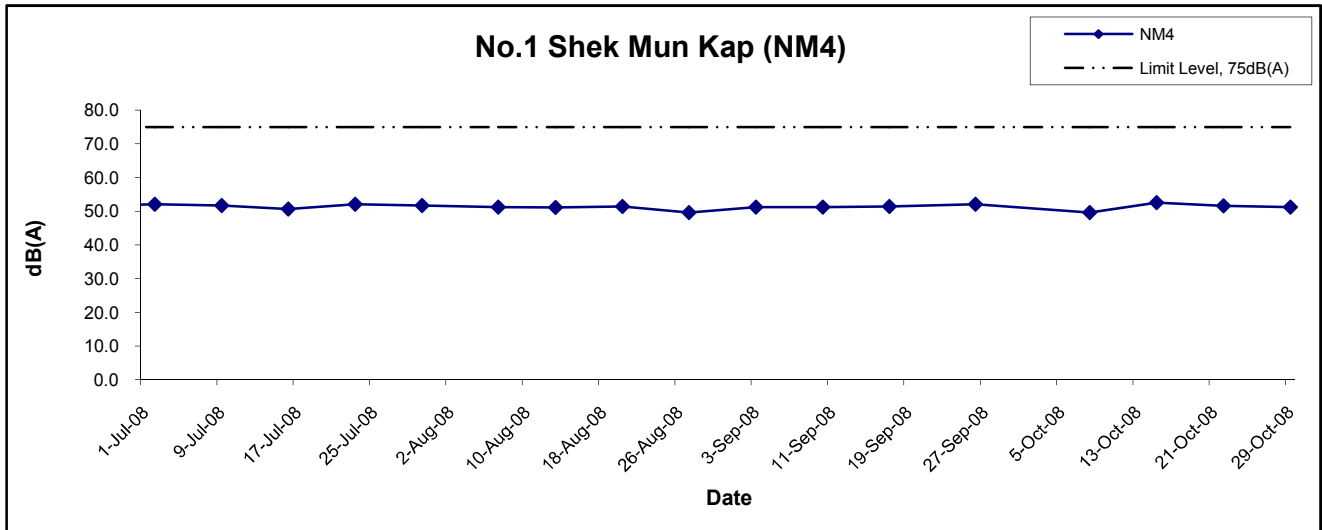
---

## Noise Levels



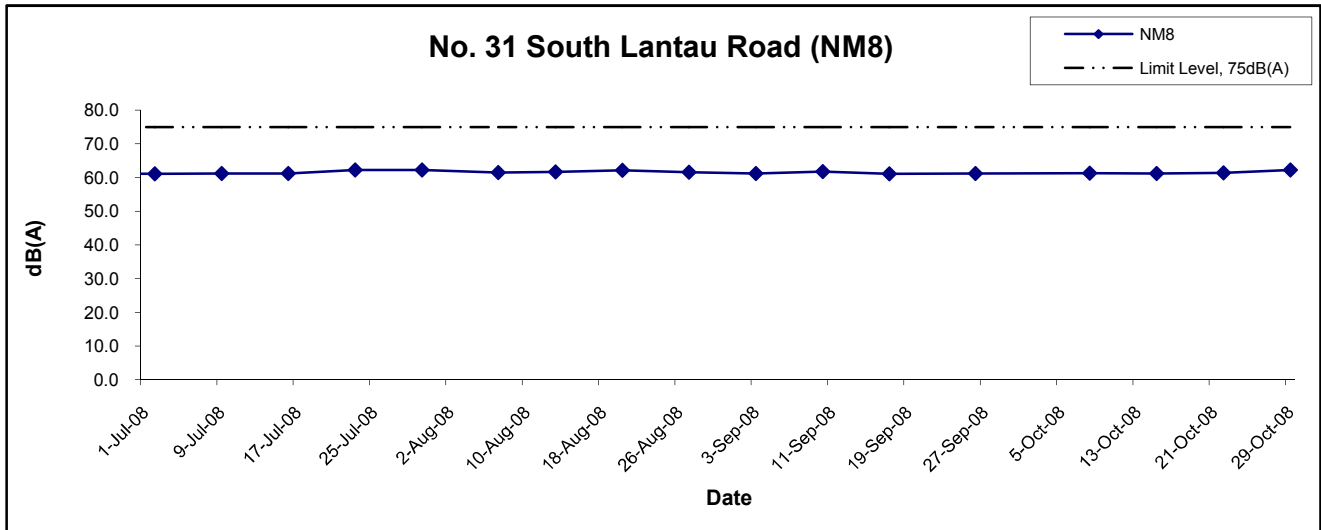
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha  Graphical Presentation of Construction Noise Monitoring Results	Scale N.T.S	Project No. MA6030	
	Date Oct 08	Appendix E	

## Noise Levels



Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha  Graphical Presentation of Construction Noise Monitoring Results	Scale N.T.S	Project No. MA6030	
	Date Oct 08	Appendix E	

## Noise Levels



Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha  Graphical Presentation of Construction Noise Monitoring Results	Scale N.T.S	Project No. MA6030	
	Date Oct 08	Appendix E	

---

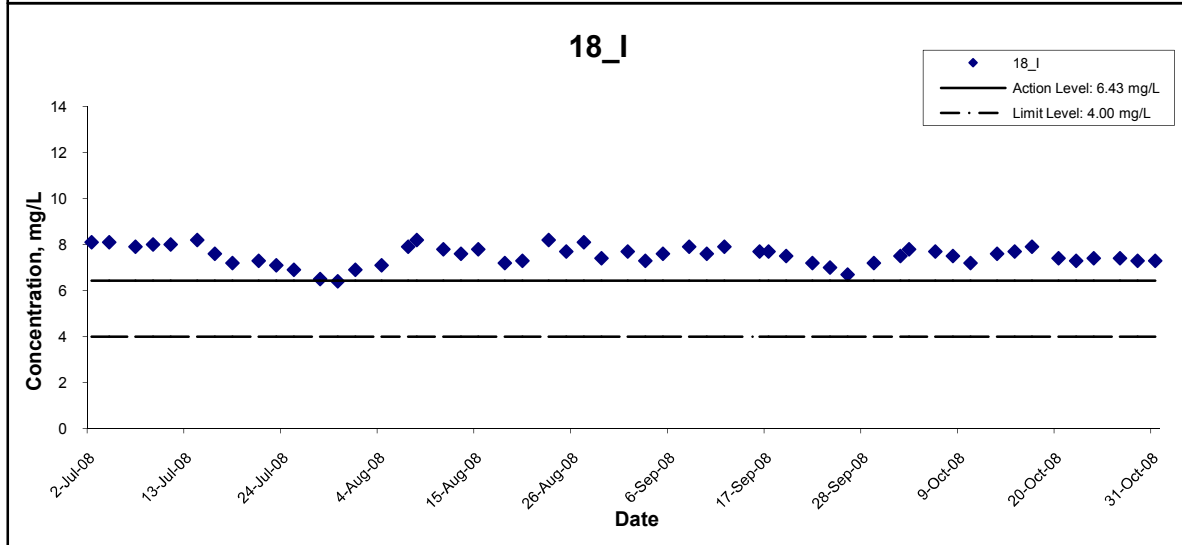
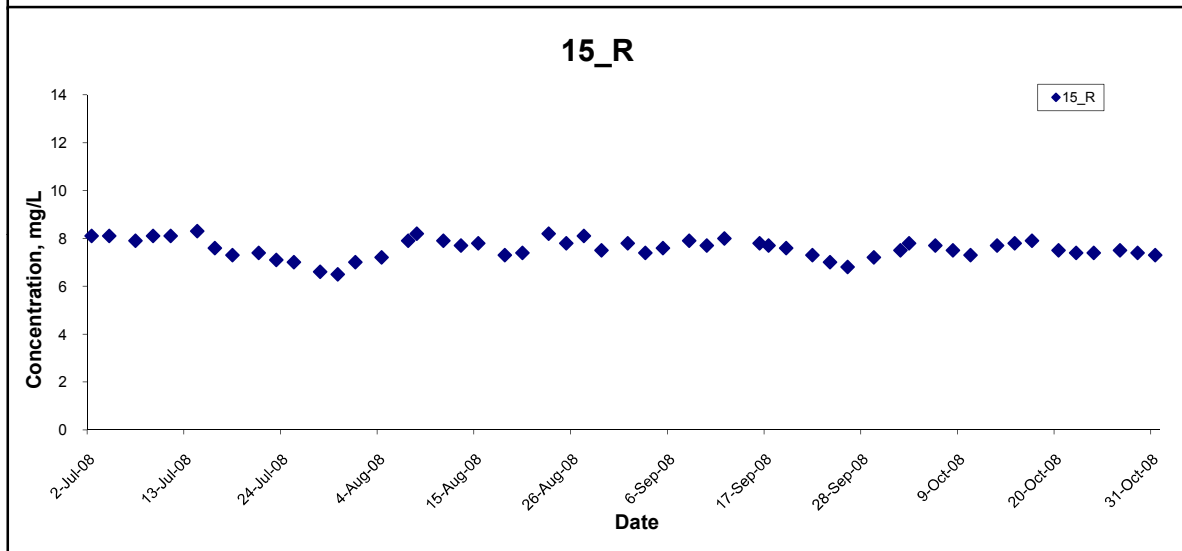
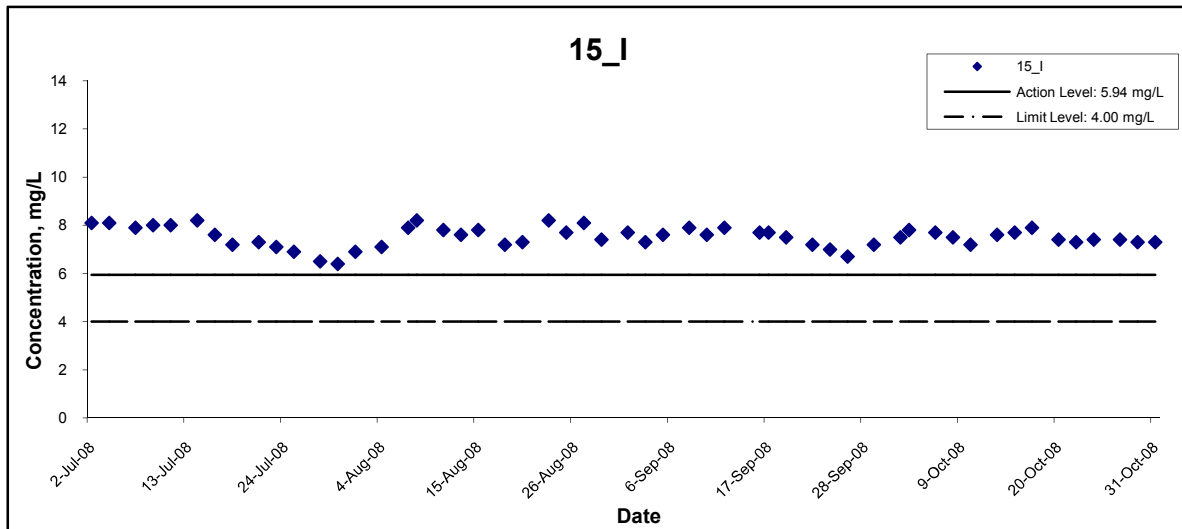
---

**APPENDIX F  
GRAPHICAL PRESENTATION OF  
WATER QUALITY MONITORING  
RESULTS**

---

---

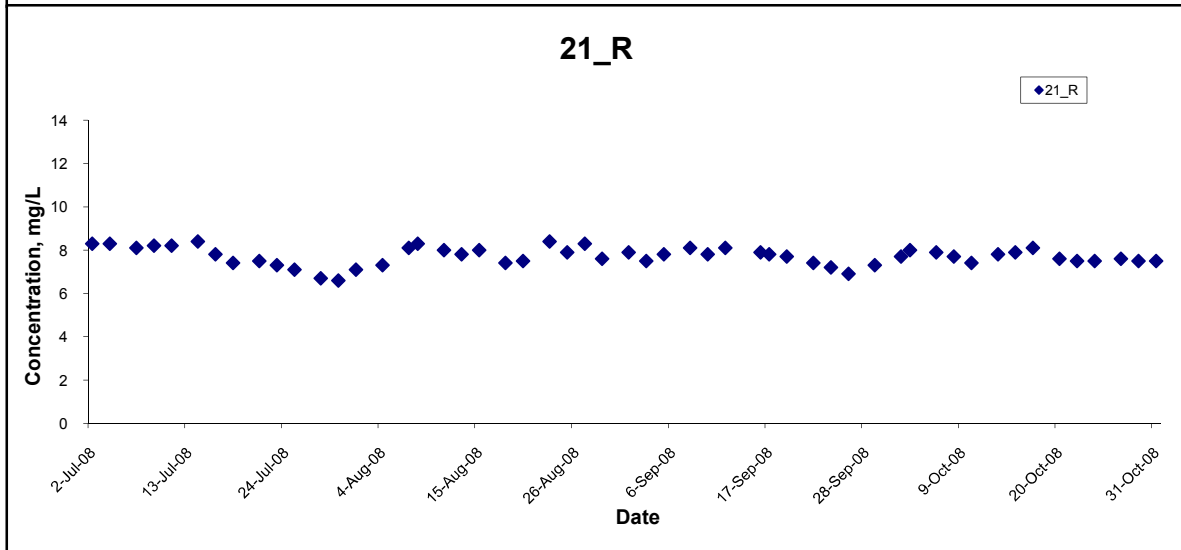
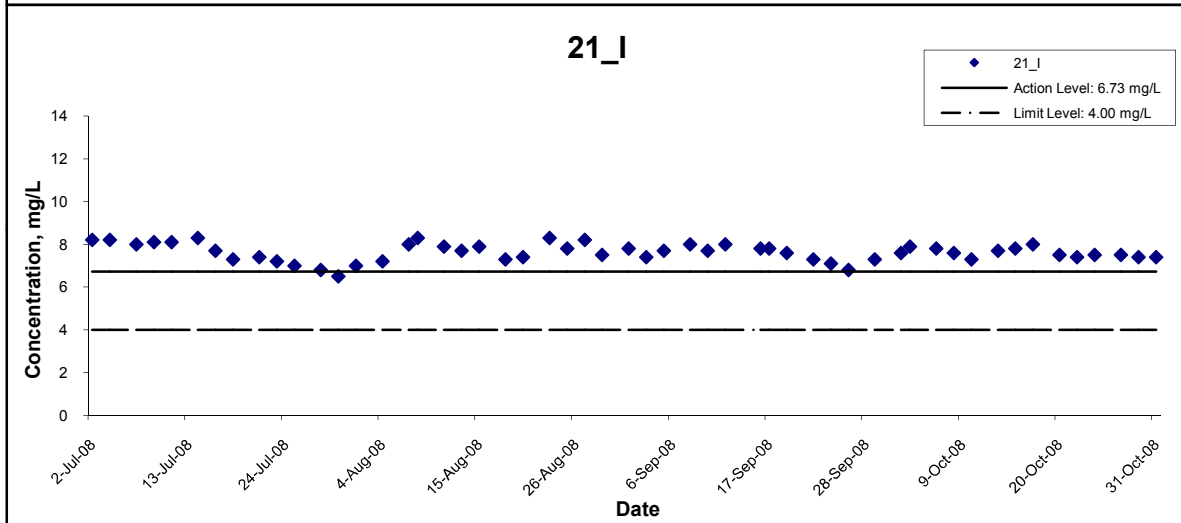
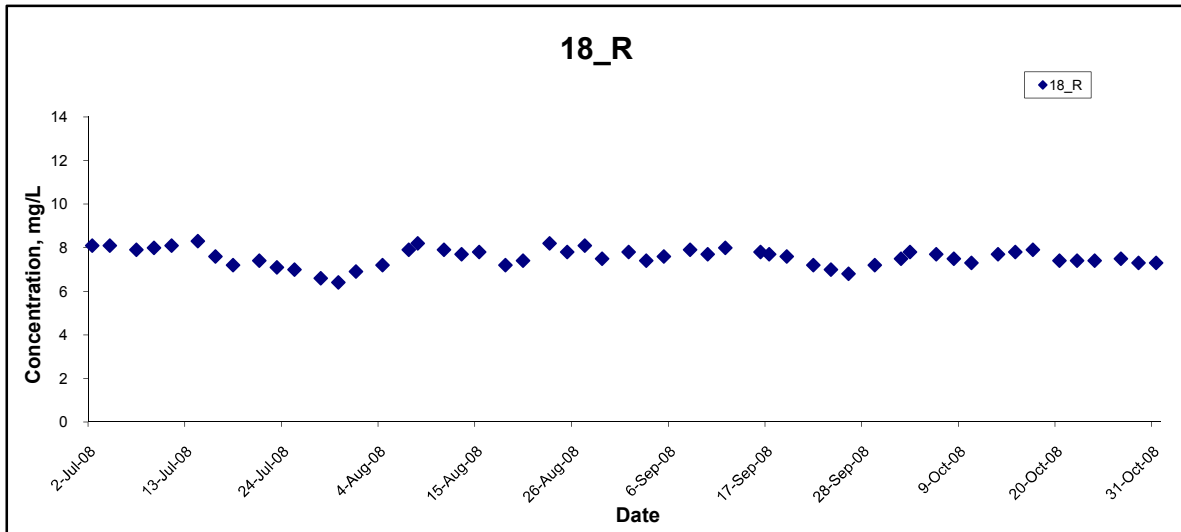
## Dissolved Oxygen



Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha  Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	
	Date Oct 08	Appendix F	

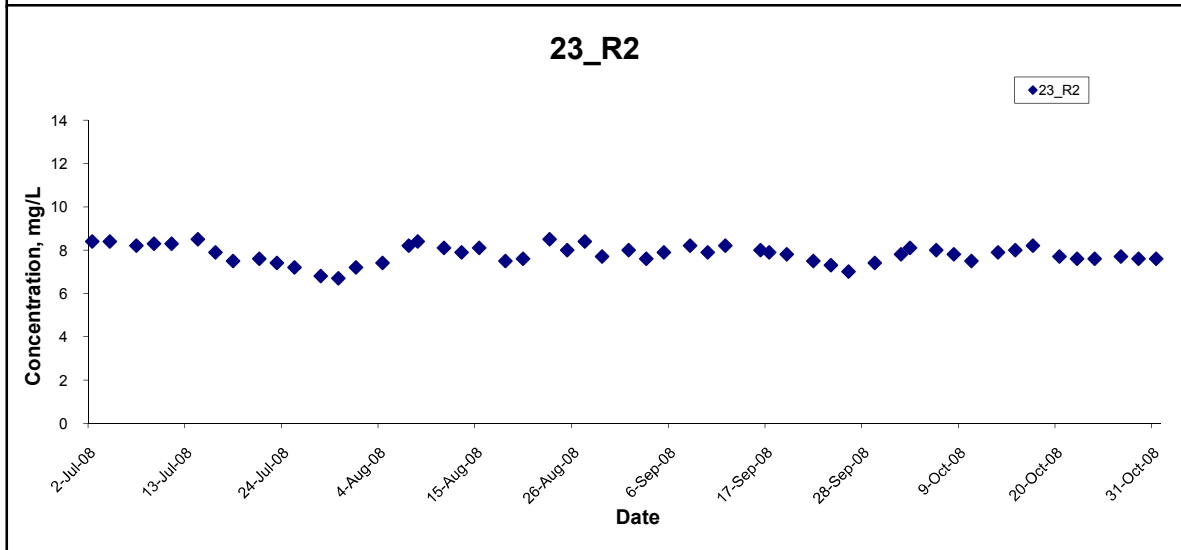
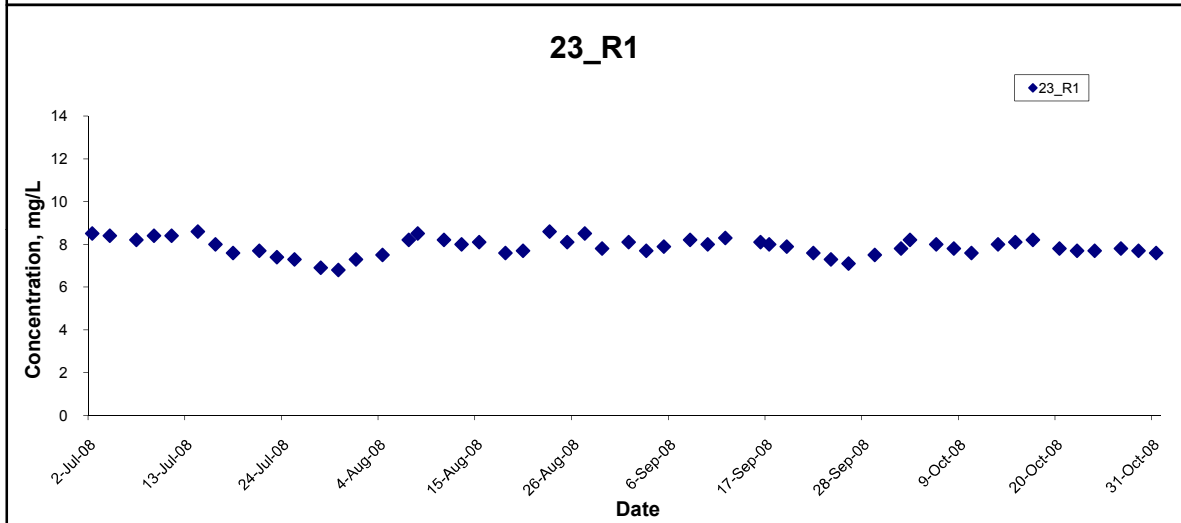
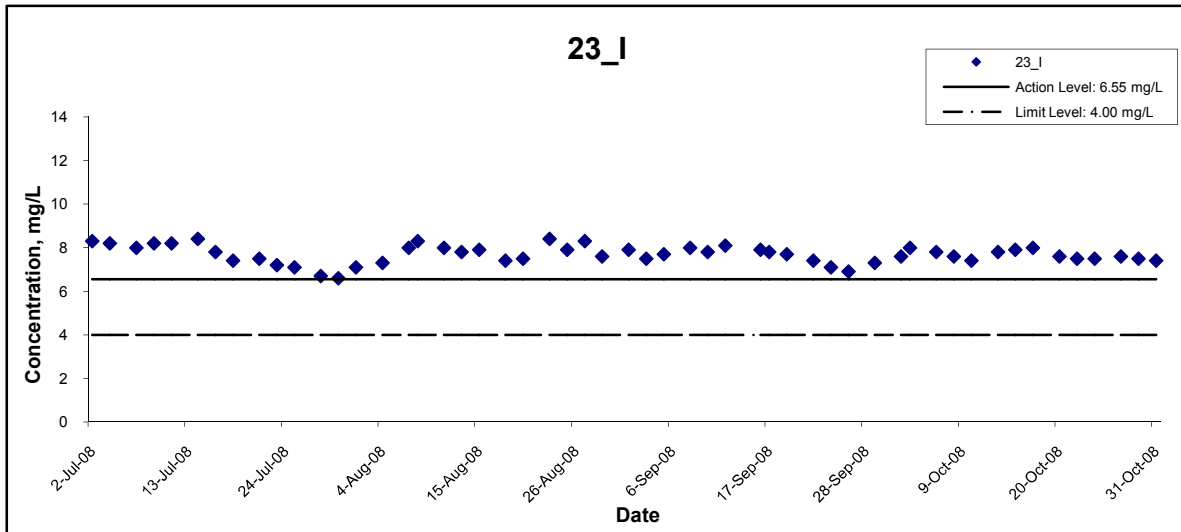


## Dissolved Oxygen



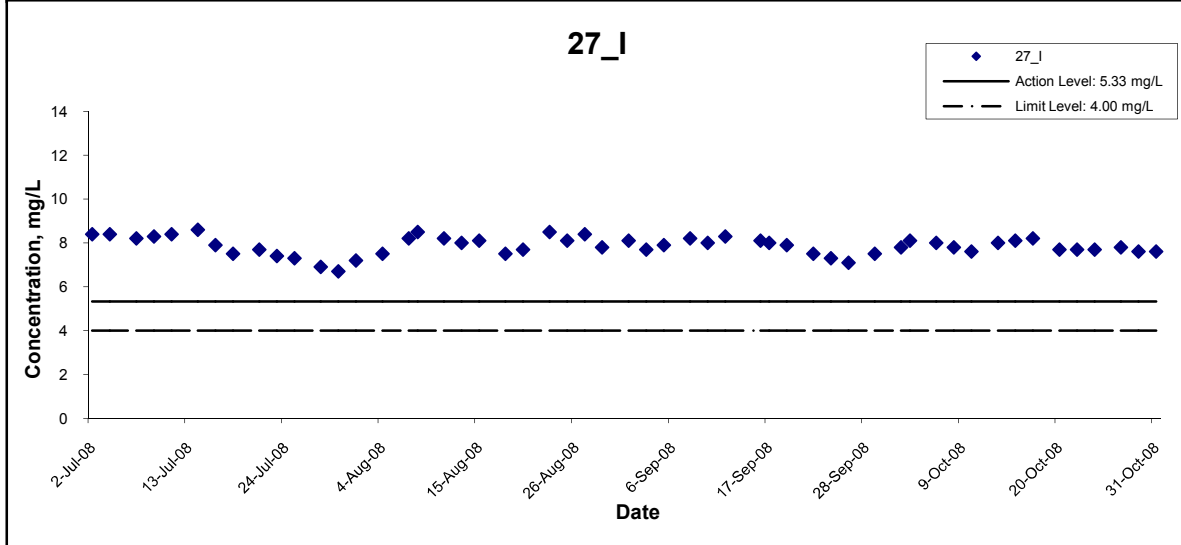
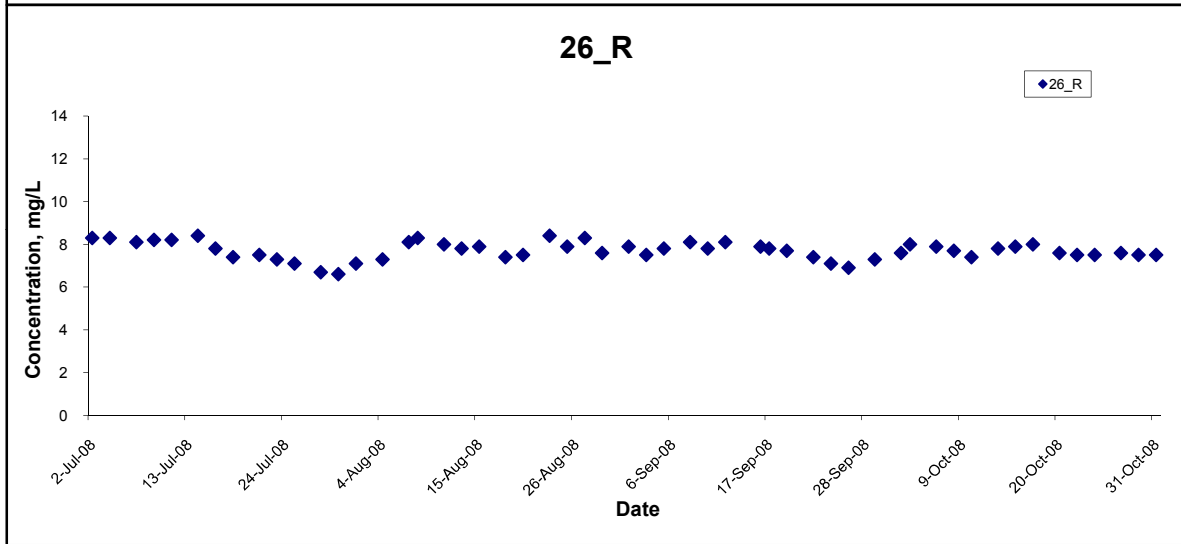
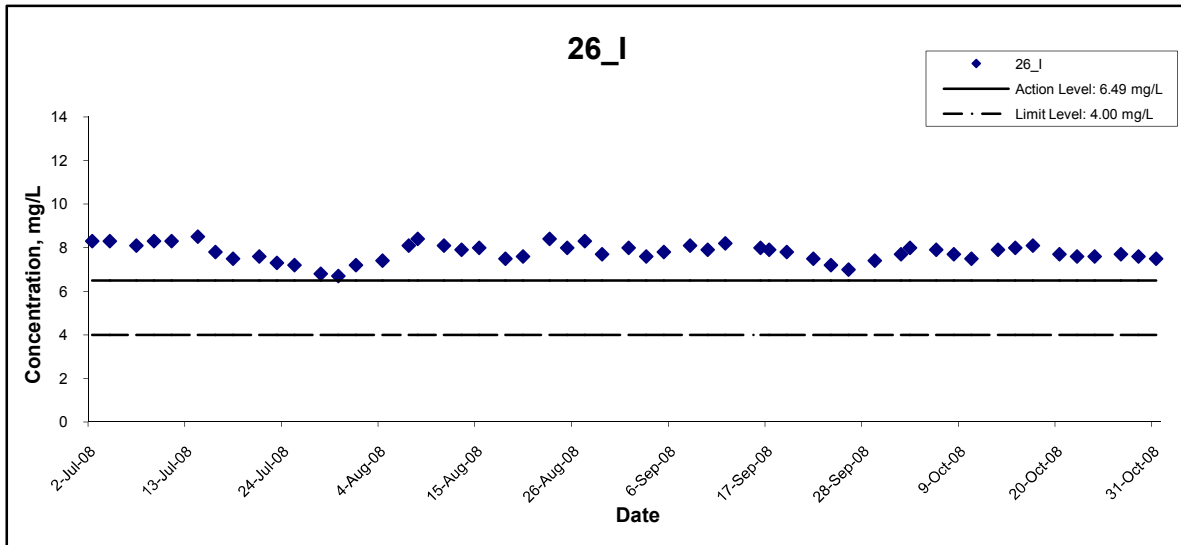
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	CINOTECH
	Date Oct 08	Appendix F	

## Dissolved Oxygen



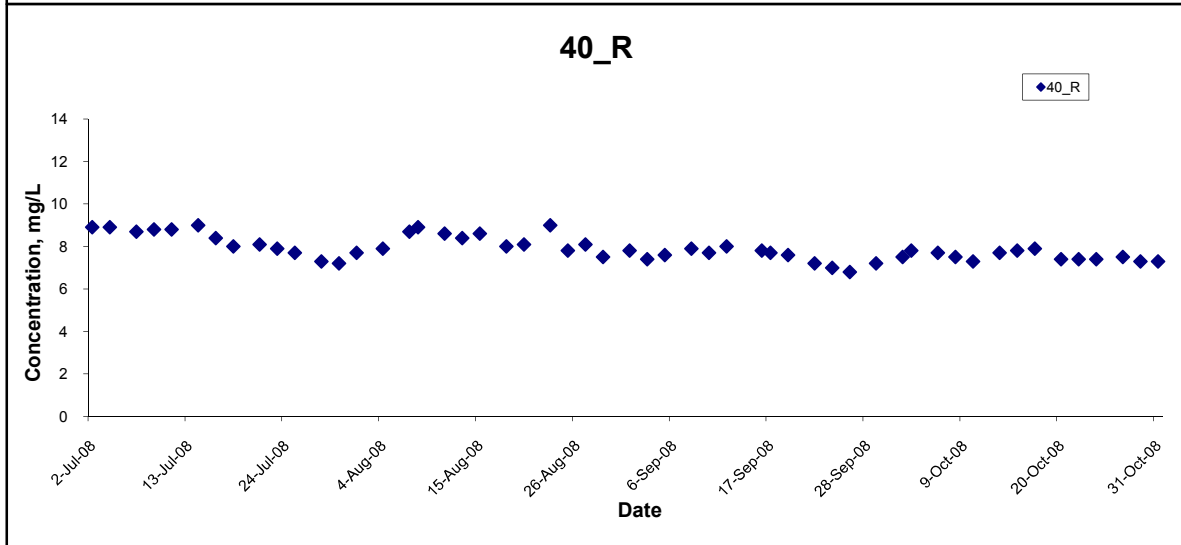
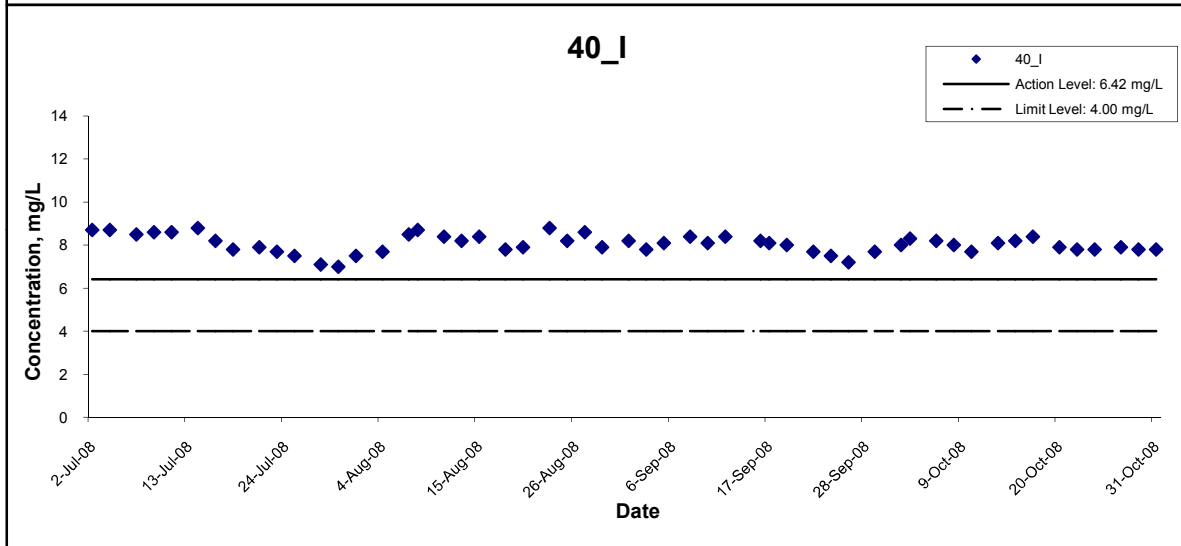
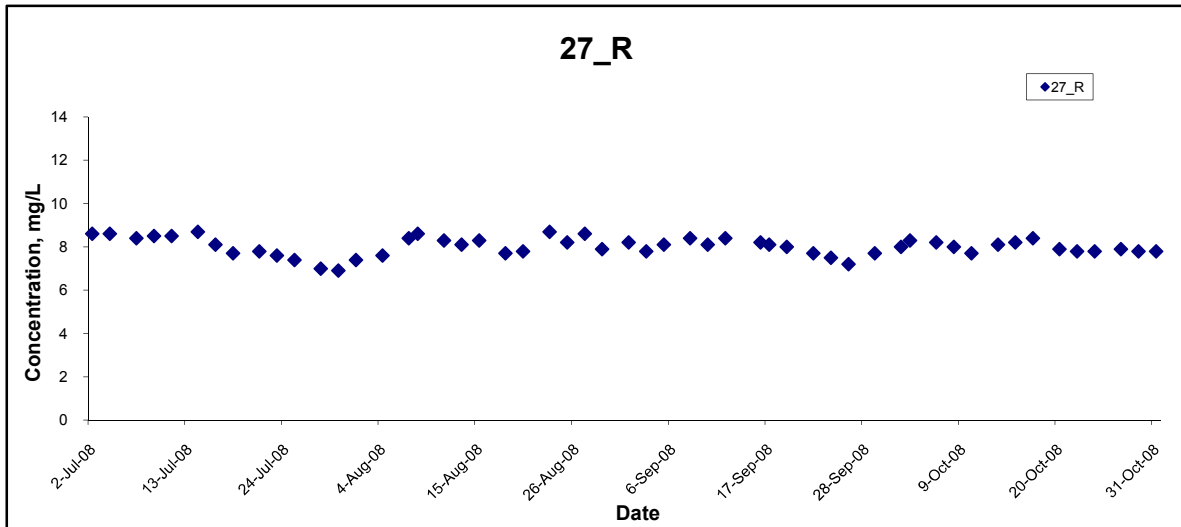
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha  Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	CINOTECH
	Date Oct 08	Appendix F	

## Dissolved Oxygen



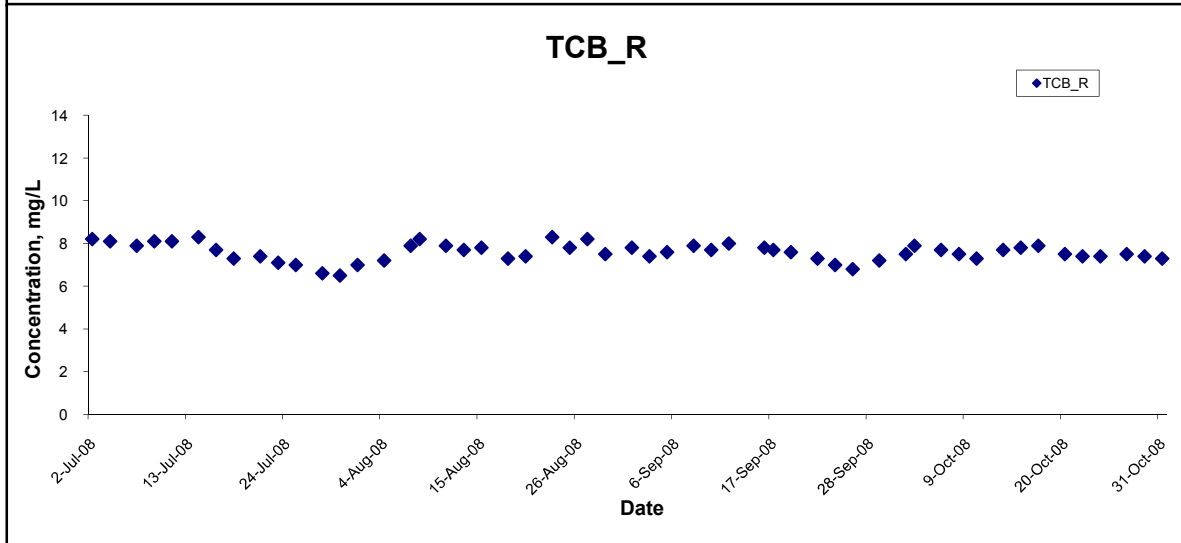
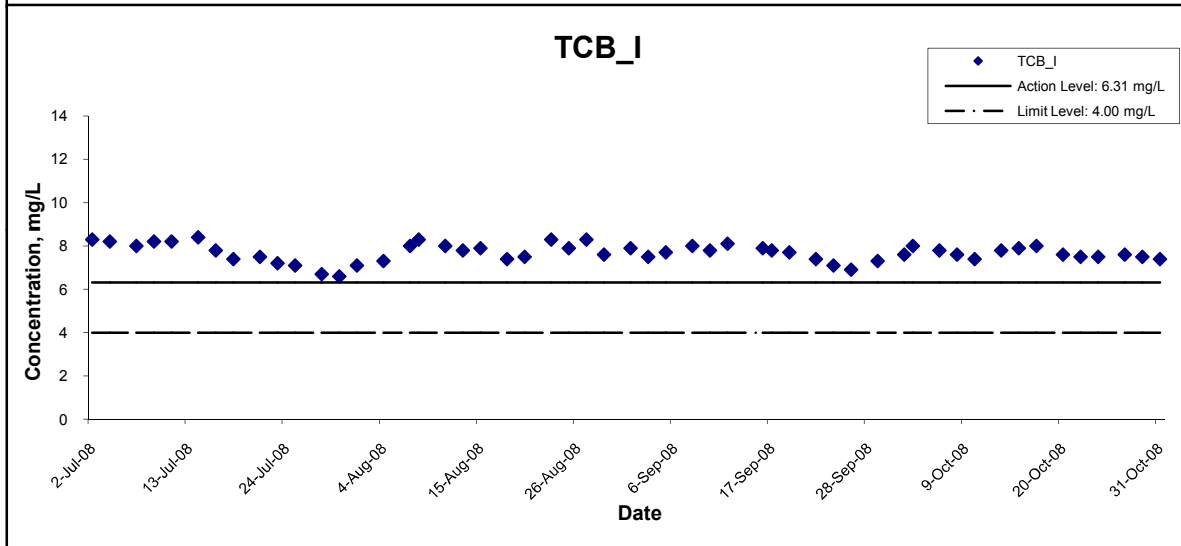
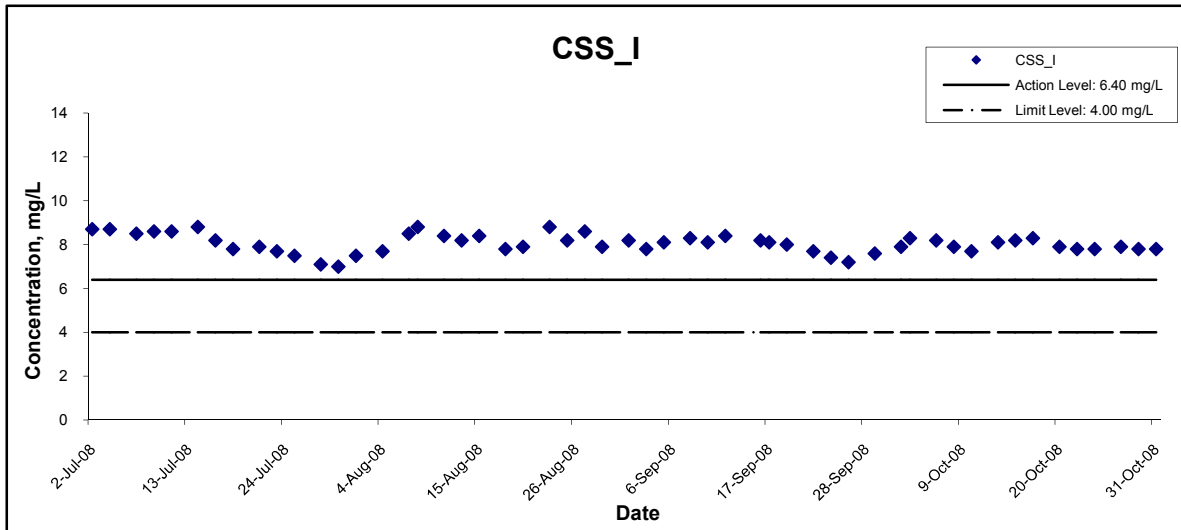
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha  Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	CINOTECH
	Date Oct 08	Appendix F	

## Dissolved Oxygen



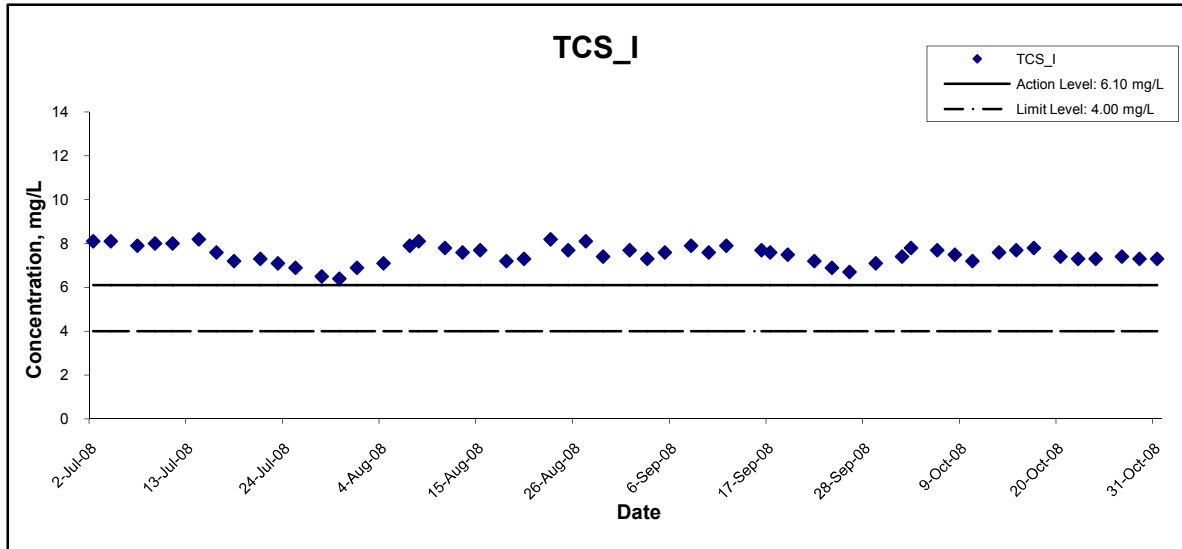
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha  Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	CINOTECH
	Date Oct 08	Appendix F	

## Dissolved Oxygen



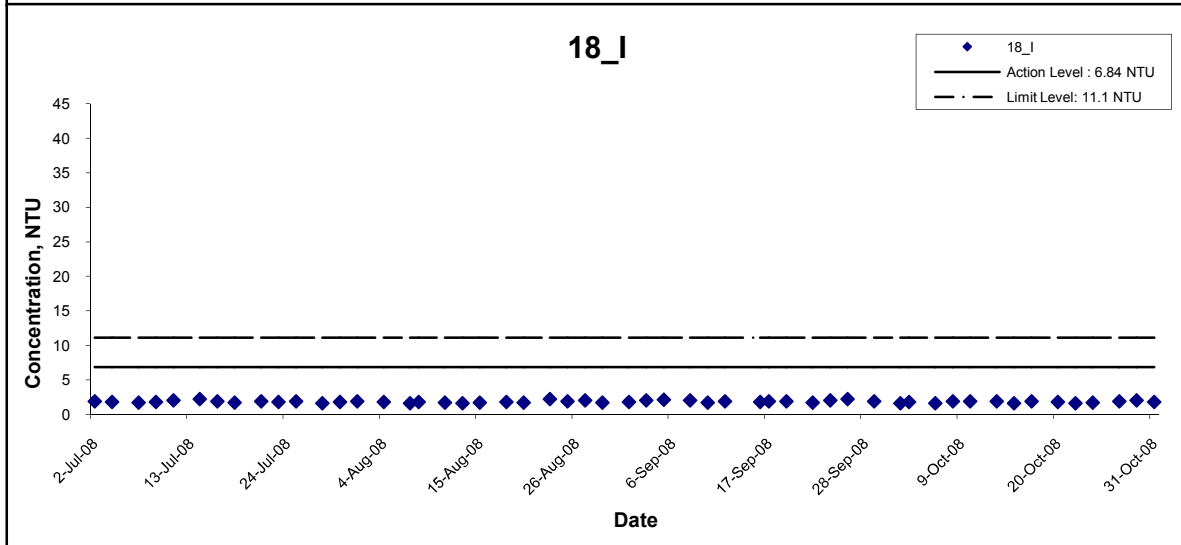
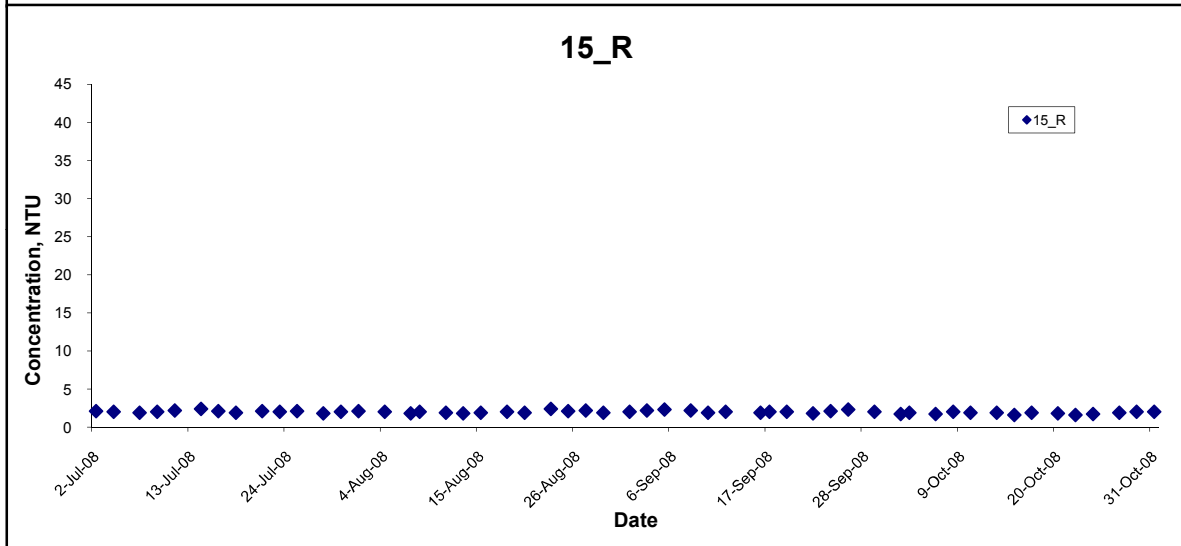
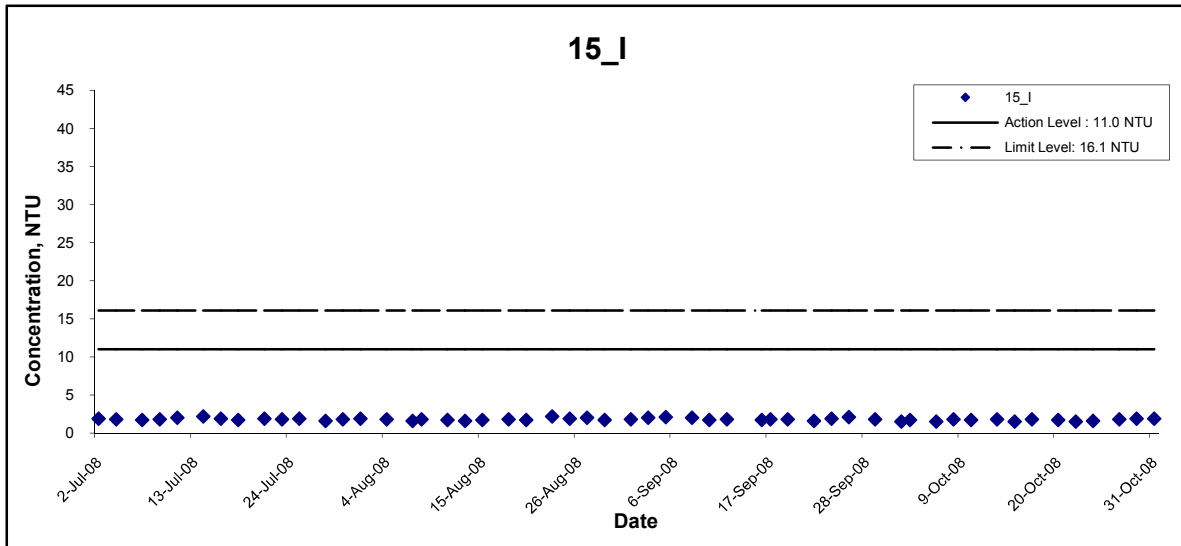
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	
	Date Oct 08	Appendix F	

## Dissolved Oxygen



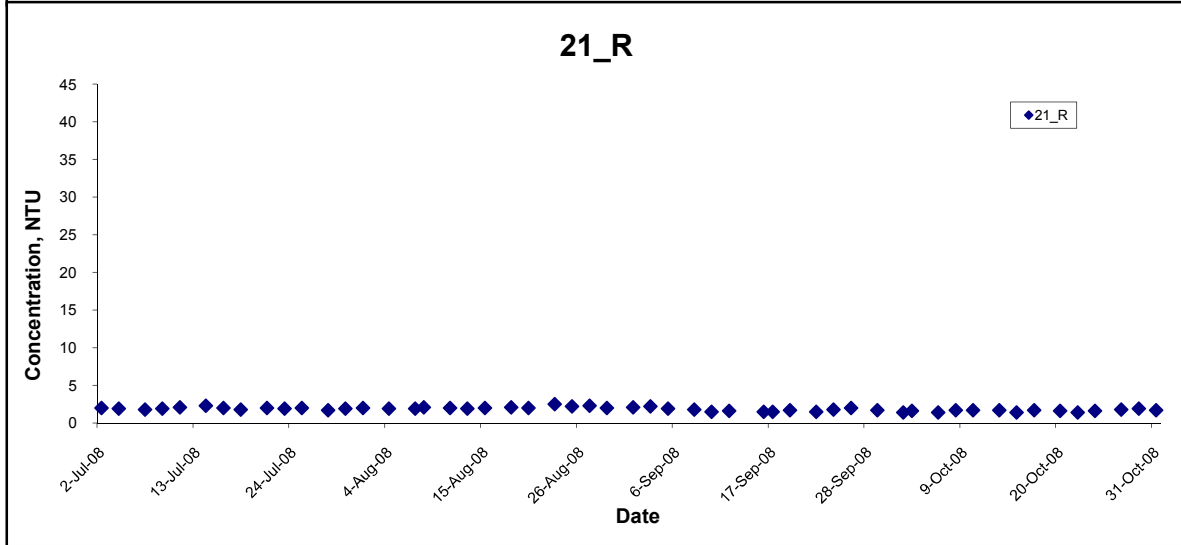
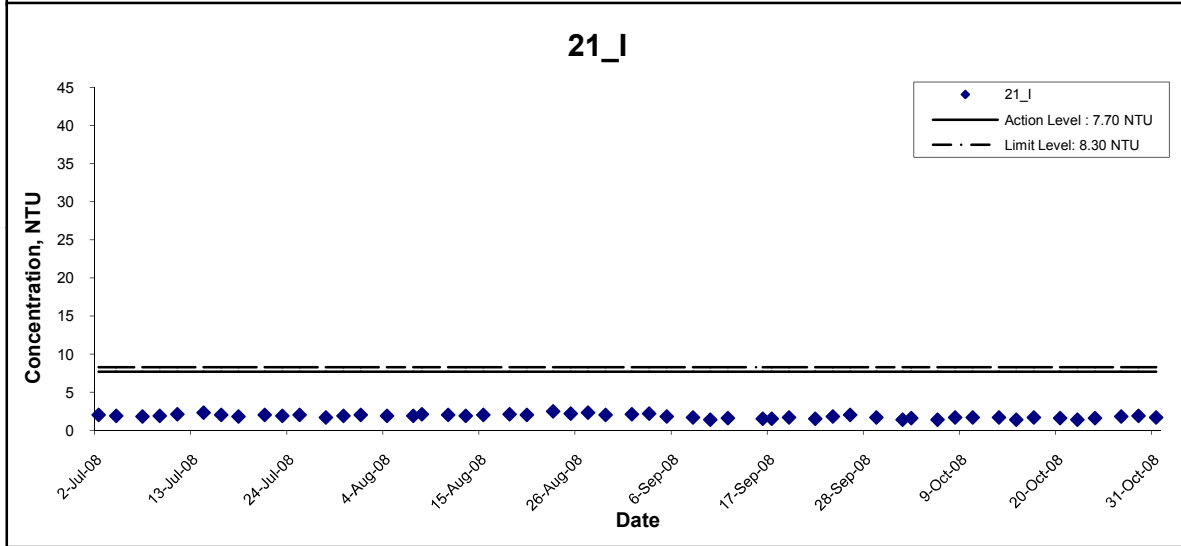
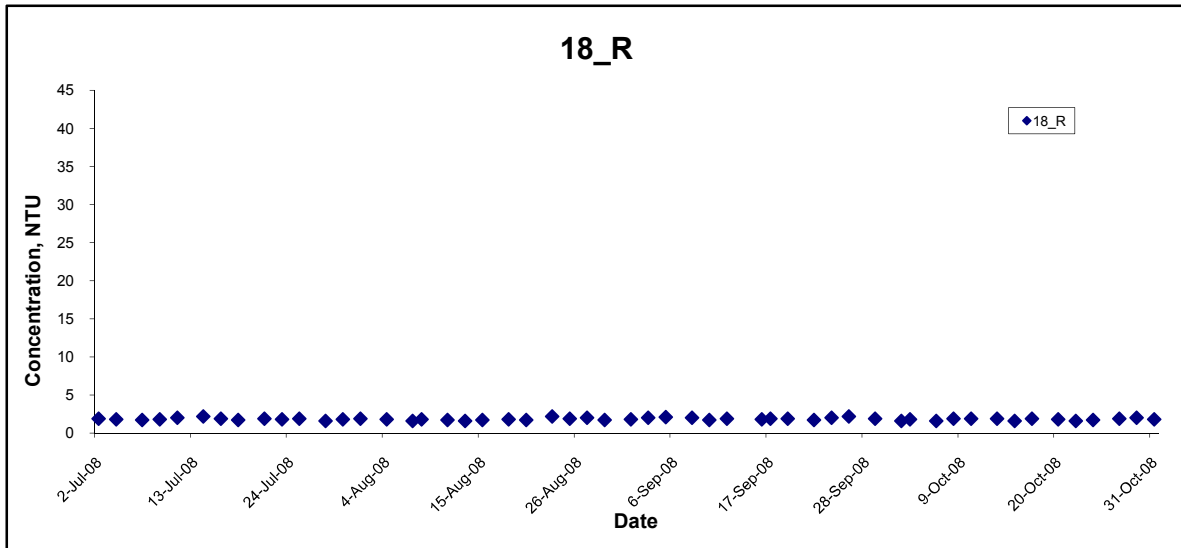
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha  Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	CINOTECH
	Date Oct 08	Appendix F	

## Turbidity



Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	CINOTECH
	Date Oct 08	Appendix F	

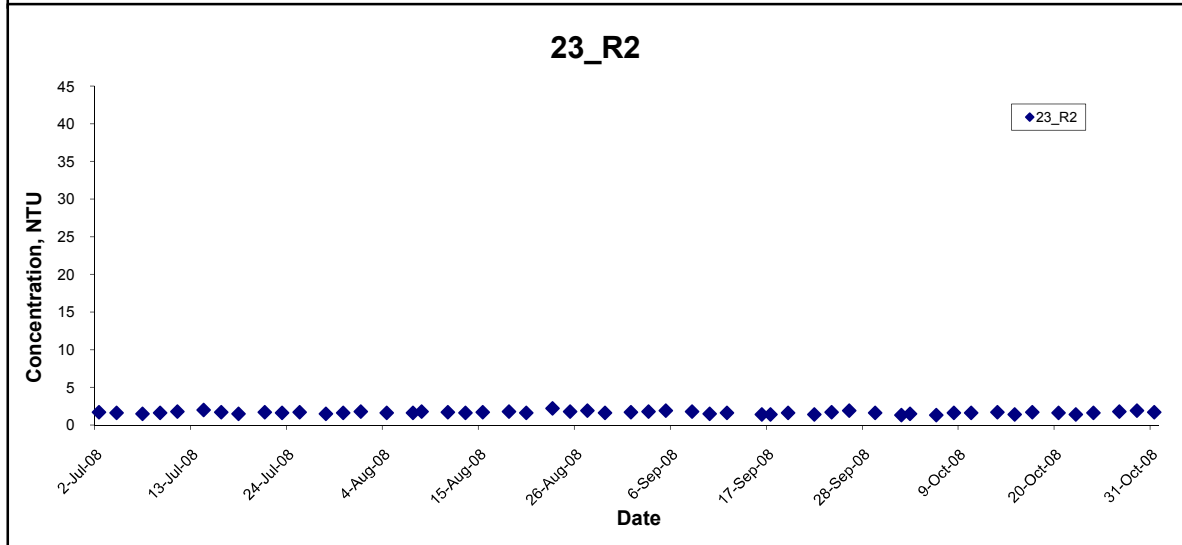
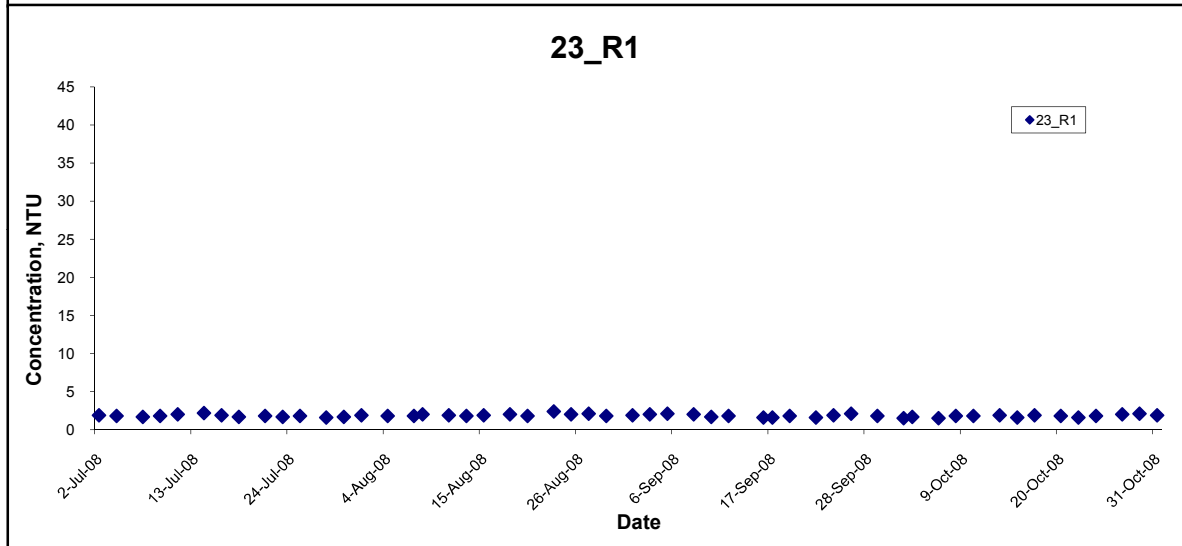
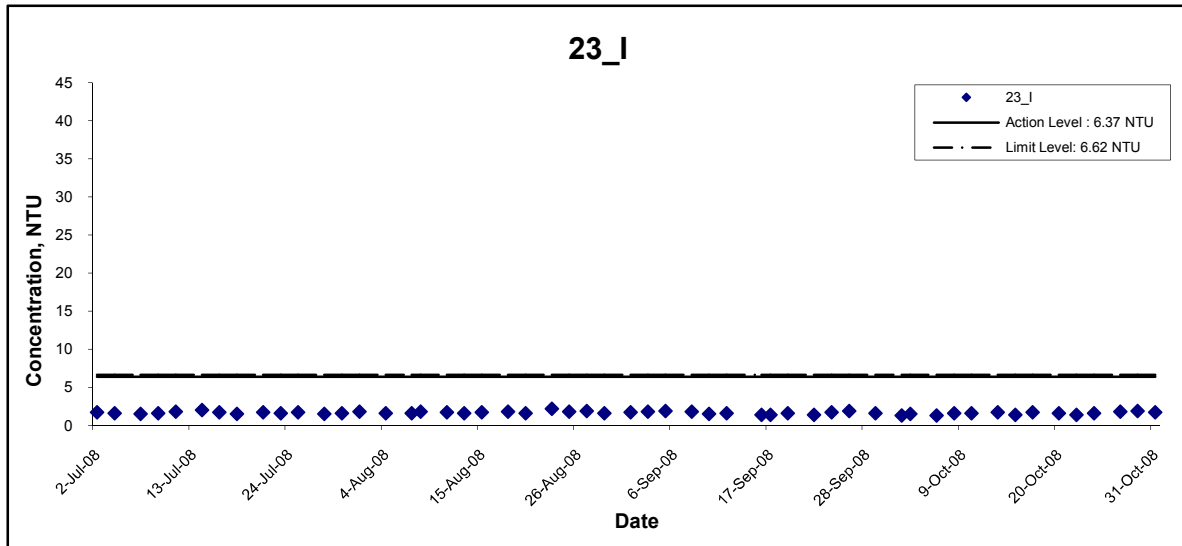
## Turbidity



Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	
	Date Oct 08	Appendix F	

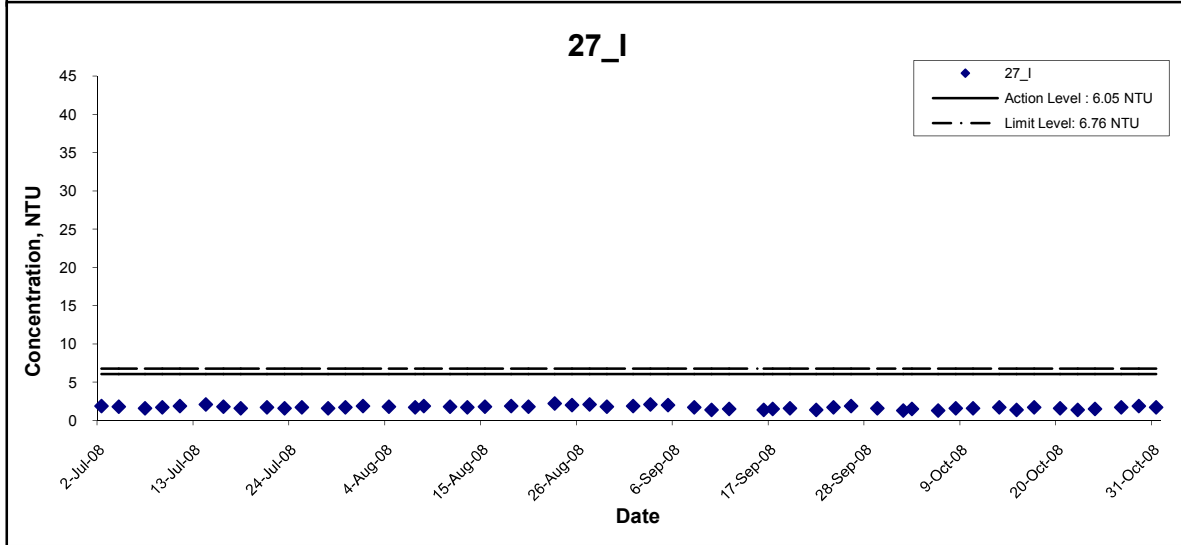
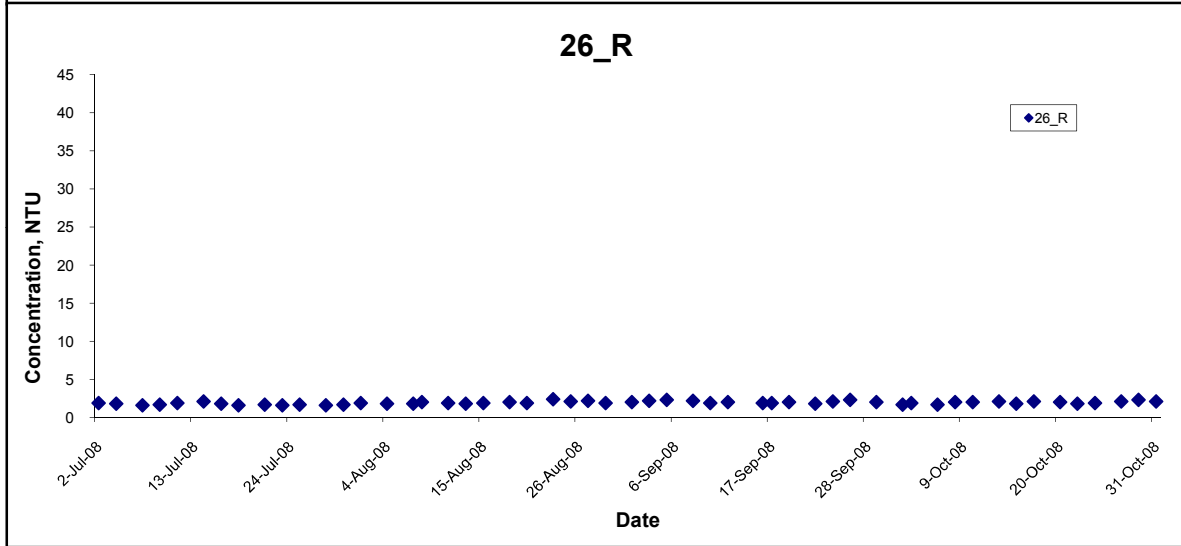
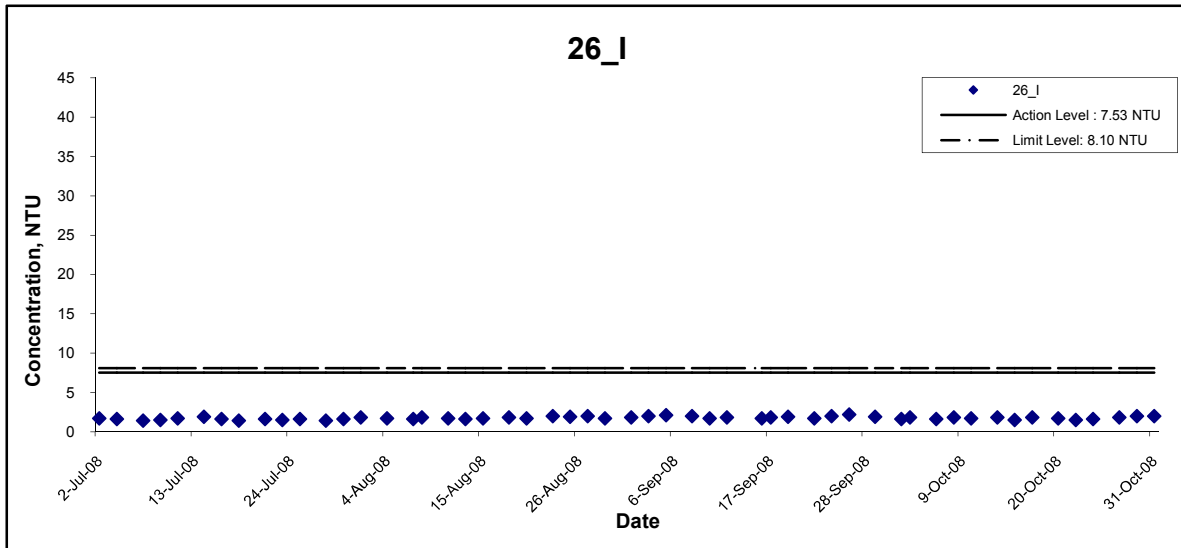


## Turbidity



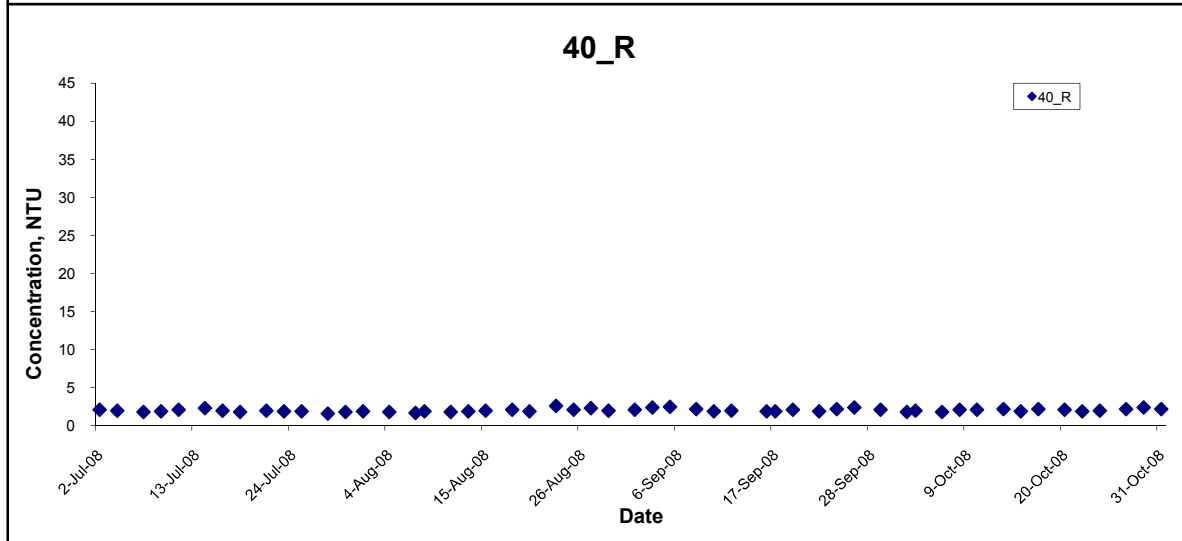
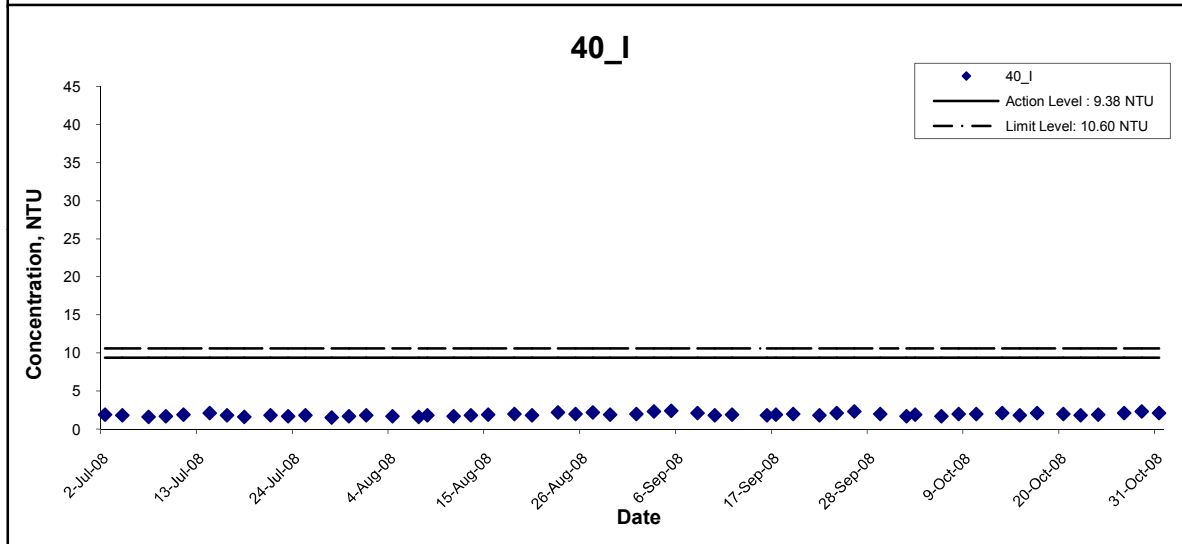
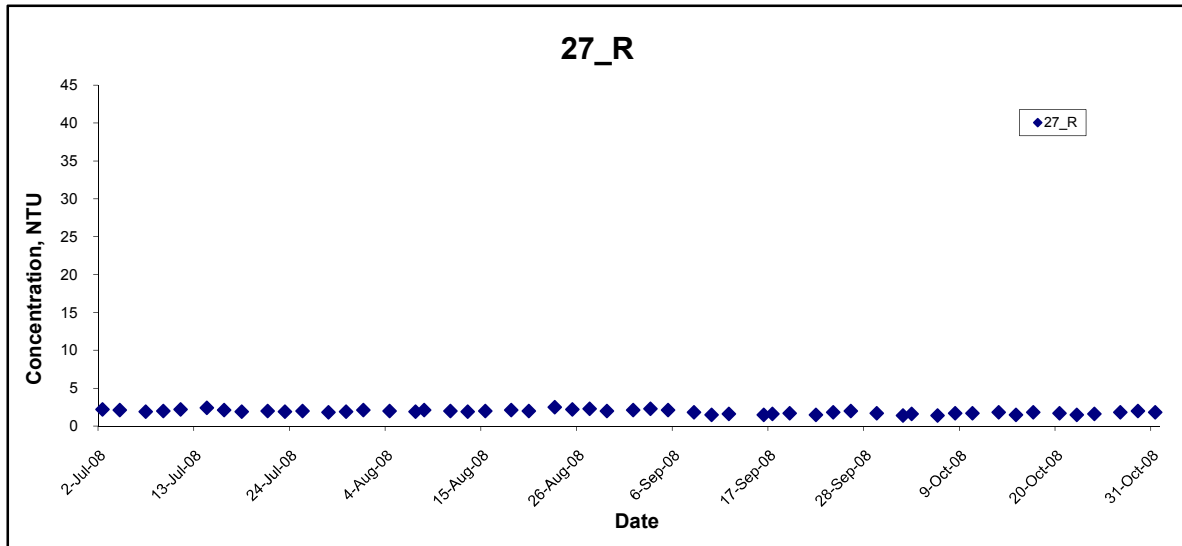
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	
	Date Oct 08	Appendix F	

## Turbidity



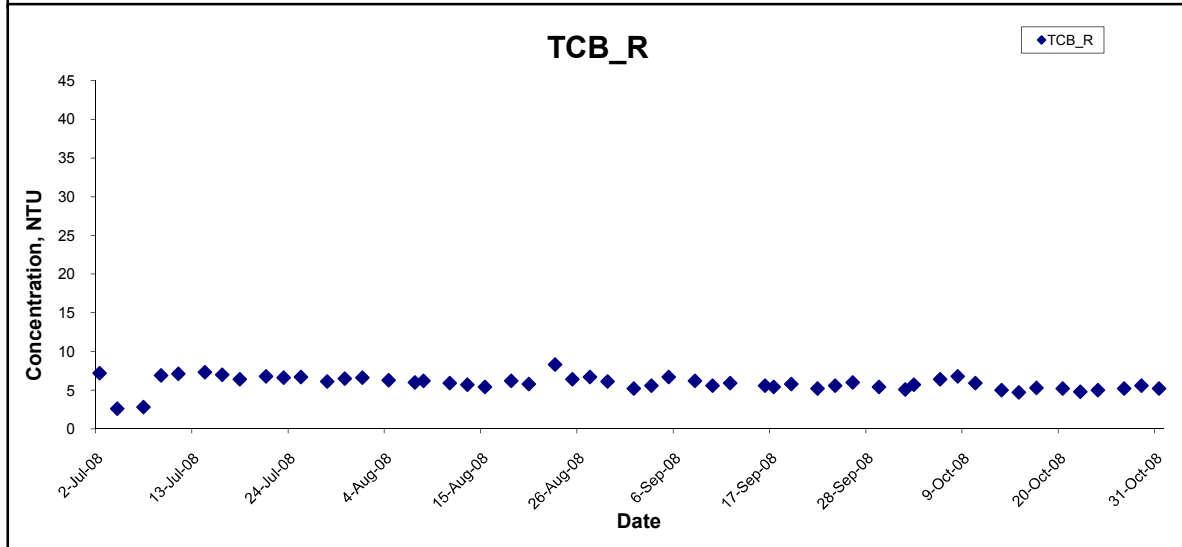
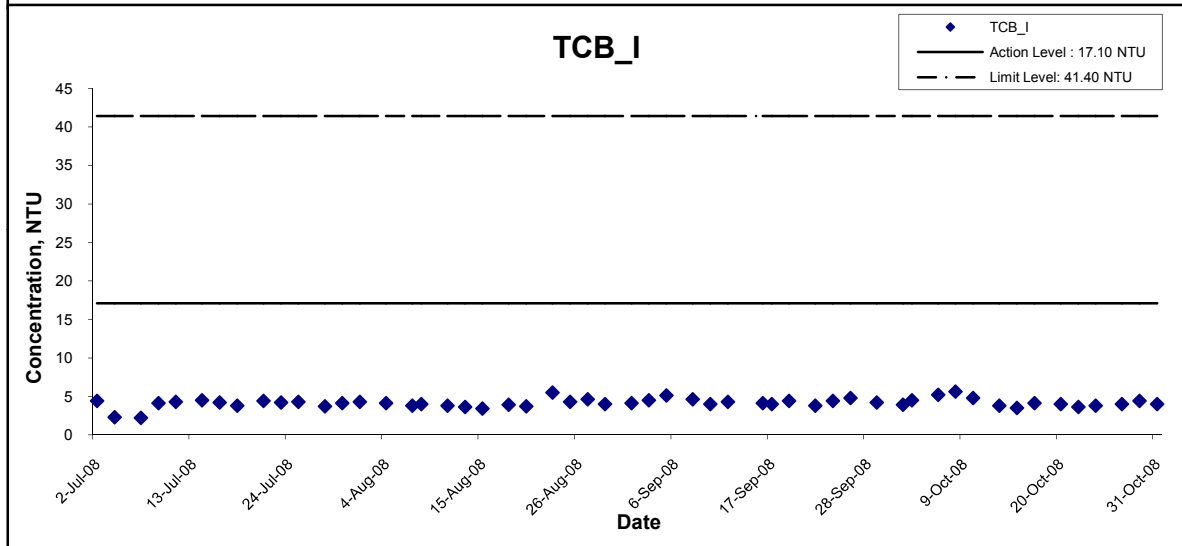
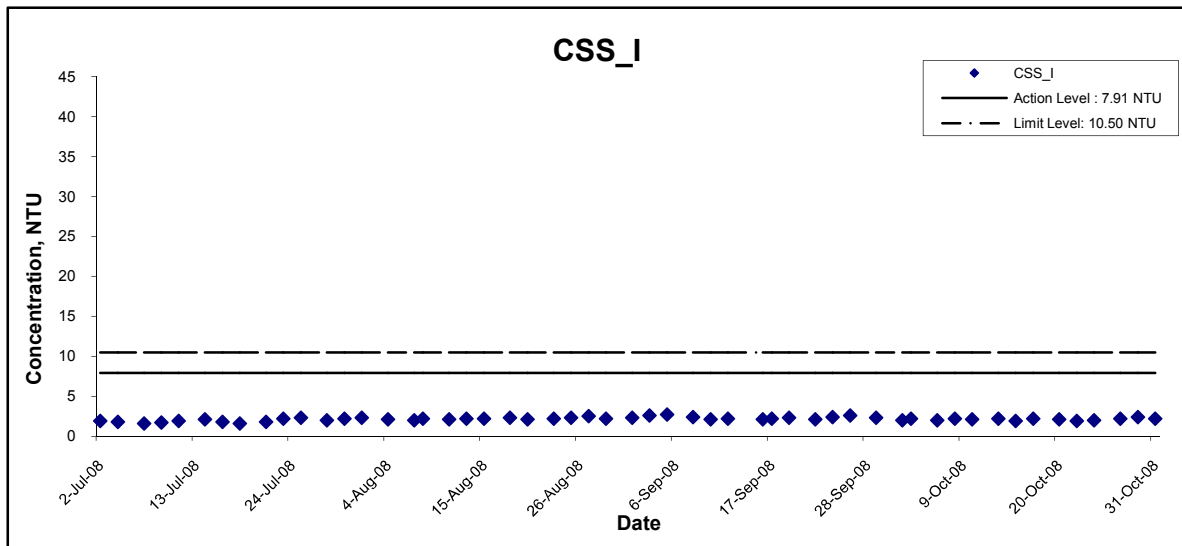
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	CINOTECH
	Date Oct 08	Appendix F	

## Turbidity



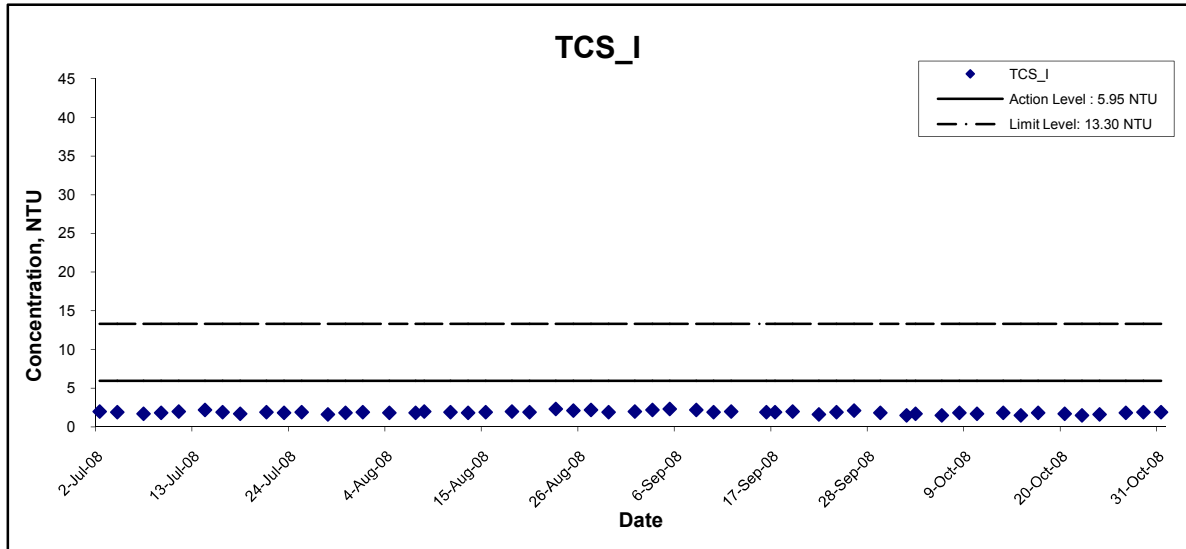
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha  Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	
	Date Oct 08	Appendix F	

## Turbidity



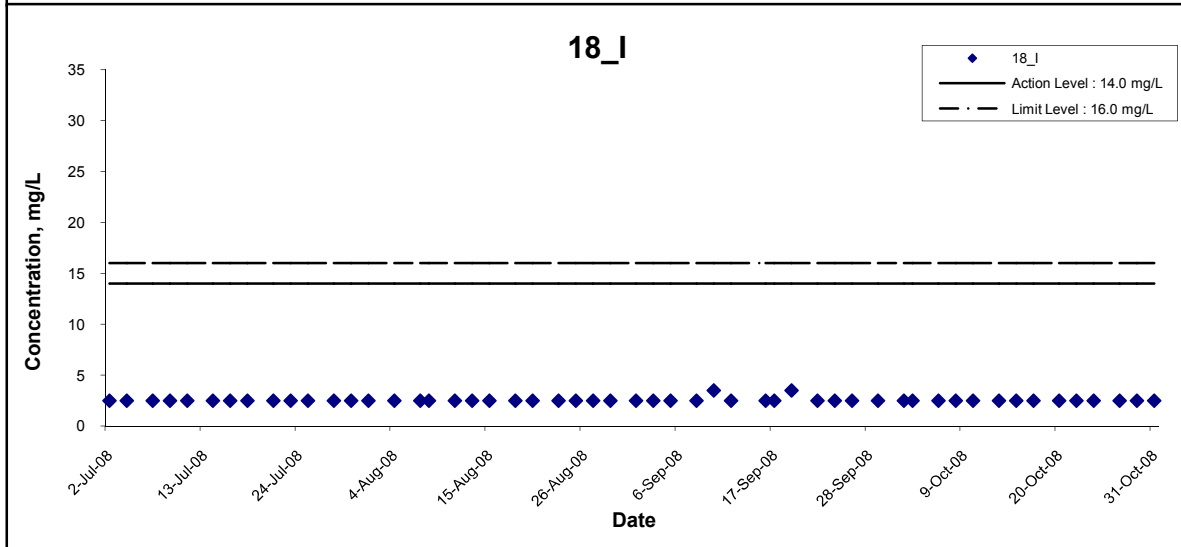
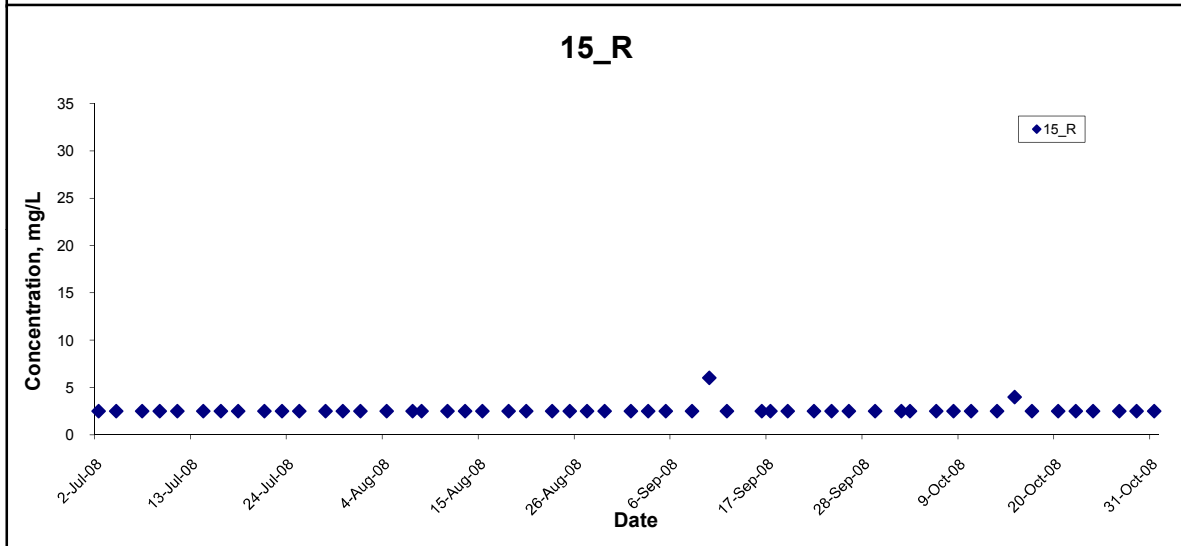
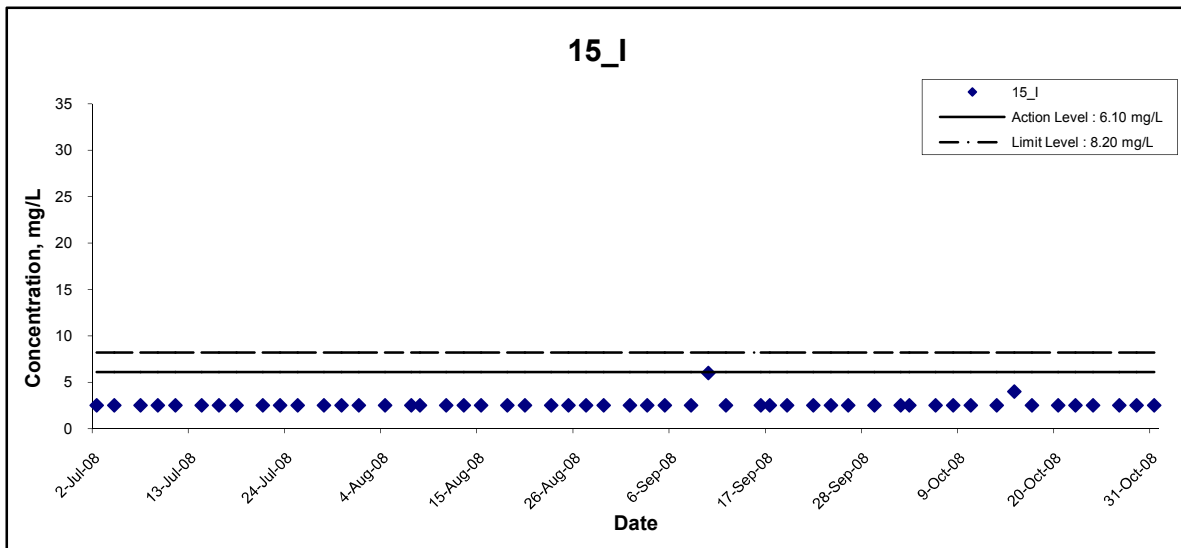
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha  Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	
	Date Oct 08	Appendix F	

## Turbidity



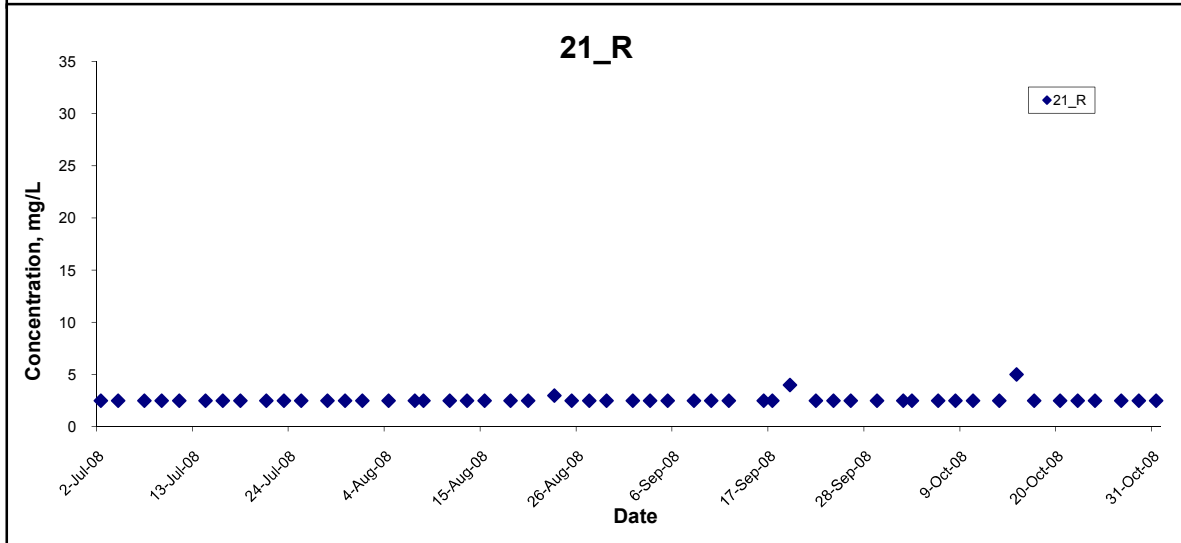
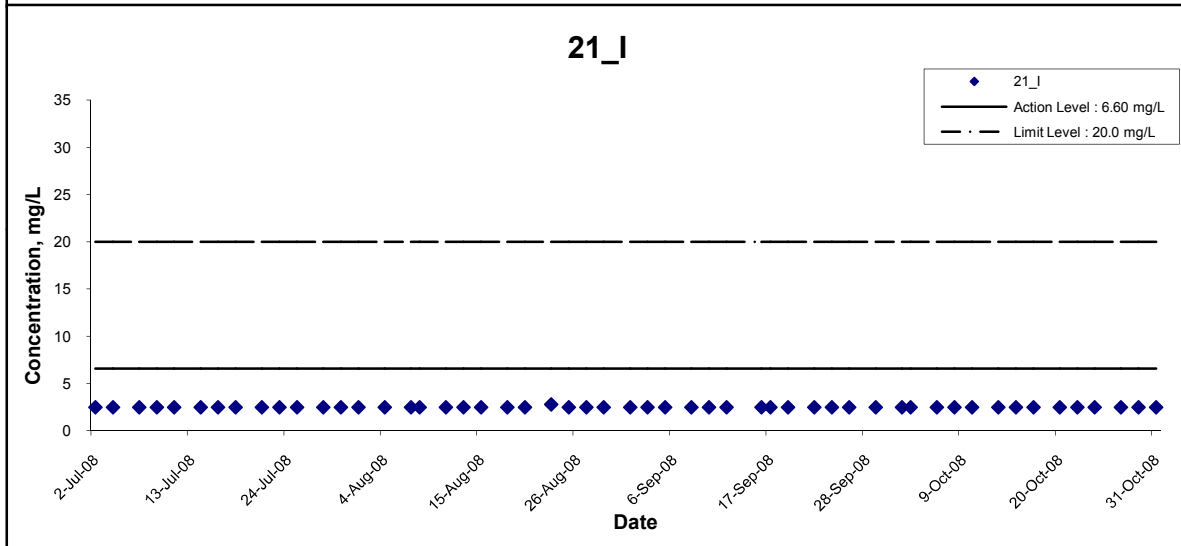
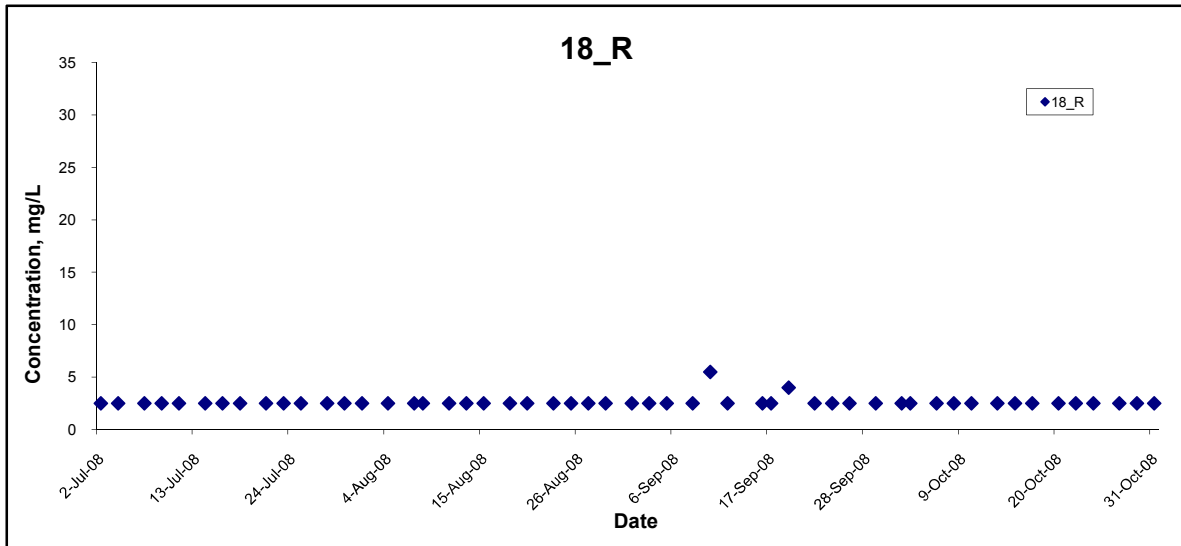
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha  Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	
	Date Oct 08	Appendix F	

## Suspended Solids



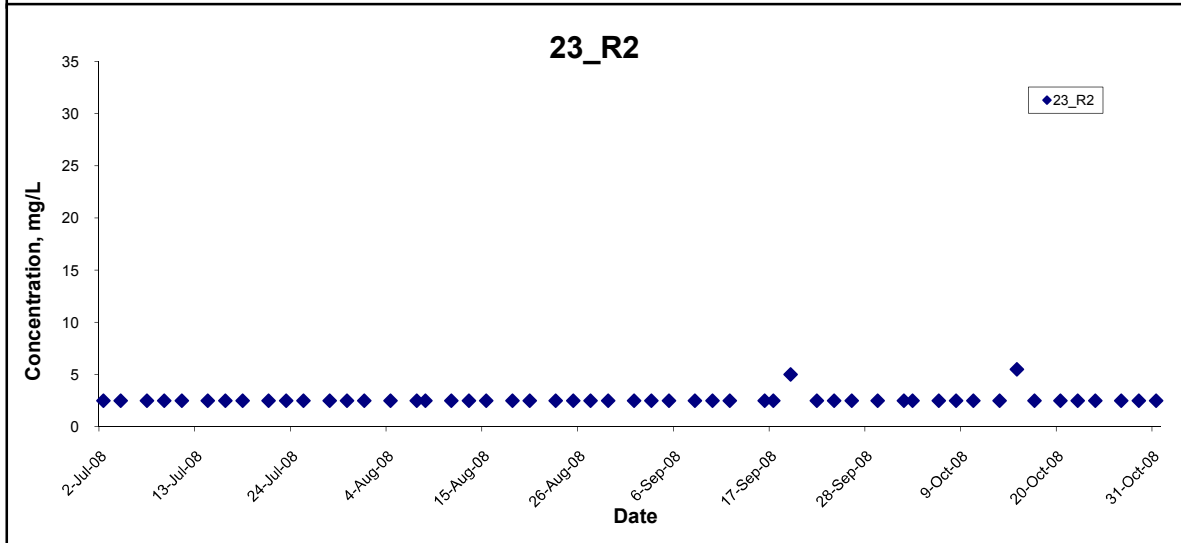
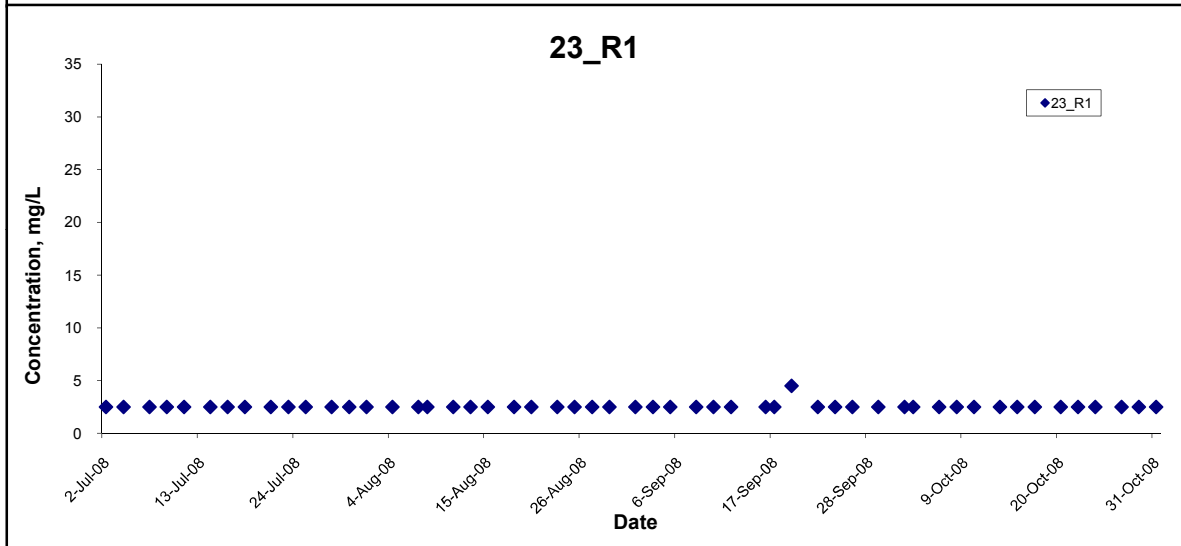
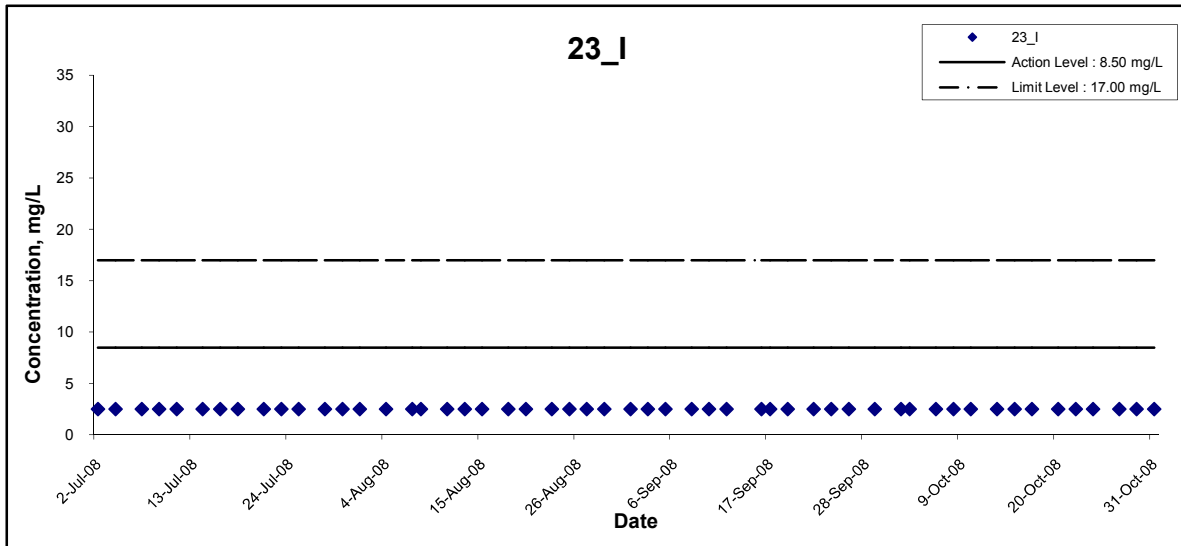
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha  Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	
	Date Oct 08	Appendix F	

## Suspended Solids



Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	CINOTECH
	Date Oct 08	Appendix F	

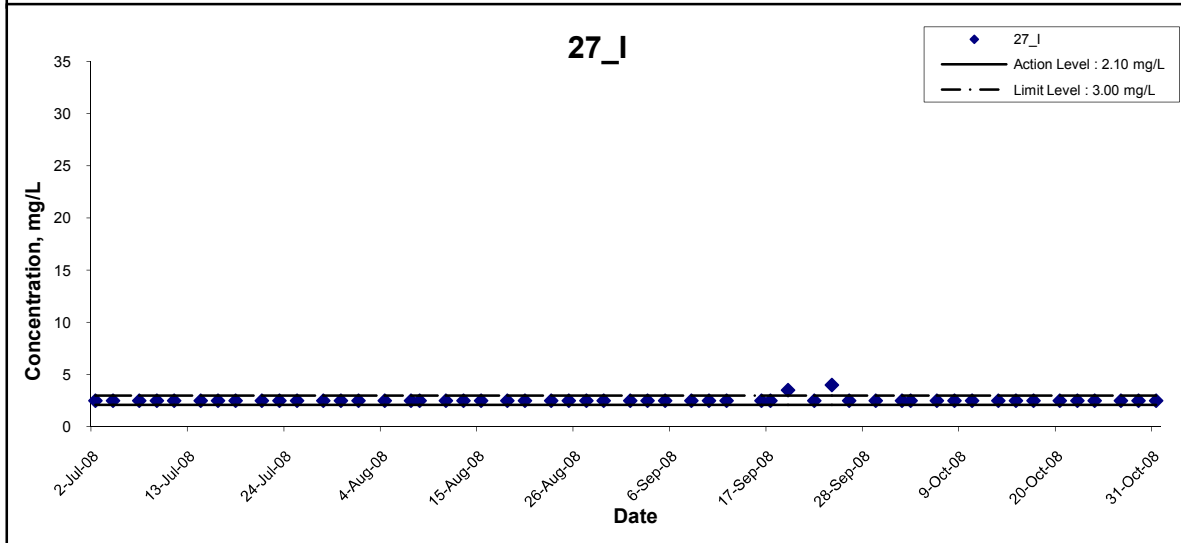
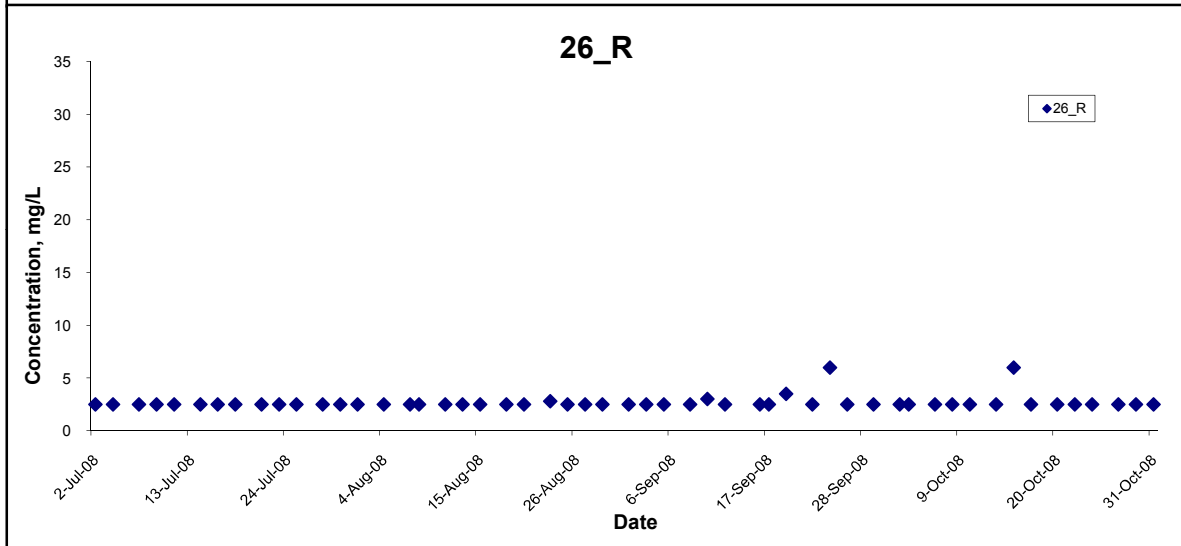
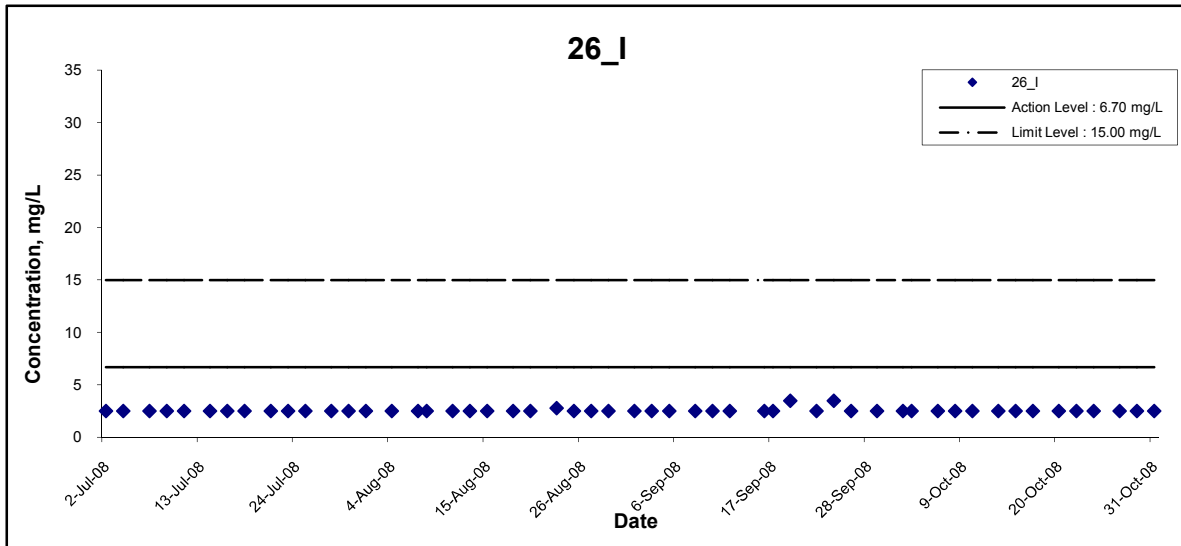
## Suspended Solids



Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	
	Date Oct 08	Appendix F	



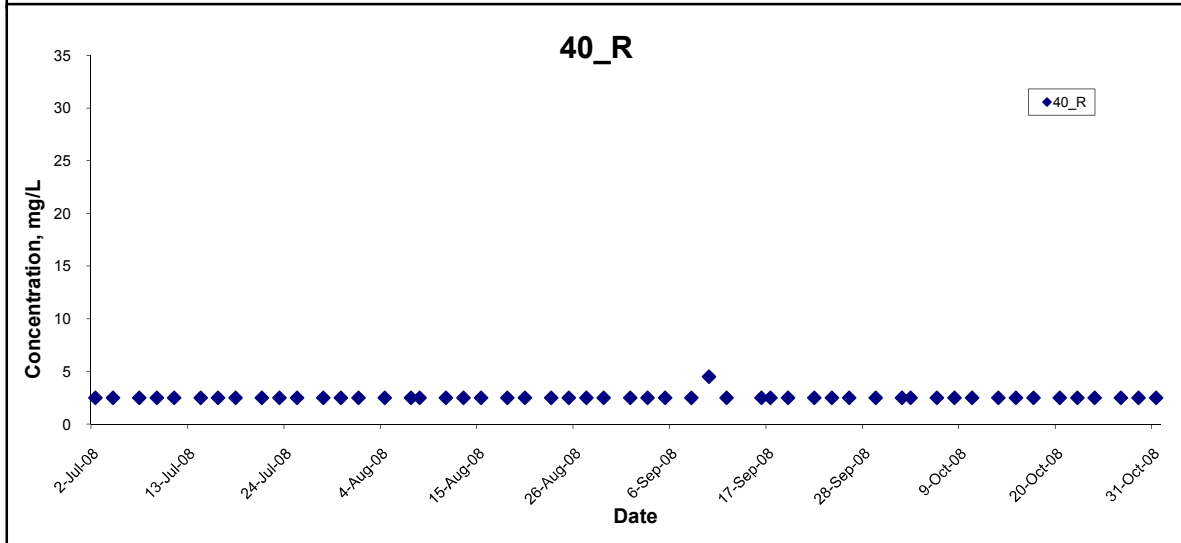
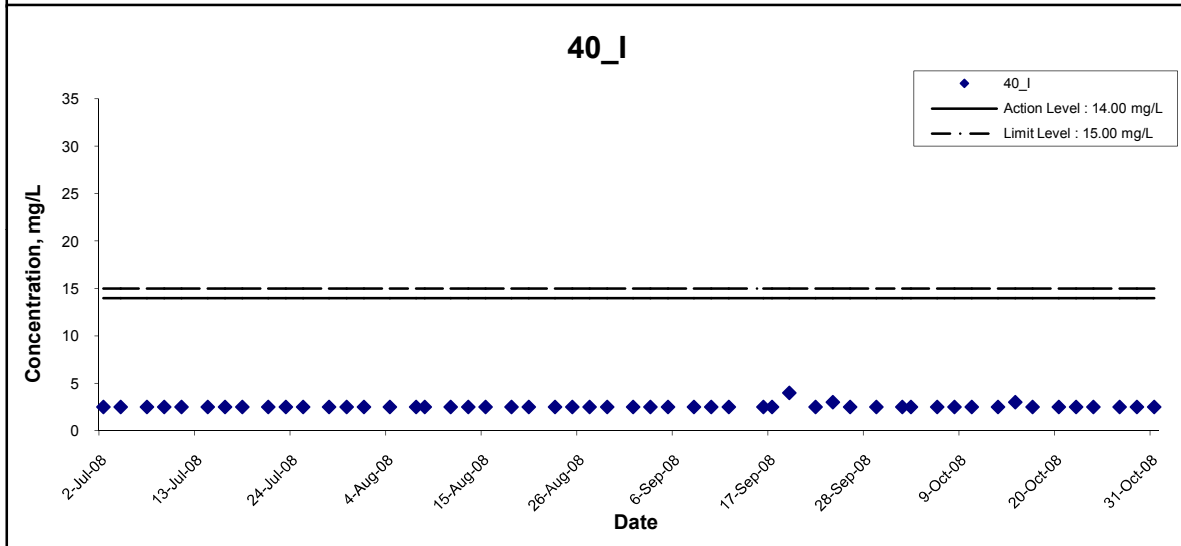
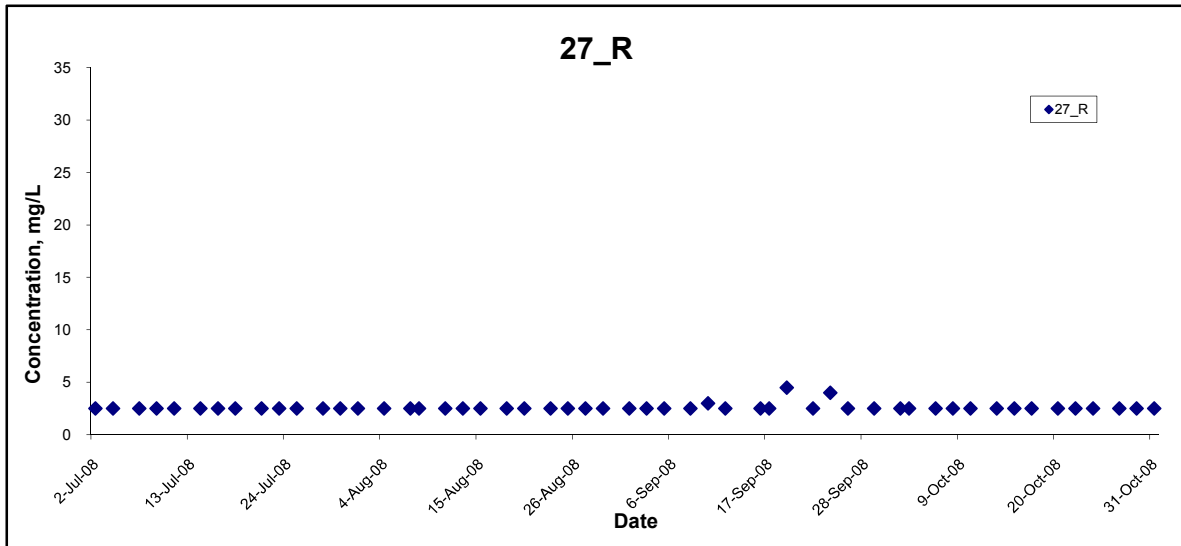
## Suspended Solids



Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale	N.T.S	Project No.	MA6030
	Date	Oct 08	Appendix	F

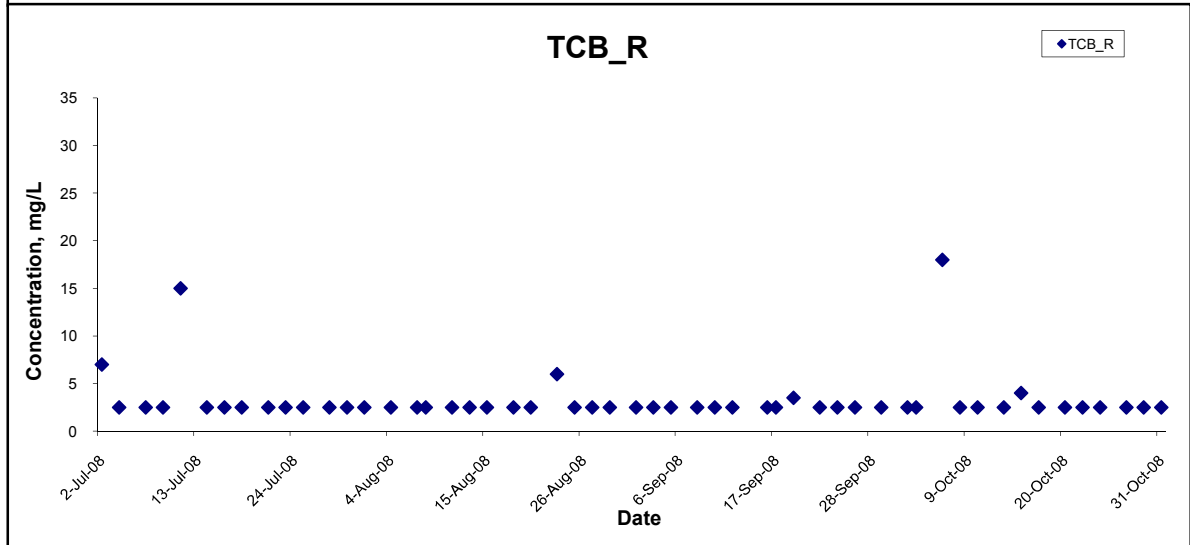
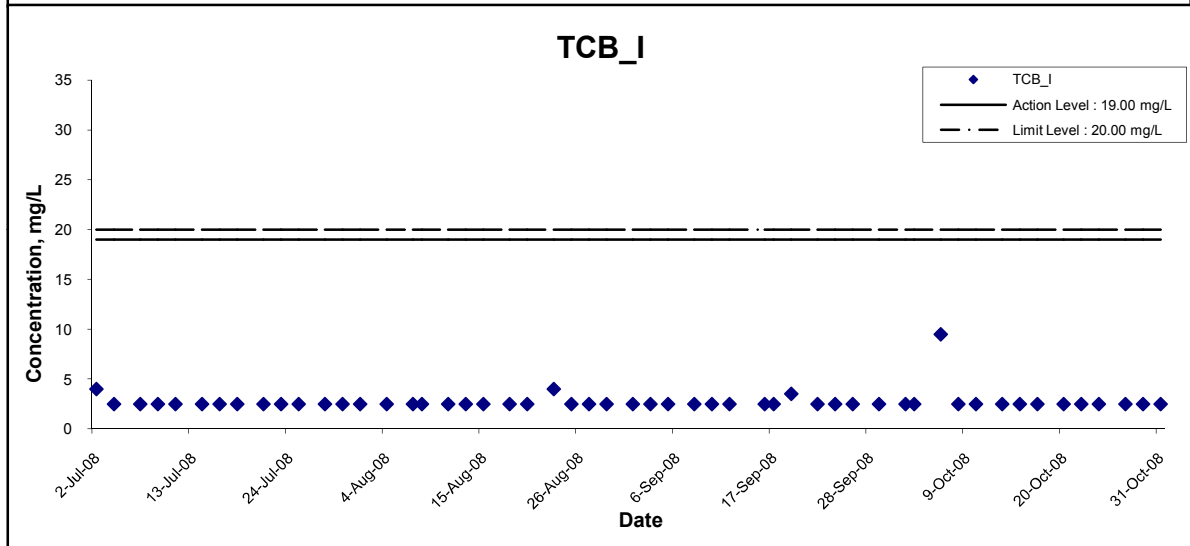
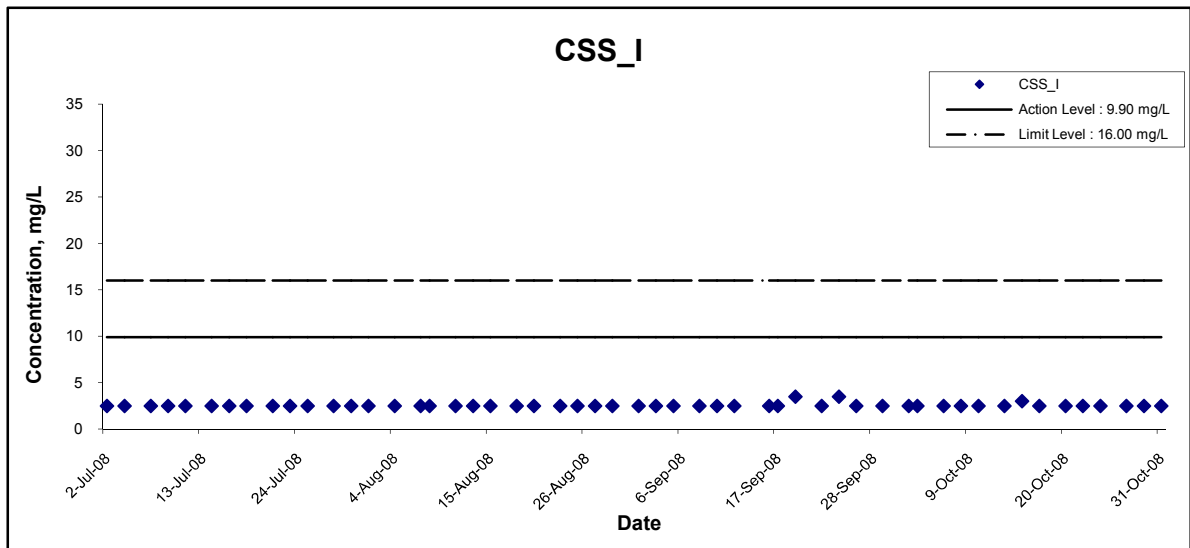
CINOTECH

## Suspended Solids



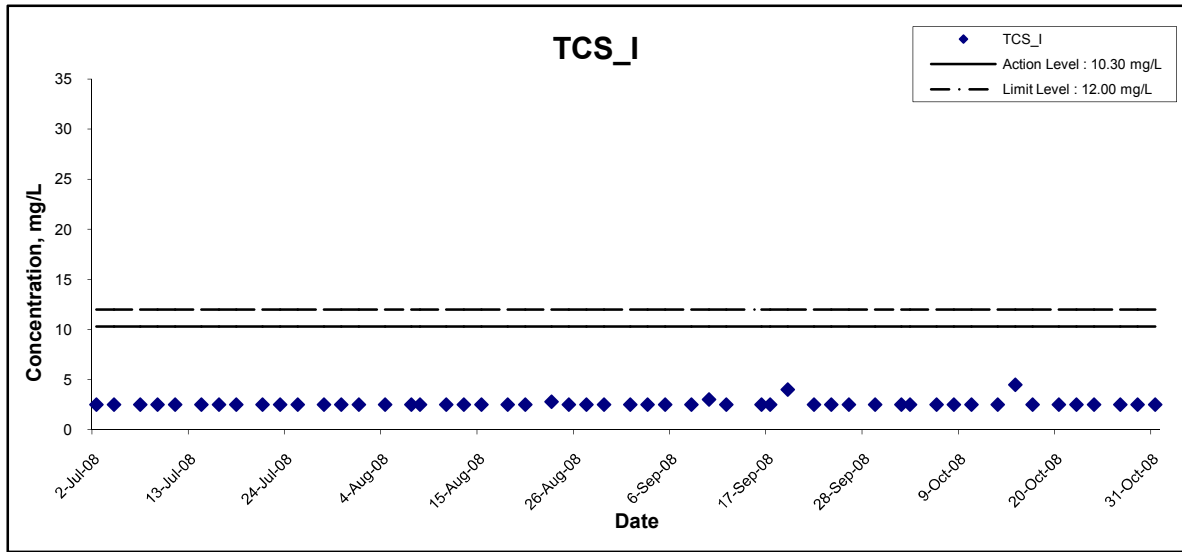
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	
	Date Oct 08	Appendix F	

## Suspended Solids



Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	
	Date Oct 08	Appendix F	

## Suspended Solids



Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha  Graphical Presentation of Water Quality Monitoring Results	Scale	N.T.S	Project No.	MA6030
	Date	Oct 08	Appendix	F

CINOTECH

---

---

**APPENDIX G  
ENVIRONMENTAL MITIGATION  
IMPLEMENTATION SCHEDULE (EMIS)**

---

---

**Appendix G - Summary of Environmental Mitigation Implementation Schedule**

Types of Impacts	Mitigation Measures	Status
<b>Construction Dust</b>	<ul style="list-style-type: none"> <li>• A stockpile of dusty materials should not extend beyond the pedestrian barriers, fencing or traffic cones.</li> </ul>	*
	<ul style="list-style-type: none"> <li>• Vehicle washing facilities should be provided at every exit point.</li> </ul>	^
	<ul style="list-style-type: none"> <li>• The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.</li> </ul>	^
	<ul style="list-style-type: none"> <li>• Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit.</li> </ul>	N/A
	<ul style="list-style-type: none"> <li>• Every main haul road should be sprayed with water or a dust suppression chemical so as to maintain the entire road surface wet.</li> </ul>	*
	<ul style="list-style-type: none"> <li>• The portion of any road leading only to a construction site that is within 30m of a discernible or designated vehicle entrance or exit should be kept clear of dusty materials.</li> </ul>	^
	<ul style="list-style-type: none"> <li>• Any stockpile of dusty materials should be either covered entirely by impervious sheeting, placed in an area sheltered on the top and the 3 sides or sprayed with water or a dust suppression chemical so as to maintain the entire surface wet.</li> </ul>	*
	<ul style="list-style-type: none"> <li>• During cement debagging or concrete batching operation in an area sheltered on top and 3 sides.</li> </ul>	*
	<ul style="list-style-type: none"> <li>• All dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet.</li> </ul>	^
	<ul style="list-style-type: none"> <li>• Every vehicle should be washed to remove any dusty materials from its body and wheels immediately before leaving a construction site.</li> </ul>	^
	<ul style="list-style-type: none"> <li>• The working area of any excavation should be sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation so as to maintain the entire surface wet.</li> </ul>	^
	<ul style="list-style-type: none"> <li>• Proper enclosures and water spraying should be implemented for the main dust-generating activities, such as soil nailing or piling works.</li> </ul>	^
	<ul style="list-style-type: none"> <li>• Proper plant maintenance should be provided to avoid black smoke emission from plants/equipment.</li> </ul>	^

Types of Impacts	Mitigation Measures	Status	
<p align="center"><b>Construction Noise</b></p>	<ul style="list-style-type: none"> <li>• Only well-maintained plant should be operated on –site and plant should be serviced regularly during the construction works.</li> <li>• Machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.</li> <li>• Plant know to emit noise strongly in one direction, should where possible, be orientated to direct noise away from the NSRS.</li> <li>• Mobile plant should be sited as far away from NSRs as possible.</li> <li>• Material stockpiles and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> <li>• Use quite plant and Working Method</li> <li>• Reduce the number of plant operating in critical areas close NSRs.</li> <li>• Construct temporary and movable noise barriers</li> </ul>	<p align="center">^ ^ ^ ^ ^ ^ ^ N/A</p>	
	<p><b>Water Quality</b></p>	<p><i>Construction Runoff and Drainage</i></p>	
		<ul style="list-style-type: none"> <li>• Discharges to natural water courses shall only take place when the effluent can be shown to comply with the standards specified in the Technical Memorandum, Standards for Effluents Discharged in to Drainage and Sewerage Systems, Inland and Coastal Waters. Discharges in the water gathering grounds should meet Group A standard for inland waters.</li> </ul>	<p align="center">*</p>
		<ul style="list-style-type: none"> <li>• Use of sediment traps and the adequate maintenance of drainage systems to prevent flooding and overflow.</li> <li>• Boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilities runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates.</li> </ul>	<p align="center">* ^</p>
		<ul style="list-style-type: none"> <li>• All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment traps should be regularly cleaned and maintained. The temporarily diverted drainage should be reinstated to its original condition when the construction works has finished or the temporary diversion is no longer required</li> </ul>	<p align="center">*</p>
		<ul style="list-style-type: none"> <li>• Sand silt in the wash water from the wheel washing facilities, which ensure no earth, mud and debris is deposited on roads, should be settled out the removed before discharging into storm drains. A section of the road between the wheel washing bay and the public road should be paved with backfill to prevent wash water or other site runoff form entering public road drains.</li> </ul>	<p align="center">^</p>
		<ul style="list-style-type: none"> <li>• Oil interceptors should be provided in the drainage system and regularly emptied to prevent the release of oils and grease into the storm water drainage system after accidental spillage. The interceptor should have a bypass to prevent flushing during periods of heavy rain.</li> </ul>	<p align="center">N/A</p>
		<ul style="list-style-type: none"> <li>• Catchpits and perimeter channels shall be constructed in advance of site formation works and earthworks.</li> <li>• Silt removal facilities, channels and manholes shall be suitably maintained with the deposited silt and grit being removed at least once a week, and at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.</li> </ul>	<p align="center">^ *</p>

Types of Impacts	Mitigation Measures	Status
	<ul style="list-style-type: none"> <li>Earthworks final surfaces shall be well compacted and the subsequent permanent work or surface protection shall be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate intercepting channels shall be provided along the site boundary or at the locations agreed with the ET Leader. Rainwater pumped out from trenches or foundation excavations shall be discharged into silt removal facilities before discharge into storm drains.</li> <li>All generators, fuel and oil storage shall be within bunded areas. Drainage from the areas shall be connected to storm drains via a petrol interceptor.</li> </ul>	<p style="text-align: center;">*</p> <p style="text-align: center;">*</p>
	<p><i>Tunnelling Work</i></p> <ul style="list-style-type: none"> <li>Temporary open storage of excavated materials should be covered with tarpaulin or similar fabric during rainstorms. Any washout of construction or excavated materials from the drill and blast tunnelling work should be diverted to the drainage system via appropriate sediment traps.</li> <li>Ground water pumped out of tunnels should be discharged into the drainage channels which incorporated sediment traps to enhance deposition rates and to remove silt.</li> <li>Spend grouts used in diaphragm wall construction should be collected in a separate slurry collection system, reconditioned and reused wherever practicable. The disposal of used grouting materials will only be permitted if it is treated to the TM standards before discharge to the storm drains or disposal to landfill.</li> </ul>	<p style="text-align: center;">N/A</p> <p style="text-align: center;">N/A</p> <p style="text-align: center;">N/A</p>
	<p><i>General Construction Activities</i></p>	
	<ul style="list-style-type: none"> <li>Debris and rubbish on site should be collected, handled and disposed of properly to avoid entering the water column and cause water quality impacts.</li> <li>All fuel tanks and storage areas will be provided with locks and be located on sealed areas (within bunds of a capacity equal to 110% of the storage capacity of the largest tank or 20% by volume of the fuel stored in that areas, whichever in the greatest).</li> </ul>	<p style="text-align: center;">*</p> <p style="text-align: center;">^</p>
	<p><i>Sewage Effluent</i></p> <ul style="list-style-type: none"> <li>Construction work force sewage discharges from fixed toilet facilities on-site should be connected to the nearby existing trunk sewer wherever feasible. However, for areas where existing trunk sewer is not available, it is recommended that appropriate and adequate on site portable chemical toilets should be provided by a licensed contractor who will be responsible for appropriate disposal and maintenance of these facilities.</li> <li>It is considered that sewage discharges could also be treated by on-site septic tanks and soakaway. Minimum clearance away from streams and catchments and other requirements for the proposed septic tank and soakaway should be referred to EPD's Practice Note for Professional Persons, Drainage Plans.</li> </ul>	<p style="text-align: center;">^</p> <p style="text-align: center;">N/A</p>



Types of Impacts	Mitigation Measures	Status
<b>Waste / Chemical</b>	<i>General</i>	
	<ul style="list-style-type: none"> <li>• Training and instruction shall be given at a site to construction staff to increase awareness and draw attention to waste management issues and the need to minimise waste generation. The training requirement shall be included in the site waste management plan.</li> </ul>	^
	<i>Storage, Collection and Transportation of Waste</i>	
	<ul style="list-style-type: none"> <li>• Wastes shall be handled and stored in a manner to ensure that they are held securely without loss or leakage.</li> </ul>	^
	<ul style="list-style-type: none"> <li>• Authorised or licensed waste hauliers shall be used and they shall only collect wastes prescribed by their permits.</li> </ul>	^
	<ul style="list-style-type: none"> <li>• Waste shall be removed on a daily basis.</li> </ul>	^
	<ul style="list-style-type: none"> <li>• Waste storage area shall be maintained and cleaned on a daily basis.</li> </ul>	^
	<ul style="list-style-type: none"> <li>• Windblown litter and dust during transportation shall be minimised by either covering trucks or transporting wastes in enclosed containers.</li> </ul>	^
	<ul style="list-style-type: none"> <li>• Obtain necessary waste disposal permits from the appropriate authorities if they are required.</li> </ul>	^
	<ul style="list-style-type: none"> <li>• Wastes shall be disposed of at licensed waste disposal facilities.</li> </ul>	^
<ul style="list-style-type: none"> <li>• Develop procedure such as ticketing system to facilitate tracking of loads, particularly for chemical waste, and to ensure that illegal disposal of wastes does not occur.</li> </ul>	^	
<ul style="list-style-type: none"> <li>• Maintain records of the quantities of wastes generated, recycled and disposed.</li> </ul>	^	
<i>Surplus Excavated Materials</i>		
<ul style="list-style-type: none"> <li>• Due to the high risk of loose material being washed into the existing nullah, stockpile materials should be properly compacted and covered from water erosion and located at least 10m away from the nullah wall.</li> </ul>	*	
<i>Construction and Demolition (C&amp;D) Waste</i>		
<ul style="list-style-type: none"> <li>• Careful design, planning and good site management shall be adopted to minimise over-ordering and generation of waste materials such as concrete grouts.</li> </ul>	^	
<ul style="list-style-type: none"> <li>• The handling and disposal of bentonite slurries shall be undertaken in accordance with Practice Note for Professional Persons – Construction Site Drainage (ProPECC PN 1/94) on construction site drainage.</li> </ul>	N/A	
<ul style="list-style-type: none"> <li>• Construction and demolition (C&amp;D) material shall be segregated to inert and non-inert parts. The inert portion shall re-used at areas of reclamation or land formation, or to public filling area shall such allocation is deemed necessary. The non-inert portion shall be disposed of to landfill.</li> </ul>	*	
<i>Chemical Waste</i>		
<ul style="list-style-type: none"> <li>• Chemical waste that is produce during construction shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes.</li> </ul>	^	

Types of Impacts	Mitigation Measures	Status
	<ul style="list-style-type: none"> <li>• Containers used for the storage of chemical wastes should:               <ol style="list-style-type: none"> <li>a. Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;</li> <li>b. Have a capacity of less than 450 litres unless the specifications have been approved by the EPD;</li> <li>c. Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Chemical Waste Regulations.</li> </ol> </li> <li>• The storage area for chemical wastes should:               <ol style="list-style-type: none"> <li>a. Be clearly labelled and used solely for the storage of chemical waste;</li> <li>b. Be enclosed on at least 3 sides;</li> <li>c. Have an impermeable floor and bunding of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is largest;</li> <li>d. Have adequate ventilation;</li> <li>e. Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste if necessary);</li> <li>f. Be arranged so that incompatible materials are adequately separated.</li> </ol> </li> <li>• Disposal of chemical waste shall be via a licensed waste collector; and to a facility licensed to receive chemical waste; or a re-user of the waste (under approval from EPD).</li> </ul>	<p style="text-align: center;">^</p> <p style="text-align: center;">*</p> <p style="text-align: center;">^</p>
	<i>General Refuse</i>	
	<ul style="list-style-type: none"> <li>• General refuse generated on-site shall be stored in enclosed bins or compaction unit separate from C&amp;D and chemical wastes. A reputable waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&amp;D and chemical wastes, on a daily for every second day basis to minimise odour, pest and litter impacts. The burning of refuse on construction sites is prohibited by law.</li> <li>• Reusable rather than disposable dishware shall be used if feasible.</li> </ul>	<p style="text-align: center;">^</p> <p style="text-align: center;">^</p>
	<i>Oil and Fuel</i>	
	<ul style="list-style-type: none"> <li>• The storage area for chemical wastes should have an impermeable floor and bunding of capacity to accommodate 110% of the volume of the largest container;</li> <li>• No storage of oil or fuel should be stored within the Country Park or the water gathering ground.</li> </ul>	<p style="text-align: center;">*</p> <p style="text-align: center;">*</p>
<b>Landscape and Visual Impact</b>	<ul style="list-style-type: none"> <li>• Refinement of the route alignment and design of associated structures to minimise loss of woodland and other landscape resources;</li> <li>• Minimising working areas as far as possible;</li> <li>• Protection and retention of existing vegetation where possible;.</li> <li>• Transplanting of trees where appropriate</li> <li>• Protection and retention of existing natural rocky outcrops, slope profiles, vegetation, landscape features;</li> <li>• Advance planting and visual screening, where possible;</li> </ul>	<p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p>

Types of Impacts	Mitigation Measures	Status
	<ul style="list-style-type: none"> <li>• Compensatory planting;</li> <li>• Sensitively designed site hoarding, where possible (ie the sensitive design of site hoarding will be disrupted by hoarding panels showing the Highways Department logo, at regular intervals as per the approved engineering design);and</li> <li>• Grassing and woodland planting of soil slopes and disturbed areas</li> </ul>	<p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p>
<b>Ecology</b>	<ul style="list-style-type: none"> <li>• Construction activities in the stream and other disturbances to it should be avoided.</li> </ul>	<p style="text-align: center;">^</p>

Remarks:

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>^ Compliance of mitigation measure;</li> <li>N/A Not Applicable;</li> <li>* Recommendation was made during site audit but improved/rectified by the contractor.</li> </ul> | <ul style="list-style-type: none"> <li>X Non-compliance of mitigation measure;</li> <li>• Non-compliance but rectified by the contractor;</li> <li># Non-compliance but rectified/improved by the contractor and awaiting IEC's further comment;</li> </ul> |
|---|---|
-

---

---

**APPENDIX H**  
**SITE AUDIT SUMMARY**

---

---

## Appendix H Summary of Observation and Recommendation Made during Site Inspection

### *Summary of Observation and Recommendation Made during Site Inspection in August 2008*

<b>Parameters</b>	<b>Date</b>	<b>Observations and Recommendations</b>	<b>Follow-up</b>
<i>Water Quality</i>	07/08/08	Sediment was observed accumulate at the sedimentation tanks at <b>Shan Shek Wan</b> . The Contractor was reminded to clear the silt and sediment to maintain the tank can function properly.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	07/08/08	The Contractor was reminded of the followings: - Clear the silt at drainage channel at the entrance of <b>STR7</b> .	Rectification/improvement was observed during the follow-up audit session.
	07/08/08	The Contractor was reminded of the followings: - Clear the sediment at the U-Channel at underneath <b>STR7</b> .	Rectification/improvement was observed during the follow-up audit session.
	07/08/08	The Contractor was reminded of the followings: - Clear the standing water at <b>STR8</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	07/08/08	The Contractor was reminded of the followings: - Clear discarded plant and sediment at the U-Channel and catchpit at <b>STR8</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	07/08/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath <b>STR10-13</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	07/08/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at <b>STR14</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	07/08/08	The Contractor was reminded of the followings: - Clear sediment and debris near catchment.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	07/08/08	The Contractor was reminded of the followings: - Properly cover the catchment channel near the construction works.	Rectification/improvement was observed during the follow-up audit session.
	07/08/08	The Contractor was reminded of the followings:	This item was not rectified during the follow-up audit

Parameters	Date	Observations and Recommendations	Follow-up
		- Clear sediment and debris at the paved road along <b>existing TCR</b> .	session. Follow-up action was needed for the outstanding item.
	07/08/08	The Contractor was reminded of the followings: - Keep clear the sediment at the culvert at <b>RW6</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	12/08/08	Sediment was observed accumulate at the sedimentation tanks at <b>Shan Shek Wan</b> . The Contractor was reminded to clear the silt and sediment to maintain the tank can function properly.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	12/08/08	Surface runoff was observed running to the stream directly at existing TCR. The Contractor was reminded to divert it to the U-Channel for discharging.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	12/08/08	The Contractor was reminded of the followings: - Clear the silt at drainage channel at the entrance of <b>STR7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	12/08/08	The Contractor was reminded of the followings: - Clear discarded tree debris and sediment at the U-Channel and catchpit at <b>STR8</b> .	Rectification/improvement was observed during the follow-up audit session.
	12/08/08	The Contractor was reminded of the followings: - Clear the sediment in the culvert at between <b>STR8-STR9</b> .	Rectification/improvement was observed during the follow-up audit session.
	12/08/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath <b>STR10-11</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	12/08/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at <b>STR14</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	12/08/08	The Contractor was reminded of the followings: - Clear sediment and debris at the paved road along <b>existing TCR</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	12/08/08	The Contractor was reminded of the followings: - Keep clear the sediment at the culvert at	This item was not rectified during the follow-up audit session. Follow-up action was

Parameters	Date	Observations and Recommendations	Follow-up
		<b>RW6.</b>	needed for the outstanding item.
	12/08/08	The Contractor was reminded of the followings: - Clear sediment and debris near catchment. (in-progress)	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	12/08/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed soil surface with stones at underneath <b>STR12.</b>	Rectification/improvement was observed during the follow-up audit session.
	21/08/08	Sediment was observed accumulate at the sedimentation tanks at Shan Shek Wan. The Contractor was reminded to clear the silt and sediment to maintain the tank can function properly.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	21/08/08	Surface runoff was observed running to the stream directly at existing TCR. The Contractor was reminded to divert it to the U-Channel for discharging.	Rectification/improvement was observed during the follow-up audit session.
	21/08/08	The Contractor was reminded of the followings: - Clear the silt at drainage channel at the entrance of <b>STR7.</b>	Rectification/improvement was observed during the follow-up audit session.
	21/08/08	The Contractor was reminded of the followings: - Clear the debris and sediments at <b>existing TCR (near STR7).</b>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	21/08/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath <b>STR10.</b>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	21/08/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath <b>STR11.</b>	Rectification/improvement was observed during the follow-up audit session.
	21/08/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at <b>STR12.</b>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	21/08/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at <b>STR14.</b>	Rectification/improvement was observed during the follow-up audit session.
	21/08/08	The Contractor was reminded of the followings: - Clear sediment and debris near catchment.	This item was not rectified during the follow-up audit session. Follow-up action was

Parameters	Date	Observations and Recommendations	Follow-up
		(in-progress)	needed for the outstanding item.
	21/08/08	The Contractor was reminded of the followings: - Clear sediment and debris at the paved road along <b>existing TCR</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	21/08/08	The Contractor was reminded of the followings: - Keep clear the sediment at the culvert at <b>RW6</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	21/08/08	The Contractor was reminded of the followings: - Re-arrange the stream diversion at <b>Stream 19</b> . (in-progress)	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	21/08/08	The Contractor was reminded of the followings: - Keep clear the sediment at the culvert at <b>RW6</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	Sediment was observed accumulate at the sedimentation tanks at <b>Shan Shek Wan</b> . The Contractor was reminded to clear the silt and sediment to maintain the tank can function properly. (in-progress)	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	The Contractor was reminded of the followings: - Clear the sediment on the paved road near the entrance of <b>STR7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	The Contractor was reminded of the followings: - Clear the debris and sediments at <b>existing TCR (near STR7)</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	The Contractor was reminded of the followings: - Clear the standing water in the drip tray at <b>STR8</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath <b>STR10</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	The Contractor was reminded of the	This item was not rectified



Parameters	Date	Observations and Recommendations	Follow-up
		<p>followings:</p> <ul style="list-style-type: none"> <li>- Hydroseed/cover the exposed slope with tarpaulin at <b>STR12</b>.</li> </ul>	during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Hydroseed/cover the exposed surface at <b>STR14</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Clear sediment and debris near catchment. (in-progress)</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Remove the discarded sedimentation tank that retains the standing water at <b>STR18</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Clear sediment and debris at the paved road along <b>existing TCR</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Keep clear the sediment at the culvert at <b>RW6</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
<b>Air Quality</b>	07/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Properly cover the stockpile at <b>STR7-8</b> when it is not in works.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	07/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Clear the stockpile of cement at <b>STR9A</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	07/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Hydroseed/cover the exposed slope with tarpaulin at underneath <b>STR10-13</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	07/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Hydroseed/cover the exposed surface at <b>STR14</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.

Parameters	Date	Observations and Recommendations	Follow-up
	07/08/08	The Contractor was reminded of the followings: - Hydroseed the exposed surface at <b>STR6</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	12/08/08	The Contractor was reminded of the followings: - Properly cover the stockpile at <b>STR7-8</b> when it is not in works.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	12/08/08	The Contractor was reminded of the followings: - Clear the stockpile of cement at <b>STR9A</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	12/08/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath <b>STR10-11</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	12/08/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at <b>STR14</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	12/08/08	The Contractor was reminded of the followings: - Hydroseed the exposed surface at <b>STR6</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	12/08/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed soil surface with stones at underneath <b>STR12</b> .	Rectification/improvement was observed during the follow-up audit session.
	21/08/08	The Contractor was reminded of the followings: - Properly cover the stockpile near <b>Stream 25</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	21/08/08	The Contractor was reminded of the followings: - Properly cover the stockpile at <b>STR7-8</b> when it is not in works.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	21/08/08	The Contractor was reminded of the followings: - Clear the stockpile of cement at <b>STR9A</b> .	Rectification/improvement was observed during the follow-up audit session.
	21/08/08	The Contractor was reminded of the	This item was not rectified

Parameters	Date	Observations and Recommendations	Follow-up
		<p>followings:</p> <ul style="list-style-type: none"> <li>- Hydroseed/cover the exposed slope with tarpaulin at underneath <b>STR10</b>.</li> </ul>	during the follow-up audit session. Follow-up action was needed for the outstanding item.
	21/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Properly cover the stockpile at <b>STR11</b> after the works.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	21/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Hydroseed/cover the exposed slope with tarpaulin at underneath <b>STR11</b>.</li> </ul>	Rectification/improvement was observed during the follow-up audit session.
	21/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Properly cover the stockpile at <b>STR12</b> after the works.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	21/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Hydroseed/cover the exposed slope with tarpaulin at <b>STR12</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	21/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Hydroseed/cover the exposed surface at <b>STR14</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	21/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Hydroseed the exposed surface at <b>STR6</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Properly cover the stockpile near <b>Stream 25</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Properly cover the stockpile at <b>STR7-8</b> when it is not in works.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Hydroseed/cover the exposed slope with tarpaulin at underneath <b>STR10</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	The Contractor was reminded of the	This item was not rectified

<b>Parameters</b>	<b>Date</b>	<b>Observations and Recommendations</b>	<b>Follow-up</b>
		<p>followings:</p> <ul style="list-style-type: none"> <li>- Properly cover the stockpile at <b>STR11</b> after the works.</li> </ul>	during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Properly cover the stockpile at <b>STR12</b> after the works.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Hydroseed/cover the exposed slope with tarpaulin at <b>STR12</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Properly cover the stockpile at <b>STR13</b> after the works.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Hydroseed/cover the exposed surface at <b>STR14</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Hydroseed the exposed surface at <b>STR6</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
<b>Waste/Chemical Management</b>	07/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Clear discarded cement bags (abandon) at <b>STR7</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	07/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Clear C&amp;D waste near <b>Stream 19(downstream), Stream 28, Stream 29 and Stream 34</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	07/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Clear discarded plants at underneath <b>STR13</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	07/08/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Clear discarded cement bags (abandon) at <b>RW28</b>.</li> </ul>	Rectification/improvement was observed during the follow-up audit session.

Parameters	Date	Observations and Recommendations	Follow-up
	12/08/08	The Contractor was reminded of the followings: - Clear discarded cement bags (abandon) at <b>STR7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	12/08/08	The Contractor was reminded of the followings: - Clear C&D waste at underneath <b>STR12</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	12/08/08	The Contractor was reminded of the followings: - Clear C&D waste near <b>Stream 19(downstream), Stream 28, Stream 29 and Stream 34</b> .	Rectification/improvement was observed during the follow-up audit session.
	12/08/08	The Contractor was reminded of the followings: - Clear discarded tree debris at underneath <b>STR13</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	21/08/08	The Contractor was reminded of the followings: - Clear discarded cement bags (abandon) at <b>STR7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	21/08/08	The Contractor was reminded of the followings: - Clear C&D waste at underneath <b>STR7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	21/08/08	The Contractor was reminded of the followings: - Clear C&D waste at underneath <b>STR12</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	21/08/08	The Contractor was reminded of the followings: - Clear C&D waste near <b>Stream 19(downstream)</b> .	Rectification/improvement was observed during the follow-up audit session.
	21/08/08	The Contractor was reminded of the followings: - Clear discarded tree debris at underneath <b>STR13</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	The Contractor was reminded of the followings: - Provide drip tray for the chemical container at the entrance of <b>STR7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.

<b>Parameters</b>	<b>Date</b>	<b>Observations and Recommendations</b>	<b>Follow-up</b>
	28/08/08	The Contractor was reminded of the followings: - Clear C&D waste at underneath <b>STR7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	The Contractor was reminded of the followings: - Clear C&D waste at <b>Stream 28, Stream 29, Stream 31 and Stream 19 (downstream)</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	The Contractor was reminded of the followings: - Remove the suspected oil at between <b>STR11 and STR12</b> .	Rectification/improvement was observed during the follow-up audit session.
	28/08/08	The Contractor was reminded of the followings: - Clear C&D waste at underneath <b>STR12</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	28/08/08	The Contractor was reminded of the followings: - Clear discarded tree debris at underneath <b>STR13</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
<b>General</b>	28/08/08	Clear the discarded tree debris, sediment, stones and debris in the drainage system (culvert and gullies) after the typhoon.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.

*Summary of Observation and Recommendation Made during Site Inspection in September 2008*

Parameters	Date	Observations and Recommendations	Follow-up
<i>Water Quality</i>	04/09/08	Sediment was observed accumulate at the sedimentation tanks at <b>Shan Shek Wan</b> . The Contractor was reminded to clear the silt and sediment to maintain the tank can function properly.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	04/09/08	The Contractor was reminded of the followings: - Clear the sediment on the paved road near the entrance of <b>STR7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	04/09/08	The Contractor was reminded of the followings: - Clear the standing water in the drip tray at <b>STR7</b> and <b>STR8</b> .	Rectification/improvement was observed during the follow-up audit session.
	04/09/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at <b>STR7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	04/09/08	The Contractor was reminded of the followings: - Clear the tree debris and sediments at <b>existing TCR</b> (near <b>STR7</b> ).	Rectification/improvement was observed during the follow-up audit session.
	04/09/08	The Contractor was reminded of the followings: - Properly cover the exposed surface at underneath <b>STR8</b> .	Rectification/improvement was observed during the follow-up audit session.
	04/09/08	The Contractor was reminded of the followings: - Provide mitigation measures (sand bag bund/cover with tarpaulin) at between the construction area and paved road to prevent any sediment from carrying out.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	04/09/08	The Contractor was reminded of the followings: - To pave the uneven area at <b>STR9A</b> to prevent standing water.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	04/09/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath <b>STR10</b> .	Rectification/improvement was observed during the follow-up audit session.
	04/09/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath <b>STR12</b> .	Rectification/improvement was observed during the follow-up audit session.
	04/09/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope at underneath <b>STR13</b> .	Rectification/improvement was observed during the follow-up audit session.

Parameters	Date	Observations and Recommendations	Follow-up
	04/09/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at underneath <b>STR16</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	04/09/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at <b>STR14</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	04/09/08	The Contractor was reminded of the followings: - Clear sediment and debris near catchment.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	04/09/08	The Contractor was reminded of the followings: - Remove the discarded sedimentation tank that retains the standing water at <b>STR18</b> .	Rectification/improvement was observed during the follow-up audit session.
	04/09/08	The Contractor was reminded of the followings: - Clear sediment and debris at the paved road along <b>existing TCR</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	04/09/08	The Contractor was reminded of the followings: - Keep clear the sediment at the culvert at <b>RW6</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	04/09/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at opposite to <b>RW7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	10/09/08	Sediment was observed accumulate at the sedimentation tanks at <b>Shan Shek Wan</b> . The Contractor was reminded to clear the silt and sediment to maintain the tank can function properly.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	10/09/08	The Contractor was reminded of the followings: - Clear the sediment on the paved road near the entrance of <b>STR7</b> .	Rectification/improvement was observed during the follow-up audit session.
	10/09/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at <b>STR7 (RW14)</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	10/09/08	The Contractor was reminded of the followings: - To pave the uneven area at <b>STR9A</b> to prevent standing water.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	10/09/08	The Contractor was reminded of the followings: - Provide mitigation measures (sand bag	This item was not rectified during the follow-up audit session. Follow-up action was



Parameters	Date	Observations and Recommendations	Follow-up
		bund/cover with tarpaulin) at between the construction area and paved road to prevent any sediment from carrying out.	needed for the outstanding item.
	10/09/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at <b>STR14</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	10/09/08	The Contractor was reminded of the followings: - Clear sediment and debris near catchment.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	10/09/08	The Contractor was reminded of the followings: - Properly cover the catchment channel at underneath <b>STR16</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	10/09/08	The Contractor was reminded of the followings: - Clear sediment and debris at the paved road along <b>existing TCR</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	10/09/08	The Contractor was reminded of the followings: - Keep clear the sediment at the culvert at <b>RW6</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	10/09/08	The Contractor was reminded of the followings: - Clear the sediment at the culvert near <b>Stream 19</b> (downstream).	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	10/09/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at opposite to <b>RW7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	10/09/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at underneath <b>STR16</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	Sediment was observed accumulate at the sedimentation tanks at <b>Shan Shek Wan</b> . The Contractor was reminded to clear the silt and sediment to maintain the tank can function properly.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	Silty water was observed discharging to Tung Chung Stream at <b>Stream11</b> and <b>Stream 13</b> due to the exposed surface and sediment accumulates at the culvert (partly from the landslip). The Contractor was reminded to arrange the stream diversion, cover the exposed surface and clear the culvert to prevent any silty water	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.

Parameters	Date	Observations and Recommendations	Follow-up
		discharging out.	
	18/09/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at <b>STR7 (RW14)</b> .	Rectification/improvement was observed during the follow-up audit session.
	18/09/08	The Contractor was reminded of the followings: - Properly cover the stockpile and remove away from the culvert at <b>STR7-8</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	The Contractor was reminded of the followings: - Properly cover/ hydroseed the exposed slope at underneath <b>STR 8</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	The Contractor was reminded of the followings: - Clear the oil stains at <b>STR8</b> .	Rectification/improvement was observed during the follow-up audit session.
	18/09/08	The Contractor was reminded of the followings: - Provide mitigation measures (sand bag bund/cover with tarpaulin) at between the construction area and paved road to prevent any sediment from carrying out.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at <b>STR14</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope at underneath <b>STR16</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	The Contractor was reminded of the followings: - Properly cover the catchment channel at underneath <b>STR16</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	The Contractor was reminded of the followings: - Clear sediment and debris near catchment.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	The Contractor was reminded of the followings: - Clear sediment and debris at the paved road along <b>existing TCR</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	The Contractor was reminded of the followings: - Clear the sediment at the culvert near <b>Stream 19</b> (downstream).	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	The Contractor was reminded of the	This item was not rectified

Parameters	Date	Observations and Recommendations	Follow-up
		<p>followings:</p> <ul style="list-style-type: none"> <li>- Properly cover the exposed slope at opposite to <b>RW7</b>.</li> </ul>	during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Hydroseed/ cover the exposed surface at <b>STR6</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	<p>Sediment was observed accumulate at the sedimentation tanks at <b>Shan Shek Wan</b>. The Contractor was reminded to clear the silt and sediment to maintain the tank can function properly. (in-progress)</p>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	<p>Silty water was observed discharging to the public road at underneath STR7. The Contractor was reminded to cover the exposed surface to prevent any silty runoff.</p>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Clear the standing water in the drip tray at the entrance of <b>STR7</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Properly cover/ hydroseed the exposed slope at underneath <b>STR 8</b> and <b>STR9</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Properly cover the exposed slope at <b>STR11, STR12</b> and <b>STR13</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Re- arrange the stream diversion at <b>Stream 30</b>.</li> </ul>	Rectification/improvement was observed during the follow-up audit session.
	25/09/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Properly cover the exposed surface at <b>STR14</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Properly cover the catchment channel at underneath <b>STR16</b> and <b>STR17</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Clear sediment and debris near catchment. (in- progress)</li> </ul>	Rectification/improvement was observed during the follow-up audit session.
	25/09/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Hydroseed/cover the exposed slope at underneath <b>STR16</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.

Parameters	Date	Observations and Recommendations	Follow-up
	25/09/08	The Contractor was reminded of the followings: - Clear sediment and debris at the paved road along <b>existing TCR</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	The Contractor was reminded of the followings: - Clear the sediment at the culvert near <b>Stream 19</b> (downstream).	Rectification/improvement was observed during the follow-up audit session.
	25/09/08	The Contractor was reminded of the followings: - Re- arrange the stream diversion at <b>Stream 6, Stream 7 and Stream 13</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	The Contractor was reminded of the followings: - Keep clear the culvert near <b>Stream 11</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	The Contractor was reminded of the followings: - Clear the sediment at the public road near <b>Stream 7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at opposite to <b>RW7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at <b>STR6</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
<b>Air Quality</b>	04/09/08	The Contractor was reminded of the followings: - Properly cover the stockpile near <b>Stream 25</b> .	Rectification/improvement was observed during the follow-up audit session.
	04/09/08	The Contractor was reminded of the followings: - Properly cover the stockpile at <b>STR7-8</b> when it is not in works.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	04/09/08	The Contractor was reminded of the followings: - Properly cover the stockpile at underneath <b>STR8</b> .	Rectification/improvement was observed during the follow-up audit session.
	04/09/08	The Contractor was reminded of the followings: - Properly cover the stockpile at <b>STR9</b> .	Rectification/improvement was observed during the follow-up audit session.
	04/09/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath <b>STR10</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.

Parameters	Date	Observations and Recommendations	Follow-up
	04/09/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath <b>STR12</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	04/09/08	The Contractor was reminded of the followings: - Properly cover the stockpile at <b>STR11</b> , <b>STR12</b> and <b>STR13</b> after the works.	Rectification/improvement was observed during the follow-up audit session.
	04/09/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope at underneath <b>STR13</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	04/09/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at <b>STR14</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	04/09/08	The Contractor was reminded of the followings: - Hydroseed the exposed surface at <b>STR6</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	10/09/08	De-bagging and cement mixing has observed without enclosure at <b>STR19</b> . The Contractor was reminded to provide it 3 sides enclosure with top shelter during the works.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	10/09/08	The Contractor was reminded of the followings: - Properly cover the stockpile and remove away from the culvert at <b>STR7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	10/09/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at <b>STR14</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	10/09/08	The Contractor was reminded of the followings: - Provide water-spray on dust-generation activities (rock breaking) at <b>STR14</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	10/09/08	The Contractor was reminded of the followings: - Hydroseed the exposed surface at <b>STR6</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	De-bagging and cement mixing has observed without enclosure at <b>STR8</b> . The Contractor was reminded to provide it 3 sides enclosure with top shelter during the works.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	The Contractor was reminded of the followings:	This item was not rectified during the follow-up audit session. Follow-up action was

Parameters	Date	Observations and Recommendations	Follow-up
		- Properly cover the stockpile and remove away from the culvert at <b>STR7-8</b> .	needed for the outstanding item.
	18/09/08	The Contractor was reminded of the followings: - Properly cover/hydroseed the exposed slope at underneath <b>STR 8</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at <b>STR14</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope at underneath <b>STR16</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	The Contractor was reminded of the followings: - Hydroseed /cover the exposed surface at <b>STR6</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	De-bagging and cement mixing were observed without enclosure at <b>STR10</b> . The Contractor was reminded to provide it 3 sides enclosure with top shelter during the works as soon as possible.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	The Contractor was reminded of the followings: - Properly cover the stockpile at between <b>STR7-8</b> .	Rectification/improvement was observed during the follow-up audit session.
	25/09/08	The Contractor was reminded of the followings: - Properly cover/ hydroseed the exposed slope at underneath <b>STR 8</b> and <b>STR9</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope at underneath <b>STR16</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	The Contractor was reminded of the followings: - Properly cover the stockpile at <b>Pak Kung Au</b> near <b>existing TCR</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at <b>STR6</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
<b>Waste / Chemical Management</b>	04/09/08	Oil leakage from the plant equipment and oil stains were observed at <b>STR8</b> . The Contractor was reminded to clear them as soon as possible and provide drip tray for the	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.

Parameters	Date	Observations and Recommendations	Follow-up
		equipment to prevent land contamination.	
	04/09/08	The Contractor was reminded of the followings: - Clear C&D waste at <b>STR7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	04/09/08	The Contractor was reminded of the followings: - Provide drip tray for the oil container at <b>STR7-8</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	04/09/08	The Contractor was reminded of the followings: - Clear C&D waste at <b>Stream 28, Stream 29, Stream 31 and Stream 19</b> (downstream).	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	04/09/08	The Contractor was reminded of the followings: - Clear C&D waste at underneath <b>STR12</b> .	Rectification/improvement was observed during the follow-up audit session.
	04/09/08	The Contractor was reminded of the followings: - Clear discarded tree debris at underneath <b>STR13</b> .	Rectification/improvement was observed during the follow-up audit session.
	10/09/08	The Contractor was reminded of the followings: - Provide drip tray for the oil containers at <b>STR7</b> .	Rectification/improvement was observed during the follow-up audit session.
	10/09/08	The Contractor was reminded of the followings: - Clear C&D waste and general refuse at the U-Channel at <b>STR7</b> .	Rectification/improvement was observed during the follow-up audit session.
	10/09/08	The Contractor was reminded of the followings: - Provide drip tray for the plant equipment at <b>STR8</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	10/09/08	The Contractor was reminded of the followings: - Remove C&D waste near the culvert at <b>STR9A</b> .	Rectification/improvement was observed during the follow-up audit session.
	10/09/08	The Contractor was reminded of the followings: - Clear C&D waste at <b>Stream 28, Stream 29, Stream 31, Stream 34 and Stream 19</b> (downstream).	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	The Contractor was reminded of the followings: - Provide drip tray for the plant equipment at <b>STR7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.

Parameters	Date	Observations and Recommendations	Follow-up
	18/09/08	The Contractor was reminded of the followings: - Clear C&D waste at Stream 28, Stream 29, Stream 31, Stream 34 and Stream 19 (downstream).	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	The Contractor was reminded of the followings: -Provide drip tray for the plant equipment at <b>STR7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	The Contractor was reminded of the followings: -Clear C&D waste at <b>Stream 28, Stream 29, Stream 31, Stream 34, Stream 35</b> and <b>Stream 19</b> (downstream).	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	The Contractor was reminded of the followings: -Clear C&D waste at underneath <b>STR12</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
<b>General</b>	04/09/08	The Contractor was reminded of the followings: - Clear the discarded tree debris, sediment, stones and debris in the drainage system (U-Channel, culvert, gullies and underground channel) more frequently.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	10/09/08	The Contractor was reminded of the followings: - Clear the sediment and debris in the drainage system (U-Channel, culvert, gullies and underground channel) more frequently.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	10/09/08	The Contractor was reminded of the followings: - Erect fencing for the stream near the construction works especially for the <b>Stream 29</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	The Contractor was reminded of the followings: - Clear the sediment and debris in the drainage system (U-Channel, culvert, gullies and underground channel) after the rainstorm.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	The Contractor was reminded of the followings: - Erect fencing for the stream near the construction works especially for the <b>Stream 29</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	18/09/08	The Contractor was reminded of the followings:	This item was not rectified during the follow-up audit



Parameters	Date	Observations and Recommendations	Follow-up
		- Clear the stagnant water at the uneven area and the valley after the rainstorm.	session. Follow-up action was needed for the outstanding item.
	25/09/08	The Contractor was reminded of the followings: - Clear the sediment and debris in the drainage system (U-Channel, culvert, gullies and underground channel) after the rainstorm.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	The Contractor was reminded of the followings: - Erect fencing for the stream near the construction works especially for the <b>Stream 29</b> and <b>Stream 31</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	The Contractor was reminded of the followings: - Clear the stagnant water at the uneven area and pit after the rainstorm.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	25/09/08	The Contractor was reminded of the followings: - Provide mitigation measures (sand bag bund/cover with tarpaulin) at between the construction area and the paved road to prevent any sediment from carrying out.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.

*Summary of Observation and Recommendation Made during Site Inspection in October 2008*

Parameters	Date	Observations and Recommendations	Follow-up
<i>Water Quality</i>	02/10/08	Sediment was observed accumulate at the sedimentation tanks at <b>Shan Shek Wan</b> . The Contractor was reminded to clear the silt and sediment regularly.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Clear standing water in the drip tray at the entrance of <b>STR7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Clear stagnant water at pit at STR7 and the discarded tank at <b>Shek Mun Kap</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Stagnant water was observed at paved road near <b>STR9a</b> and near <b>STR10</b> . The Contractor was reminded to dry them.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Oily waste water was observed at culvert at <b>STR8</b> . The Contractor was reminded to clear them with licensed collector.	Rectification/improvement was observed during the follow-up audit session.
	02/10/08	The Contractor was reminded of the followings: - Oil stains were observed at paved road at <b>STR8</b> . The Contractor was reminded to clear them.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Properly cover/ hydroseed the exposed slope at underneath <b>STR9</b> , underneath <b>STR16</b> and at <b>STR14</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at <b>STR11</b> , <b>STR12</b> , <b>STR13</b> and at opposite to <b>RW7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Properly cover the catchment channel at underneath <b>STR16</b> and <b>STR17</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Clear sediment and debris at the paved	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.

Parameters	Date	Observations and Recommendations	Follow-up
		road along existing <b>TCR</b> .	
	02/10/08	The Contractor was reminded of the followings: - Re-arrange the stream diversion at <b>Stream 6, Stream 7</b> and <b>Stream 13</b> .(in- progress)	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Keep clear the culvert near <b>Stream 11</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Clear the sediment at the public road near <b>Stream 7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at <b>STR6</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Clear sediment and debris in U- Channel at <b>STR17</b> and opposite to <b>RW11</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Clear sediment and debris in gullies near <b>Stream 19</b> (downstream) and near <b>STR9a</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	Sediment was observed accumulate at the sedimentation tanks at <b>Shan Shek Wan</b> . The Contractor was reminded to clear the silt and sediment, especially after rainstorm.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Clear standing water in the drip tray at the entrance of <b>STR7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Provide drip tray for the plant equipment at <b>STR7</b> and <b>STR12</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Clear stagnant water on uneven paved road near <b>STR9a</b> and near <b>STR10</b> .	Rectification/improvement was observed during the follow-up audit session.
	08/10/08	The Contractor was reminded of the followings: - Clear oil stains at paved road at <b>STR8</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings:	This item was not rectified during the follow-up audit session. Follow-up action was

Parameters	Date	Observations and Recommendations	Follow-up
		- Properly cover/ hydroseed the exposed slope at underneath <b>STR9</b> , underneath <b>STR16</b> and at <b>STR14</b> .	needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at <b>STR11, STR12, STR13</b> and at opposite to <b>RW7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Properly cover the catchment channel at underneath <b>STR16</b> and <b>STR17</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Clear sediment and debris at the paved road along existing <b>TCR</b> .	Rectification/improvement was observed during the follow-up audit session.
	08/10/08	The Contractor was reminded of the followings: - Re-arrange the stream diversion at <b>Stream 6, Stream 7</b> and <b>Stream 13</b> .(in- progress)	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Keep clear the culvert near <b>Stream 11</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Clear the sediment at the public road near <b>Stream 7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at <b>STR6</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Clear sediment and debris in gullies near <b>Stream 19</b> (downstream) and near <b>STR9a</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	Sediment was observed accumulate at the sedimentation tanks at <b>Shan Shek Wan</b> . The Contractor was reminded to clear the silt and sediment regularly.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Clear standing water in the drip tray at the entrance of <b>STR7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Provide drip tray for the plant equipments	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.

Parameters	Date	Observations and Recommendations	Follow-up
		at <b>STR8</b> and <b>STR13</b> .	
	16/10/08	The Contractor was reminded of the followings: - Clear sediment underneath <b>STR8</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Properly cover/ hydroseed the exposed slope at underneath <b>STR9</b> , underneath <b>STR16</b> and at <b>STR14</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at <b>STR11</b> , <b>STR12</b> , <b>STR13</b> and at opposite to <b>RW7</b> . (in progress)	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Properly cover the catchment channel at underneath <b>STR16</b> and <b>STR17</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Clear stagnant water in the discarded tank at between <b>STR16</b> and <b>STR17</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Clear the sediment in U channel near <b>STR17</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Re-arrange the stream diversion at <b>Stream 6</b> , <b>Stream 7</b> , <b>Stream 12</b> and <b>Stream 13</b> . (in- progress)	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Keep clear the culvert near <b>Stream 11</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Clear the sediment at the public road near <b>Stream 7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at <b>STR6</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Clear sediment and debris at gullies near <b>STR9a</b> and <b>Stream 19</b> (downstream).	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.

Parameters	Date	Observations and Recommendations	Follow-up
	16/10/08	The Contractor was reminded of the followings: - Clear stagnant water at discarded tank at <b>Shek Mun Kap</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Properly cover the stockpile at Pak Kung Au near existing <b>TCR</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	Sediment was observed accumulate at the sedimentation tanks at <b>Shan Shek Wan</b> . The Contractor was reminded to clear the silt and sediment regularly.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	Stagnant water was observed at construction site at <b>Stream 13</b> . The Contractor was reminded to clear it to prevent mosquito breeding.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Clear standing water in the drip tray at the entrance of <b>STR7</b> .	Rectification/improvement was observed during the follow-up audit session.
	23/10/08	The Contractor was reminded of the followings: - Provide drip tray for the plant equipments at <b>STR7</b> , near <b>STR11</b> and near <b>Stream 12</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Clear sediment underneath <b>STR8</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Clear oil stains underneath the plant equipment at between <b>STR7</b> and <b>STR8</b> . (in progress)	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Properly cover/ hydroseed the exposed slope at underneath <b>STR9</b> , underneath <b>STR16</b> and at <b>STR14</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Properly cover/ hydroseed the exposed slope at <b>STR11</b> , <b>STR12</b> and <b>STR13</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Properly cover the catchment channel at underneath <b>STR16</b> and <b>STR17</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.

Parameters	Date	Observations and Recommendations	Follow-up
	23/10/08	The Contractor was reminded of the followings: - Clear stagnant water in the discarded tank at between <b>STR16</b> and <b>STR17</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Clear the sediment in U channel near <b>STR17</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Re-arrange the stream diversion at <b>Stream 6, Stream 7, Stream 12</b> and <b>Stream 13</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Keep clear the culvert near <b>Stream 11</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Clear the sediment at the public road near <b>Stream 7</b> and at the entrance of haul road underneath <b>STR7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at <b>STR6</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Clear sediment and debris at gullies near <b>STR9a</b> and <b>Stream 19</b> (downstream).	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Clear stagnant water at discarded tank at <b>Shek Mun Kap</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	Sediment was observed accumulate at the sedimentation tanks at <b>Shan Shek Wan</b> . The Contractor was reminded to clear the silt and sediment regularly.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	Stagnant water was observed at construction site at <b>Stream 13</b> . The Contractor was reminded to clear it to prevent mosquito breeding.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	Sediment was observed accumulate in culvert at <b>Stream 11</b> . The Contractor was reminded to seal the drainage channel connected to the culvert to prevent any silty runoff from entering the streams.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	The Contractor was reminded of the	This item was not rectified

Parameters	Date	Observations and Recommendations	Follow-up
		<p>followings:</p> <ul style="list-style-type: none"> <li>- Provide drip tray for the plant equipments at <b>STR12</b> and near <b>Stream 12</b>.</li> </ul>	during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Clear sediment underneath <b>STR8</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Clear oil stains underneath the plant equipment at between <b>STR7</b> and <b>STR8</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Properly cover/ hydroseed the exposed slope at underneath <b>STR9</b>, underneath <b>STR16</b> and at <b>STR14</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Properly cover/ hydroseed the exposed slope at <b>STR11</b>, <b>STR12</b> and <b>STR13</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Properly cover the catchment channel at underneath <b>STR16</b> and <b>STR17</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Clear stagnant water in the discarded tank at between <b>STR16</b> and <b>STR17</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Clear the sediment in U channel near <b>STR17</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Re-arrange the stream diversion at <b>Stream 6</b>, <b>Stream 7</b>, <b>Stream 12</b> and <b>Stream 13</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Keep clear the culvert near <b>Stream 11</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Clear the sediment at the public road near <b>Stream 7</b> and at the entrance of haul road underneath <b>STR7</b>.</li> </ul>	Rectification/improvement was observed during the follow-up audit session.
	30/10/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Hydroseed/cover the exposed surface at</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.



Parameters	Date	Observations and Recommendations	Follow-up
		<b>STR6.</b>	
	30/10/08	The Contractor was reminded of the followings: - Clear sediment and debris at gullies near <b>STR9a</b> and <b>Stream 19</b> (downstream).	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	The Contractor was reminded of the followings: - Clear stagnant water at discarded tank at <b>Shek Mun Kap</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	The Contractor was reminded of the followings: - Properly cover the culvert at between <b>STR14</b> and <b>STR16</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
<b>Air Quality</b>	02/10/08	Sediment was observed on the public road at underneath <b>STR7</b> and haul road from existing <b>TCR</b> to <b>Zone 6</b> . The Contractor was reminded to cover the exposed surface to prevent any silty runoff.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	Soil nailing work was observed at near <b>STR12</b> . The Contractor was reminded to spray water regularly and provide proper enclosure to prevent dust generation.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Properly cover/ hydroseed the exposed slope at underneath <b>STR9</b> , underneath <b>STR16</b> and at <b>STR14</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Properly cover the stockpile at Pak Kung Au near existing <b>TCR</b> and between <b>STR13-14</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at <b>STR6</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	Sediment was observed on the public road at underneath <b>STR7</b> and from haul road at existing <b>TCR</b> to <b>Zone 6</b> . The Contractor was reminded to cover the exposed surface to prevent any silty runoff.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	Oil leakage was observed at plant equipment at <b>STR7</b> . The Contractor was advised to clear the oil leakage. (in progress)	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings:	This item was not rectified during the follow-up audit

Parameters	Date	Observations and Recommendations	Follow-up
		- Provide proper enclosure for soil nailing work at <b>STR12</b> .	session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Properly cover/ hydroseed the exposed slope at underneath <b>STR9</b> , underneath <b>STR16</b> and at <b>STR14</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at <b>STR11</b> , <b>STR12</b> , <b>STR13</b> and at opposite to <b>RW7</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Properly cover the stockpile at <b>Pak Kung Au</b> near existing <b>TCR</b> and between <b>STR13-14</b> . (in progress)	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at <b>STR6</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	Sediment was observed on the public road at underneath <b>STR7</b> and from haul road at existing <b>TCR</b> to <b>Zone 6</b> . The Contractor was reminded to cover the exposed surface to prevent any silty runoff. (in progress)	Rectification/improvement was observed during the follow-up audit session.
	16/10/08	Stagnant water was observed at construction site at <b>Stream 13</b> . The Contractor was reminded to clear it to prevent mosquito breeding.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Properly cover/ hydroseed the exposed slope at underneath <b>STR9</b> , underneath <b>STR16</b> and at <b>STR14</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at <b>STR11</b> , <b>STR12</b> , <b>STR13</b> and at opposite to <b>RW7</b> . (in progress)	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Water spray dust emission activity at <b>STR14</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Properly cover the stockpile near <b>STR8</b>	This item was not rectified during the follow-up audit session. Follow-up action was

Parameters	Date	Observations and Recommendations	Follow-up
		and near <b>STR12</b> .	needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Properly cover/ hydroseed the exposed slope at underneath <b>STR9</b> , underneath <b>STR16</b> and at <b>STR14</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at <b>STR11</b> , <b>STR12</b> and <b>STR13</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Properly cover the stockpile at Pak Kung Au near existing <b>TCR</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	The Contractor was reminded of the followings: - Provide 3-side enclosure for the soil nailing work at near <b>STR12</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	The Contractor was reminded of the followings: - Properly cover the stockpile near <b>STR8</b> and near <b>STR12</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	The Contractor was reminded of the followings: - Properly cover/ hydroseed the exposed slope at underneath <b>STR9</b> , underneath <b>STR16</b> and at <b>STR14</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at <b>STR11</b> , <b>STR12</b> and <b>STR13</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	The Contractor was reminded of the followings: - Properly cover the stockpile at <b>Pak Kung Au</b> near existing <b>TCR</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
<b>Waste / Chemical Management</b>	02/10/08	The Contractor was reminded of the followings: - Provide drip tray for the plant equipment at <b>STR7</b> and <b>STR12</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Oil containers were observed at <b>STR8</b> . The Contractor was reminded to store them in designated chemical waste area.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings:	This item was not rectified during the follow-up audit session. Follow-up action was

Parameters	Date	Observations and Recommendations	Follow-up
		- Clear C&D waste at <b>Stream 29, Stream 34, Stream 35 and Stream 19</b> (downstream).	needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Clear C&D waste at underneath <b>STR12</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Clear C&D waste and sediment in culvert at <b>Stream 11, Stream 12, Stream 19, STR9a, STR10</b> and between <b>STR8-9</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Clear C&D waste at <b>Stream 29, Stream 34, Stream 35 and Stream 19</b> (downstream).	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Clear C&D waste at underneath <b>STR12</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Oil containers should be provided with drip tray at <b>STR10</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Clear C&D waste at <b>Stream 29, Stream 34, Stream 35 and Stream 19</b> (downstream).	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Clear C&D waste at underneath <b>STR12</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Clear C&D waste at <b>Stream 29, Stream 34, Stream 35 and Stream 19</b> (downstream).	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Clear C&D waste at underneath <b>STR12</b> and near <b>Stream 28</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Properly store the chemical waste at <b>STR11</b> and near <b>Stream 12</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	The Contractor was reminded of the followings:	This item was not rectified during the follow-up audit

Parameters	Date	Observations and Recommendations	Follow-up
		- Clear C&D waste at <b>Stream 29, Stream 34, Stream 35</b> and <b>Stream 19</b> (downstream).	session. Follow-up action was needed for the outstanding item.
	30/10/08	The Contractor was reminded of the followings: - Clear C&D waste at underneath <b>STR7, STR12</b> and near <b>Stream 28</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
<i>General</i>	02/10/08	The Contractor was reminded of the followings: - Erect fencing for the streams near the construction works, especially for the <b>Stream 29</b> and <b>Stream 31</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Provide mitigation measures (sand bag bund/cover with tarpaulin) at between the construction area and the paved road to prevent any sediment from carrying out.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/10/08	The Contractor was reminded of the followings: - Regularly water spray on dusty paved road is necessary.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Provide mitigation measures (sand bag bund/cover with tarpaulin) at between the construction area and the paved road, especially near <b>RW7</b> and <b>RW12</b> , to prevent any sediment from carrying out.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Erect fencing for the streams near the construction works, especially for the <b>Stream 29</b> and <b>Stream 31</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Regularly water spray on dusty paved road is necessary. (in progress)	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Clear sediment and debris at drainage system (U channels, gullies and culverts), especially U channels underneath <b>STR8</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/10/08	The Contractor was reminded of the followings: - Clear stagnant water at pits and the discarded tank at <b>Shek Mun Kap</b> . (in	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.

Parameters	Date	Observations and Recommendations	Follow-up
		progress)	
	16/10/08	The Contractor was reminded of the followings: - Clear sediment and debris at drainage system (U channels, gullies and culverts), especially U channels underneath <b>STR8</b> , at between <b>STR14</b> and <b>STR16</b> and culvert at <b>STR8</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Provide mitigation measures (sand bag bund/cover with tarpaulin) at between the construction area and the paved road.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Erect fencing for the streams near the construction works, especially for the <b>Stream 29</b> and <b>Stream 31</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/10/08	The Contractor was reminded of the followings: - Regularly water spray on dusty paved road and road under construction is necessary. (in progress)	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Clear sediments on the paved road regularly.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Regularly water spray on dusty paved road and road under construction is necessary.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Clear sediment and debris at drainage system (U channels, gullies and culverts), especially U channels underneath <b>STR8</b> , culvert at <b>STR8</b> and U channel at between <b>STR14</b> and <b>STR16</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the followings: - Provide mitigation measures (sand bag bund/cover with tarpaulin) at between the construction area and the paved road, especially at construction area near <b>Stream 11</b> .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	23/10/08	The Contractor was reminded of the	This item was not rectified during the follow-up audit

Parameters	Date	Observations and Recommendations	Follow-up
		<p>followings:</p> <ul style="list-style-type: none"> <li>- Erect fencing for the streams near the construction works, especially for the <b>Stream 29</b> and <b>Stream 31</b>.</li> </ul>	session. Follow-up action was needed for the outstanding item.
	30/10/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Clear sediments on the paved road regularly.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Regularly water spray on dusty paved road and road under construction is necessary.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Clear sediment and debris at drainage system (U channels, gullies and culverts), especially U channels underneath <b>STR7</b>, <b>STR8</b>, between <b>STR14</b> and <b>STR16</b> and culvert at <b>STR8</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Provide mitigation measures (sand bag bund/cover with tarpaulin) at between the construction area and the paved road, especially at construction area near <b>Stream 11</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/10/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> <li>- Erect fencing for the streams near the construction works, especially for the <b>Stream 29</b> and <b>Stream 31</b>.</li> </ul>	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.

---

---

**APPENDIX I  
SUMMARY STATUS OF  
ENVIRONMENTAL LICENCES AND  
PERMITS**

---

---



## Appendix I - Summary of Environmental Licensing and Permit Status

Permit No.	Valid Period		Details	Status
	From	To		
<b>Environmental Permit (EP)</b>				
EP-170/2003/C	31/7/07	N/A	<u>Construction of</u> (a) Widening and realignment of an approximate 3.6 kilometre long section of Tung Chung Road between Lung Tseng Tau and Pak Kung Au from a single-lane road for two-way traffic to a single two-lane road with footpath; (b) Construction of an approximate 2.6 kilometre long single two-lane road between Pak Kung Au and Cheung Sha with footpath and elevated highway structures; and (c) Provision of passing bays/bus lay-bys along Tung Chung Road.	Valid
<b>Registration of Chemical Waste Producer</b>				
WPN5214 - 950-C1213-01	---	N/A	Chemical waste types: spent Indication oil, surplus paint, spent diesel, spent thinner, mixing residue containing pesticides, spent mineral oil	Valid
<b>Water Discharge License</b>				
EP890/W7/XP089	---	N/A	Discharge from Sewage Treatment System (Northern Section)	Valid
EP890/W7/XP090	---	N/A	Industrial discharge (Northern Section)	Valid
EP890/W2/XG013	---	N/A	Industrial discharge (Southern Section)	Valid
<b>Construction Noise Permit (CNP)</b>				
GW-RS0419-08	25/06/08	24/12/08	Construction Noise Permit for Tung Chung Road between Lung Tseng Tau and Cheung Sha	Valid
GW-RS0209-08	10/04/08	09/10/08	Construction Noise Permit for Construction Site for Roadworks between Pak Kung Au and Cheung Sha Sheung Tsuen	Expired
GW-RS0698-08	10/10/08	9/04/08	Construction Noise Permit for Construction Site for Roadworks between Pak Kung Au and Cheung Sha Sheung Tsuen	Valid
GW-RW0122-08	20/03/08	19/09/08	Construction Noise Permit for Cheung Tung Road near Sunny Bay Station, Lantau Island, H.K.	Expired
GW-RW0439-08	20/09/08	19/03/09.	Construction Noise Permit for Cheung Tung Road near Sunny Bay Station, Lantau Island, H.K.	Valid

---

---

**APPENDIX J**  
**WASTE GENERATED QUANTITY**

---

---

## Contract No. HY/2003/19 – Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha

**Name of Department: Highways Department**

**Project Commencement Date: June 2004**

**Construction Completion Date: December 2009**

**Approved Project Cost: \$688.5 Million**

### Monthly Summary Waste Flow Table for Year 2008

Year	Actual Quantities of inert C&D Materials (in 10 <sup>3</sup> m <sup>3</sup> )					Actual Quantities of C&D Wastes (in 10 <sup>3</sup> Kg)									
	Total Quantity Generated	Broken Concrete <sup>(1)</sup>	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals		Paper/cardboard packaging		Plastic <sup>(2)</sup>		Chemical Waste	Site clearance waste <sup>(3)</sup>	Others, e.g. general refuse (in 10 <sup>3</sup> m <sup>3</sup> )	
						Disposal	Recycle	Disposal	Recycle	Disposal	Recycle	Disposal	Disposal	Disposal	Timber Waste
(a)	(b)	(c)	(d)	(e)											
Jan	1.230	0	1.128	0	0.102	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	73.61	1.235	0.065
Feb	1.875	0	0.762	0	1.113	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	34.21	1.425	0.075
Mar	1.064	0	0.858	0	0.206	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	56.82	1.520	0.080
Apr	0.994	0	0.765	0	0.229	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	84.54	1.900	0.100
May	1.335	0	1.020	0	0.315	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	78.21	1.752	0.095
Jun	0.755	0	0.467	0	0.288	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	86.76	1.895	0.124
<b>Sub-Total</b>	<b>7.253</b>	<b>0</b>	<b>4.997</b>	<b>0</b>	<b>2.253</b>	<b>N/A*</b>	<b>N/A*</b>	<b>N/A*</b>	<b>N/A*</b>	<b>N/A*</b>	<b>N/A*</b>	<b>0</b>	<b>414.15</b>	<b>9.727</b>	<b>0.539</b>
July	0.953	0	0.685	0	0.268	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	96.88	2.036	0.098
Aug	2.875	0	5.978	0	0.758	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	89.33	2.189	0.127
Sept	1.954	0	1.628	0	0.985	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	85.66	2.078	0.213
Oct	2.543	0	1.829	0	1.075	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	95.67	2.457	0.478
Nov															
Dec															
<b>Total</b>	<b>15.573</b>	<b>0</b>	<b>15.109</b>	<b>0</b>	<b>5.325</b>	<b>N/A*</b>	<b>N/A*</b>	<b>N/A*</b>	<b>N/A*</b>	<b>N/A*</b>	<b>N/A*</b>	<b>0</b>	<b>781.69</b>	<b>18.487</b>	<b>1.448</b>

Note: \* Very small quantity of aluminum can, cardboard package and plastic bottle generated from site office were collected by the local resident.

(1) Broken concrete for recycling into aggregates

(2) Plastics refer to plastic bottles/containers, plastic sheets/foam from package material.

(3) Site clearance waste refers to vegetation and construction debris.

(4) Please note that the total quality generated is not equivalent to the summation of the items in column (b) to (e) as part of the quality of the reused material (column c) had been counted already.

---

---

**APPENDIX K  
SUMMARY OF EXCEEDANCES**

---

---

**Appendix K - Summary of Exceedances Recorded in the Reporting Quarter****a) Exceedance Report for 24-hr TSP**

- No Action/Limit Level exceedance was recorded in the reporting quarter.

**b) Exceedance Report for Construction Noise**

- No Action/Limit Level exceedance was recorded in the reporting quarter.

**c) Exceedance Report for Water Quality**

- Exceedances of Turbidity (NTU) and Suspended Solid (SS) were recorded in the reporting quarter. The exceedances are summarized as below:

Station No.	DO		pH	Turbidity		SS	
	Action	Limit	Limit	Action	Limit	Action	Limit
15_I	0	0	0	0	0	0	0
18_I*	0	0	0	0	0	0	0
19_I*	0	0	0	0	0	0	0
21_I	0	0	0	0	0	0	0
23_I	0	0	0	0	0	0	0
25_I*	0	0	0	0	0	0	0
26_I	0	0	0	0	0	0	0
27_I	0	0	0	0	0	38	2
32_I*	0	0	0	0	0	0	0
35_I*	0	0	0	0	0	0	0
40_I	0	0	0	0	0	1	0
CSS_I	0	0	0	2	0	0	0
TCB_I	0	0	0	0	0	0	0
TCS_I	0	0	0	0	0	1	0

Remarks: \* indicates the stream was not sampled in the reporting quarter.

---

---

**APPENDIX L  
COMPLAINT LOGS**

---

---

**Appendix L - Complaint Log**

<b>Log Ref.</b>	<b>Location</b>	<b>Received Date</b>	<b>Details of Complaint</b>	<b>Investigation/Mitigation Action</b>	<b>Status</b>
S63	Tung Chung Road and Cheung Sha Stream	14 Sep 06	The complaint, which was lodged by Green Lantau Association on 13th September 2006, accused the failure of the site drainage system to check the discharge of silt-laden surface water from the site on that day.	ETL is of the view that the complaint is justifiable but the accusation is not substantiated by scientific data in that the rainstorm event was 1 in 25 years. It is therefore beyond the Contractor's terms of contract to design, operate and maintain the carrier pipe and the sedimentation tank to cater for this rainstorm. The Contractor has a defensible case under this increment weather condition.	Closed
S65-S69	Tung Chung Road Southern Section; Cheung Sha Stream;	19 Sep 06	Five complaints, which were lodged by Green Lantau Association on 15th September 2006, accused the failure of the drainage system for the Project on 13th September 2006. The subject of complaints are listed as below: (i) Failed Filtration System (ii) Contaminated Stream (iii) Polluted Cheung Sha Stream (iv) Polluted Cheung Sha Stream (v) Site Debris on Road	ETL is of the view that the complaints are justifiable but the accusation is not substantiated by scientific data in that the rainstorm event was 1 in 25 years. It is therefore beyond the Contractor's terms of contract to design, operate and maintain the carrier pipe and the sedimentation tank to cater for this rainstorm. The Contractor has a defensible case under this increment weather condition.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
S71	Northern Section, Tung Chung Road	3 Nov 06	<p>The complaint, which was referred by Resident Site Staff (RSS) to ET on 3<sup>rd</sup> November 2006, was raised by a resident living Lantau Island on 17<sup>th</sup> October 2006 concerning the Tung Chung Road condition on 16<sup>th</sup> October 2006.</p>	<p>Based on the meteorological data extracted from HKO, the total rainfall between 0:45 and 6:45 hours in Lantau was 196 mm with an average intensity of 32.67 mm/hr on 16<sup>th</sup> October.</p> <p>Based on the results derived from Table 2 “the Intensity-Duration-Frequency (IDF) for various return periods” and Table 4 “Depth-Duration-Frequency (DDF) for durations of than 4 hours” of the “Stormwater Drainage Manual”, the return period should be less than 1 in 10 years.</p> <p>Therefore, the complaint was considered justifiable since the EIA report has recommended the provision of site drainage system shall be 1 in 10 years. The Contractor has implemented remedial measures and preventive measures.</p>	Closed
S72	Lung Tseng Tau Village, Tung Chung	3 Nov 06	<p>The public complaint, which was referred by RSS to ET on 3<sup>rd</sup> November 2006, was received by the Integrated Complaint Centre (ICC) on 26<sup>th</sup> October 2006 regarding dust nuisance generated from the Project.</p>	<p>Based on the information collected and the monitoring results, the complaint was considered not justifiable due to the following since no exceedance of the air quality monitoring results was recorded in October 2006.</p> <p>During site inspections in the month, dust mitigation measures have been implemented by the Contractor; and no observation was recorded during the site inspections.</p> <p>According to the information provided by the Contractor and the RSS, the Contractor has implemented additional mitigation measures, including increased water spraying on the public road to more than once a day and covered the stockpiling materials.</p>	Closed



<b>Log Ref.</b>	<b>Location</b>	<b>Received Date</b>	<b>Details of Complaint</b>	<b>Investigation/Mitigation Action</b>	<b>Status</b>
S73	Southern Section of the Project	3 Nov 06	The complaint, which was referred by RSS to ET on 3 <sup>rd</sup> November 2006, was raised by a resident living at Cheung Sha on 24 <sup>th</sup> October 2006 concerning noise generated from rock breaking in Southern Section of the Project.	<p>According to the EM&amp;A records, no exceedance of noise level and no non-compliance were recorded in the month.</p> <p>As advised by the Contractor and RSS, silent rock breaking equipment has been used and noise insulation materials have been used to minimize the noise impact generated from the rock breaking activity.</p> <p>Based on the provided information and the monitoring results, the complaints are considered not justifiable. The Contractor has implemented the mitigation measures to minimize the noise generation from construction activities and was still reminded to continuously implement their practice to prevent noise nuisance generation from the construction works.</p>	Closed
S74	Tung Chung Stream	24 Nov 06	Highways Department (HyD) of HKSAR received a complaint for Agriculture, Fisheries and Conservation (AFCD) regarding untreated site runoff discharged to Tung Chung Stream during the site visit on 21 <sup>st</sup> November 2006. The Resident Site Staff (RSS) subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 24 <sup>th</sup> November 2006.	The investigation revealed that, based on the meteorological data extracted from HKO, the highest rainfall recorded was between 13:45 and 15:45, with a total of 93mm in two hours. With the above rainfall intensities extracted from HKO, together with the Intensity-Duration-Frequency (IDF) for various return periods derived from Table 2 of the "Stormwater Drainage Manual", the return period should be less than 10 years. Therefore, the complaint was considered justifiable and the Contractor has implemented remedial measures and preventive measures.	Closed

<b>Log Ref.</b>	<b>Location</b>	<b>Received Date</b>	<b>Details of Complaint</b>	<b>Investigation/Mitigation Action</b>	<b>Status</b>
S75	West of the new Tung Chung Road Southern Section Discharge Point	21 Nov 06	Both Environmental Protection Department (EPD) and China Civil Engineering Construction Corporation and China Railway Wujia Joint Venture (the Contractor) received the same public complaint, regarding muddy water discharged to Chueng Sha on 21 <sup>st</sup> November 2006. The Contractor subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on the same day.	The complainant considered that this stream was muddy and discharging muddy water into the sea. As stated in the above paragraph, the investigation revealed that the return period for the rainfall between 13:45 and 15:45 was 41 years. As the complaint was lodged at 14:58 on 21 <sup>st</sup> November 2006, it is reasonable to consider the rainfall recorded in the hour between 13:45 to 14:45 which was 57mm. According to "Stormwater Drainage Manual", the return period should be less than 10 years. Therefore, the complaint was considered justifiable and the Contractor has implemented remedial measures and preventive measures.	Closed
S76	Pui O Wan	27 Nov 06	China Civil Engineering Construction Corporation and China Railway Wujia Joint Venture (the Contractor) received the same public complaint, regarding muddy water discharged into Pui O Wan on 23 <sup>rd</sup> November 2006.  According to the complainant, muddy water was discharged into Pui O Wan from the new Tung Chung Road Southern Section Discharge Point (near proposed round about on South Lantau Road) in the morning of 23 <sup>rd</sup> November 2006. The complainant suspected that the muddy water was being pumped off site through failed filtration systems into the sea as there had been no recent rainfall on that day.	The investigation revealed that the complaint was considered not justifiable since (1) no muddy water was generated due to the construction activities in the vicinity of the discharged point; and (2) no surface runoff as no rainfall was recorded on 23 <sup>rd</sup> November 2006.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
S77	Sheung Ling Pei, Ha Ling Pei, Wong Ka Wai & Lung Tseng Tau Villages	18 Dec 06	<p>Highways Department (HyD) and the Resident Engineer received a complaint against Water Quality Supply (Muddy Water) at Sheung Ling Pei, Ha Ling Pei, Wong Ka Wai &amp; Lung Tseng Tau Villages via District Office (Islands) on 29<sup>th</sup> November 2006.</p> <p>The complainants claimed that subject villages were suffering from muddy water supplied from the water main on the past few days before 29<sup>th</sup> November 2006.</p>	<p>Upon receipt of the complaint, the Contractor inspected all streams (above AFCD entrance) in the Northern Section. Muddy water was observed at Stream 13 which was believed the source of muddy water. However, no water flow was found at the stream. The muddy water was considered probably due to the seepage of underground water mixed with excavated soil to Stream 13. Furthermore, an ad-hoc meeting between DO/WSD/AFCD/MOTT/CCJV/IEC/ET was held on 14 December 2006 to discuss this issue.</p> <p>The complaint was considered due to the construction activities of the Project. Emergency remedial works had been taken by the Contractor to rectify the situation and preventive measures had also been implemented.</p>	Closed
S80	Tung Chung Road near Lung Tseng Tau Village	3 Jan 07	<p>The complaint was lodged by a resident at Lung Tseng Tau Village regarding dust nuisance at Tung Chung Road near Lung Tseng Tau Village. According to the complainant, the dust was generated by vehicle movements (about 5 to 7 per day). The complainant noticed that there was only once per day for water spraying on the road. She suggested that the frequency of water spraying should be increased to 1 to 2 per hour. In addition, she requested to provide more water-spraying practice for the concerned area.</p>	<p>According to the Contractor and the RSS, the main dust emission in the vicinity of Lung Tseng Tau Village was due to the vehicle movements on Tung Chung Road.</p> <p>Base on the information collected and the monitoring results, the complaint was considered not justifiable since (1) no exceedance of the air quality monitoring results was recorded in December 2006; (2) dust mitigation measures have been implemented by the Contractor; and (3) no observation was recorded during the site inspections.</p> <p>In response to the complaint, the Contractor had stepped up the dust suppression control immediately. A water truck was mobilized to spray water at Tung Chung Road within particular in the vicinity of the complainant's house from once per day to at least 3 times per day.</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
S81	Lung Tseng Tau	20 Dec 06	<p>The Contractor, CCECC and CRWJ Joint Venture (CCJV) and Highways Department (HyD) of HKSAR received a complaint regarding dust control at Lung Tseng Tau from the Office of Islands District Councilor, Wong Fuk-kan on 6<sup>th</sup> December 2006.</p> <p>According to the complainant, he had received a number of complaints from residents in South Lantau regarding the dust nuisance when their vehicles passing through Tung Chung Road near Lung Tseng Tau. The residents said their vehicles were full of dust whenever they had passed through Tung Chung Road.</p>	<p>Base on the site inspection records and information collected from the RSS and the Contractor, the complaint was considered due to due to the vehicle movements on Tung Chung Road. In response to the complaint, the RSS has conducted site inspection in the afternoon on 18<sup>th</sup> December 2006. The Contractor had immediately mobilized labors to clear the mud trail on Tung Chung Road between ch.3700-4000 using sweepers. In order to maintain the condition of Tung Chung Road, the Contractor has mobilized more staff to clear the mud deposits on the whole Northern Section of Tung Chung Road on 23<sup>rd</sup> December 2006.</p> <p>The Contractor has provision wheel washing facilities at each site exit/entrance. In order to maintain Tung Chung Road condition, the Contractor has mobilized a water truck solely for wheel washing purpose at the site entrance near RW37 between ch.3700-4000 since 23<sup>rd</sup> December 2006. The location is the most busy site exit/entrance for soil removal as wheel washing facilities. Wheels of each vehicle shall be washed before leaving the site. The wastewater after wheel washing at each site exit/entrance shall be collected and treated before discharge at designated location. also mobilized water trucks</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
S82	The nullah near the Yat Tung Estate	15 Jan 07	<p>The complaint was lodged by the Legislative Councillor Hon. Albert W.Y. Chan regarding frequent discharge of muddy water from the Tung Chung Road improvement project on 15<sup>th</sup> December 2006. According to Mr. Chan's letter, the complainant was a resident living in Tung Chung.</p> <p>The DSD letter pointed out that muddy water was being frequently discharged to the nullah near the Yat Tung Estate, and confirmed that the site of Tung Chung Road improvement project was the source of such discharge.</p>	<p>After investigation, the discharge of muddy water was largely due to the deposited silts caused by previous heavy rainstorms in November.</p> <p>The contractor has responded promptly in deploying a number of actions to remedy the matter. These include de-silting operation at Wong Lung Hang nullah on 23<sup>rd</sup> December 2006 to remove the accumulated soil and silt materials washed down by the discharges, of which photographs are provided.</p> <p>In addition, several intermediate sedimentation ponds along the temporary drainage system south of Shek Mun Kap to improve de-silting capacity have been installed, and that the site condition will be closely monitored so that advice on any practical measures in improving the quality of water discharge to Wong Lung Hang nullah can be given.</p> <p>In addition, the Contractor is also undergoing continual inspections and monitoring on the conditions of the concerned discharge of the construction site, and is in close liaison with the ET to cap exceeding levels of future discharge.</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
S86	Slope opposite to the AFCD's Office at Tung Chung Road near mileage M2.5	8 Feb 07	The complaint was lodged by a resident in Lantau Island regarding the construction noise generated from the road works at the slope opposite to the AFCD's Office at Tung Chung Road near mileage M2.5.	<p>The site of concern is most likely at the RW6 of the Project. According to the Contractor, soil nailing works was conducted at RW6 and the first stage of soil nailing works at RW6 has been completed before 8<sup>th</sup> February 2007.</p> <p>According to the noise monitoring results at monitoring station NM5, Tung Chung Au Country Parks Management Centre, which is located near the AFCD's Office, there was no exceedance recorded from 2<sup>nd</sup> January to 14<sup>th</sup> February 2007.</p> <p>As advised by the Contractor, the following mitigation measures will be implemented as far as possible to reduce the noise nuisance to the nearby residents when soil nailing works carry out in the future:</p> <ul style="list-style-type: none"> <li>● To cover the soil nailing works area with tarpaulin;</li> <li>● To reduce the number of machines for soil nailing;</li> <li>● To orientate the machines for soil nailing works so that the major noise generating part will not directly face the Noise Sensitive Receiver; and</li> <li>● To scatter the plants so that the noise being generated will not be centralized in certain direction.</li> </ul>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
S90	Northern and Southern Section of Tung Chung Road	20 May 07	<p>The complaint was lodged by the Green Lantau Association at on 20 May 2007 regarding failed drainage for the Project on that day.</p>	<p>According to the Contractor, the main concern in the Northern Section is that a large amount of seepage from the permanent slope near the Stream 18 and Stream 21 was observed. The permanent hinterland u-channel was not able to collect most of the hinterland water which ultimately collected by the carrier pipe and increased the loading of the treatment facilities at Shek Mun Kap.</p> <p>As advised by the Contractor, the main problem in Southern Section was due to the fact that the silt is too fine to be settled within a short time, i.e. 3 minutes, as stated in the EIA Report. Due to the large catchments of the site, muddy water could not be completely settled or treated before discharged or overflowed. No bigger sedimentation tank can be constructed due to the site constraint to retain all surface water in heavy rainy days.</p> <p>The complaint was considered justifiable. However, it is beyond the Contractor's capability to completely avoid muddy water discharging or overflowing to sea due to the site conditions and constraints under increment weather conditions.</p>	<p>The complaint investigation report was commented</p>

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
S91	Zone 4 (STR 14)	1 June 07	<p>The complaint was lodged by a resident in Butterfly Crest, Lantau Island regarding the construction noise generated from the Project on Sunday, which is likely to be 27<sup>th</sup> May 2007.</p>	<p>According to the Contractor, construction works were undertaken near STR 14 in the morning of 27<sup>th</sup> May 2007 and the Powered Mechanical Equipment (PME) used on that day included 2 excavators and 1 dump truck at STR 14. The concerned site was covered under the construction noise permit (CNP) no. GW-RS0281-07.</p> <p>As advised by the Contractor, the 2 excavators and 1 dump truck, which categorized separately as Group A and Group E of the abovementioned CNP, were utilized alternatively during the operation in order to comply with the conditions stipulated in the CNP.</p> <p>Base on the information collected, the complaint was considered not justifiable as the equipment used comply with the CNP conditions.</p>	Closed



Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
S93	Western Section of Pui O Bay	22 May 07	<p>The complaint was lodged by the Green Lantau Association at on 22 May 2007 regarding muddy water was observed at 50m west of the Tung Chung Road southern section around 11am on 22 May 2007.</p>	<p>As advised by the Contractor, the main problem in Southern Section was due to the fact that the silt is too fine to be settled within a short time, i.e. 3 minutes, as stated in the EIA Report. Due to the large catchments of the site, muddy water could not be completely settled or treated before discharged or overflowed. No bigger sedimentation tank can be constructed due to the site constraint to retain all surface water in heavy rainy days.</p> <p>In the site near Pui O Wan, the Contractor has exhausted their efforts including to pump the water from sedimentation tanks back to the stockpile area. Unfortunately, one of the pumps was out of order in the early days of that rainy period. However, the pump has been rectified on 22 May 2007.</p> <p>The complaint was considered justifiable. However, it is beyond the Contractor's capability to completely avoid muddy water discharging or overflowing to sea due to the site conditions and constraints under increment weather conditions.</p>	<p>The complaint investigation report was commented</p>

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
S100	Stream water behind WSD's weir	27 July 07	<p>The complaint was lodged by a resident living at Lung Tseng Tau area during the meeting between RSS and the representatives from the villages at Lung Tseng Tau area on 17<sup>th</sup> July 2007 regarding turbid water supply from DO main to the village houses at Lung Tseng Tau area.</p>	<p>The RSS and the Contractor had a site investigation with the complainant at his household water supply, the WSD weir and a work area immediately upstream of the weir (STR02 near the Stream 12) on the same day.</p> <p>It was observed that the water directly from the household supply was found with low degree of turbidity when comparing it with portable water supply.</p> <p>According to the visual inspection of the RSS and the Contractor, the stream water behind the WSD's weir, which is the source of water supply to the villagers via a DO main, was found clear and there was no sign of contamination.</p> <p>Inspection of the work site at STR02 upstream of the weir indicated no activities affecting the upstream water quality.</p> <p>By reviewing the water quality monitoring data at Tung Chung Stream during early of July 2007, the turbidity and SS values are considered to be low and the data revealed that the Tung Chung Stream and the WSD weir were not contaminated during the above mentioned period.</p> <p>Nevertheless, In order to minimize the water quality impacts, the Contractor has implemented following mitigation measures:</p> <ul style="list-style-type: none"> <li>• To erect sand bag bund in the vicinity of STR02;</li> <li>• To shotcrete the soil surface near Stream 12.</li> </ul>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
S104	Tung Chung Road and Tung Chung Au near AFCD's Office	6 August 07	<p>The complaint was lodged by Mr. Ho on 6<sup>th</sup> August 2007 regarding a suspected case of silty runoff and muddy water generated from construction site flowing on public road. Turbid water was observed behind the weir near the AFCD's office at Tung Chung Au.</p>	<p>No non-compliance or environmental deficiency related to or in the vicinity of the concerned area was identified during these site audits.</p> <p>According to Hong Kong Observatory, Hong Kong was under the effect of the tropical storm over the central part of the South China Sea which brought heavy showers with 100.4 millimeters of total rainfall recorded on 6 August. The amber rainstorm warning was hoisted between 15:55pm to 17:30pm.</p> <p>The Contractor has confirmed there was no construction activity in the concerned area on 6<sup>th</sup> August 2007 due to heavy rainfall. According to the Contractor, muddy water was the silty runoff from nearby work sites due to the heavy rainfall on the day.</p> <p>The Contractor has implemented following mitigation measures:</p> <ul style="list-style-type: none"> <li>• To desilt temporary drainage channels and sedimentation tank.</li> <li>• To clear the silt and mud in the surface of haul road at RW06 ad RW07.</li> <li>• To cover exposed slope with tarpaulin at RW06 and RW07.</li> </ul> <p>According to the RSS and the Contractor, no further report of silt and muddy water runoff from concerned area was received after implementation of the aforesaid mitigation measures.</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
S113	Upper and Lower Cheung Sha Village	12 December 2007	The complaint was lodged by Mr. Liu on 12 December 2007 regarding dust nuisance at Upper and Lower Cheung Sha Village.	<p>According to the Contractor, the main dust emission in the vicinity of Cheung Sha Village was due to the road works and associated vehicle movements on Tung Chung Road.</p> <p>The Contractor has implemented following mitigation measures:</p> <ul style="list-style-type: none"> <li>• Cleared the silts on the haul road;</li> <li>• Applied watering on the road by water hose at San Shek Wan;</li> <li>• Increased the number of water browsers; and</li> <li>• Covered the exposed slope and stockpiles with tarpaulin sheets.</li> </ul> <p>By reviewing the air quality monitoring data, there was no exceedance of air quality monitoring results on 8<sup>th</sup> and 14<sup>th</sup> December 2007 and dust mitigation measures have been implemented by the Contractor.</p> <p>According to the RSS and the Contractor, no further complaint regarding dust nuisance from concerned area was received after implementation of the aforesaid mitigation measures.</p>	Closed

---

---

**APPENDIX M  
SUMMARY OF WARNINGS/DIRECTION  
ISSUED BY THE EPD AND  
PROSECUTION**

---

---

## Appendix M - Summary of Warnings / Direction Issued by the EPD and Prosecution

### Summary of Warnings / Direction Issued by the EPD

Date of Letter	Warnings/Direction
3 February 2005	The Contractor was requested to construct catch pits and perimeter channels in advance of site formation and earth works
17 May 2005	The Contractor was requested to immediately re-provide the on-site wastewater management systems to adequately cater the rainwater runoff and to submit the detail proposal for runoff management and treatment systems.
4 October 2005	The Contractor was requested to rectify the situation in order to comply with EP Conditions 2.4 & 2.5 regarding the provision of drainage systems, EP Condition 3.16 regarding site runoff mitigation measures and EP Condition 3.6 regarding no works of the Project shall be carried out outside the “limit of works area”.
15 December 2005	The Contractor was requested to rectify the situation of Zone D where fuel oil was found spilled onto ground of the works area in contravention to Section 7.5.2.1 of the Waste Management Plan (WMP). The Section stipulates provisions against spillage of fuels to prevent contamination of the construction site.
24 March 2006	The Contractor was requested to rectify the situation in order to comply with EP Condition 3.9 regarding the stipulated span of temporary bridges used during construction to cross the stream.
13 April 2006	The Contractor was requested to rectify the situation of Zone E where fuel oil was stored within the Country Park in contravention to condition 3.14 of the EP.
29 June 2006	The Contractor was requested to rectify the situation that site runoff will not be discharged into Tung Chung Stream in order to comply with EP Condition 2.4.
26 September 2006	The Contractor was requested to rectify the situation that excessive dust emission occurred. Watering programme shall maintain to ensure that all exposed road surfaces and dust sources are wet in order to comply with EP Condition 1.7.
4 October 2006	<ul style="list-style-type: none"> <li>-The Contractor was requested to rectify the situation that site runoff will not be discharged into Tung Chung Stream in order to comply with EP Condition 2.4.</li> <li>-The Contractor was requested to rectify the situation in order to comply with EP Condition 3.9 regarding the stipulated span of temporary bridges used during construction to cross the stream 28</li> <li>-.The Contractor was requested to rectify the situation in order to comply with EP Condition 3.9 regarding the stipulated span of temporary bridges used during construction to cross the stream 32.</li> <li>- The Contractor was requested to rectify the situation in order to comply with EP Condition 3.9 regarding the stipulated span of temporary bridges used during construction to cross the stream 33.</li> </ul>
13 February 2007	The Contractor was requested to rectify the situation that site runoff will not be discharged into Tung Chung Stream in order to comply with EP Condition 2.4.
19 February 2008	The Contractor was requested to take all necessary actions to rectify the situation that surface run-off from the construction site discharged into storm drain without treatment in order to comply with EP Condition 3.16.
14 April 2008	The Contractor was required to take all necessary actions to rectify the situation

Date of Letter	Warnings/Direction
	that a section of the site near Pak Kung Au was not provided with vehicle washing facilities including high pressure water jet at vehicular exit points so as not to contravene the statutory requirement.

#### Summary of Notification of Summons

Date of Summons	Details of the Summons	Status
25 January 2007	Construction works at a slope next to Stream no. 28 along Tung Chung Road, Cheung Sha, Lantau Island which contrary to EP Condition 3.9 concerning works at Stream 28 on 26 July 2006	Withdrawn by EPD
16 February 2007	Construction works near Stream no. 8 along Tung Chung Road, Cheung Sha, Lantau Island which contrary to EP Condition 2.4 by discharging runoff during construction into Tung Chung Stream on 16 August 2006	The Contractor was fined \$7500 on 4 June 2007.
17 May 2007	Construction works near Stream no. 8 along Tung Chung Road, Cheung Sha, Lantau Island which contrary to EP Condition 2.4 by discharging runoff during construction into Tung Chung Stream on 21 November 2006	The Contractor was fined \$7500 on 4 June 2007.

#### Summary of Notification of Successful Prosecution

Date of Successful Prosecution	Details of the Successful Prosecution	Status
4 June 2007	Construction works near Stream no. 8 along Tung Chung Road, Cheung Sha, Lantau Island which contrary to EP Condition 2.4 by discharging runoff during construction into Tung Chung Stream on 16 August 2006	The Contractor was fined \$7500 on 4 June 2007
4 June 2007	Construction works near Stream no. 8 along Tung Chung Road, Cheung Sha, Lantau Island which contrary to EP Condition 2.4 by discharging runoff during construction into Tung Chung Stream on 21 November 2006	The Contractor was fined \$7500 on 4 June 2007