

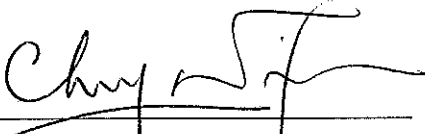
CCECC & CRWJ Joint Venture

Contract No. HY/2003/19

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

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

May 2008 to July 2008

Certified By	 (Environmental Team Leader)
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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.

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EXECUTIVE SUMMARY

Introduction

1. This is the 15th 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 May and July 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 S&D structure;
 - Construction of debris trap;
 - Construction of bridge;
 - Road works;
 - 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>May 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>June 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>July 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 25 June 2008 has been changed to 26 June 2008 due to the hoisting of Tropical Cyclone Warning Signals No. 8. No Action/Limit Level exceedance was recorded in the reporting quarter.

Water Quality

7. Water quality monitoring was conducted as schedule except Water Quality Monitoring on 25 June 2008 has been changed to 26 June 2008 due to the hoisting of Tropical Cyclone Warning Signals No. 8, 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. In addition, water quality monitoring on 10 June 2008 was conducted only at Stream 15, 18, Cheung Sha Stream, Tung Chung Stream and Tung Chung Bay due to the landslide caused by heavy rainstorm (Black Rainstorm Warnings on 7 June 2008). As the water depth of Tung Chung Bay was less than 3m, only the mid-depth level was monitored.

8. Exceedances of dissolved oxygen (DO), 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-RS0701-07, GW-RS0702-07, GW-RS0811-07, GW-RW0122-08 and GW-RS0209-08).

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. Two 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:
- Runoff from exposed slope;
 - Wastewater and runoff discharge from site;
 - 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;
- Noise from operation of the equipment, especially for rock-breaking activities and machinery on-site;
- Dust generation from stockpiles of dusty materials, exposed retain wall, excavation works and rock breaking activities;
- Storage of chemicals/fuel and chemical waste/waste oil 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 15th quarterly EM&A report summarizing the EM&A works for the Project in the period between May and July 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. Peter Morgan	Chief Engineer	9093 4072	2714 5222
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. Edward Ho	Project Manager	2988 1255	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 25 June 2008 has been changed to 26 June 2008 due to the hoisting of Tropical Cyclone Warning Signals No. 8.
- 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 Water Quality Monitoring on 25 June 2008 has been changed to 26 June 2008 due to the hoisting of Tropical Cyclone Warning Signals No. 8, 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. In addition, water quality monitoring on 10 June 2008 was conducted only at Stream 15, 18, Cheung Sha Stream, Tung Chung Stream and Tung Chung Bay due to the landslip caused by heavy rainstorm (Black Rainstorm Warnings on 7 June 2008). As the water depth of Tung Chung Bay was less than 3m, only the mid-depth level was monitored.
- 4.9 Exceedances of dissolved oxygen (DO), 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	1	0	0	0	0	0	0
19 I*	0	0	0	0	0	0	0
21 I	1	0	0	0	0	1	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	1
27 I	0	0	0	0	0	37	1
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	0	0
CSS I	0	0	0	2	2	0	0
TCB I	0	0	0	0	0	0	1
TCS I	0	0	0	0	1	0	3

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.
 - ✧ Landslip due to heavy rainstorm (Black Rainstorm Warning on 7 June 2008).
- 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, one non-compliance was issued by the IEC during the site inspection on 30th May 2008. And the details are listed as follow:
- 5.3 NC8053001 – Dust emission was observed during cement debagging and mixing at STR17, no dust suppression measure was implemented
- 5.4 The observations and recommendations made during the reporting period are summarized in Appendix H.
- 5.5 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 spillage was observed from plant equipment on the haul road. 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 cover it.

- Black smoke emitted from excavator was observed. The Contractor was recommended to provide plant equipment maintenance regularly.
- 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 haul road was observed. The Contractor was reminded to provide water spray more frequently.

Waste/ Chemical Management

- Accumulation of C&D waste and false works were 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.

Ecology

- Silty water leakage to the stream was observed. The Contractor was recommended to silt and erect sand bag properly to ensure no leakage.

Effectiveness of Mitigation Measures

- 5.6 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

- 5.7 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-RS0701-07, GW-RS0702-07, GW-RS0811-07, GW-RW0122-08 and GW-RS0209-08).
- 5.8 The status of these licenses and permits obtained for the Project is summarized in

Appendix I.

Status of Waste Management

- 5.9 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.
- 5.10 The solid waste generated from the Project was mainly general refuse that was collected by a licensed collector on an as need basis.
- 5.11 The monthly summary of waste flow table and the timber summary for May – July 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 dissolved oxygen (DO), 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.
- ✧ Landslip due to heavy rainstorm (Black Rainstorm Warning on 7 June 2008).

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 Streams 21 and 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 Streams 21 and 27 are low; and
- The mean SS levels at Reference Stations of Streams 21 and 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 ³)			Within 130% of mean value of Baseline data (Yes/No)	
	Baseline Impact Station	Reference Station	Impact Station	Reference Station	Impact Station
		(May- July 08)	(May- July 08)	(May- July 08)	(May- July 08)
15	2.35	2.59	2.58	Yes	Yes
18	4.72	2.72	2.61	Yes	Yes
21	1.98	2.63	2.62	No	No
23	2.60	2.58	2.54	Yes	Yes
		2.59		Yes	
26	2.35	2.59	2.58	Yes	Yes
27	1.60	2.54	2.55	No	No
40	9.10	2.59	2.53	Yes	Yes
CSS	3.38	2.59	2.55	Yes	Yes
TCB	9.00	4.64	3.55	Yes	Yes
TCS	4.59	2.59	2.77	Yes	Yes

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

- 6.8 There was one non-compliance issued by the IEC during the site inspection on 30th May 2008 in the reporting quarter. Their statuses are listed in Table 6.2.

Table 6.2 Status of Non-compliance Recorded during Site Inspections

Reference No.	Date	Details	Follow-up	Status
NC8053001 (Issued by IEC)	30/5/2008	Dust emission was observed during cement debagging and mixing at STR17, no dust suppression measure was implemented.	The shelter with top cover and 3-side enclosure provided for the works and tool box training with dust suppression topic has been delivered to relevant workers.	IEC has no further comment on closing this item

- 6.9 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 Two 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.

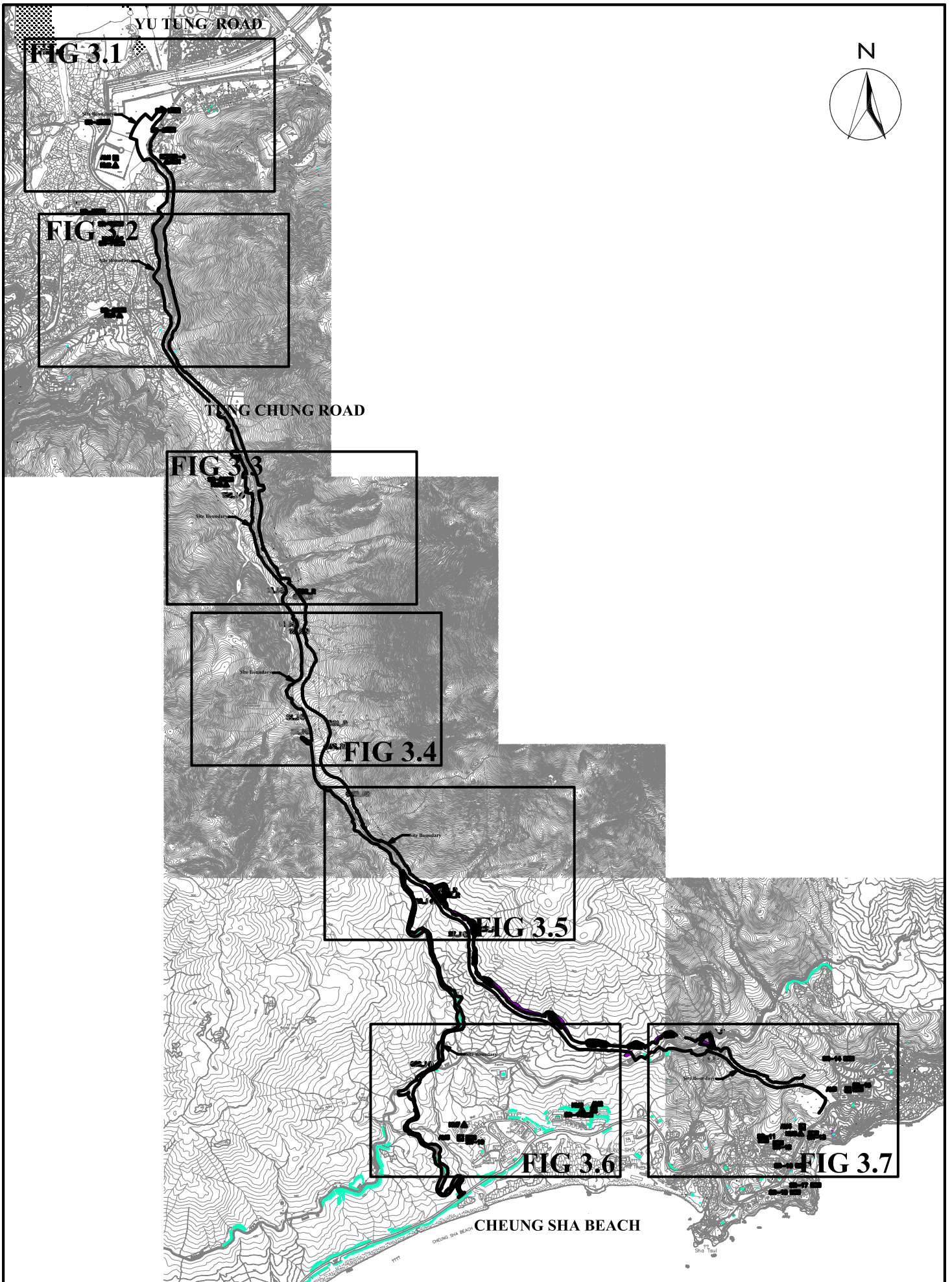
Water Quality Impact

- 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.

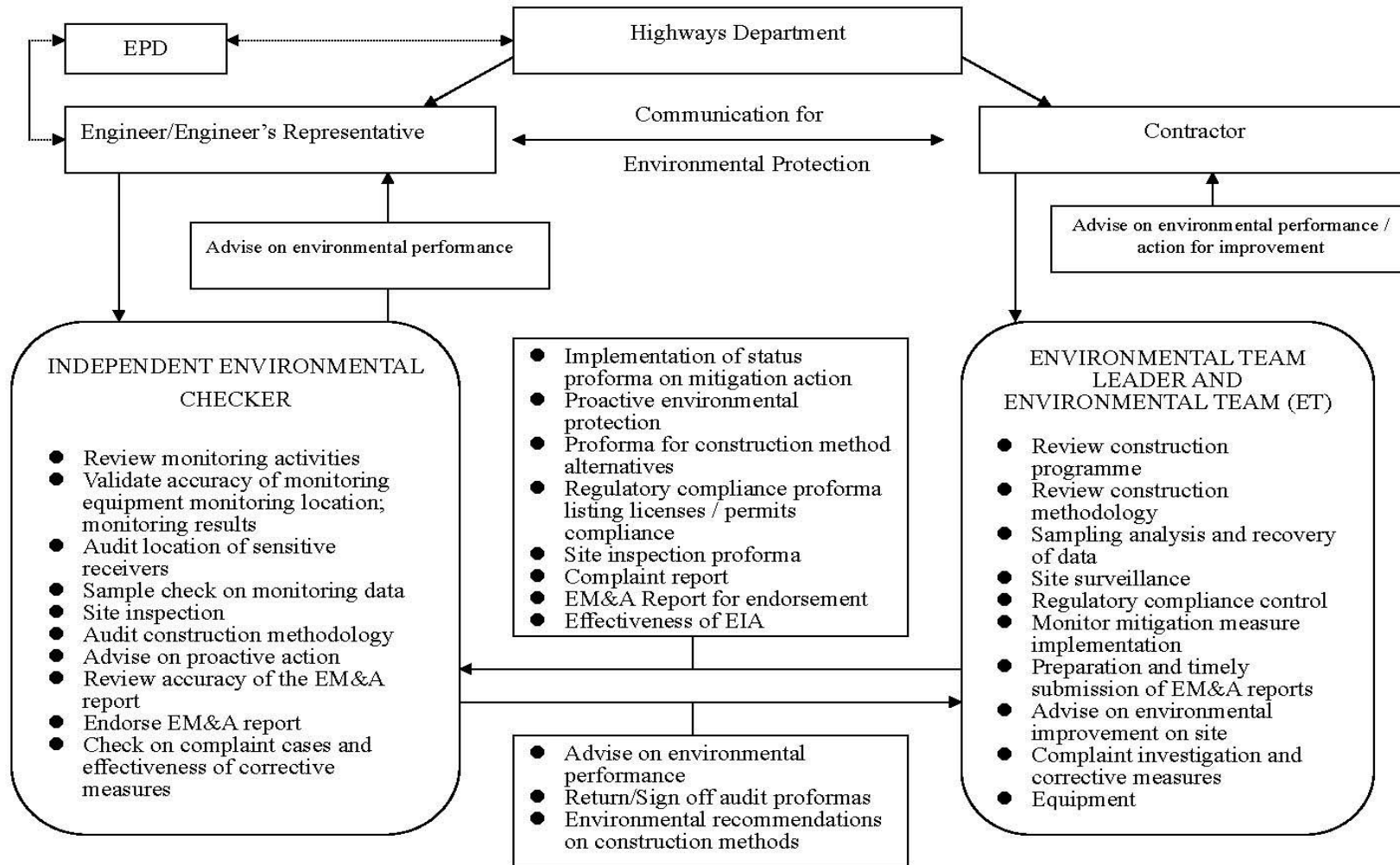
Waste / Chemical Management

- 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.

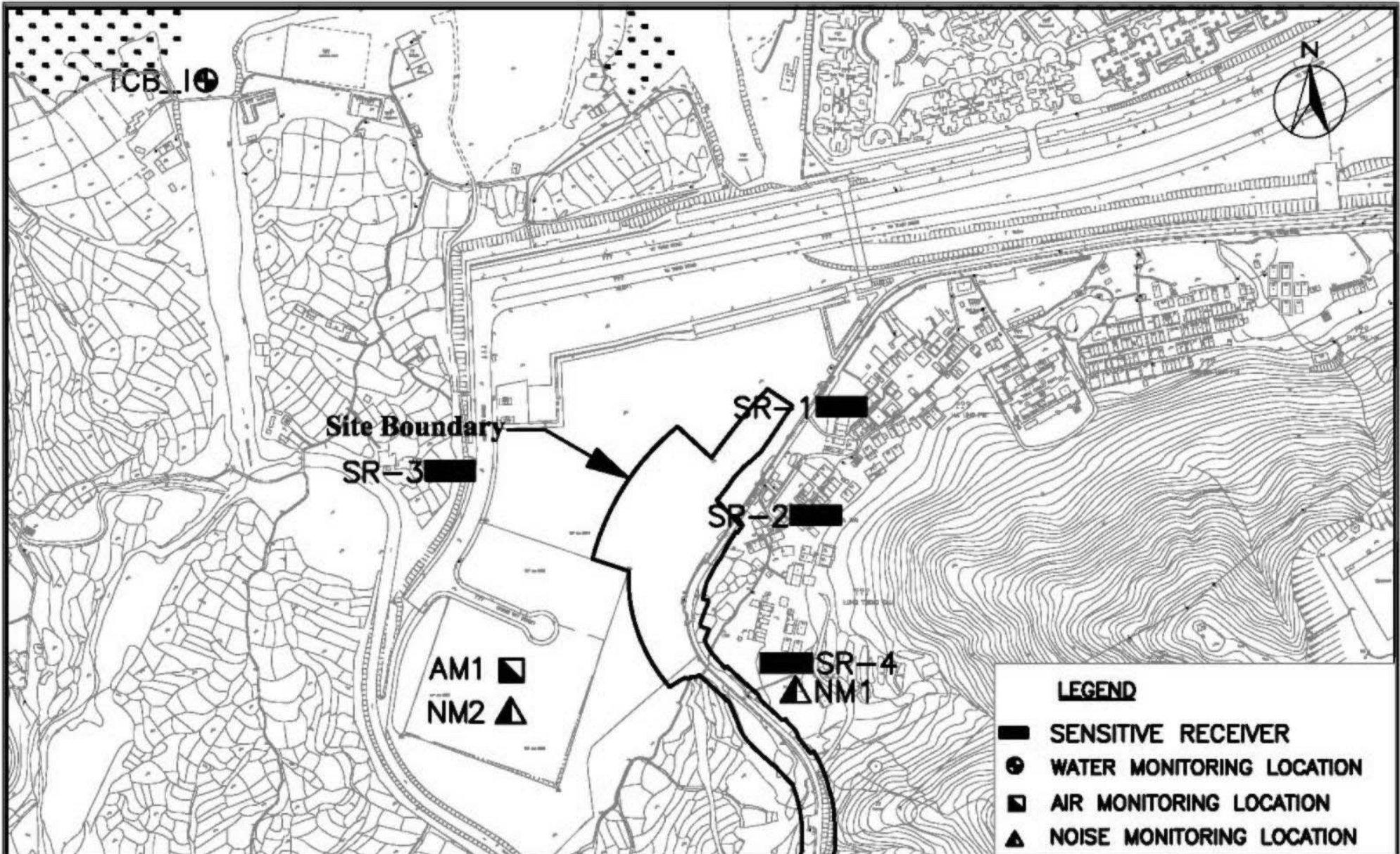
FIGURES



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

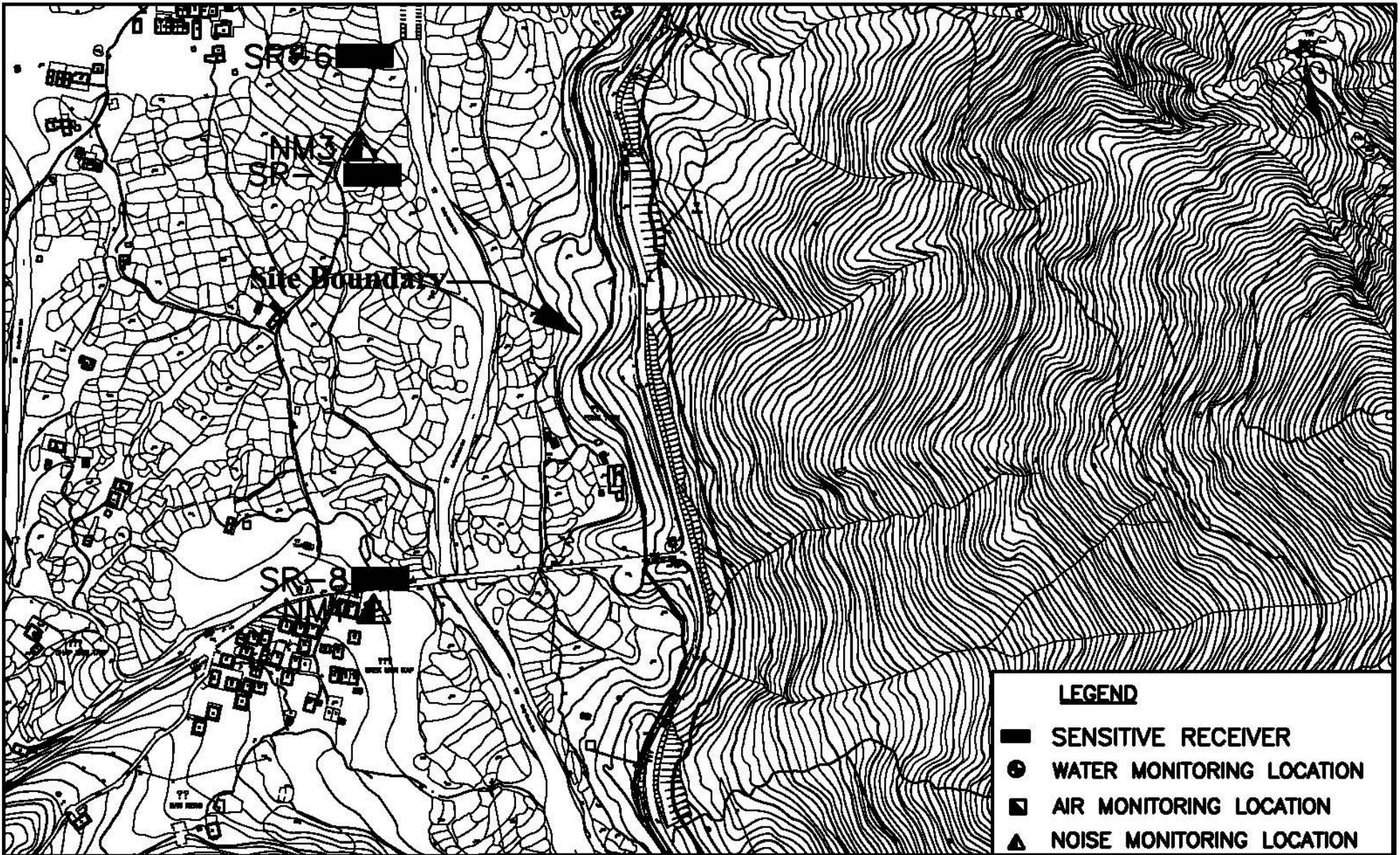






IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSENG TAU AND CHEUNG SHA



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

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



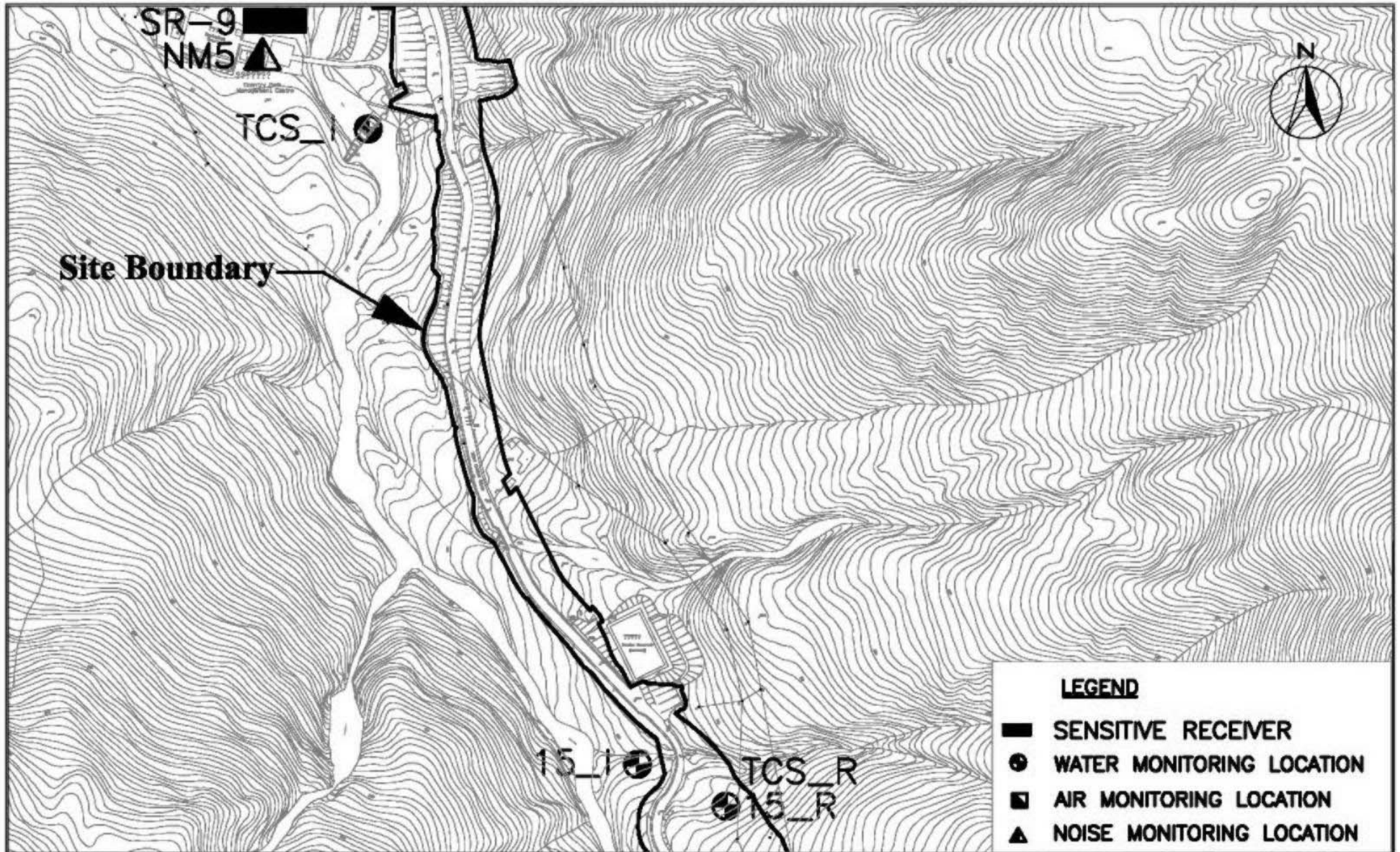
LEGEND	
	SENSITIVE RECEIVER
	WATER MONITORING LOCATION
	AIR MONITORING LOCATION
	NOISE MONITORING LOCATION

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

CNOTECH
Cinotech Consultants Limited

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

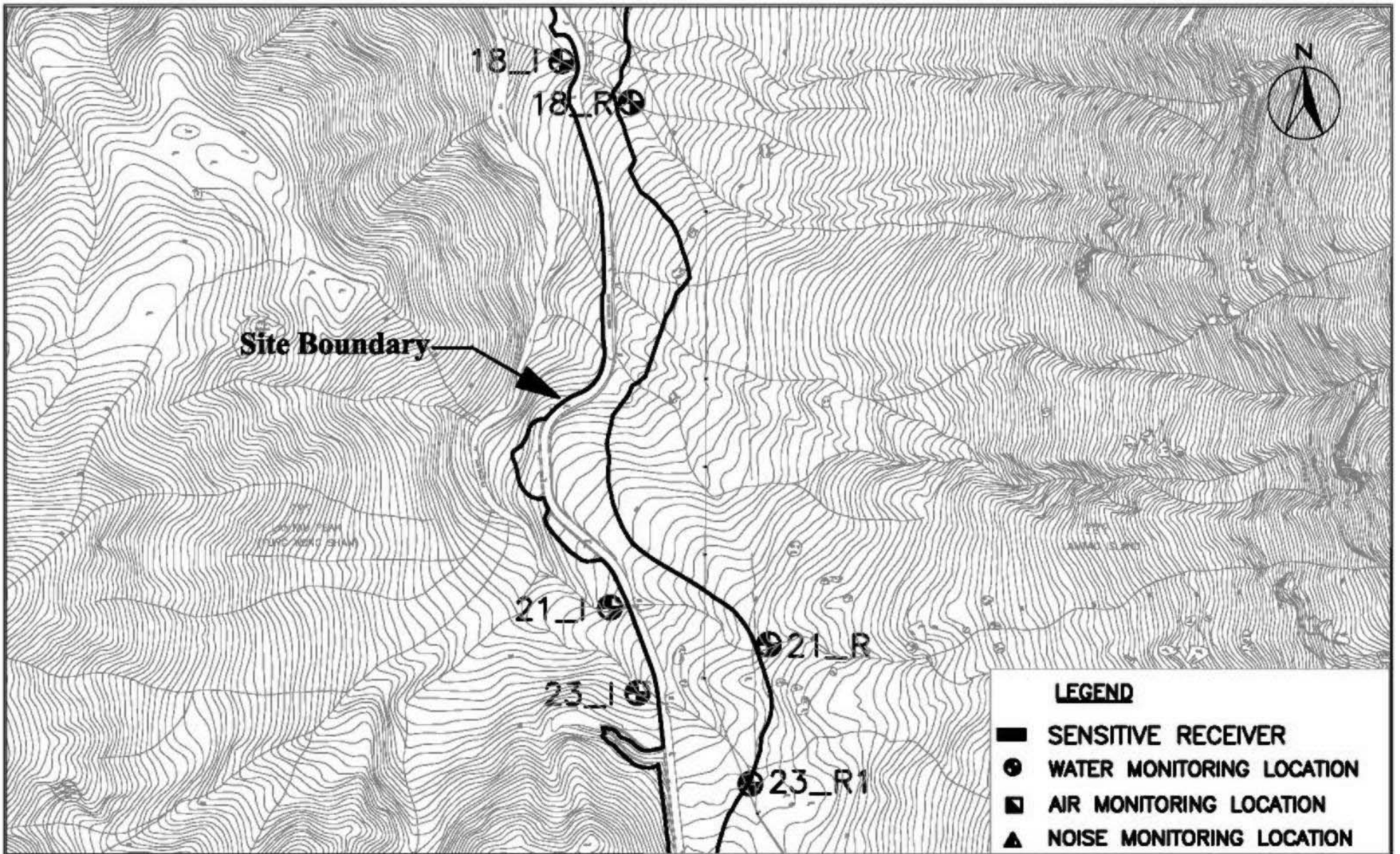
SCALE	A4 1:4000	DATE	OCT 2006
CHECK	JY	DRAWN	VL
JOB No.	MA6030	DRAWING No.	FIG 3.2
		REV	1



LEGEND

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

 Cinotech Consultants Limited	IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSENG TAU AND CHEUNG SHA		SCALE	A4 1:4000	DATE	OCT 2006
	MONITORING LOCATIONS (SHEET 3 OF 7)		CHECK	JY	DRAWN	VL
			JOB No.	MA6030	DRAWING No.	FIG 3.3



LEGEND

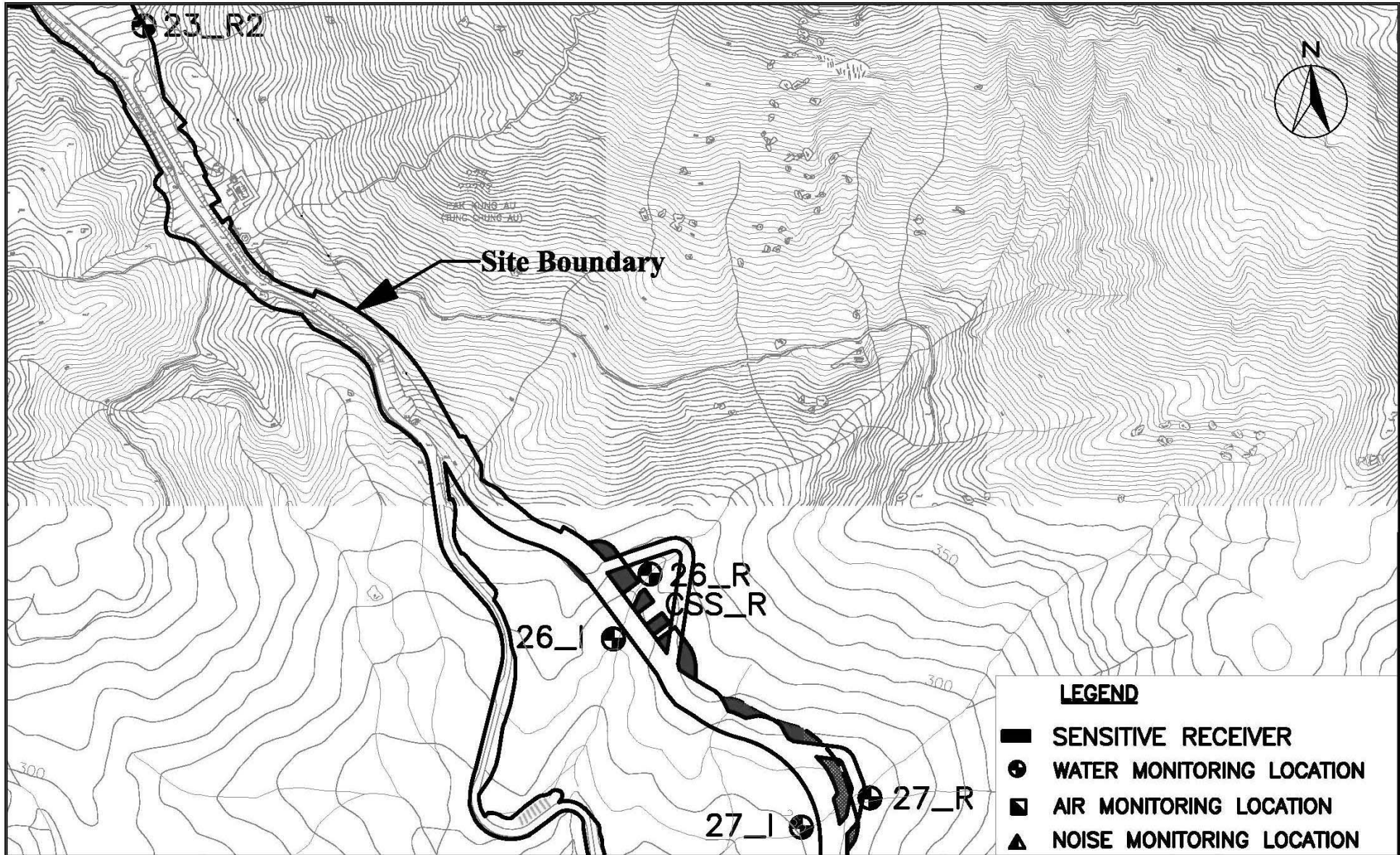
- SENSITIVE RECEIVER
- WATER MONITORING LOCATION
- AIR MONITORING LOCATION
- ▲ NOISE MONITORING LOCATION



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

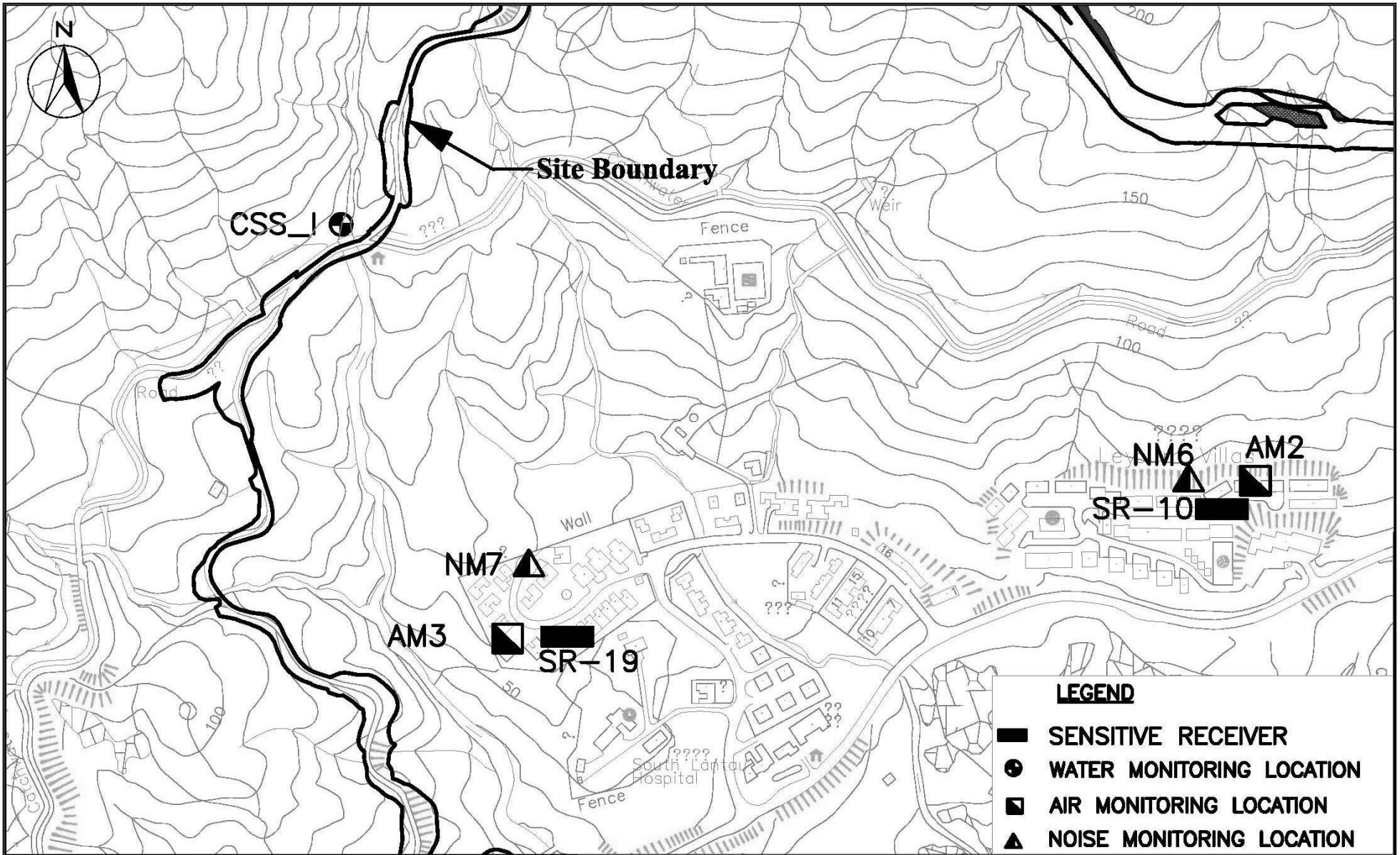


IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSENG TAU AND CHEUNG SHA



**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



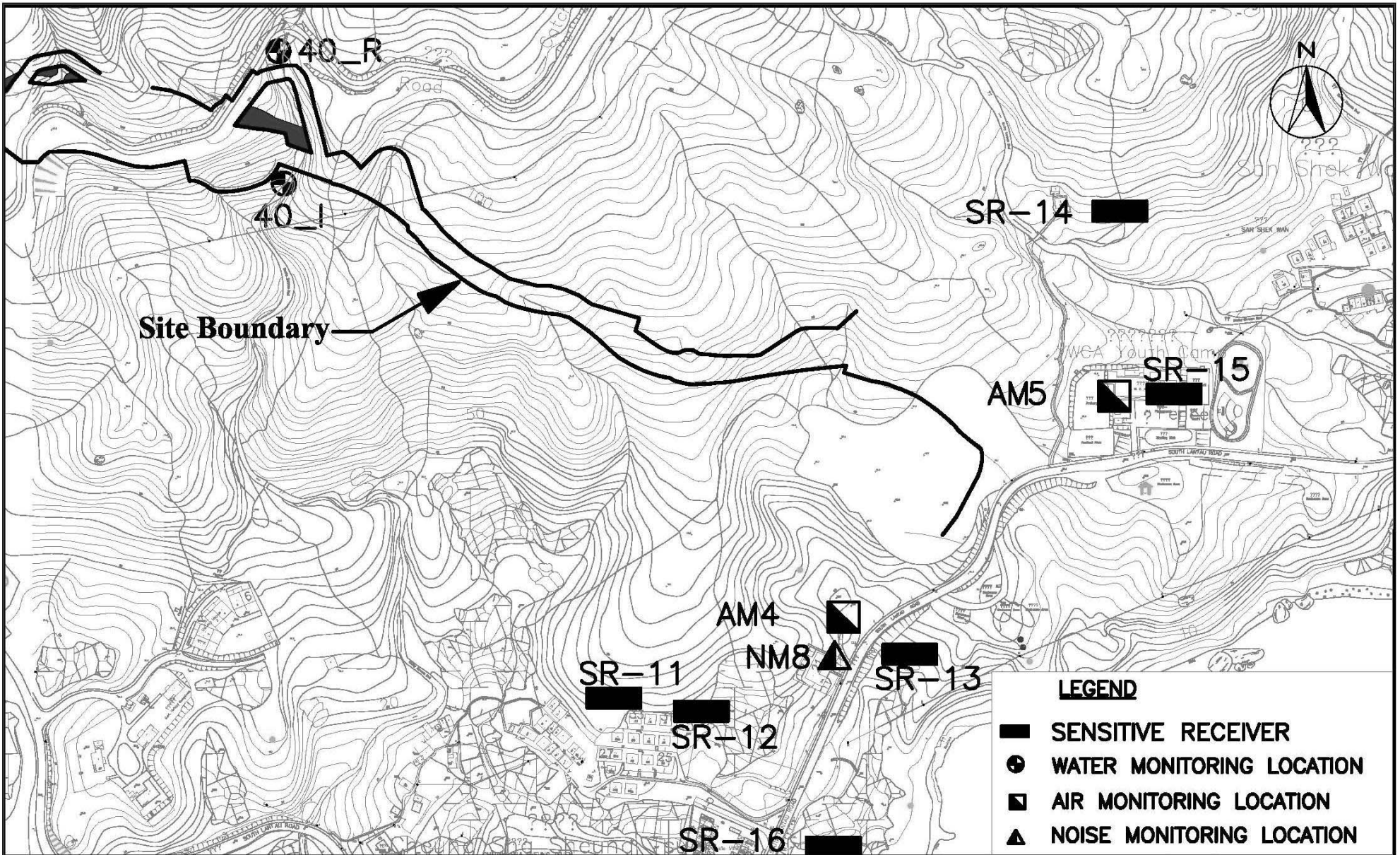
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IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSENG TAU AND CHEUNG SHA

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**








Activity ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008												2008		
						2008			AUG				SEP			OCT			2008	
						MAY	JUN	JUL	04	11	18	25	01	08	15	22	29	06	13	20
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															
ZAKD003	Complete Works in Section 1A	0	0		31AUG11															
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																				
ZAKD002	Extended Completion Date of Section 1 (Claim 62)	0	100		09MAR07 A															
ZAKD003	Extended Completion Date of Section 1A(Claim 62)	0	0		08MAR09 *															
ZAKD005	Extended Completion Date of Section 2 (Claim 62)	0	100		06JAN07 A															
ZAKD006	Extended Completion Date of Section 2A(Claim 62)	0	0		05JAN09 *															
ZAKD008	Extended Completion Date of Section 3 (Claim 62)	0	100		09JUN07 A															
ZAKD010	Extended Completion Date of Section 3A(Claim 62)	0	0		08JUN09 *															
General																				
Monthly Monitoring Submission																				
0470	Waste Management Plan	387w1d	58	04NOV04 A	25APR11															
0480	Environment Monitoring and Audit	387w1d	58	04NOV04 A	25APR11															

Start date	28JUN04		Early bar
Finish date	30AUG12		Progress bar
Data date	01AUG08		Critical bar
Number/Version	Revision 15		Summary bar
Page number	1A		Summary point
Project name	RV1501		Start milestone point
			Finish milestone point

Contract No. HY/2003/19
Improvement to Tung Chung Road
3M Rolling Programme 01.08.08 to 31.10.08

Date	Revision	Checked	Approved
01AUG08	3M update		








Activity ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008														
						2008			AUG				SEP			OCT			2008	
						MAY	JUN	JUL	04	11	18	25	01	08	15	22	29	06	13	20
Section 1																				
Zone A (CH. 1000 - 1565)																				
Drainage Works																				
S1-1500	Footpath and verge (Additional Work)	10w4d	61	16JUN08 A	01SEP08	Footpath and verge (Additional Work)														
Roadworks																				
S1-1530	Street Furniture (Additional Works)	8w2d	52	01JUL08 A	30SEP08	Street Furniture (Additional Works)														
Landscaping																				
S1-1545	Landscape Earth Bund Ch.920-1020	3w4d	0	01APR09 *	30APR09															
Zone B (CH. 1565 - 2130)																				
Slope Works																				
S1-2080	Recompact fill slope remedial works ch1755-1945	8w2d	0	01AUG08 *	30SEP08	Recompact fill slope remedial work														
S1-2084	Outlet of Culvert @ Ch2021 remedial works	6w2d	0	16AUG08 *	30SEP08	Outlet of Culvert @ Ch2021 remedial work														
Roadworks																				
S1-2337	Additional drainage Pipe Desilting Works	19w1d	0	14AUG08	31DEC08 *	Additional drainage Pipe Desilting Works														
S1-2338	Footpath and Verge (Remedial Works)	1w	0	01NOV08 *	07NOV08	Footpath and Verge (Remedial Works)														
S1-2370	Additional street furnitures	3w2d	0	08NOV08 *	01DEC08	Additional street furnitures														
Zone C (CH. 2130 - 2725)																				
Slope Works																				
S1-3194	Recompact fill slope (VO50 & 83) remedial work	8w2d	0	01AUG08 *	30SEP08	Recompact fill slope (VO50 & 83) remedial work														
Retaining Wall RW06																				
S1-2350	Utilities (Remedial Works)	19w5d	0	01AUG08 *	22DEC08	Utilities (Remedial Works)														
S1-3890	RC structure Bay 8	4w1d	0	16OCT08 *	13NOV08	RC structure Bay 8														
S1-3900	Backfilling	2w1d	0	14NOV08	28NOV08	Backfilling														
S1-3910	Slope drainage	4w1d	0	29NOV08	30DEC08	Slope drainage														

Start date	28JUN04		Early bar
Finish date	30AUG12		Progress bar
Data date	01AUG08		Critical bar
Number/Version	Revision 15		Summary bar
Page number	2A		Summary point
Project name	RV1501		Start milestone point
			Finish milestone point
c Primavera Systems, Inc.			

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Date	Revision	Checked	Approved
01AUG08	3M update		








Activity ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008												2008		
						2008			AUG				SEP			OCT			2008	
						MAY	JUN	JUL	04	11	18	25	01	08	15	22	29	06	13	20
Roadworks																				
S1-3631	Waterworks remedial works	1w	0	23DEC08 *	31DEC08															
S1-3632	HyD remedial works (kerb)	2w	0	02JAN09 *	15JAN09															
S1-3633	Additional U channel	1w3d	0	02JAN09 *	12JAN09															
S1-3634	Street furniture remedial works	2w4d	0	24JAN09 *	14FEB09															
S1-3635	Footpath and Verge remedial works	1w1d	0	16JAN09 *	23JAN09															
Zone D (CH. 2725 - 3100)																				
Slope Works																				
S1-4069	Utility remedial works CH2760-3060 downhill	8w2d	0	01SEP08 *	31OCT08													Utility rem		
S1-4080	Top channel (CH. 2940 - 3060) remedial works	4w2d	0	01NOV08	01DEC08													Top		
S1-4081	Concrete verge	2w	0	02DEC08 *	15DEC08													Co		
Retaining Wall RW07																				
S1-4241	Utility remedial works	27w4d	0	01AUG08 *	21FEB09															
S1-4260	Backfilling (Remaining)	20w5d	0	01AUG08 *	31DEC08															
S1-4280		1d	0	01AUG08	01AUG08															
S1-4270	Slope Drainage	20w5d	0	01AUG08 *	31DEC08															
Roadworks																				
Road work																				
S1-4416	Utility remedial works	27w4d	0	01AUG08 *	21FEB09															
S1-4417	Waterworks remedial works	2w1d	0	23FEB09 *	09MAR09															
S1-4418	HyD remedial works (kerb)	2w1d	0	10MAR09 *	24MAR09															
S1-4419	Additional U channel	1w5d	0	10MAR09 *	21MAR09															
S1-4421	Footpath remedial works	1w	0	25MAR09 *	31MAR09															
S1-4430	Street Furniture remedial works	1w3d	0	01APR09 *	15APR09															
Zone E (CH. 3100 - 4010)																				

Start date	28JUN04		Early bar
Finish date	30AUG12		Progress bar
Data date	01AUG08		Critical bar
Number/Version	Revision 15		Summary bar
Page number	3A		Summary point
Project name	RV1501		Start milestone point
			Finish milestone point
c Primavera Systems, Inc.			

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01AUG08	3M update		

Activity ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008																			
						2008			AUG				SEP			OCT			2008						
						MAY	JUN	JUL	04	11	18	25	01	08	15	22	29	06	13	20	27	NOV	DEC		
Slope Works																									
S1-5151	9SE-D/F9 (Closure of existing TCR)	6w2d	0	16SEP08 *	31OCT08																				
S1-5152	TCR/UF/C/10 (Closure of existing TCR)	4w1d	0	01AUG08 *	30AUG08																				
Retaining Wall RW10																									
S1-5390	Backfilling	12w3d	0	01AUG08 *	31OCT08																				
Retaining Wall RW11																									
S1-5450	Backfilling	8w	0	01DEC08 *	31JAN09																				
S1-5463	U channel	4w	0	02FEB09 *	28FEB09																				
Retaining Wall RW12																									
S1-5500	Backfilling & Reinstatement of Carriageway	6w1d	0	01AUG08 *	16SEP08																				
Roadworks																									
Road work																									
S1-5843	HyD remedial works (kerb)	3w5d	0	02JAN09 *	31JAN09																				
S1-5844	Waterworks remedial works	3w2d	0	02JAN09 *	24JAN09																				
S1-5846	Additional drainage works	28w4d	0	01AUG08 *	28FEB09																				
S1-5847	Footpath and verge additional works	4w2d	0	02MAR09 *	31MAR09																				
S1-5836	Utilities remedial works	18w5d	0	16AUG08 *	31DEC08																				
S1-5838	Additional street furniture	3w4d	0	01APR09 *	30APR09																				
Zone F (CH. 4010 - 4686)																									
Slope Works																									
S1-6111	9SE-D/C20 (Closure of existing TCR)	4w1d	0	01AUG08 *	30AUG08																				
S1-6113	TCR/UF/C/12 (Closure of existing TCR)	4w1d	0	01AUG08 *	30AUG08																				
S1-6114	9SE-D/C35 (Closure of existing TCR)	6w4d	0	02JAN09	20FEB09																				
Retaining Wall RW14																									

Start date	28JUN04		Early bar
Finish date	30AUG12		Progress bar
Data date	01AUG08		Critical bar
Number/Version	Revision 15		Summary bar
Page number	4A		Summary point
Project name	RV1501		Start milestone point
			Finish milestone point

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01AUG08	3M update		

Activity ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008															
						2008			AUG				SEP				OCT			2008	
						MAY	JUN	JUL	04	11	18	25	01	08	15	22	29	06	13	20	27
S1-6231	Additional drainage works	4w1d	0	01AUG08 *	30AUG08																
S1-6232	Backfilling	4w1d	0	01SEP08 *	30SEP08																
Retaining Wall RW15																					
S1-6285	Additional base slab & wall (V.O.115)	3w4d	0	02JAN09	30JAN09																
Retaining Wall RW16																					
S1-6365	Proposed utilities installation	10w	0	02JAN09	16MAR09																
Retaining Wall RW39																					
S1-6530	Backfilling remedial works	8w2d	0	01SEP08 *	31OCT08																
Culvert at CH. 4631																					
S1-6615	1050mm dia. pipeline under existing TCR	5w	0	02JAN09	09FEB09																
Water Works																					
S1-6618	Watermain water seepage around STR007	2w	0	01AUG08 *	15AUG08																
Drainage Works																					
S1-6750	Additional drainage works	7w	0	01AUG08 *	20SEP08																
Roadworks																					
S1-6722	Utilities remedial works	4w1d	0	01AUG08 *	30AUG08																
S1-6723	Buttress wall near STR007	6w1d	0	01AUG08 *	16SEP08																
S1-6724	Additional footpath & verge	5w3d	0	22SEP08 *	31OCT08																
S1-6725	Additional street furnitures	4w1d	0	01NOV08 *	29NOV08																
Pump House for Fire Hydrant @ CH. 4398																					
S1-6891	E&M works	4w1d	0	01AUG08 *	30AUG08																








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Finish date	30AUG12
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- Early bar
- Progress bar
- Critical bar
- Summary bar
- Summary point
- Start milestone point
- Finish milestone point

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01AUG08	3M update		

Activity ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008															
						2008			AUG				SEP				OCT			2008	
						MAY	JUN	JUL	04	11	18	25	01	08	15	22	29	06	13	20	27
S1-6922	Testing & commisioning	4w1d	0	01SEP08 *	30SEP08																
S1-6923	Fencing & ground level works	12w3d	0	01SEP08 *	29NOV08																
Transformer Room at CH. 4660																					
S1-6903	Fencing & ground level works	16w4d	0	01AUG08 *	29NOV08																
Section 1A																					
Maintenance Access Track																					
S1-1570	Landscape softworks Ch.0-260	53w3d	0	01AUG08 *	31AUG09																
Zone A (CH. 1000 - 1565)																					
S1-1550	Landscape softworks	53w3d	0	01AUG08 *	31AUG09																
Zone B (CH. 1565 - 2130)																					
S1-2660	Landscape Softworks	53w3d	0	01AUG08 *	31AUG09																
Zone C (CH. 2130 - 2725)																					
Landscaping																					
S1-3850	Landscape softworks	20w3d	0	01APR09 *	31AUG09																
Zone D (CH. 2725 - 3100)																					
S1-4600	Landscape Softworks	19w	0	16APR09 *	31AUG09																
Zone E (CH. 3100 - 4010)																					
S1-5915	Landscape Softworks	20w3d	0	01APR09 *	31AUG09																
Zone F (CH. 4010 - 4686)																					
Landscaping																					

Start date	28JUN04		Early bar
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Page number	6A		Summary point
Project name	RV1501		Start milestone point
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Activity ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008														
						2008			AUG				SEP			OCT			2008	
						MAY	JUN	JUL	04	11	18	25	01	08	15	22	29	06	13	20
S1-6910	Landscape Softworks	20w3d	0	01APR09 *	31AUG09															
Establishment works																				
S1-6920	Establishment Works for Section 1A(claim no.084)	118w2d	0	01SEP09 *	31AUG11															
Section 2																				
Zone 1 (CH. 7013 - Outfall)																				
Roadworks																				
S2-1265	Additional toe wall & F/P near YWCA(Claim no141)	27w2d	77	01MAR08 A	16SEP08															
S2-1266	Additional works on footpath and verge	8w2d	0	01AUG08 *	30SEP08															
S2-1280	CCTV and related slope	8w2d	0	01AUG08 *	30SEP08															
S2-1290	Street Furnitures & road marking (additional)	8w2d	0	02OCT08 *	29NOV08															
Zone 2 (CH. 6595 - 7013)																				
Roadworks																				
Road work																				
S2-2395	Additional works on footpath & Verge	10w4d	22	16JUL08 A	30SEP08															
S2-2400	Street Furnitures & Road Marking (Additional)	8w2d	0	02OCT08 *	29NOV08															
Zone 3 (CH. 6240 - 6595)																				
Roadworks																				
Road work																				
S2-3736	Additional works on footpath & verge	8w2d	0	01AUG08 *	30SEP08															
S2-3740	Street furnitures & Road Marking (Additional)	8w2d	0	02OCT08 *	29NOV08															
Zone 4 (CH. 5625 - 6240)																				
Roadworks																				
Road work																				
S2-4904	Reinstatement around bridge structures	14w5d	16	16JUL08 A	31OCT08															
S2-4905	Additional works on footpath & verge	4w1d	0	01NOV08	29NOV08															

Start date	28JUN04		Early bar
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Data date	01AUG08		Critical bar
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Project name	RV1501		Start milestone point
			Finish milestone point
c Primavera Systems, Inc.			

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Activity ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008												2008		
						2008			AUG				SEP			OCT			2008	
						MAY	JUN	JUL	04	11	18	25	01	08	15	22	29	06	13	20
S2-6735	Haul road reinstatement	29w	58	01APR08 A	31MAR09															
Establishment works																				
S2-6740	Establishment Works for Section 2A(claim no.084)	118w2d	0	01SEP09 *	31AUG11															
Section 3																				
Feature No. TCR/UF/C/15																				
S3-3000	Cut and Trim Slope Surface	1w1d	0	02JAN09 *	12JAN09															
S3-3010	300mm u channel at crest	1w4d	0	14JAN09	31JAN09															
S3-3020	Slope Surface Protection	2w2d	0	31JAN09	17FEB09															
Feature No. 13NE-B/C65																				
S3-3030	Install soil nail (199 nos.)	4w4d	0	31JAN09	05MAR09															
S3-3040	Slope surface protection	2w2d	0	05MAR09	21MAR09															
Feature No. 13NE-B/C64																				
S3-3050	Install soil nail (127 nos.)	3w2d	0	05MAR09	28MAR09															
S3-3060	Pull out tests (4 nos.)	1w2d	0	28MAR09	08APR09															
S3-3065	300mm u-channel at crest & toe	3w2d	0	08APR09	07MAY09															
S3-3070	Slope surface protection	2w2d	0	07MAY09	23MAY09															
Feature No. 13NE-B/C63																				
S3-3080	Install soil nail (111 nos.)	3w1d	0	07MAY09	30MAY09															
S3-3090	Pull out test (5 nos.)	1w2d	0	30MAY09	09JUN09															
S3-3100	300mm stepped & u-channel	3w2d	0	09JUN09	03JUL09															
S3-3110	Slope surface protection	2w2d	0	03JUL09	20JUL09															
Feature No. 13NE-B/C62																				
S3-3120	Install soil nail (144 nos.)	3w4d	0	03JUL09	29JUL09															








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Finish date	30AUG12
Data date	01AUG08
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c Primavera Systems, Inc.	

- Early bar
- Progress bar
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01AUG08	3M update		








Activity ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008															
						2008			AUG				SEP				OCT			2008	
						MAY	JUN	JUL	04	11	18	25	01	08	15	22	29	06	13	20	27
S3-3130	Pull out tests (5 nos.)	1w2d	0	29JUL09	07AUG09																
S3-3140	300mm stepped & u channel	3w2d	0	07AUG09	31AUG09																
S3-3150	Slope surface protection	2w2d	0	31AUG09	16SEP09																
Feature No. 13NE-B/F64																					
S3-3160	Recompact slope	2w2d	0	31AUG09	16SEP09																
S3-3170	Reconstruct 750mm stepped channel & stairway	3w2d	0	16SEP09	10OCT09																
S3-3180	300mm u channel	2w2d	0	10OCT09	28OCT09																
Feature No. 13NE-B/C80																					
S3-3190	Install soil nail (42 nos.)	2w	0	10OCT09	24OCT09																
S3-3200	Pull out test (1 nos.)	1w2d	0	24OCT09	04NOV09																
S3-3210	300mm u channel	2w2d	0	04NOV09	20NOV09																
S3-3220	Slope surface protection	2w2d	0	20NOV09	07DEC09																
Feature No. 13NE-B/C233																					
S3-3230	Install soil nail (44 nos.)	2w	0	20NOV09	04DEC09																
S3-3240	Pull out tests (2 nos.)	1w2d	0	04DEC09	14DEC09																
S3-3250	Reconstruct 300mm u channel	2w2d	0	14DEC09	02JAN10																
S3-3260	Slope surface protection	3w2d	0	02JAN10	26JAN10																
Feature No. 13NE-B/CR72																					
S3-3270	Install soil nail (113 nos.)	3w2d	0	02JAN10	26JAN10																
S3-3280	Pull out tests (3 nos.)	1w2d	0	26JAN10	04FEB10																
S3-3290	300mm u channel	2w2d	0	04FEB10	23FEB10																
S3-3300	Slope surface protection	3w2d	0	23FEB10	18MAR10																
Feature No. 13NE-B/FR68																					

Start date	28JUN04	 Early bar
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c Primavera Systems, Inc.		

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Activity ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008																
						2008			AUG				SEP				OCT			2008		
						MAY	JUN	JUL	04	11	18	25	01	08	15	22	29	06	13	20	27	NOV
S3-3310	Remove existing rubble wall	1w4d	0	23FEB10	06MAR10																	
S3-3320	Recompact slope	2w2d	0	06MAR10	23MAR10																	
S3-3330	300mm u channel at toe	2w2d	0	23MAR10	12APR10																	
Feature No. 13NE-B/C115																						
S3-3340	Install soil nail (136 nos.)	3w2d	0	02JAN09	24JAN09																	
S3-3350	Pull out tests (5 nos.)	1w2d	0	29JAN09	06FEB09																	
S3-3360	300mm u channel at toe	2w2d	0	07FEB09	23FEB09																	
S3-3370	Slope surface protection	2w2d	0	24FEB09	11MAR09																	
Feature No. 13NE-B/C116																						
S3-3380	Install soil nail (75 nos.)	2w2d	0	02APR09	22APR09																	
S3-3390	Pull out tests (4 nos.)	1w2d	0	23APR09	04MAY09																	
S3-3400	300mm u channel at toe	2w2d	0	05MAY09	20MAY09																	
S3-3410	Slope surface protection	3w2d	0	21MAY09	13JUN09																	
Feature No. TCR/JF/F/22																						
S3-3420	Recompact slope	3w2d	0	21MAY09	13JUN09																	
S3-3430	300mm stepped & u channel at crest & toe	3w2d	0	15JUN09	08JUL09																	
Feature No. 13NE-B/FR90																						
S3-3440	Recompact slope	3w2d	0	09JUL09	31JUL09																	
S3-3450	300mm stepped & u channel at crest & toe	3w2d	0	01AUG09	24AUG09																	
Feature No. 13NE-B/C117																						
S3-3460	Install soil nail (33 nos.)	1w4d	0	25AUG09	04SEP09																	
S3-3470	Pull out tests (2 nos.)	1w2d	0	05SEP09	14SEP09																	
S3-3480	300mm u channel	2w2d	0	15SEP09	30SEP09																	

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Activity ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008																
						2008			AUG				SEP				OCT			2008		
						MAY	JUN	JUL	04	11	18	25	01	08	15	22	29	06	13	20	27	NOV
S3-3490	Slope surface protection	3w2d	0	02OCT09	24OCT09																	
Feature No. 13NE-B/C244																						
S3-3500	Install soil nail (89 nos.)	2w5d	0	02OCT09	21OCT09																	
S3-3510	Pull out tests (3 nos.)	1w2d	0	22OCT09	31OCT09																	
S3-3520	300mm stepped & u channel at crest	3w2d	0	02NOV09	24NOV09																	
S3-3530	Slope surface protection	3w2d	0	25NOV09	17DEC09																	
Feature No. 13NE-B/FR85																						
S3-3540	Remove existing concrete wall	1w1d	0	25NOV09	02DEC09																	
S3-3550	Recompact slope	3w2d	0	03DEC09	28DEC09																	
S3-3560	300mm stepped & u channel at toe	3w2d	0	29DEC09	21JAN10																	
Feature No. 13 NE-B/C114																						
S3-3570	Install soil nail (136 nos.)	3w2d	0	22JAN10	13FEB10																	
S3-3580	Pull out tests (4 nos.)	1w2d	0	17FEB10	25FEB10																	
S3-3590	Slope surface protection	3w2d	0	26FEB10	20MAR10																	
Feature No. 13NE-B/C113																						
S3-3600	Install soil nail (29 nos.)	1w5d	0	26FEB10	10MAR10																	
S3-3610	Pull out tests (2 nos.)	1w2d	0	11MAR10	19MAR10																	
S3-3620	Reconstruct 300mm u channel	2w2d	0	20MAR10	08APR10																	
S3-3630	Slope surface protection	3w2d	0	09APR10	03MAY10																	
Feature No. TCR/UF/C/27																						
S3-3640	Install soil nail (55 nos.)	2w	0	09APR10	22APR10																	
S3-3650	Pull out tests (2 nos.)	1w2d	0	23APR10	03MAY10																	
S3-3660	Slope surface protection	3w2d	0	04MAY10	27MAY10																	
Feature No. 13NE-B/C243																						

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			Finish milestone point
c Primavera Systems, Inc.			

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Activity ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008												2008			
						2008			AUG				SEP				OCT			2008	
						MAY	JUN	JUL	04	11	18	25	01	08	15	22	29	06	13	20	27
S3-3670	Install soil nail (16 nos.)	1w4d	0	24FEB09	06MAR09																
S3-3680	Pull out test (1 nos.)	1w2d	0	07MAR09	16MAR09																
S3-3690	300mm u channel at toe	2w2d	0	17MAR09	01APR09																
S3-3700	Slope surface protection	3w2d	0	02APR09	29APR09																
Utilities																					
S3-3800	Utilities installation	90w	0	22JAN10	31JUL11																
Section 3A																					
Landscaping																					
S3-3805	Landscape softworks	20w4d	0	01APR10 *	31AUG10																
Establishment works																					
S3-3810	Establishment Works for Section 3A(claim no.084)	119w5d	0	01SEP10 *	30AUG12																
Undefined Section of Works																					
Zone B (CH. 1565 - 2130)																					
Straining & Deflection Structure SD 2-5																					
S1-2402	Claim 91	30w3d	67	01APR08 A	30SEP08															Claim 91	
S1-2420	Superstructure	12w3d	0	02OCT08	31DEC08																
Straining & Deflection Structure SD 3-6																					
S1-2450	Claim 91	30w3d	67	01APR08 A	30SEP08															Claim 91	
S1-2460	Superstructure	4w1d	0	02OCT08	31OCT08															Superstruc	
Straining & Deflection Structure SD 4-7																					
S1-2492	Claim 91	30w3d	67	01APR08 A	30SEP08															Claim 91	
S1-2500	Superstructure	12w3d	0	02OCT08	31DEC08																
Flexible Debris Barrier at CH. 1700 (OFB1)																					

Start date	28JUN04		Early bar
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Activity ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008														
						2008			AUG				SEP			OCT			2008	
						MAY	JUN	JUL	04	11	18	25	01	08	15	22	29	06	13	20
S1-2580	Boulder mitigation stream 5-6	4w1d	0	02FEB09 *	02MAR09															
Flexible Debris Barrier at CH. 1800 (OFB2)																				
S1-2631	Remaining Post (affected by SD4-7)	1w2d	0	02JAN09	10JAN09															
S1-2641	Remaining Barrier	1w2d	0	12JAN09	20JAN09															
S1-2651	Maintenance Stairway (Remaining)	1w4d	0	21JAN09	04FEB09															
Zone C (CH. 2130 - 2725)																				
Permanent Soil Nails																				
S1-3785	Remaining Soil nails at RW006	10w	0	01SEP08	12NOV08														Remain	
Straining & Deflection Structure SD 5-11																				
S1-3708	Claim 91	30w3d	67	01APR08 A	30SEP08														Claim 91	
S1-3710	Superstructure	8w2d	0	02OCT08	29NOV08														Super	
Flexible Debris Barrier at CH. 2700 (OFB3)																				
S1-3780	Maintenance Stairway (Remedial Work)	4w1d	0	01AUG08	30AUG08														Maintenance Stairway (Remedial Work)	
Zone D (CH. 2725 - 3100)																				
Straining & Deflection Structure SD 6-12																				
S1-4462	Claim 91	30w3d	67	01APR08 A	30SEP08														Claim 91	
S1-4470	Superstructure	8w2d	0	02OCT08	29NOV08														Super	
Straining & Deflection Structure SD 7-13																				
S1-4502	Claim 91	30w3d	67	01APR08 A	30SEP08														Claim 91	
S1-4510	Superstructure (Outstanding Works)	8w2d	0	02OCT08	29NOV08														Super	
S1-4520	Boulder mitigation	16w	0	01DEC08	28MAR09															
Flexible Debris Barrier at CH. 2800 (OFB4)																				

Start date	28JUN04		Early bar
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Activity ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008																	
						2008			AUG				SEP				OCT			2008			
						MAY	JUN	JUL	04	11	18	25	01	08	15	22	29	06	13	20	27	NOV	DEC
S1-4580	Barrier Installation (outstanding part)	4w1d	0	01AUG08	30AUG08																		
S1-4590	Maintenance Stairway (Remedial Works)	4w1d	0	01SEP08	30SEP08																		
Zone E (CH. 3100 - 4010)																							
Straining & Deflection Structure SD 10-19																							
S1-5902	Claim 91	30w3d	67	01APR08 A	30SEP08																		
S1-5905	Superstructure	8w2d	0	02OCT08	29NOV08																		
Zone F (CH. 4010 - 4686)																							
Permanent Soil Nails																							
S1-6625	Soil Nail at RW038	15w3d	0	04MAY09	21AUG09																		
Flexible Debris Barrier at CH. 4600 (OFB5)																							
S1-6870	Erect fence (outstanding part)	8w3d	51	02JUL08 A	01SEP08																		
S1-6880	Maintenance access path (Remedial Works)	3w5d	0	02SEP08	30SEP08																		
Rockfall Protection System at CH. 4400 (RPS2)																							
S1-6886	Erect Fence	4w	0	01SEP08	30SEP08																		
S1-6887	Maintenance Stairway (Remedial Works)	4w	0	02OCT08	31OCT08																		
Zone 5 (CH. 4922 - 5625)																							
Straining & Deflection Structure SD 12-30																							
S2-5870	Claim 91	25w1d	67	01APR08 A	30SEP08																		
S2-5875	Soil Nail	4w1d	0	02OCT08	31OCT08																		
S2-5880	Superstructure	8w2d	0	01NOV08	31DEC08																		
Rockfall Protection System at CH. 5320 (RPS3)																							
S2-5900	Delivery of material (lost after heavy rain)	12w5d	21	16JUL08 A	30SEP08																		
S2-5910	Erect fence	8w2d	0	02OCT08	29NOV08																		
S2-5915	Maintenance stairway (Remedial Works)	4w1d	0	01DEC08	31DEC08																		

Start date	28JUN04		Early bar
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Activity ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2008												2008		
						2008			AUG				SEP			OCT			2008	
						MAY	JUN	JUL	04	11	18	25	01	08	15	22	29	06	13	20
Landscape Works in Undefined Section																				
S2-8000	Landscape Softworks in Undefined Section	24w1d	0	01APR09 *	31AUG09															
S2-8010	Establishment Works for Undefined Section	118w2d	0	01SEP09 *	31AUG11															



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Data date	01AUG08	Critical bar					
Number/Version	Revision 15	Summary bar					
Page number	16A	Summary point					
Project name	RV1501	Start milestone point					
c Primavera Systems, Inc.			Finish milestone point				

**APPENDIX B
MONITORING REQUIREMENTS**

Appendix B - Environmental Impact Monitoring Requirements

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

Remarks:

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

Remarks:

⁽¹⁾ – Conduct noise monitoring only when construction work is carried out.

⁽²⁾ 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"> • Temperature (oC) • pH (pH unit) • Turbidity (NTU) • Water depth (m) • Salinity (mg/L) • Dissolved oxygen (DO) (mg/L and % of saturation) • Suspended solids (SS) (mg/L) 	Three times per week	<ul style="list-style-type: none"> • 15_I (811781E, 813298N) • 15_R (811853E, 813289N) • 18_I (811836E, 813138) • 18_R (811889E, 813107N) • 19_I (811858E, 812987N) • 19_R (811920E, 812927N) • 21_I (811873E, 812723N) • 21_R (811994E, 812695N) • 23_I (811894E, 812658N) • 23_R1 (811980E, 812589N) • 23_R2 (812079E, 812386N) • 25_I (812324E, 812017N) • 25_R (812353E, 812052N) • 26_I (812456E, 811895N) • 26_R (812525E, 811980N) • 27_I (812604E, 811747N) • 27_R (812658E, 811770N) • 32_I (812988E, 811327N) • 32_R (812980E, 811410N) • 35_I (813218E, 811218N) • 35_R (813231E, 811275N) • 40_I (813690E, 811211N) • 40_R (813686E, 811311N) • CSS_I (812447E, 811165N) • TCS_I (811601E, 813716N) • TCB_I (810787E, 815706N) • TCB_R (810679E, 816038N) 	<ul style="list-style-type: none"> • Sub-surface

**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 ⁽²⁾	Limit Level	
		0700-1900 hrs on normal weekdays	75 dB(A)
1900-2300 hrs on holidays & 0700-2300 hrs on all other days	When one documented complaint is received	- ⁽¹⁾	
2300-0700 hrs of next day		- ⁽¹⁾	

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

Notes:

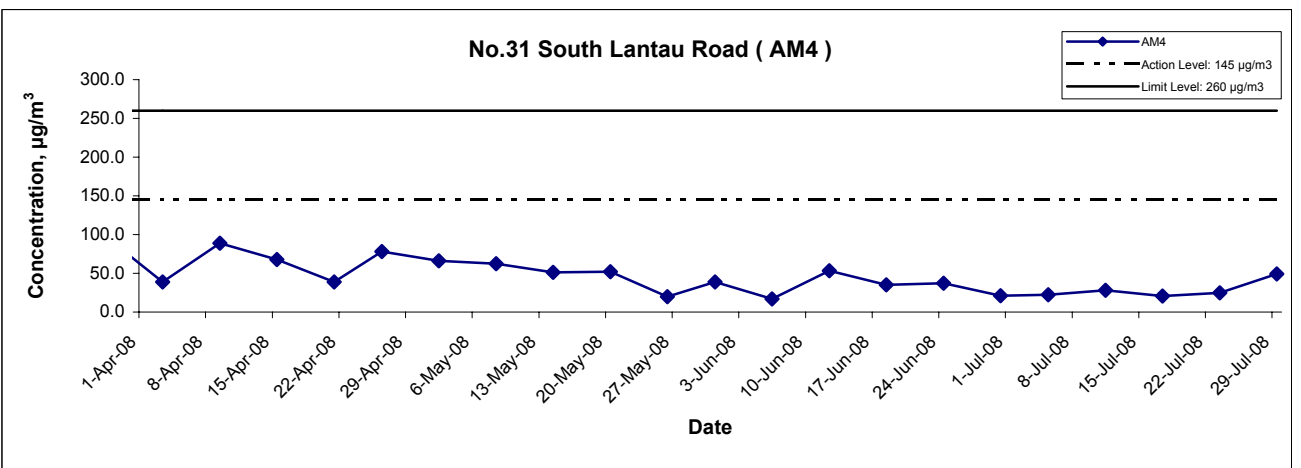
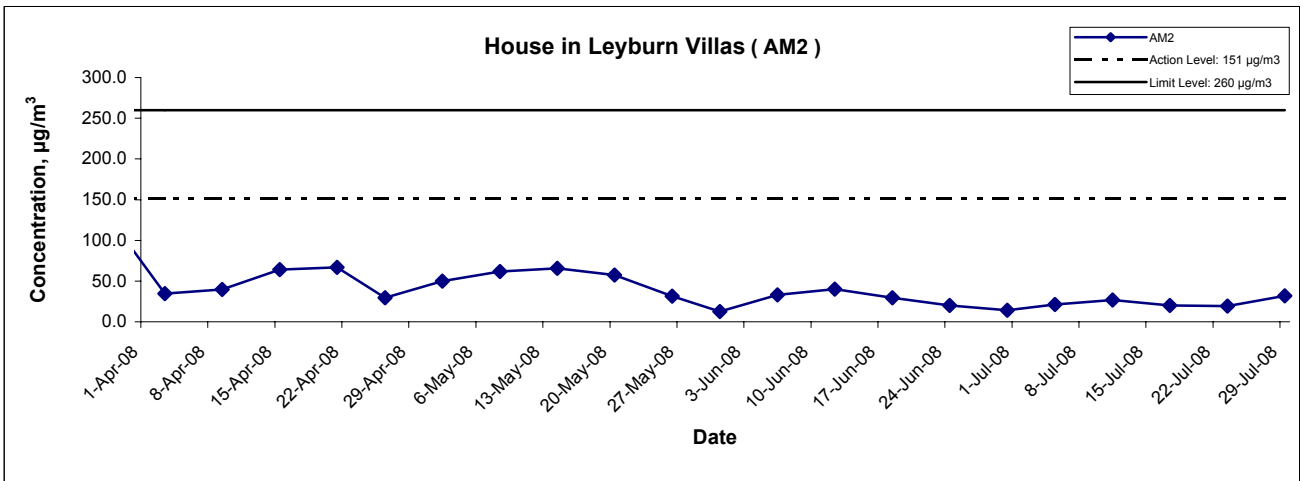
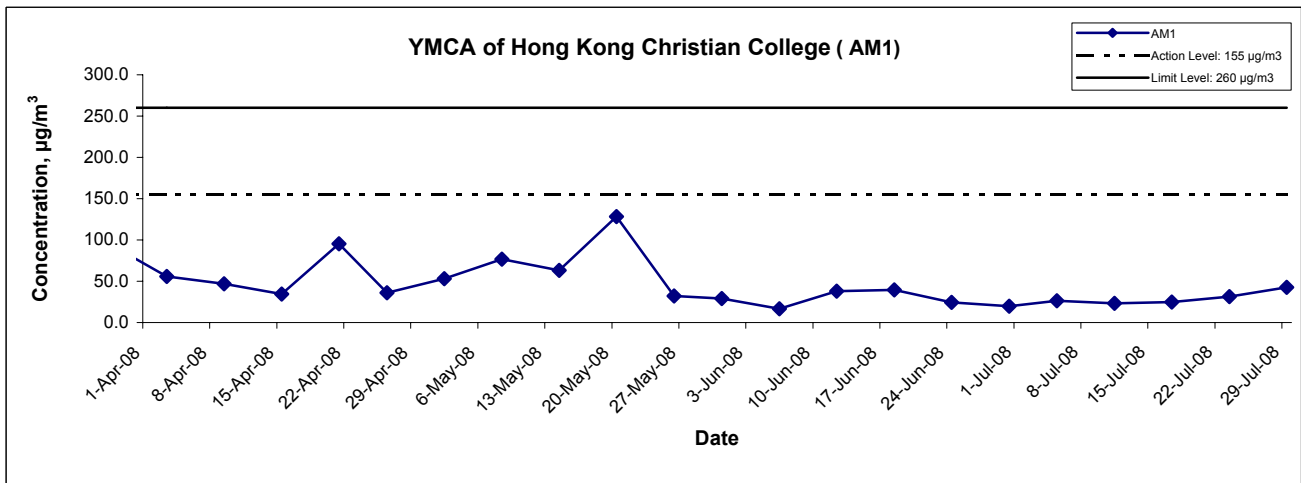
- (1) The noise limits shall be determined by EPD during the application of the construction noise permit (CNP).
- (2) Stated in the *“Environmental Monitoring and Audit Guidelines for Development Projects in Hong Kong”*, Appendix D2, Section 2.6, Table 2.1

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**

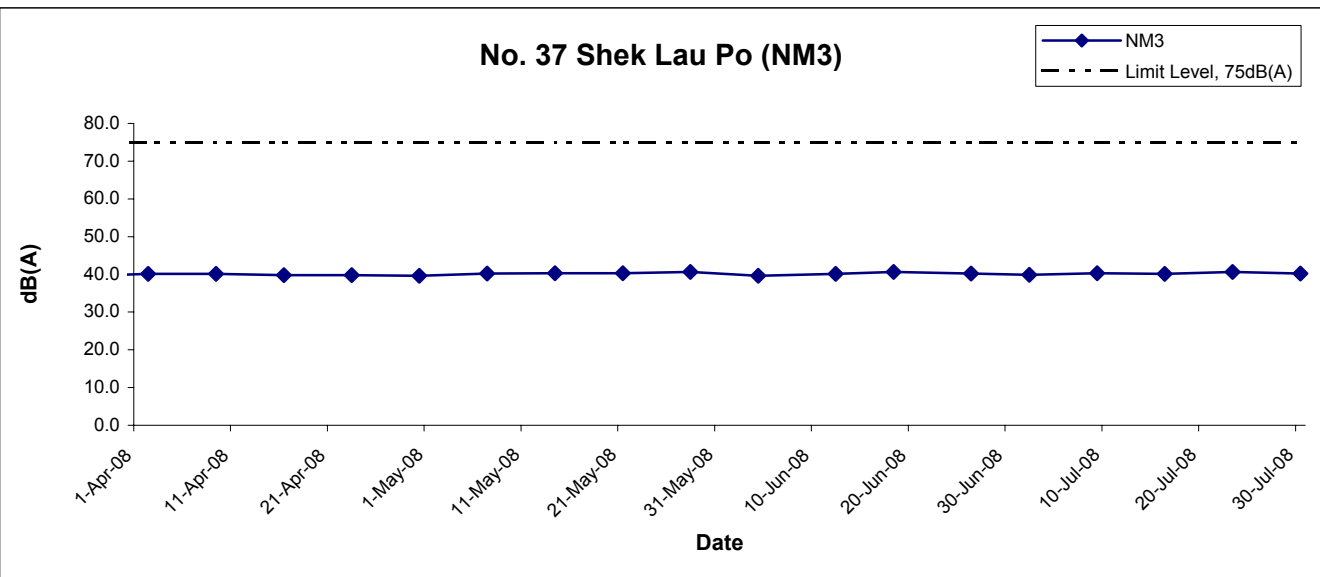
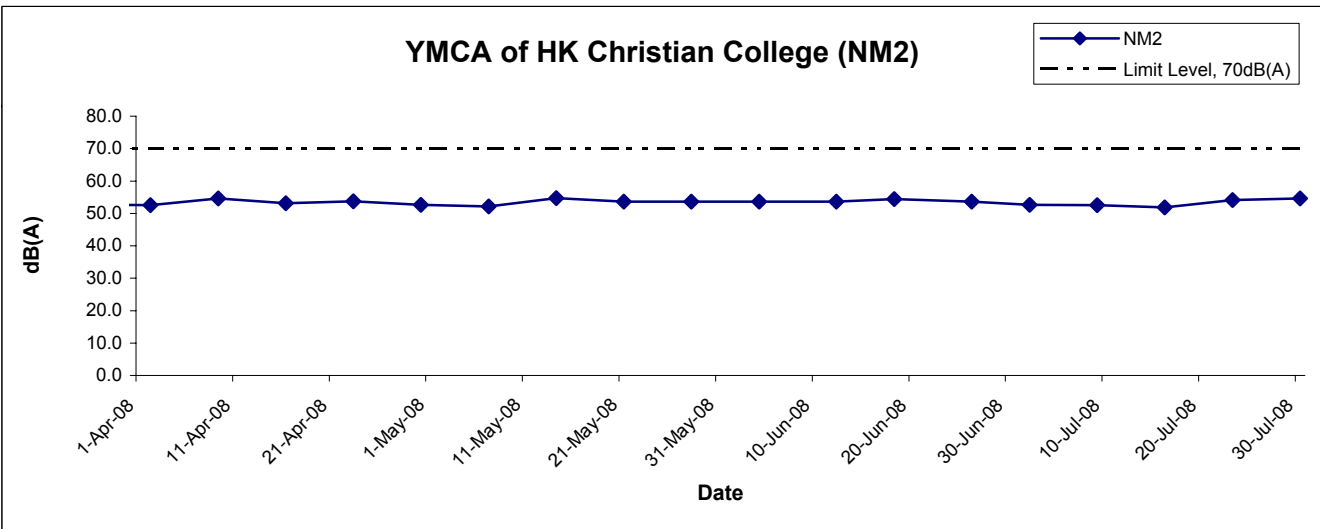
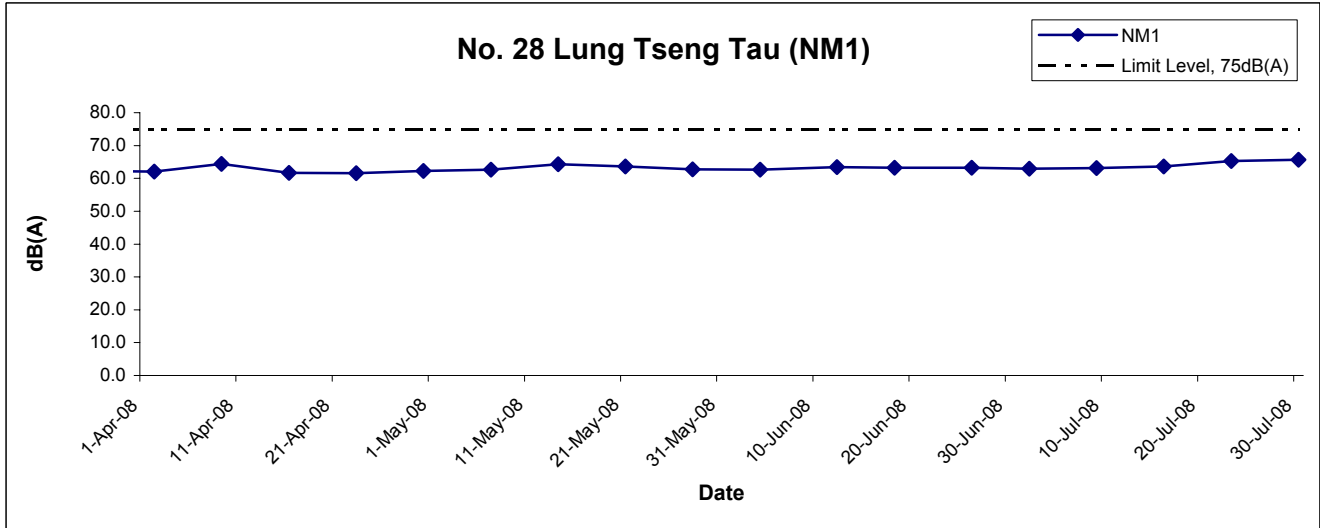
24-hour TSP Levels



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 Jul 08	Appendix D	

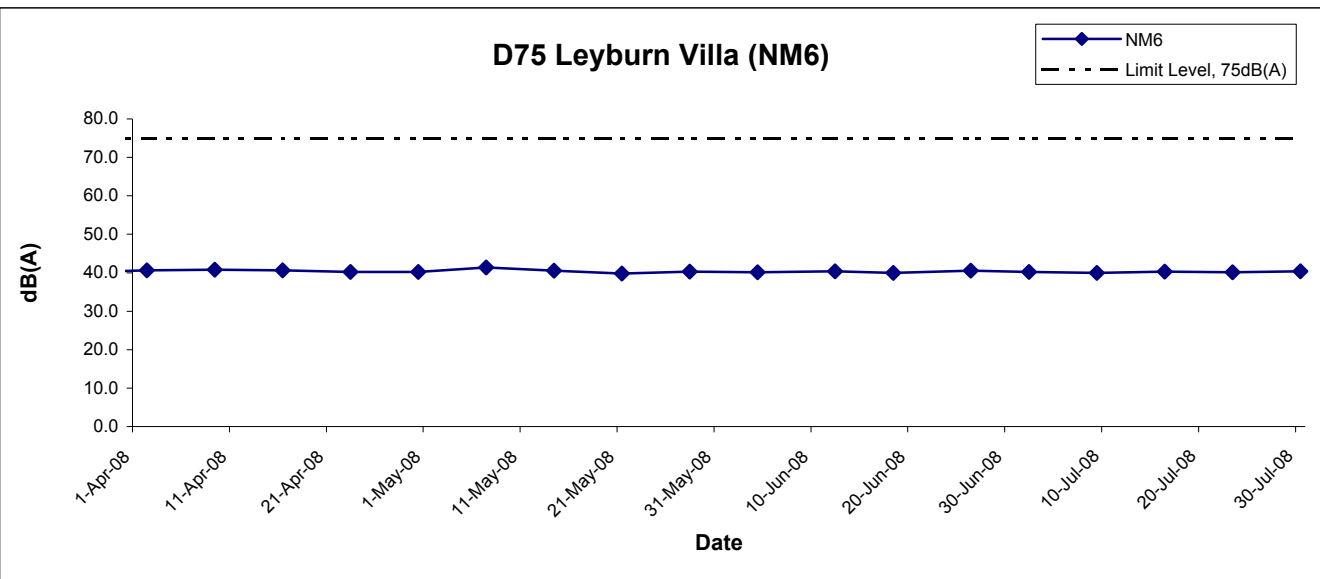
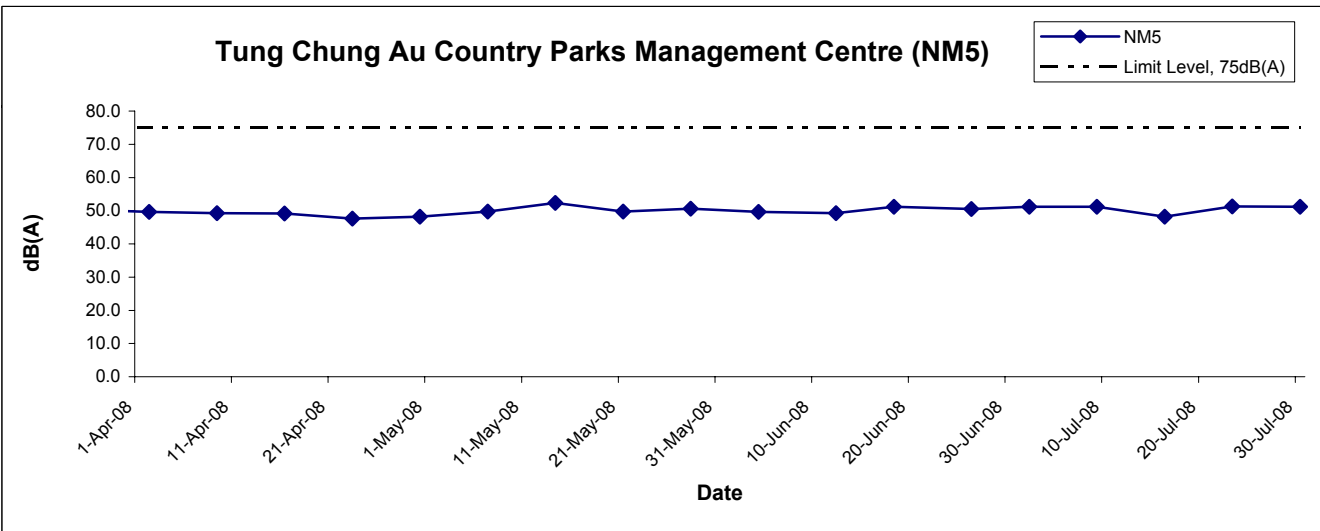
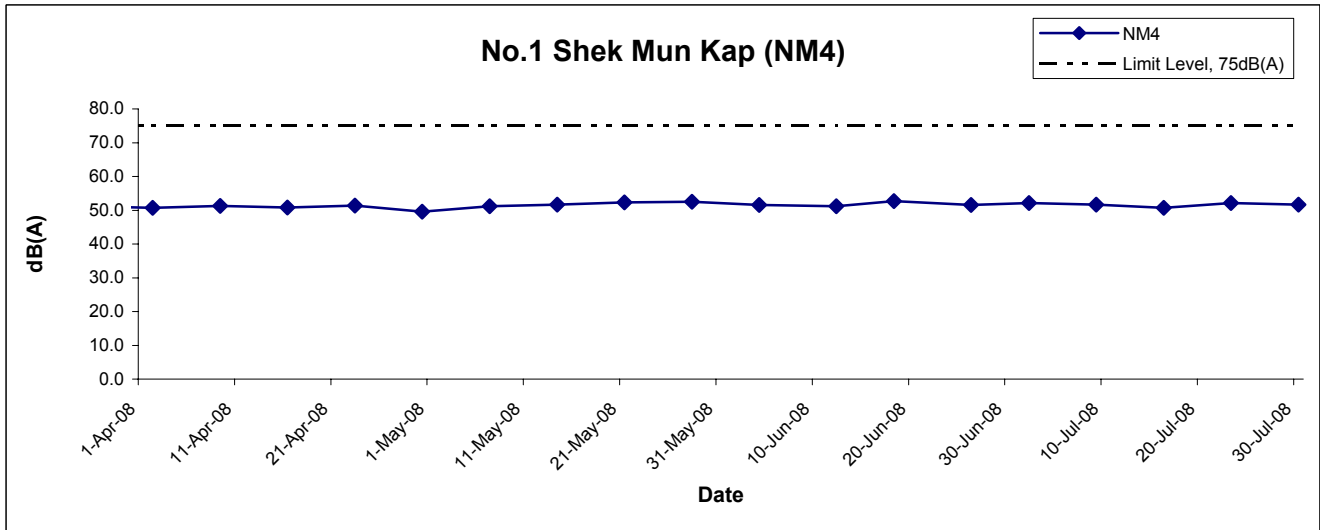
**APPENDIX E
GRAPHICAL PRESENTATION OF
NOISE MONITORING RESULTS**

Noise Levels



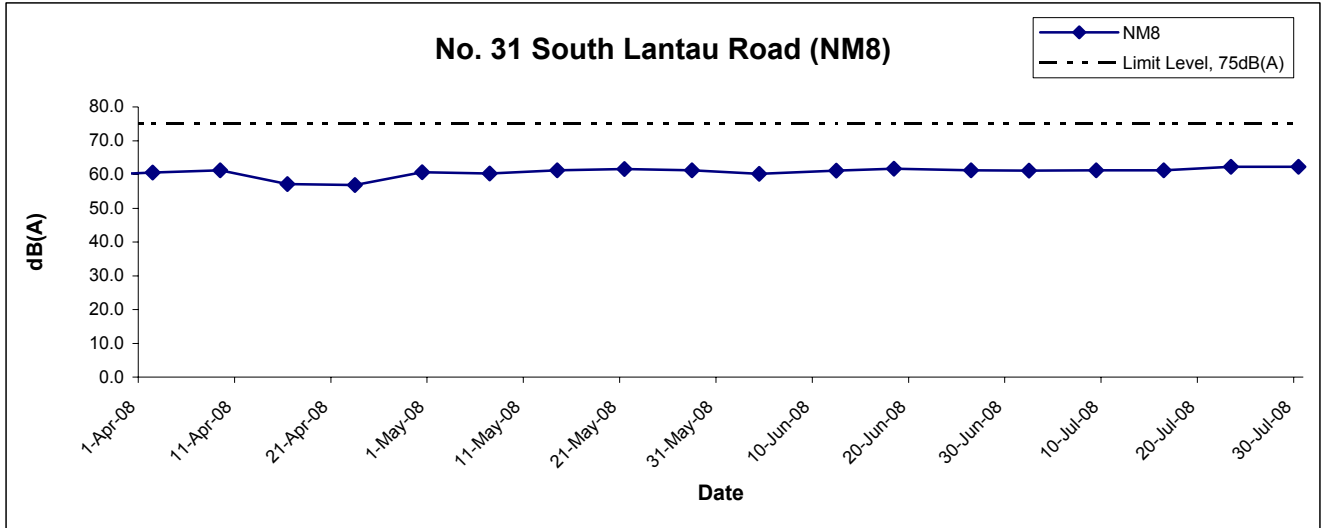
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Construction Noise Monitoring Results	Scale N.T.S	Project No. MA6030	
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Noise Levels



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 Jul 08	Appendix E	

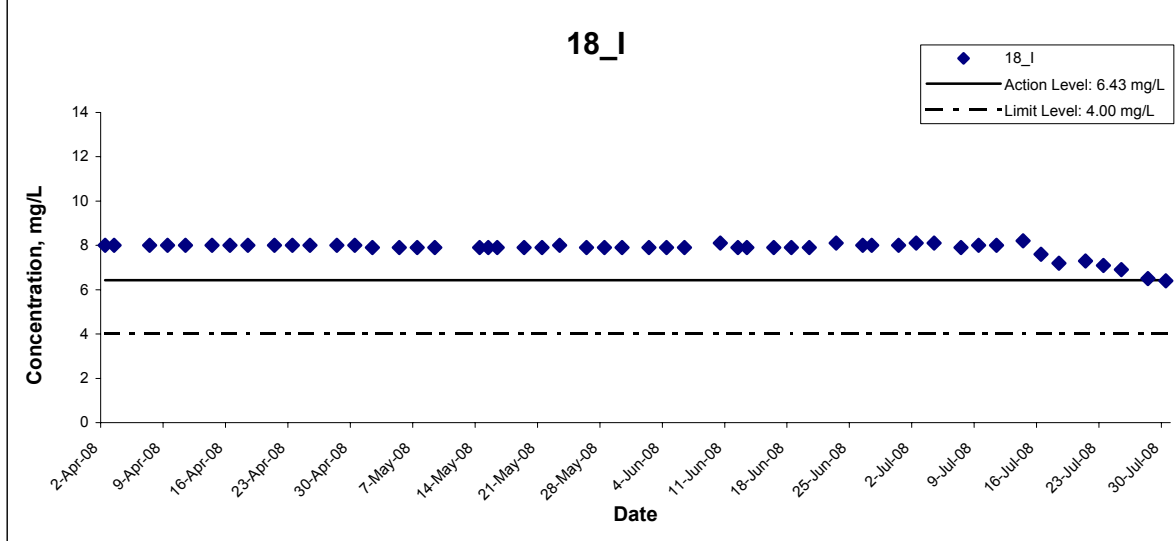
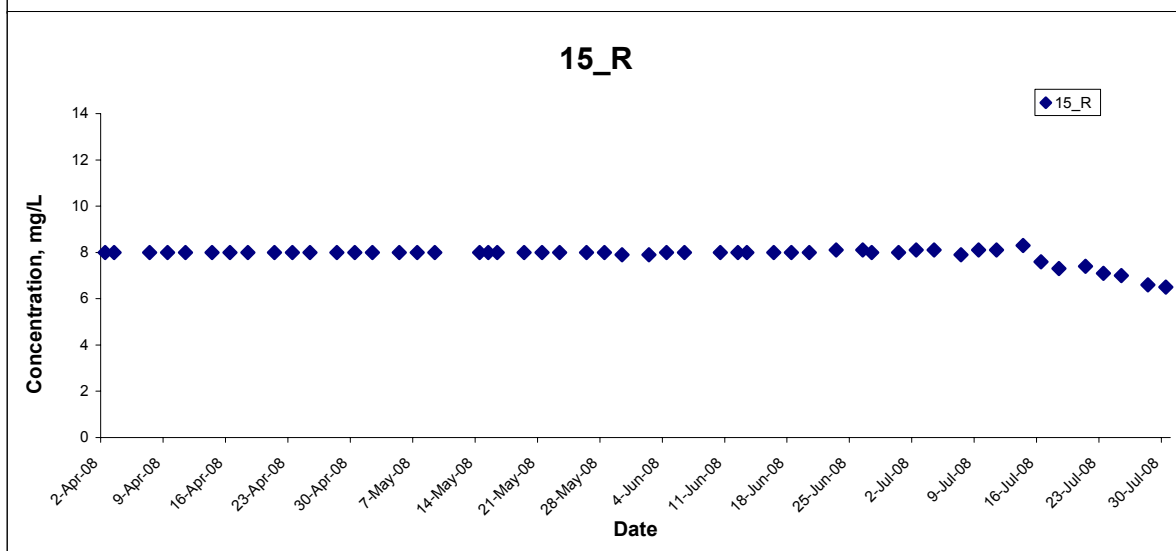
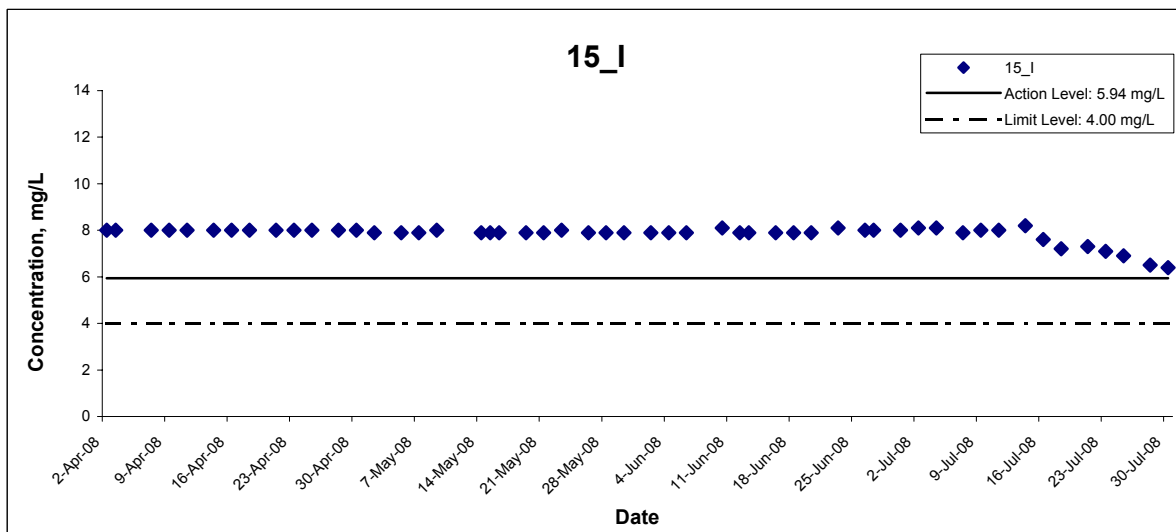
Noise Levels



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 Jul 08	Appendix E	

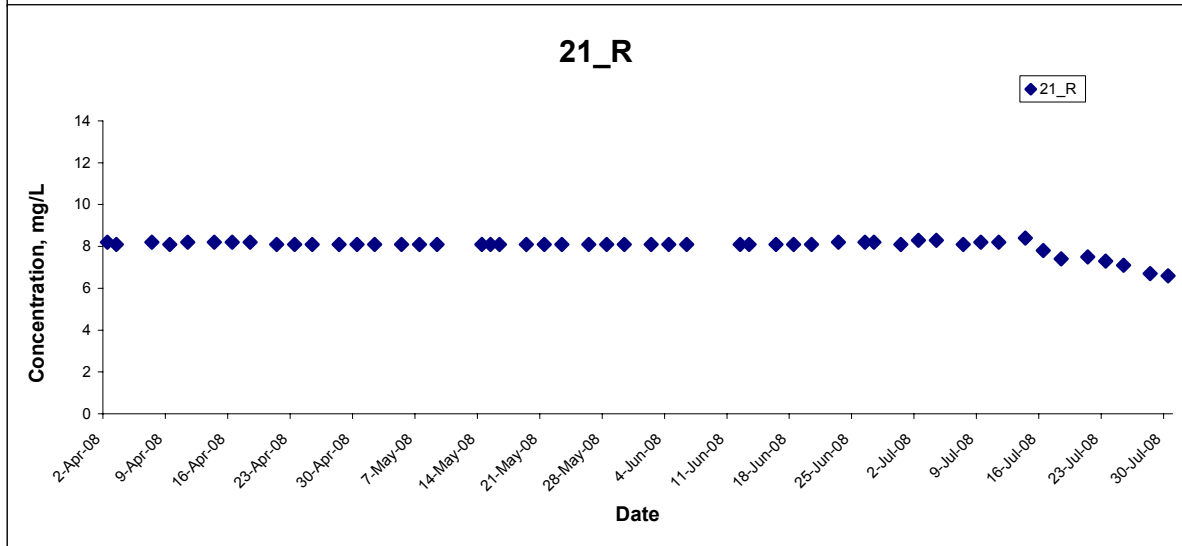
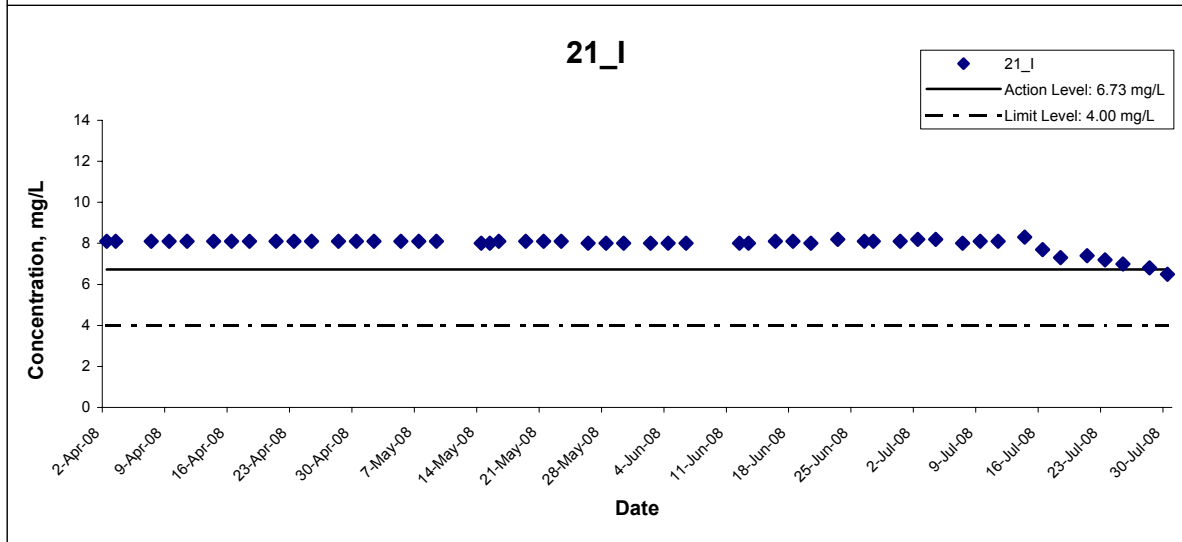
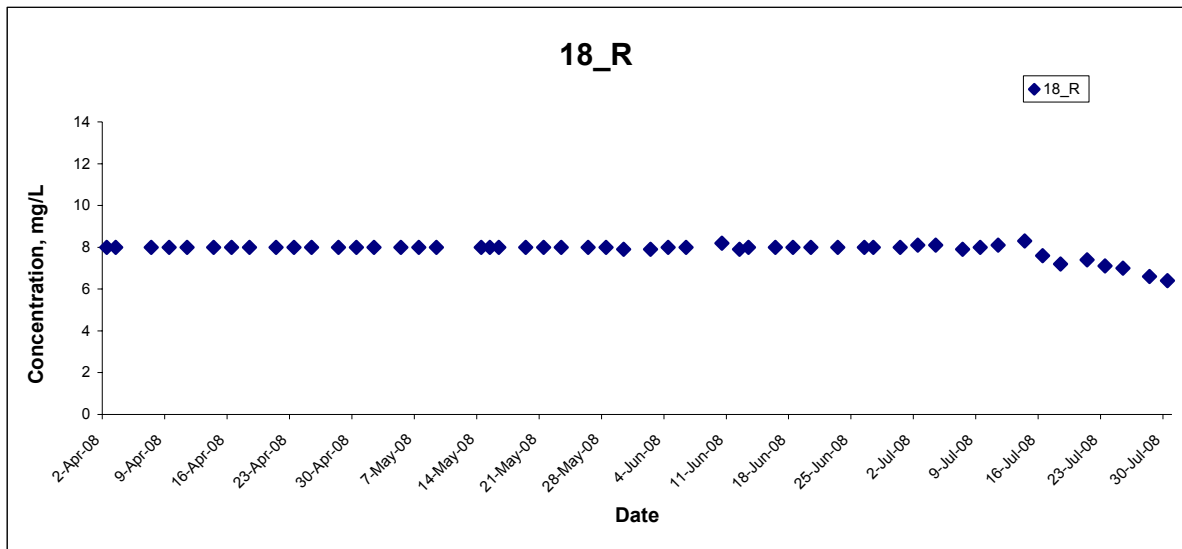
**APPENDIX F
GRAPHICAL PRESENTATION OF
WATER QUALITY MONITORING
RESULTS**

Dissolved Oxygen



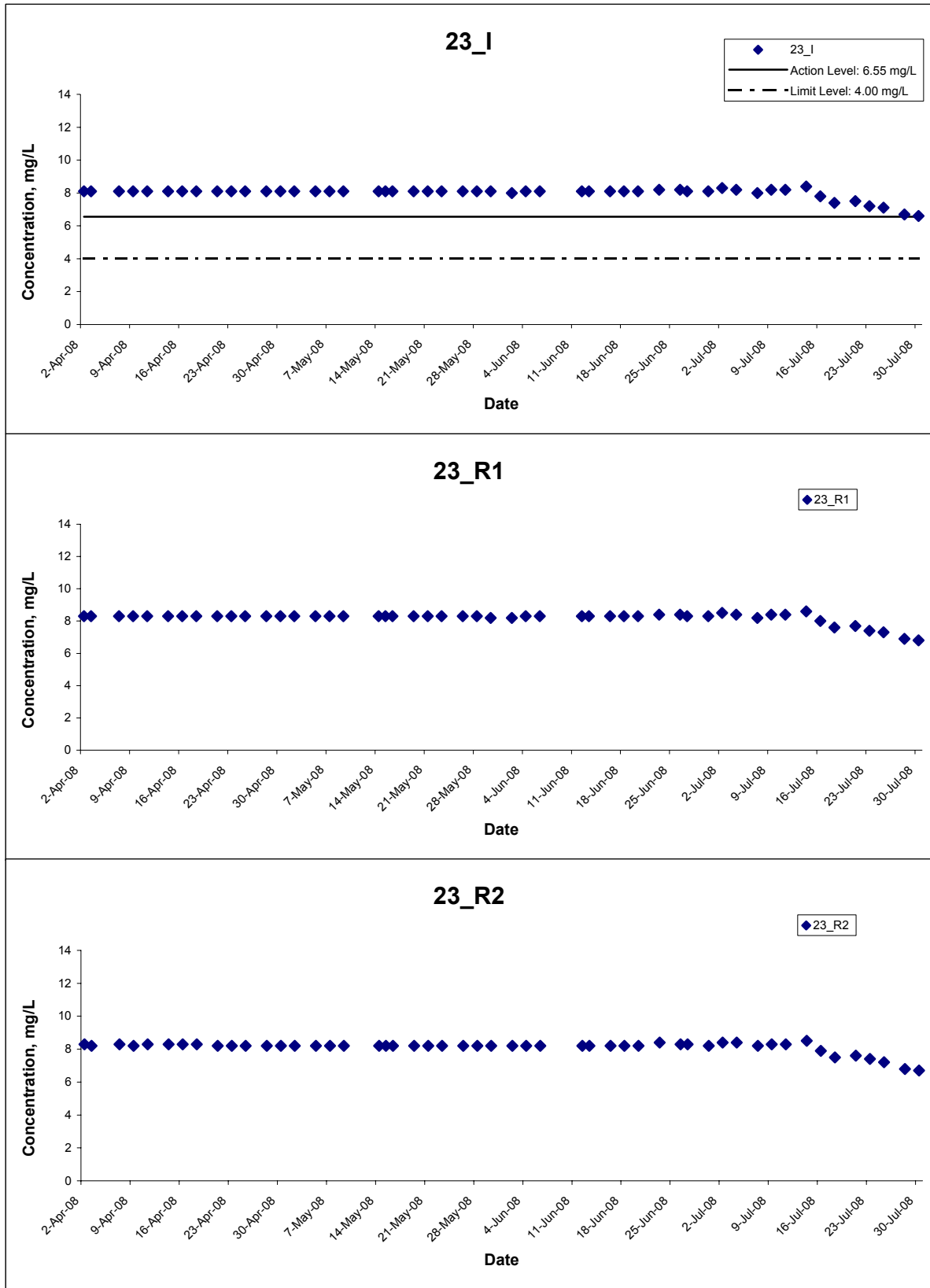
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	
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Dissolved Oxygen



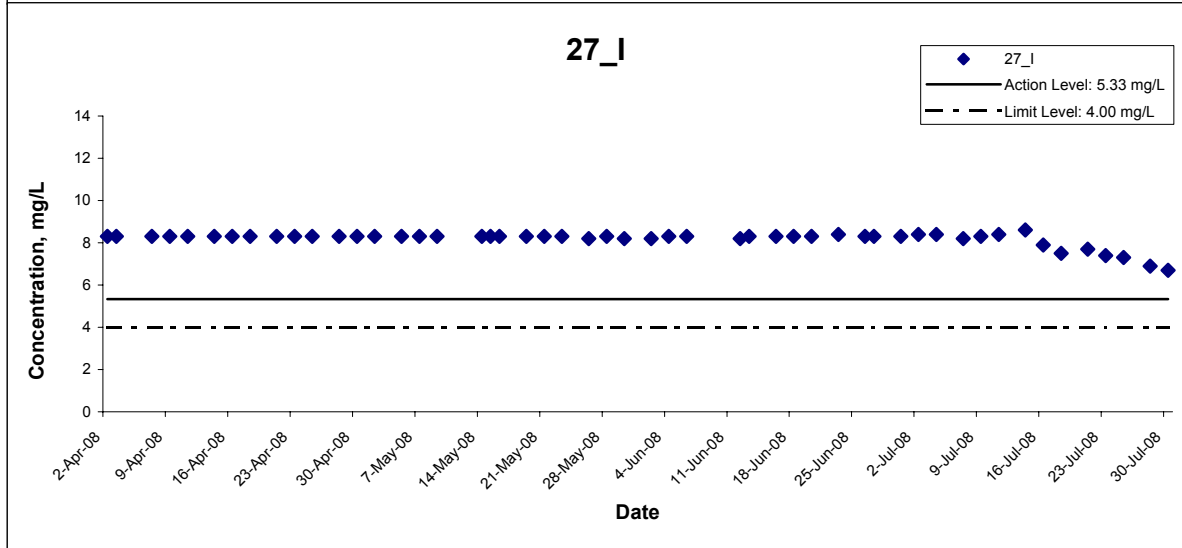
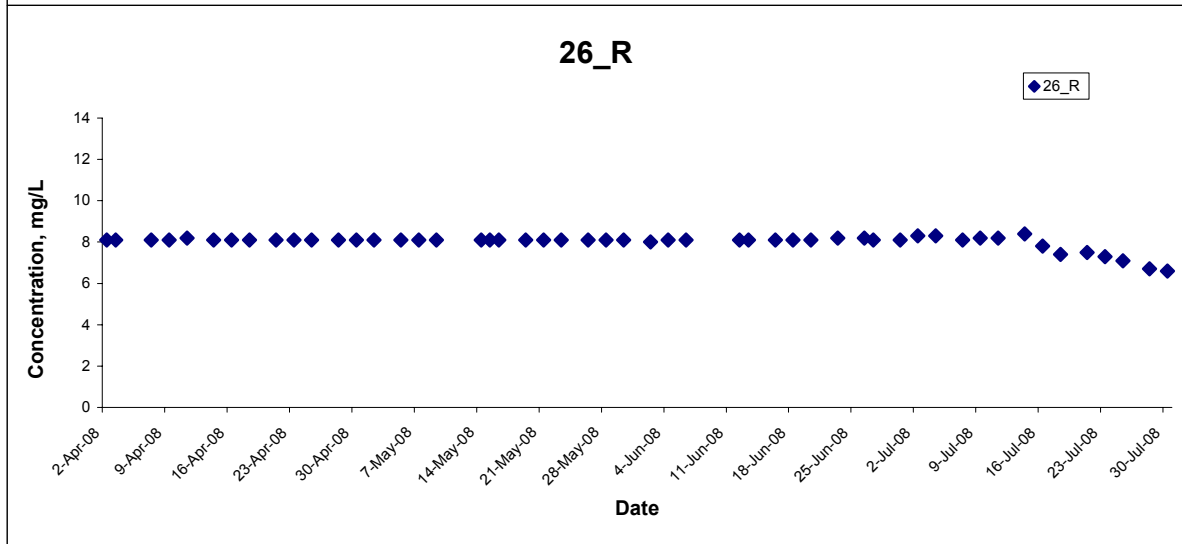
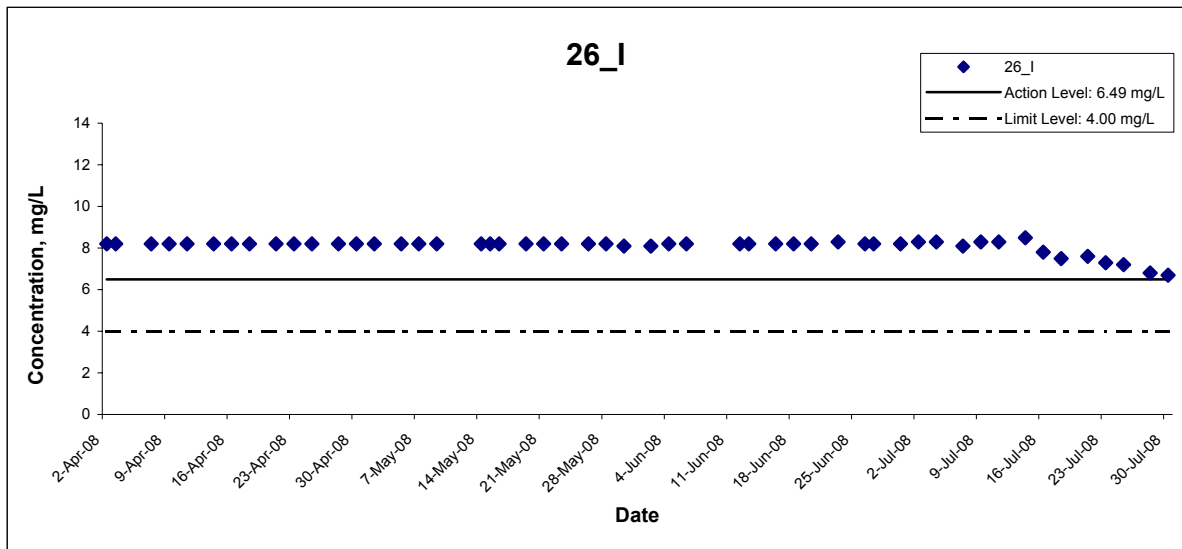
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	CINOTECH
	Date Jul 08	Appendix F	

Dissolved Oxygen



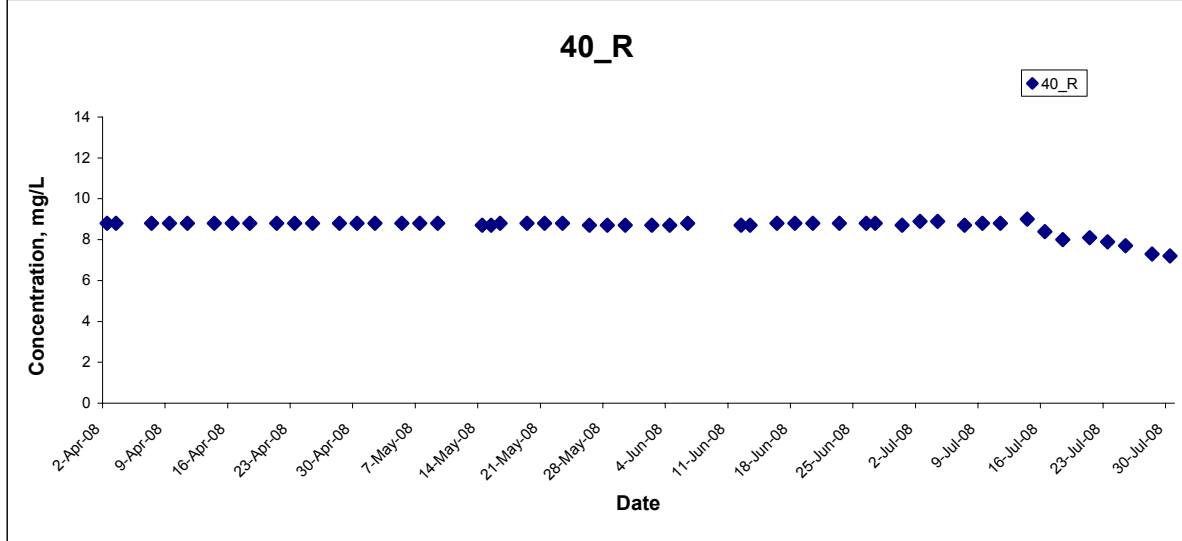
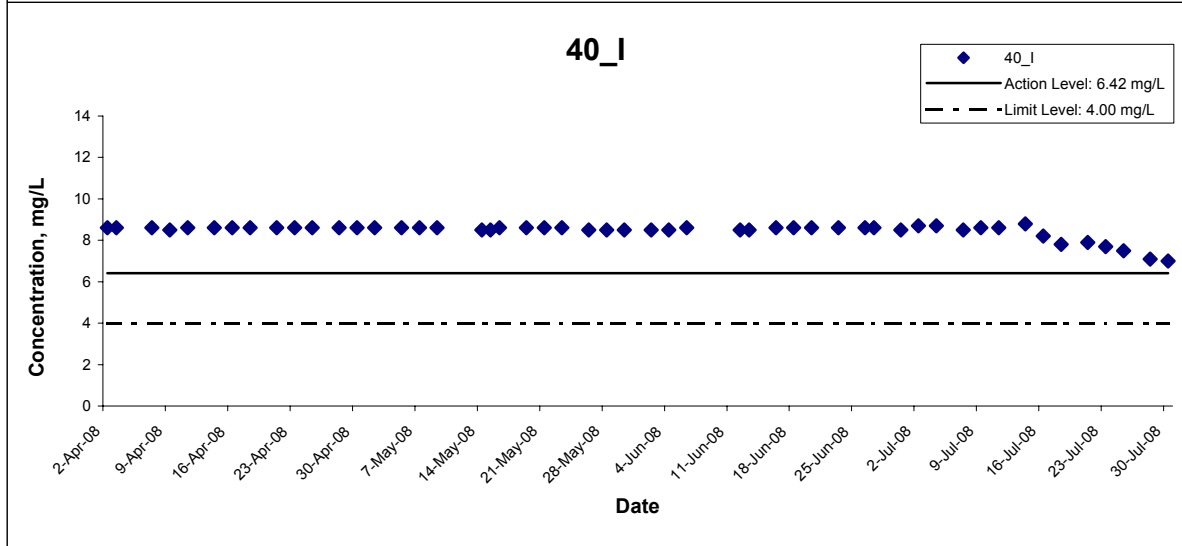
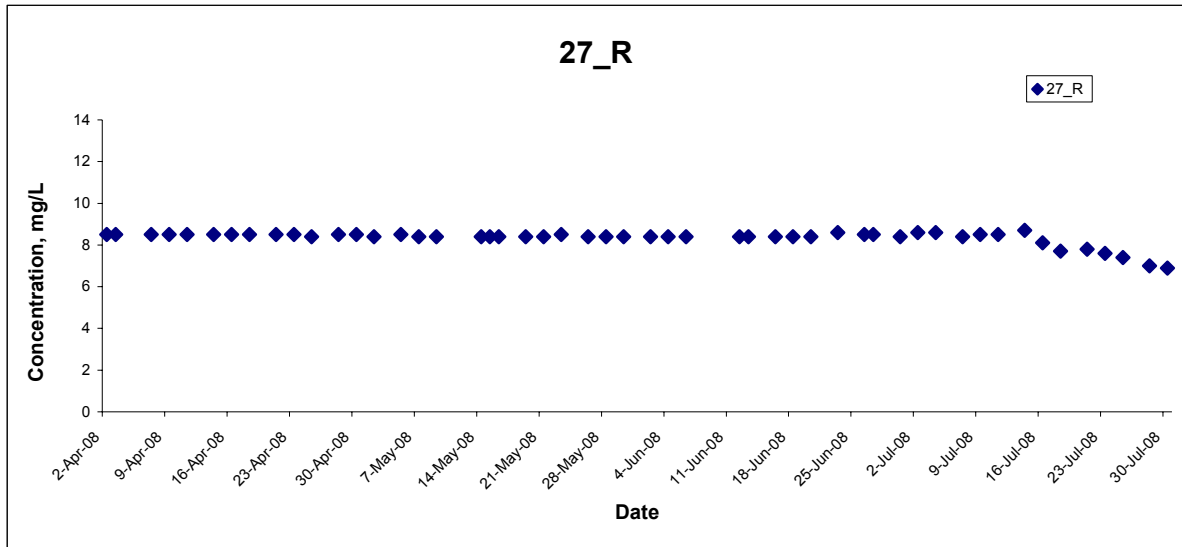
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	Date	Jul 08	Appendix F	

Dissolved Oxygen



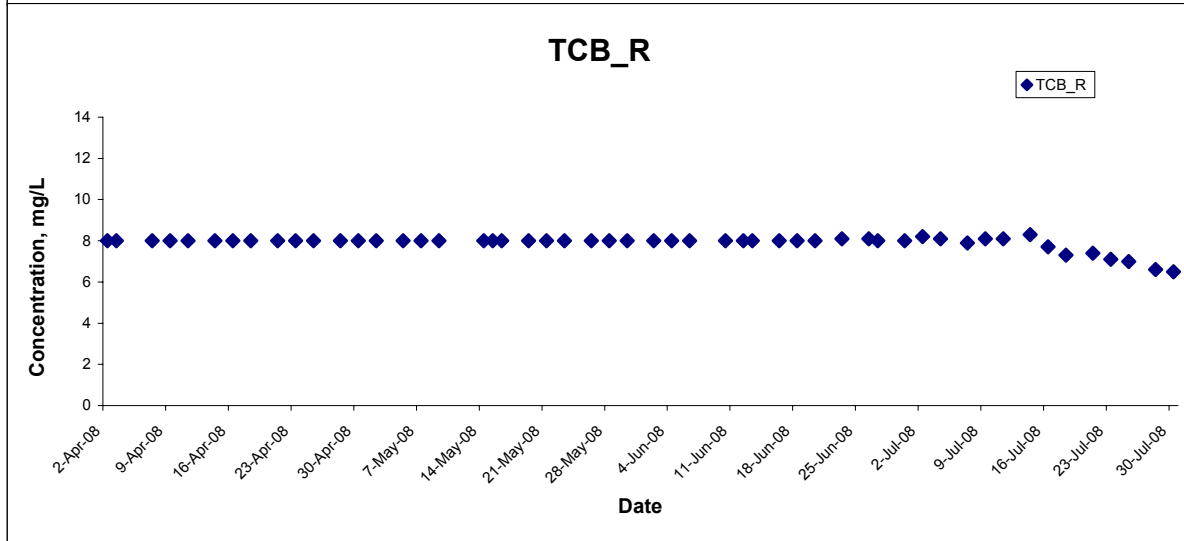
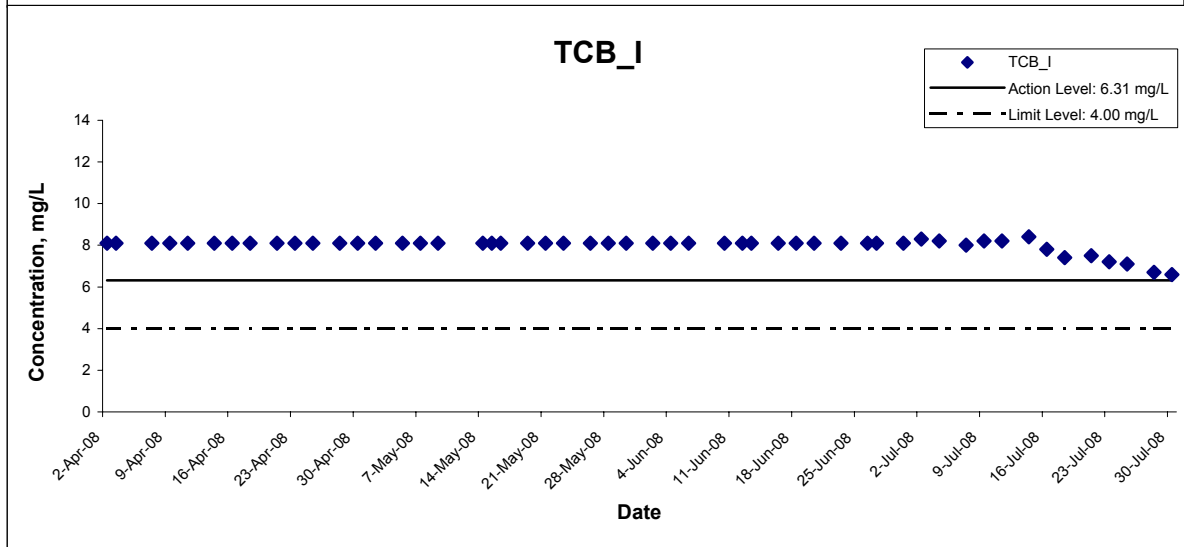
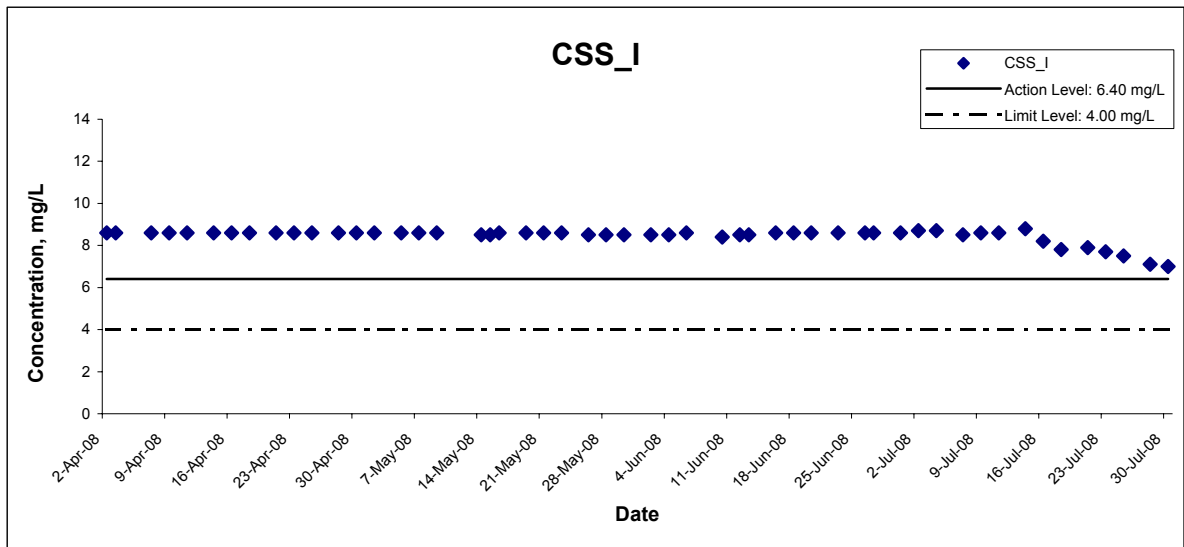
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Dissolved Oxygen



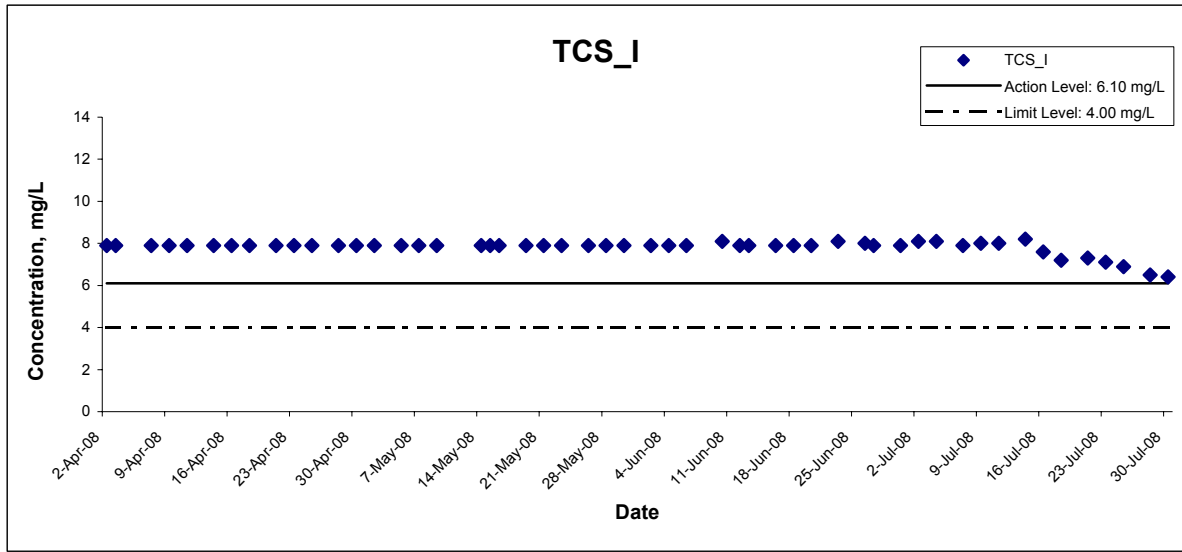
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Dissolved Oxygen



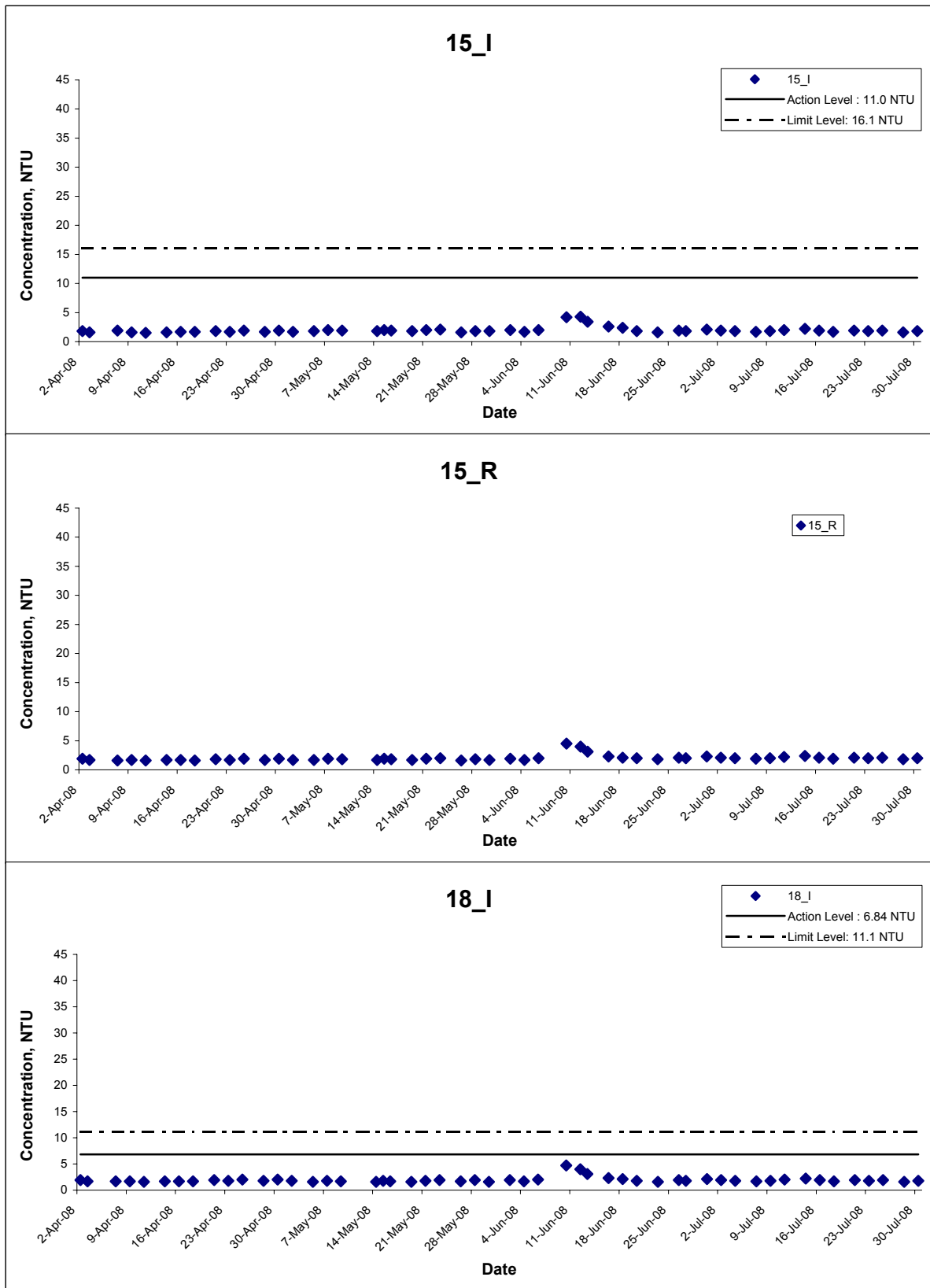
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	Date Jul 08	Appendix F	

Dissolved Oxygen



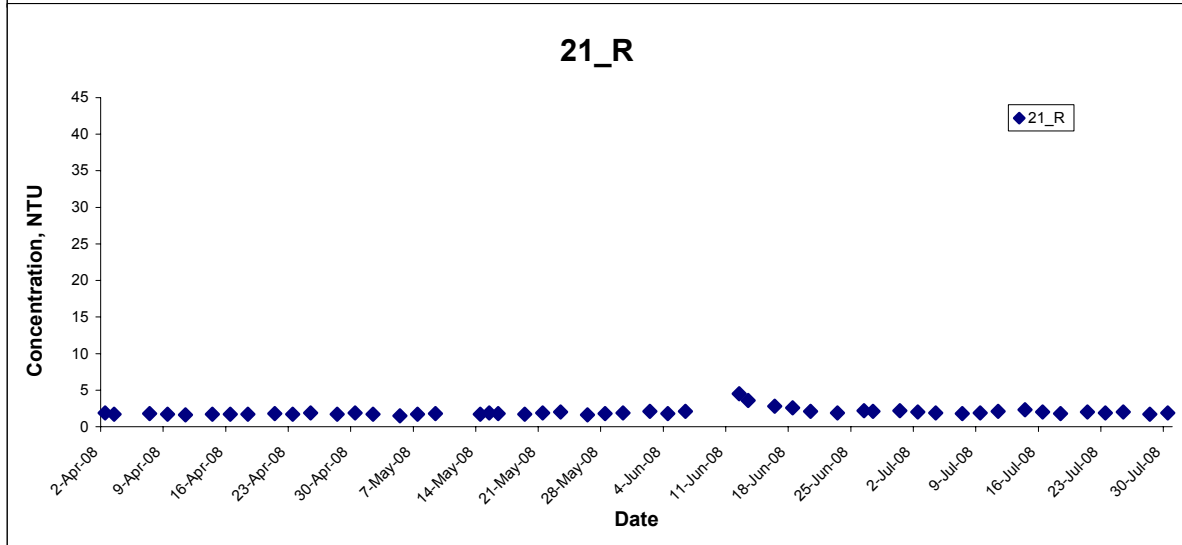
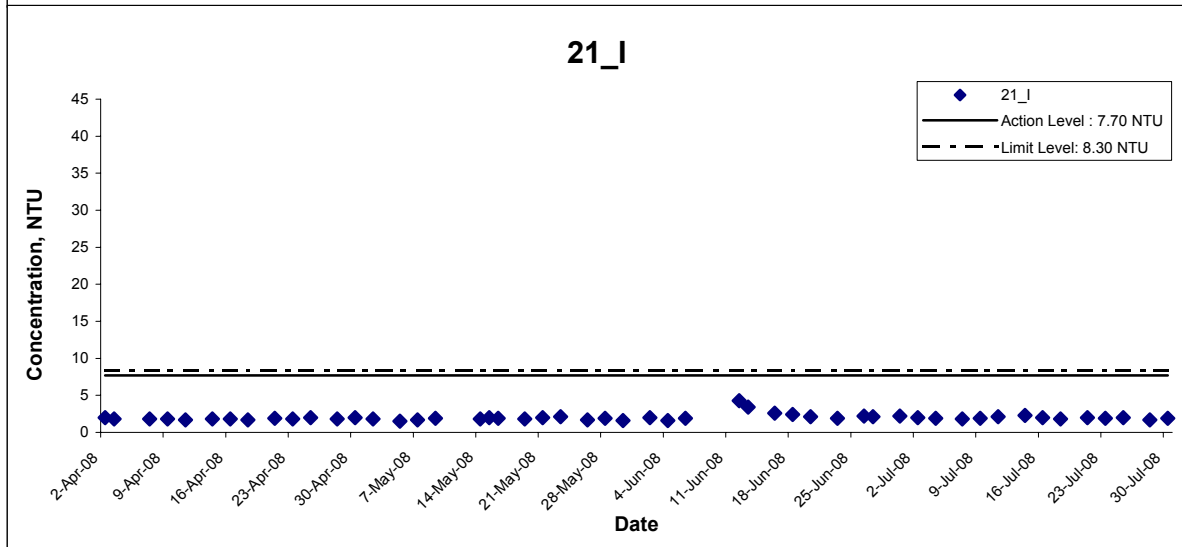
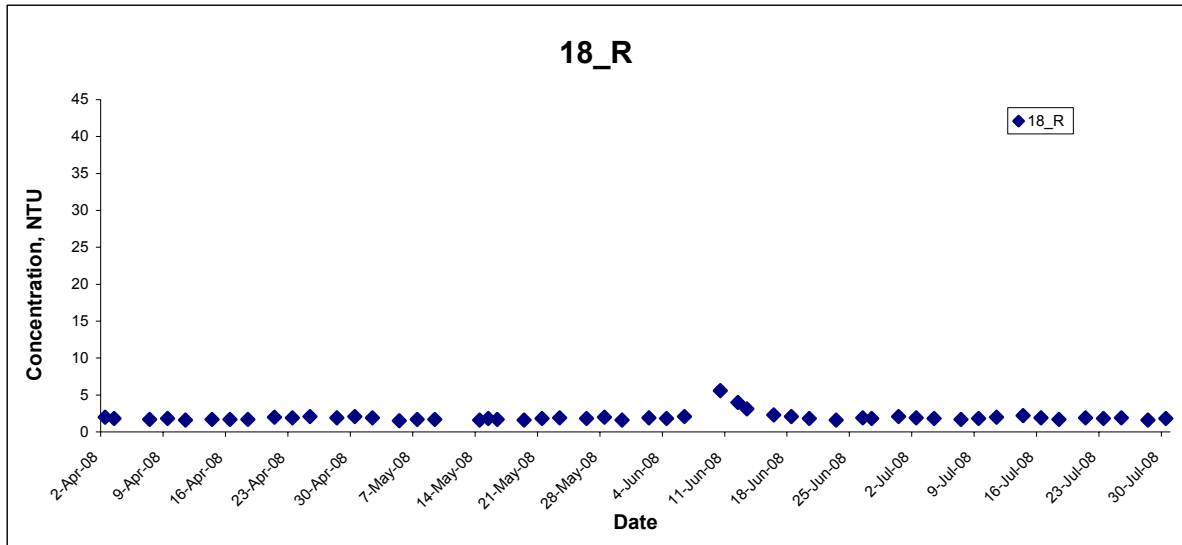
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	Date Jul 08	Appendix F	

Turbidity



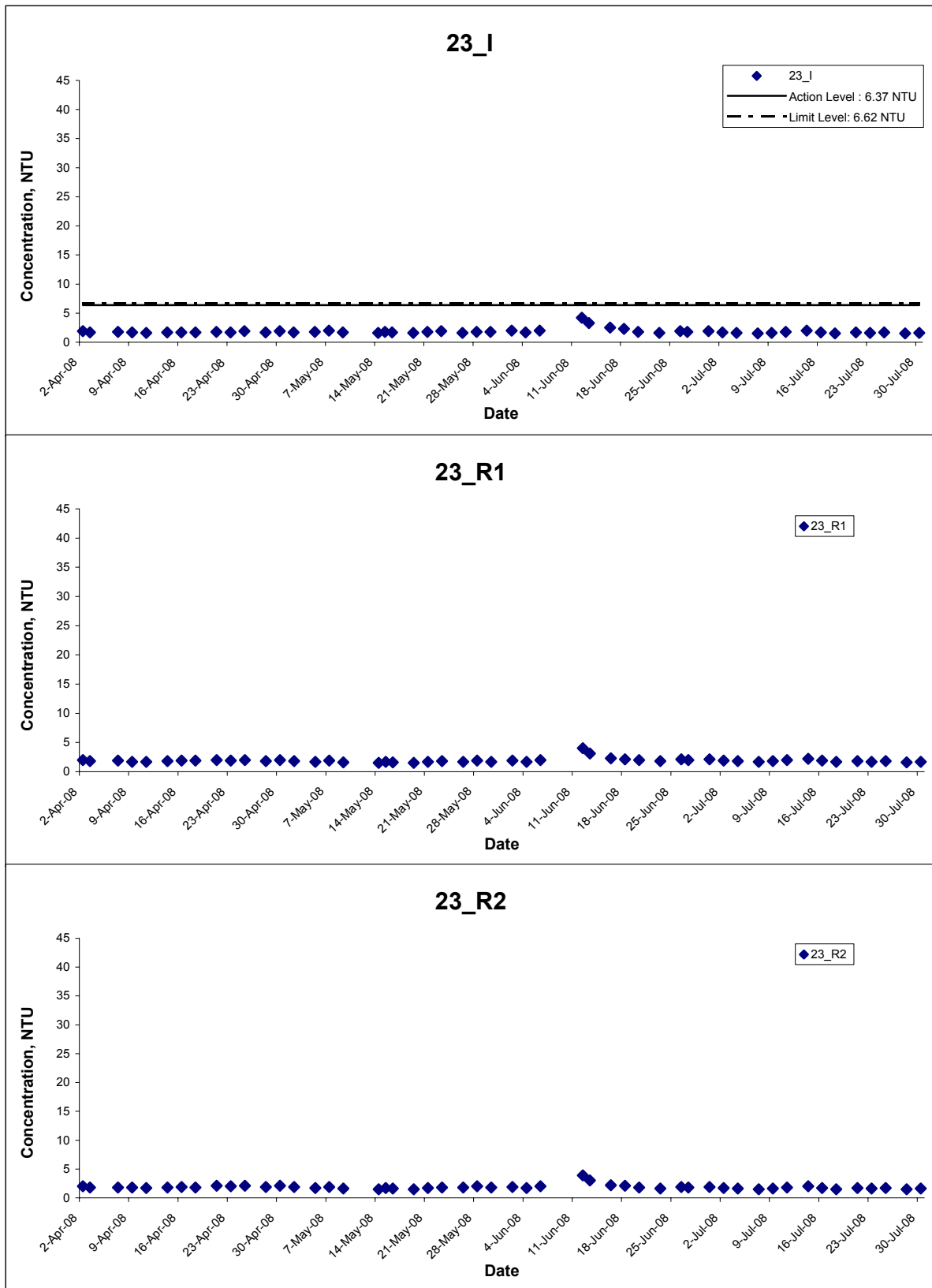
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Turbidity



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	
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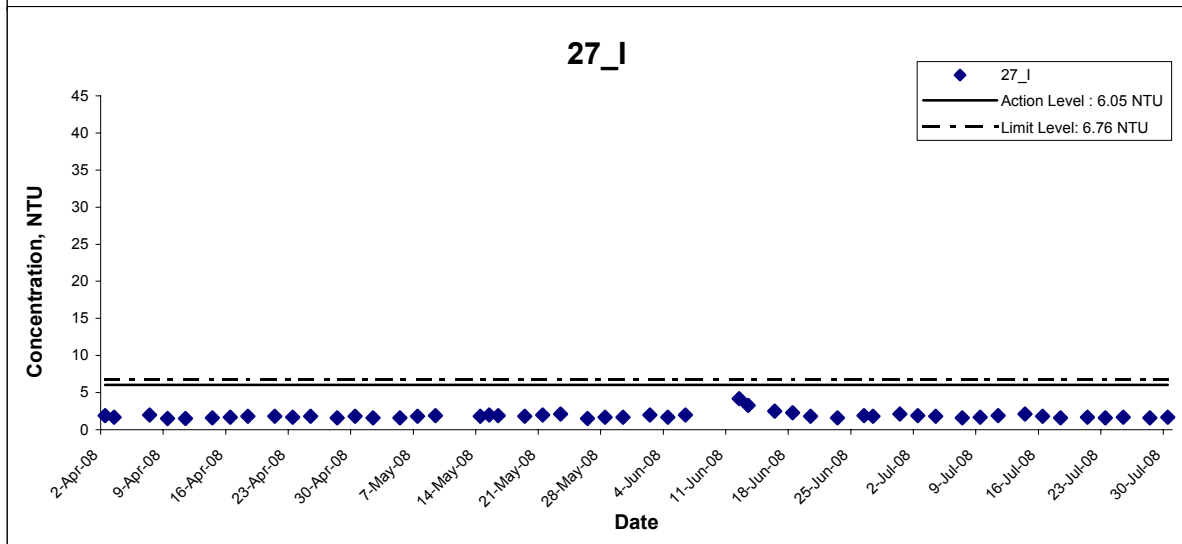
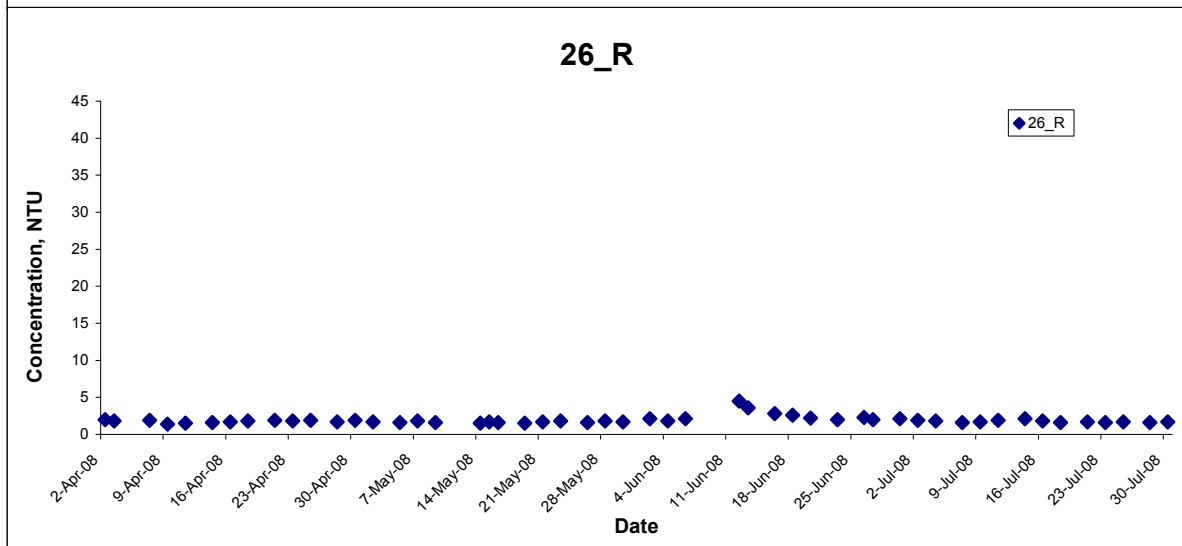
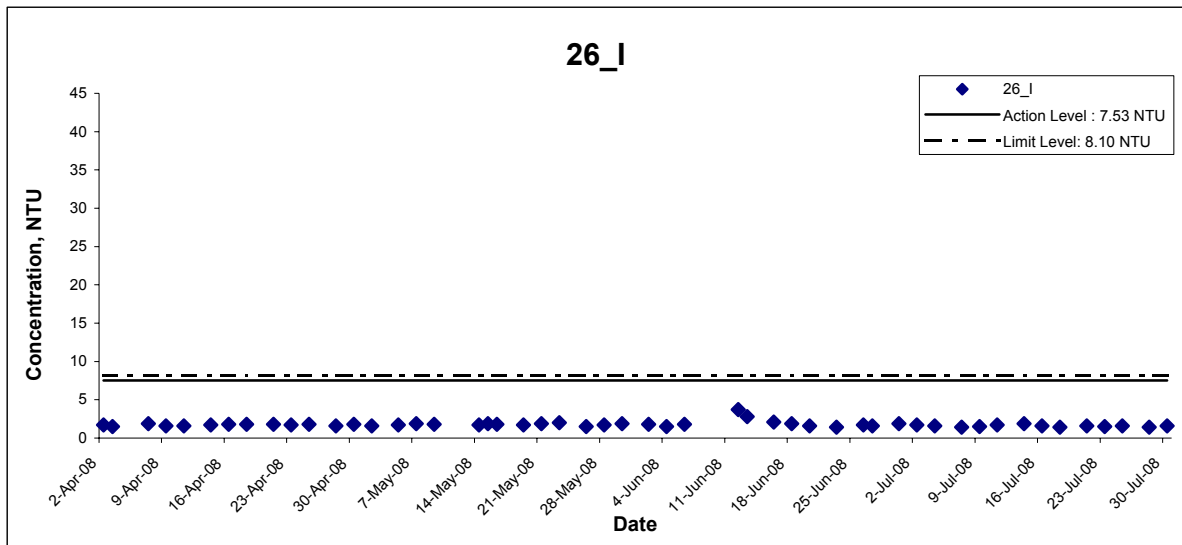
Turbidity



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	Date	Jul 08	Appendix	F

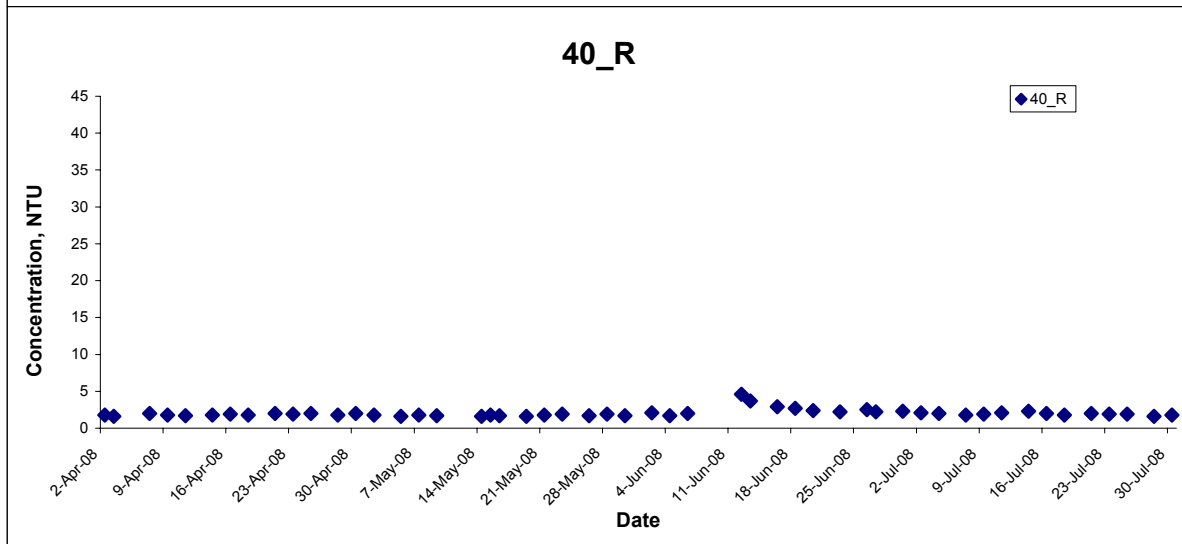
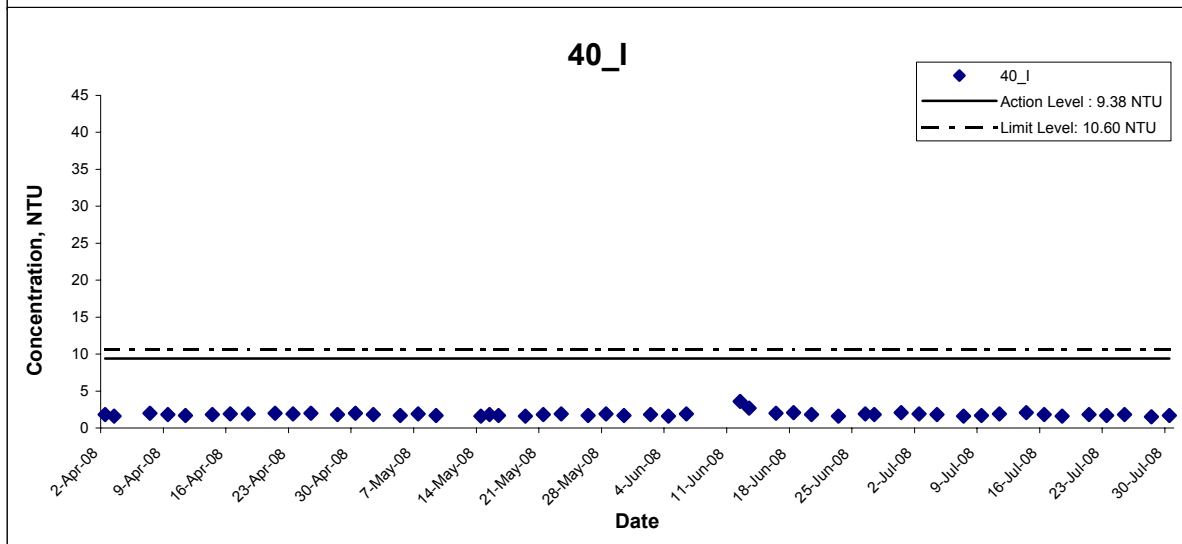
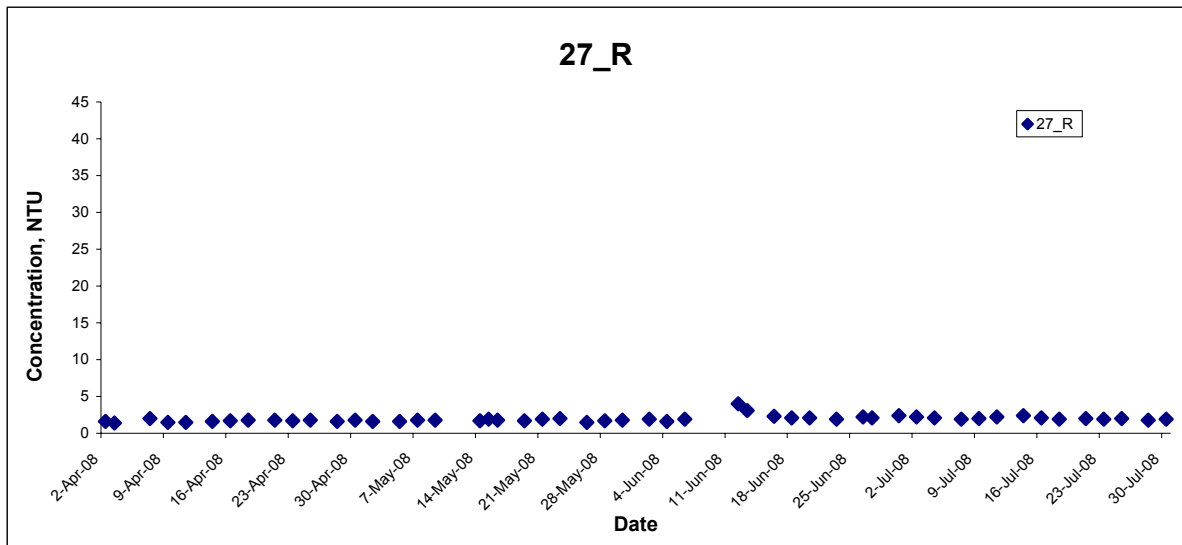


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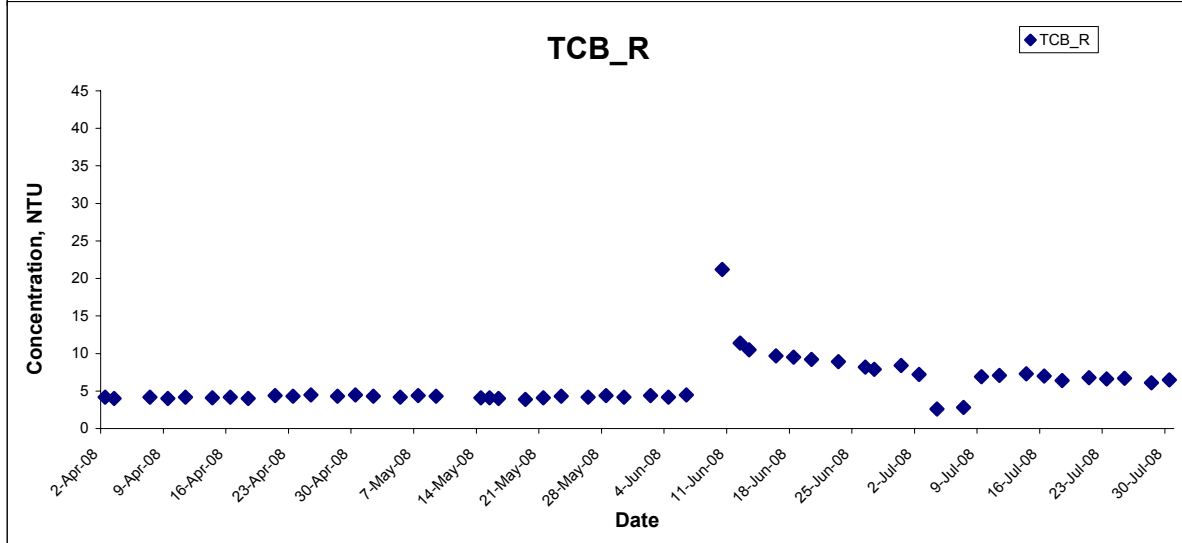
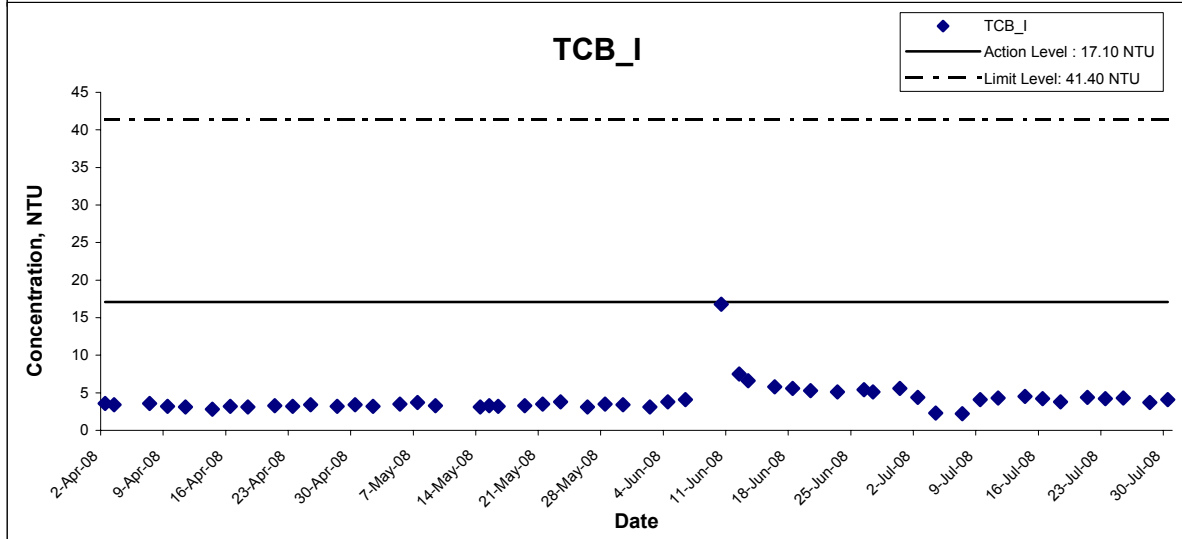
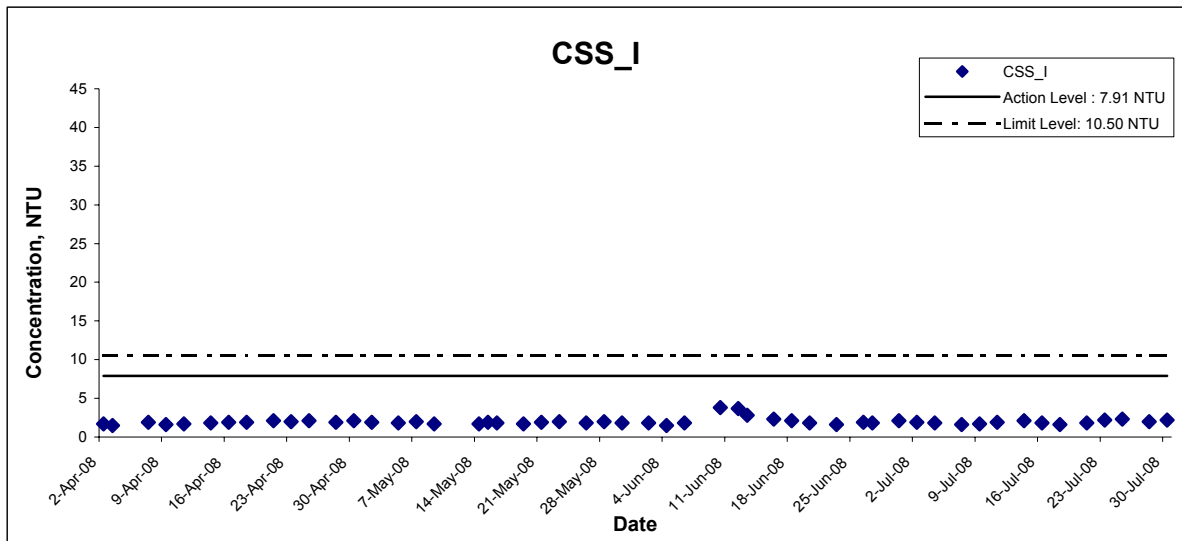
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	Date Jul 08	Appendix F	

Turbidity



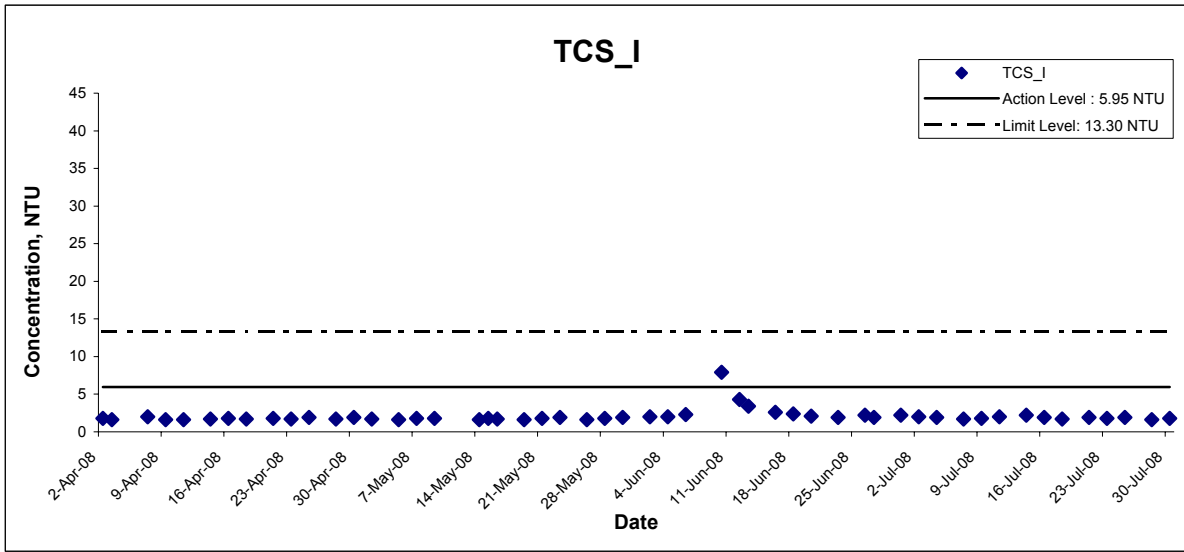
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Turbidity



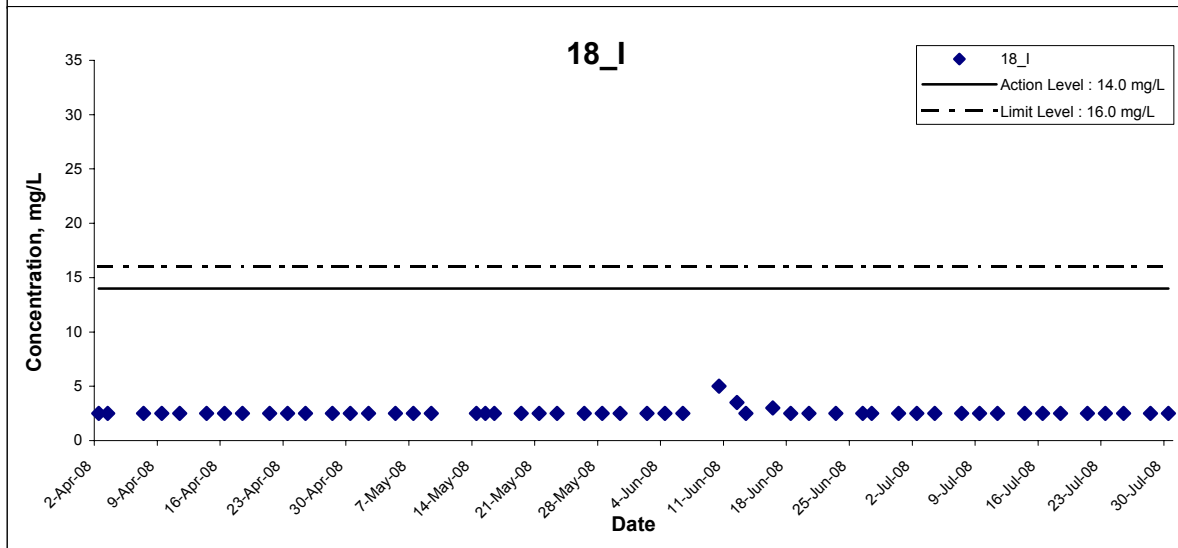
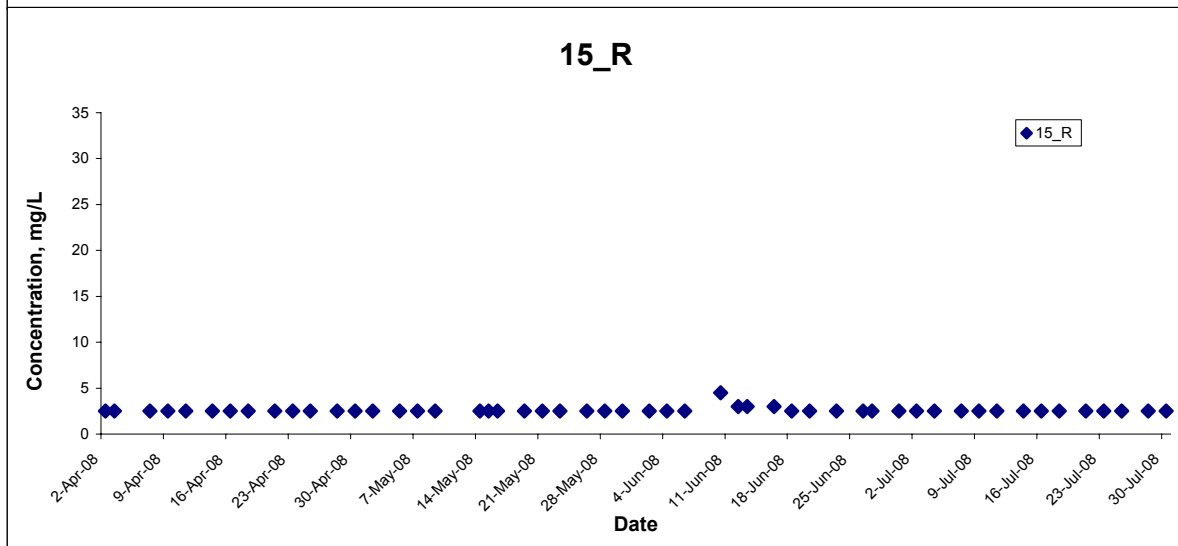
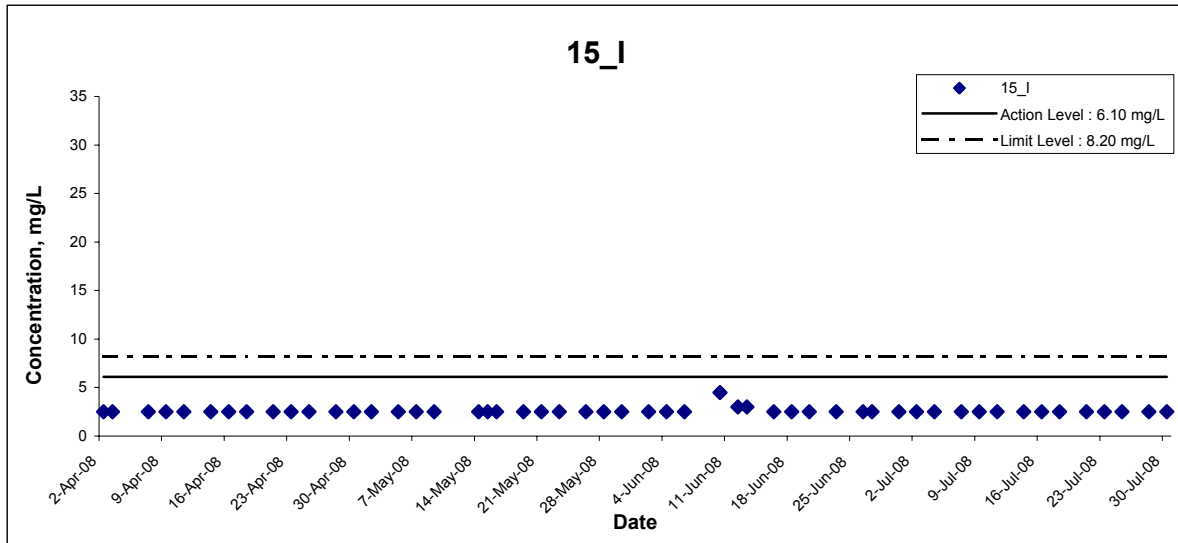
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Turbidity



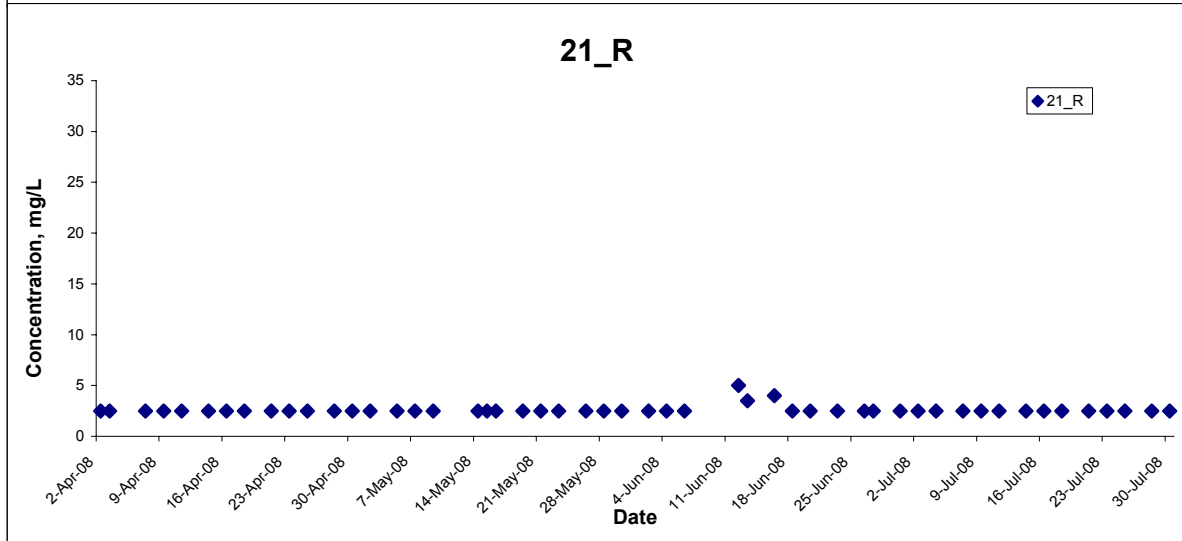
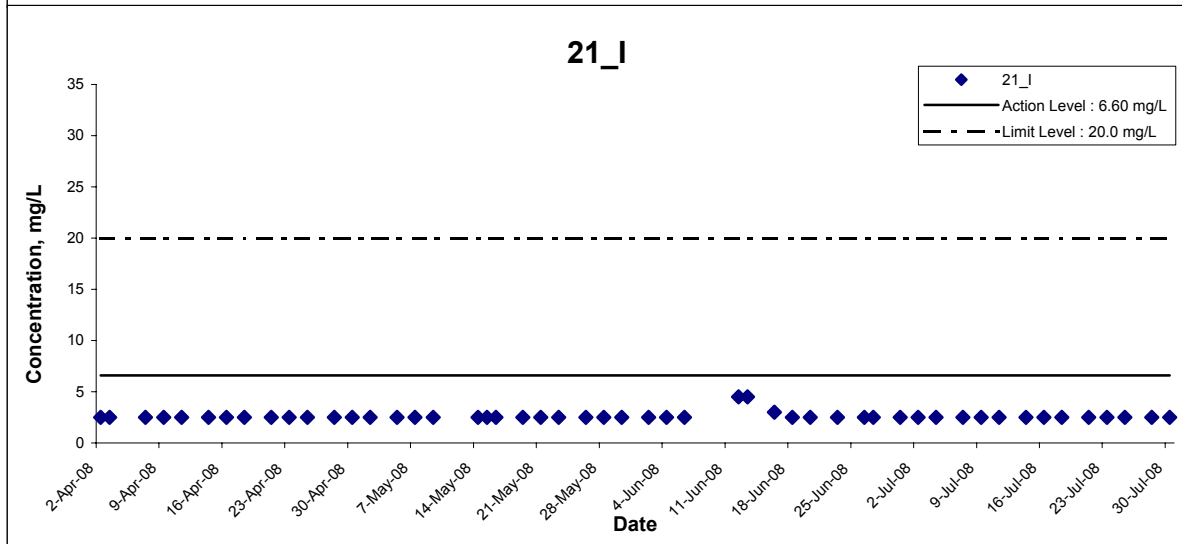
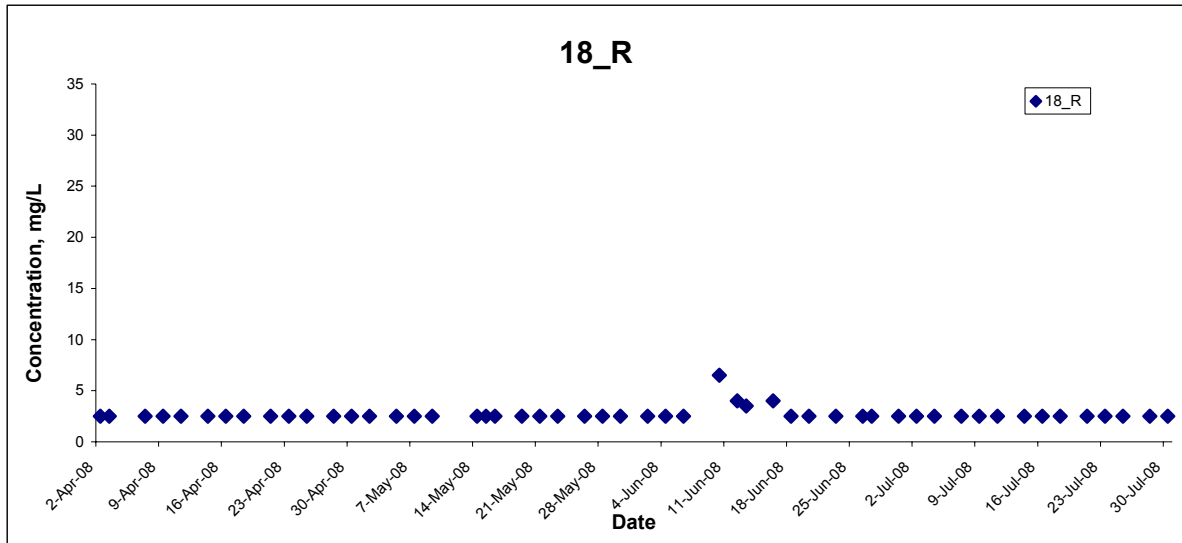
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Suspended Solids



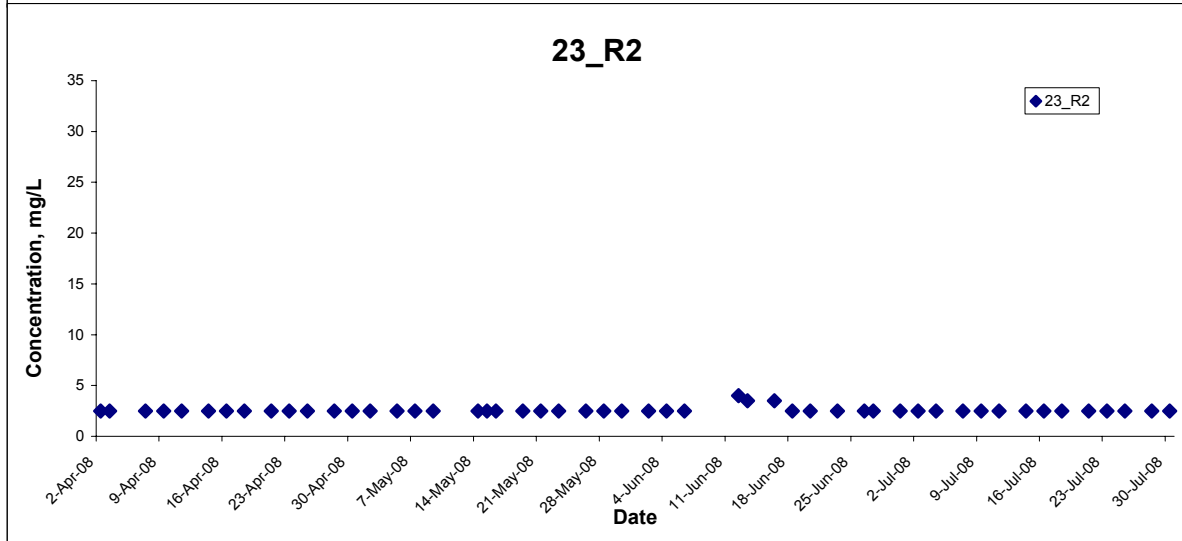
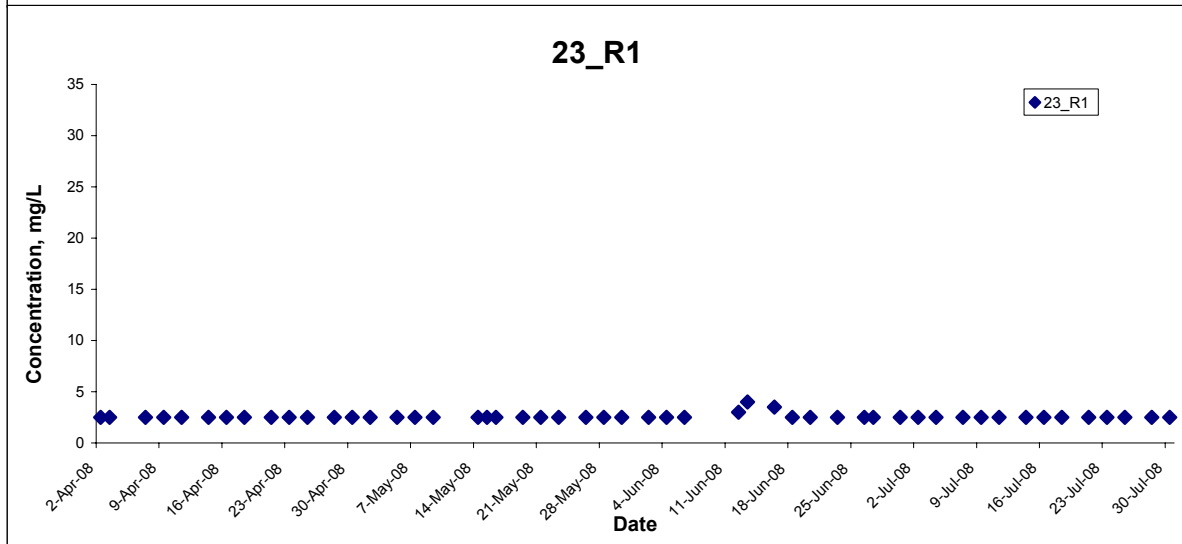
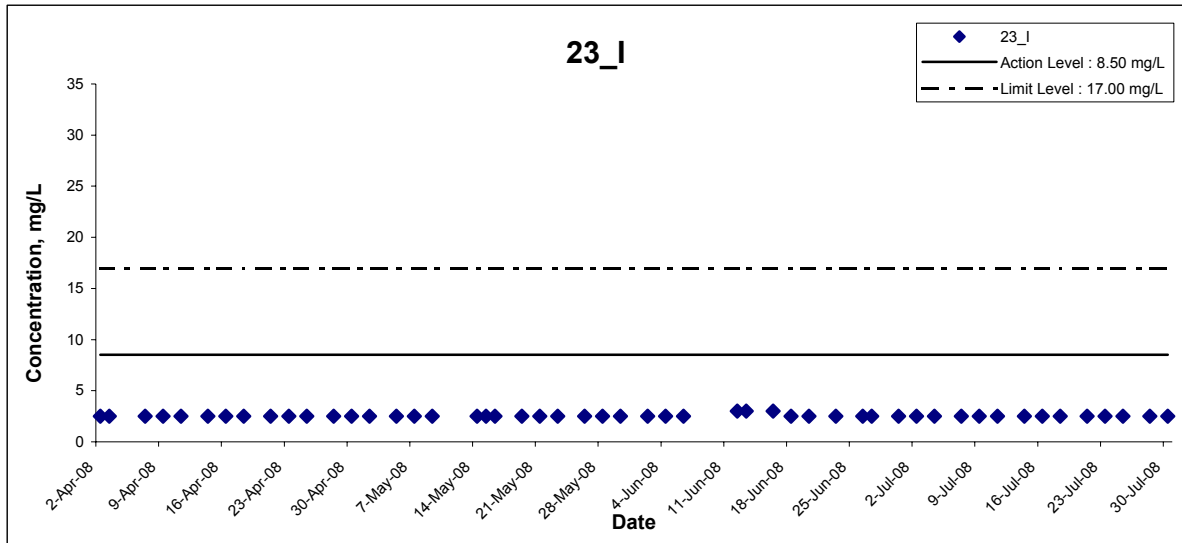
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	Date Jul 08	Appendix F	

Suspended Solids



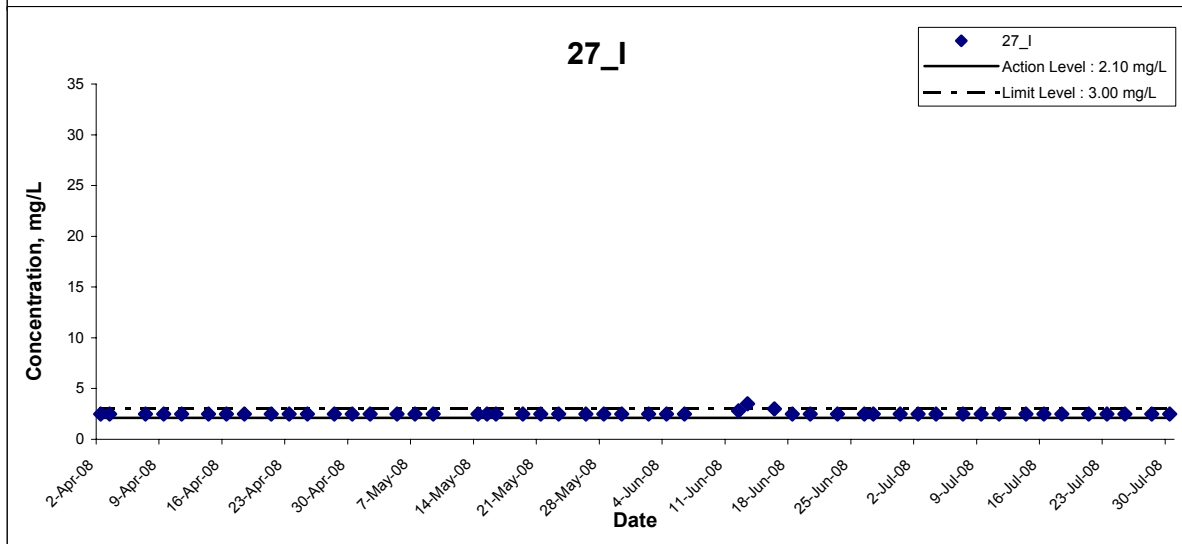
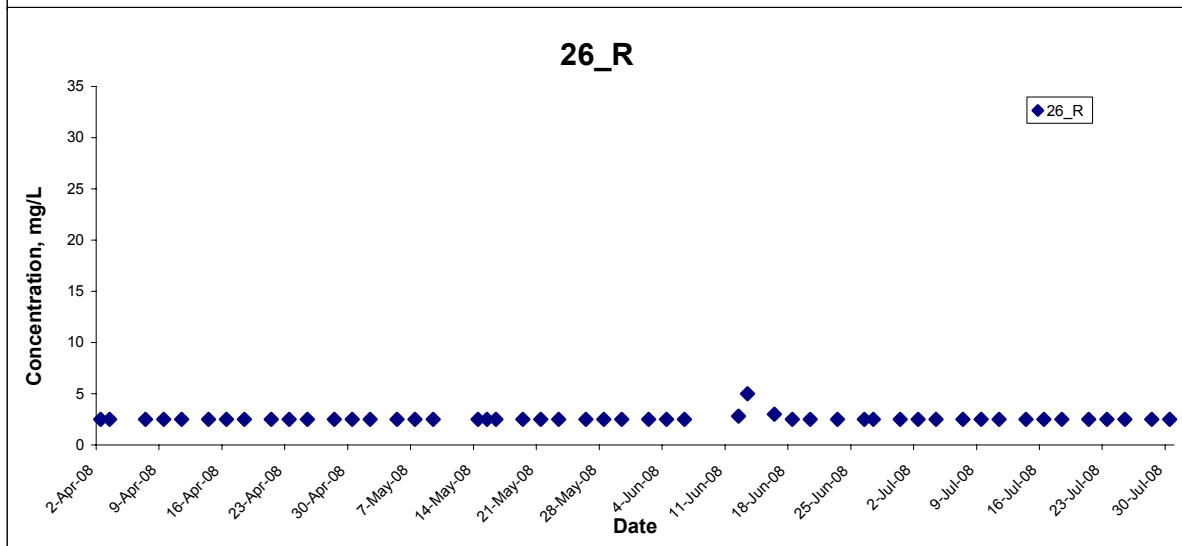
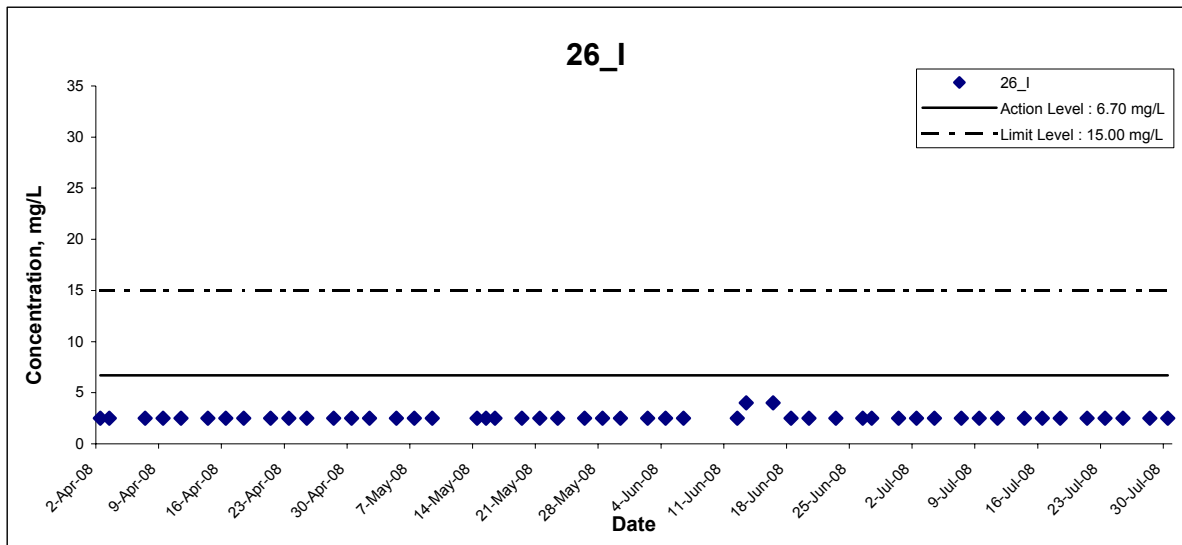
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	Date Jul 08	Appendix F	

Suspended Solids



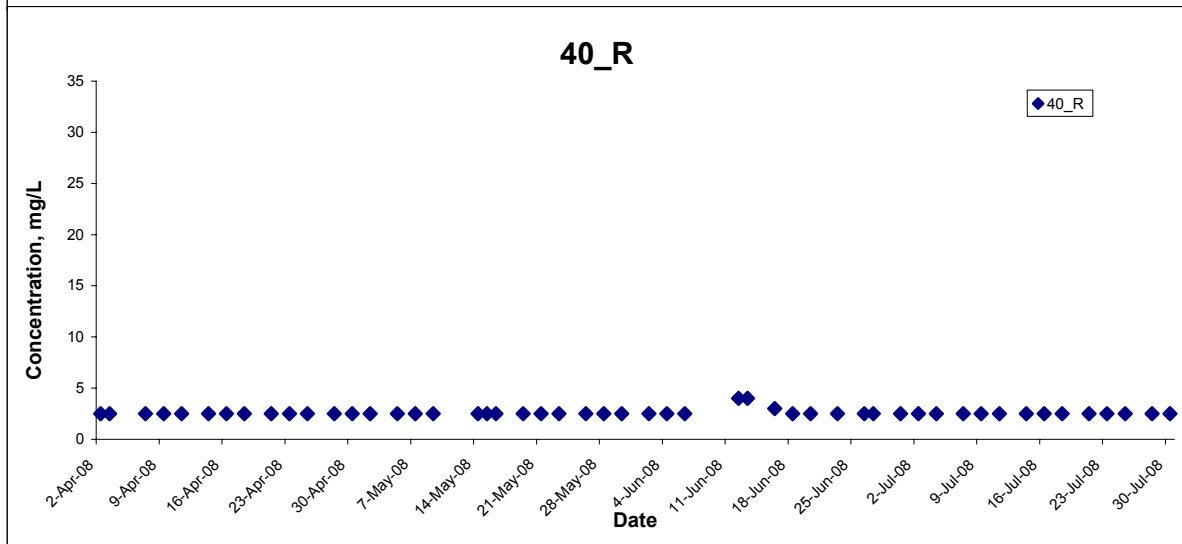
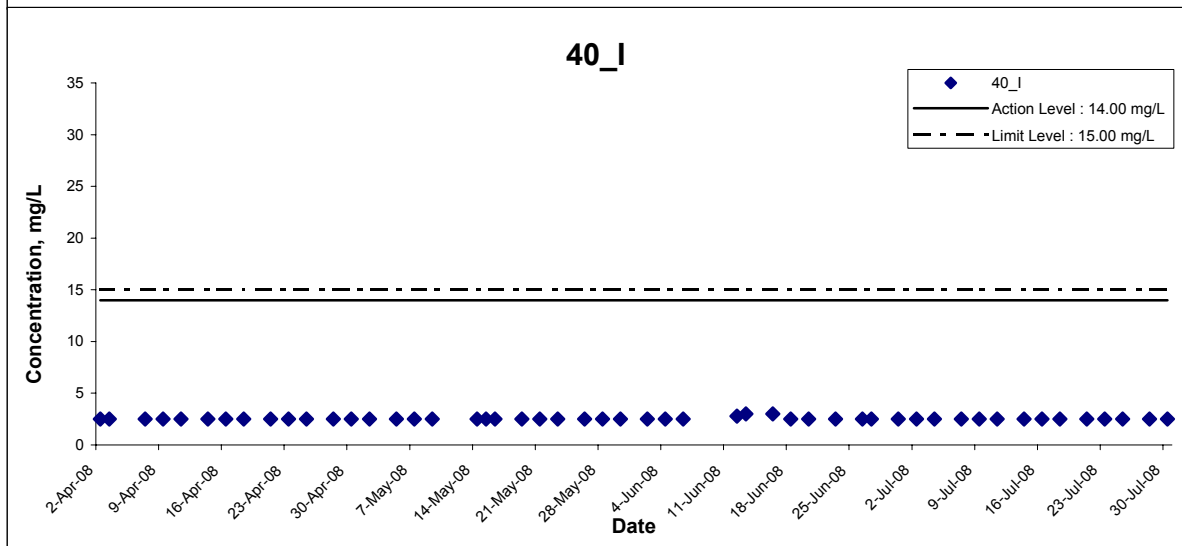
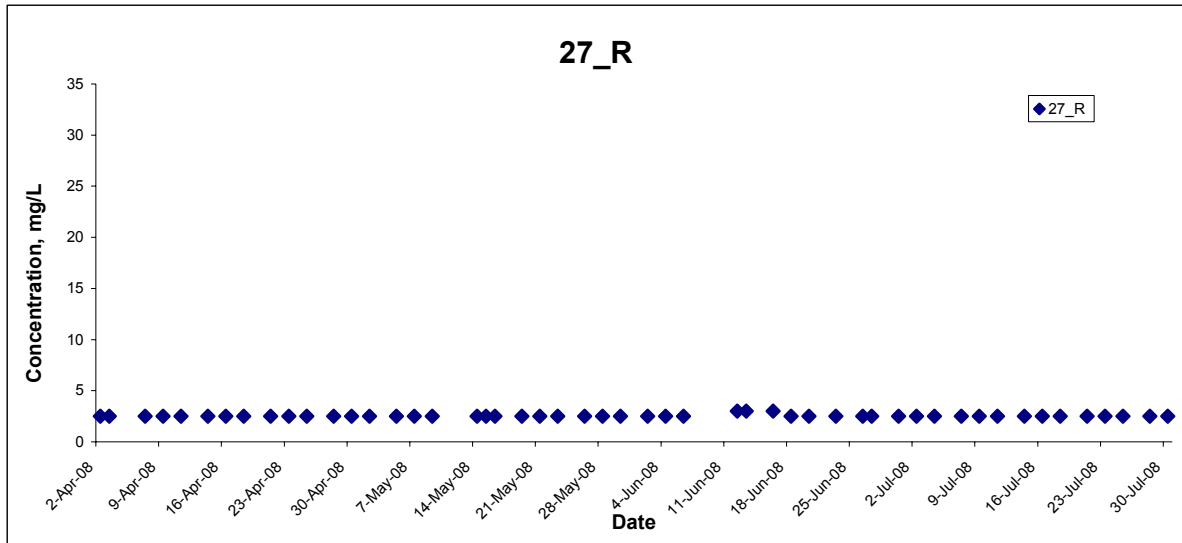
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	Date	Jul 08	Appendix F	

Suspended Solids



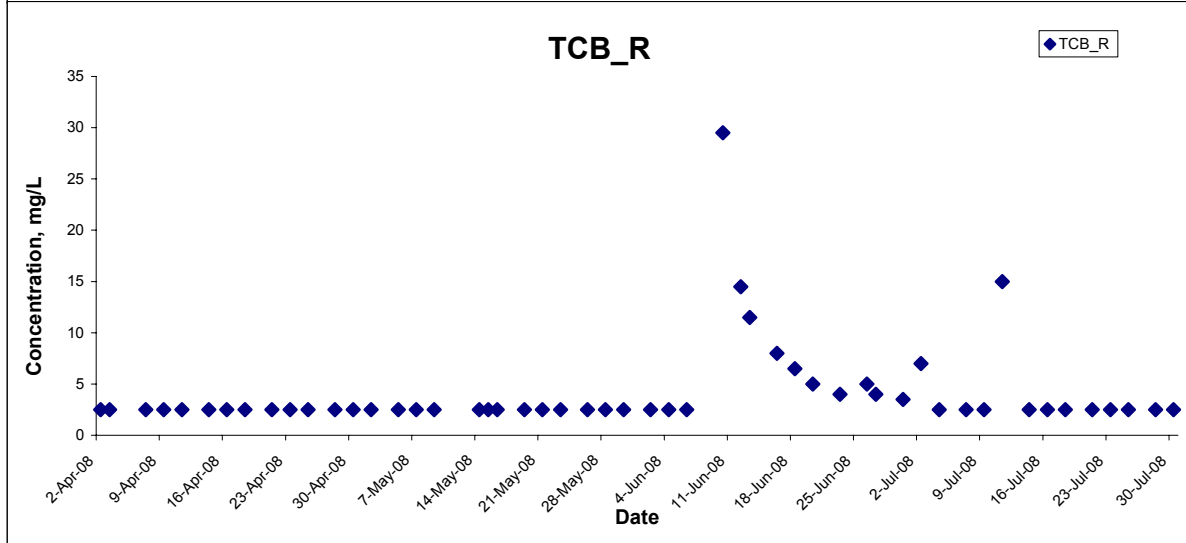
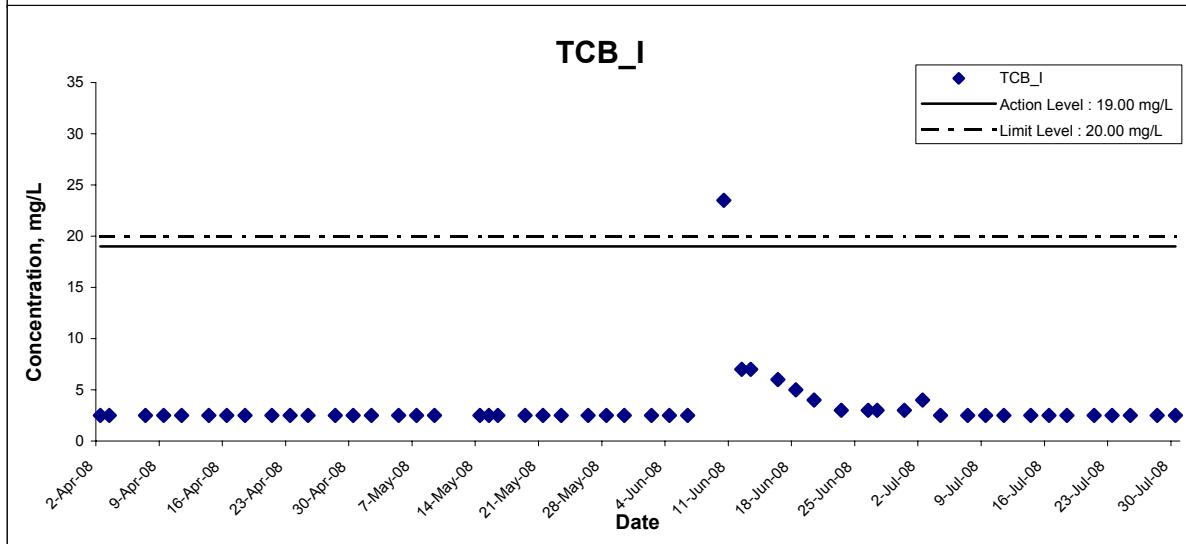
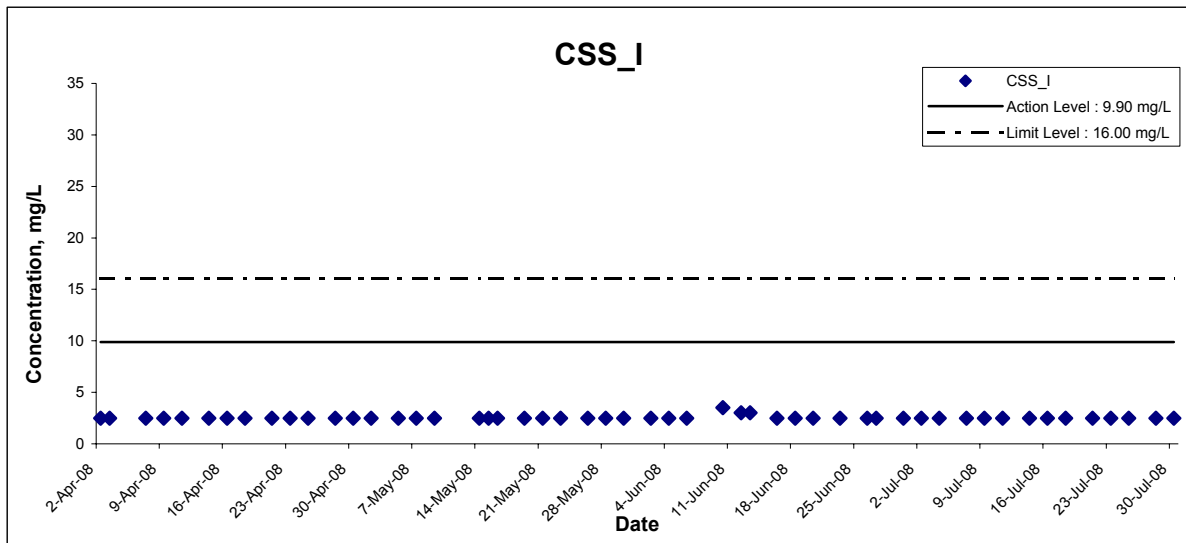
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	Date Jul 08	Appendix F	

Suspended Solids



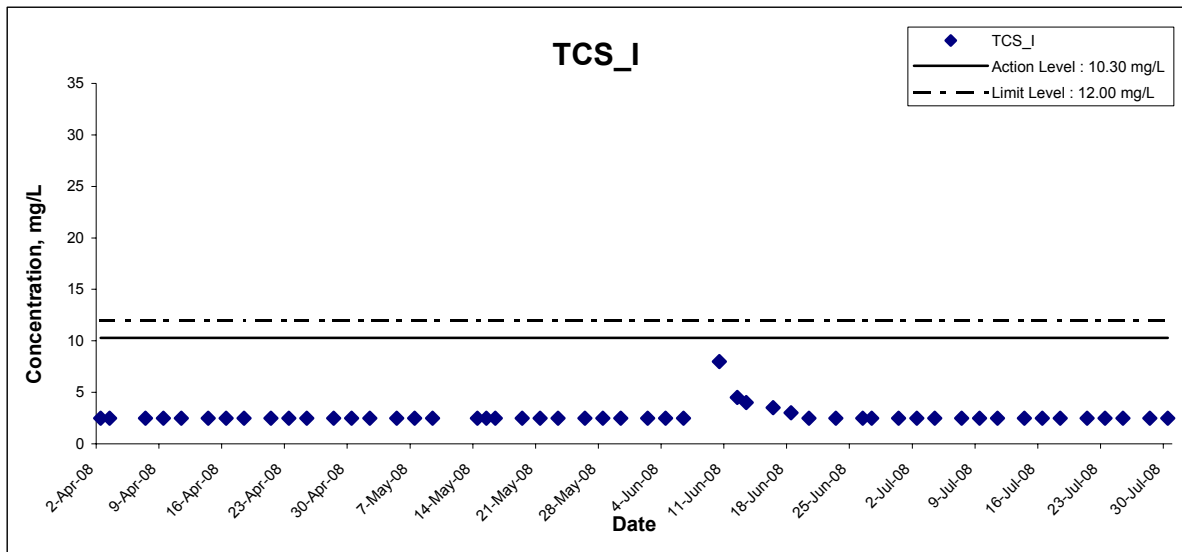
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Suspended Solids



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

Appendix G - Summary of Environmental Mitigation Implementation Schedule

Types of Impacts	Mitigation Measures	Status
Construction Dust	<ul style="list-style-type: none"> • A stockpile of dusty materials should not extend beyond the pedestrian barriers, fencing or traffic cones. 	*
	<ul style="list-style-type: none"> • Vehicle washing facilities should be provided at every exit point. 	*
	<ul style="list-style-type: none"> • 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. 	^
	<ul style="list-style-type: none"> • 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. 	N/A
	<ul style="list-style-type: none"> • Every main haul road should be sprayed with water or a dust suppression chemical so as to maintain the entire road surface wet. 	*
	<ul style="list-style-type: none"> • 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. 	^
	<ul style="list-style-type: none"> • 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. 	*
	<ul style="list-style-type: none"> • During cement debagging or concrete batching operation in an area sheltered on top and 3 sides. 	*
	<ul style="list-style-type: none"> • 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. 	^
	<ul style="list-style-type: none"> • Every vehicle should be washed to remove any dusty materials from its body and wheels immediately before leaving a construction site. 	*
	<ul style="list-style-type: none"> • 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. 	^
	<ul style="list-style-type: none"> • Proper enclosures and water spraying should be implemented for the main dust-generating activities, such as soil nailing or piling works. 	^
	<ul style="list-style-type: none"> • Proper plant maintenance should be provided to avoid black smoke emission from plants/equipment. 	*

Types of Impacts	Mitigation Measures	Status	
<p align="center">Construction Noise</p>	<ul style="list-style-type: none"> • Only well-maintained plant should be operated on –site and plant should be serviced regularly during the construction works. • Machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. • Plant know to emit noise strongly in one direction, should where possible, be orientated to direct noise away from the NSRS. • Mobile plant should be sited as far away from NSRs as possible. • Material stockpiles and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. • Use quiet plant and Working Method • Reduce the number of plant operating in critical areas close NSRs. • Construct temporary and movable noise barriers 	<p align="center">^ ^ ^ ^ ^ ^ ^ N/A</p>	
	<p>Water Quality</p>	<p><i>Construction Runoff and Drainage</i></p>	
		<ul style="list-style-type: none"> • 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. 	<p align="center">*</p>
		<ul style="list-style-type: none"> • Use of sediment traps and the adequate maintenance of drainage systems to prevent flooding and overflow. • 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. • 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 • 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. • 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. • Catchpits and perimeter channels shall be constructed in advance of site formation works and earthworks. • 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. 	<p align="center">^ ^ * ^ N/A ^ *</p>

Types of Impacts	Mitigation Measures	Status
	<ul style="list-style-type: none"> 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. 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. 	<p style="text-align: center;">^</p> <p style="text-align: center;">*</p>
	<p><i>Tunnelling Work</i></p> <ul style="list-style-type: none"> 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. 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. 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. 	<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"> Debris and rubbish on site should be collected, handled and disposed of properly to avoid entering the water column and cause water quality impacts. 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). 	<p style="text-align: center;">*</p> <p style="text-align: center;">*</p>
	<p><i>Sewage Effluent</i></p> <ul style="list-style-type: none"> 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. 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. 	<p style="text-align: center;">^</p> <p style="text-align: center;">N/A</p>

Types of Impacts	Mitigation Measures	Status
Waste / Chemical	<i>General</i>	
	<ul style="list-style-type: none"> • 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. 	^
	<i>Storage, Collection and Transportation of Waste</i>	
	<ul style="list-style-type: none"> • Wastes shall be handled and stored in a manner to ensure that they are held securely without loss or leakage. 	^
	<ul style="list-style-type: none"> • Authorised or licensed waste hauliers shall be used and they shall only collect wastes prescribed by their permits. 	^
	<ul style="list-style-type: none"> • Waste shall be removed on a daily basis. 	*
	<ul style="list-style-type: none"> • Waste storage area shall be maintained and cleaned on a daily basis. 	*
	<ul style="list-style-type: none"> • Windblown litter and dust during transportation shall be minimised by either covering trucks or transporting wastes in enclosed containers. 	^
	<ul style="list-style-type: none"> • Obtain necessary waste disposal permits from the appropriate authorities if they are required. 	^
	<ul style="list-style-type: none"> • Wastes shall be disposed of at licensed waste disposal facilities. 	^
<ul style="list-style-type: none"> • 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. 	^	
<ul style="list-style-type: none"> • Maintain records of the quantities of wastes generated, recycled and disposed. 	^	
<i>Surplus Excavated Materials</i>		
<ul style="list-style-type: none"> • 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. 	^	
<i>Construction and Demolition (C&D) Waste</i>		
<ul style="list-style-type: none"> • Careful design, planning and good site management shall be adopted to minimise over-ordering and generation of waste materials such as concrete grouts. 	^	
<ul style="list-style-type: none"> • 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. 	N/A	
<ul style="list-style-type: none"> • Construction and demolition (C&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. 	*	
<i>Chemical Waste</i>		
<ul style="list-style-type: none"> • 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. 	^	

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

Remarks:

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

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 May 2008

Parameters	Date	Observations and Recommendations	Follow-up
<i>Water Quality</i>	08/05/08	Water carrying sediment to enter Pui O Wan at the outfall of Shan Shek Wan. The Contractor was reminded to clear the silt.	Rectification/improvement was observed during the follow-up audit session.
	08/05/08	The Contractor was reminded of the followings: - Clear the silt at the U-Channel at underneath STR13 .	Rectification/improvement was observed during the follow-up audit session.
	08/05/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at RW22 .	Rectification/improvement was observed during the follow-up audit session.
	08/05/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at underneath STR13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/05/08	The Contractor was reminded of the followings: - De-silting at the sedimentation tank at Shan Shek Wan .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	14/05/08	Standing water with C&D waste were observed at underneath STR7 . The Contractor was reminded to dry it out and clear the waste.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	14/05/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at underneath STR13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	14/05/08	The Contractor was reminded of the followings: - De-silting at the sedimentation tank at Shan Shek Wan .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	22/05/08	Standing water with C&D waste were observed at underneath STR7 . The Contractor was reminded to dry it out and clear the waste.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	22/05/08	The Contractor was reminded of the followings: - Clear the sediment and C&D waste in the culvert at STR8 .	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
	22/05/08	The Contractor was reminded of the followings: - Clear the sediment in the culvert at STR9A .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	22/05/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath STR11-13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	22/05/08	The Contractor was reminded of the followings: - Clear the sediment in the culvert at STR12 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	22/05/08	The Contractor was reminded of the followings: - Clear the sediment accumulates in the U-Channel and culvert at STR18 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	22/05/08	The Contractor was reminded of the followings: - De-silting at the sedimentation tank at Shan Shek Wan .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	22/05/08	The Contractor was reminded of the followings: - Clear the silt in culvert at SD5 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	Standing silty water with general refuse were observed at underneath STR7 . The Contractor was reminded to clear the waste and provide mitigation measures to prevent any silty water from discharging to the public road.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	Exposed soil surface was observed at STR7 . The Contractor was reminded to cover it with tarpaulin and erect sand bags bund to prevent any silt from getting to the public road.	Rectification/improvement was observed during the follow-up audit session.
	30/05/08	The Contractor was reminded of the followings: - Clear sediment and C&D waste in the culvert at STR8 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	The Contractor was reminded of the followings: - Clear sediment and debris in 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
		CH5050.	needed for the outstanding item.
	30/05/08	The Contractor was reminded of the followings: - Clear sediment in the culvert at CH5200.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope at underneath STR10-13.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	The Contractor was reminded of the followings: - Clear the sediment in the culvert at STR12.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	The Contractor was reminded of the followings: - Clear the silt in the U-Channel and culvert at between STR17-18.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	The Contractor was reminded of the followings: - Clear the silt in the U-Channel and culvert at STR18.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	The Contractor was reminded of the followings: - De-silting at the sedimentation tanks at Shan Shek Wan.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	The Contractor was reminded of the followings: - Clear the silt in the U-Channel at CH4300.	Rectification/improvement was observed during the follow-up audit session.
	30/05/08	The Contractor was reminded of the followings: - Clear the silt in the U-Channel at RW37.	Rectification/improvement was observed during the follow-up audit session.
	30/05/08	The Contractor was reminded of the followings: - Clear the silt in the U-Channel at CH3080.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	The Contractor was reminded of the followings: - Re-arrange the stream diversion at SD6.	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
	30/05/08	The Contractor was reminded of the followings: - Clear the silt in the culvert at SD5 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	The Contractor was reminded of the followings: - Clear C&D waste and sediment in the culvert at CH2550 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	The Contractor was reminded of the followings: - Clear the silt in the U-Channel at RW4 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	The Contractor was reminded of the followings: - Remove the generator at the top of culvert at SD5 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	The Contractor was reminded of the followings: - Clear the silt and stones in the gully in front of RW6 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
Air Quality	08/05/08	The Contractor was reminded of the followings: - Properly cover stockpile at SD6 and SD7 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/05/08	The Contractor was reminded of the followings: - Ensure water-spray on the dusty haul road frequently.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/05/08	The Contractor was reminded of the followings: - Hydroseed the exposed slope at underneath STR11-12 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	14/05/08	The Contractor was reminded of the followings: - Hydroseed the exposed slope at underneath STR11-12 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	14/05/08	The Contractor was reminded of the followings: - Properly cover the stockpile at SD7 .	Rectification/improvement was observed during the follow-up audit session.

Parameters	Date	Observations and Recommendations	Follow-up
	14/05/08	The Contractor was reminded of the followings: - Erect fencing for the Stream 29 .	Rectification/improvement was observed during the follow-up audit session.
	22/05/08	De-bagging was observed at SD10-19 . The Contractor was reminded to provide it 3 sides enclosure with top shelter.	This item was not observed during site inspection.
	22/05/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath STR11-13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	De-bagging was observed without 3-sides enclosure with top shelter at STR17 . The Contractor was reminded to provide it 3 sides enclosure with top shelter.	This item was not observed during site inspection.
	30/05/08	The Contractor was reminded of the followings: - Properly cover the stockpile at between STR7-8 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope at underneath STR10-13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	The Contractor was reminded of the followings: - Hydroseed the exposed surface at STR6 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	The Contractor was reminded of the followings: - Hydroseed the exposed slope at CH3399 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
Waste/Chemical Management	08/05/08	General refuse and C&D waste were observed at Stream 29 . The Contractor was reminded to clear them and erect fencing for the stream.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/05/08	False works were observed near Stream 27 . 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.
	08/05/08	The Contractor was reminded of the followings: - Clear C&D waste at STR7 .	Rectification/improvement was observed during the follow-up audit session.

Parameters	Date	Observations and Recommendations	Follow-up
	08/05/08	The Contractor was reminded of the followings: - Clear C&D waste which has been grouped at underneath STR9A .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/05/08	The Contractor was reminded of the followings: - Clear C&D waste (discarded plants) at underneath STR13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/05/08	The Contractor was reminded of the followings: - Clear C&D waste in the culvert between STR8-STR9 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/05/08	The Contractor was reminded of the followings: - Clear C&D waste at underneath STR10 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/05/08	The Contractor was reminded of the followings: - Clear C&D waste at RW22 .	Rectification/improvement was observed during the follow-up audit session.
	14/05/08	False works were observed near Stream 27 . 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.
	14/05/08	Standing water with C&D waste were observed at underneath STR7 . The Contractor was reminded to dry it out and clear the waste.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	14/05/08	The Contractor was reminded of the followings: - Clear C&D waste that has been grouped at underneath STR9A .	Rectification/improvement was observed during the follow-up audit session.
	14/05/08	The Contractor was reminded of the followings: - Clear C&D waste (discarded plants) at underneath STR13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	14/05/08	The Contractor was reminded of the followings: - Clear C&D waste in the culvert between STR8-STR9 .	Rectification/improvement was observed during the follow-up audit session.
	14/05/08	The Contractor was reminded of the followings: - Clear C&D waste that has been grouped at underneath STR10 .	Rectification/improvement was observed during the follow-up audit session.

Parameters	Date	Observations and Recommendations	Follow-up
	14/05/08	The Contractor was reminded of the followings: - Clear the cement bags (abandon) at SD5 .	Rectification/improvement was observed during the follow-up audit session.
	22/05/08	False works were observed near Stream 27 . The Contractor was reminded to clear them.	Rectification/improvement was observed during the follow-up audit session.
	22/05/08	Standing water with C&D waste were observed at underneath STR7 . The Contractor was reminded to dry it out and clear the waste.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	22/05/08	The Contractor was reminded of the followings: - Clear discarded plants at underneath STR13 .	Rectification/improvement was observed during the follow-up audit session.
	22/05/08	The Contractor was reminded of the followings: - Clear the sediment and C&D waste in the culvert at STR8 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	22/05/08	The Contractor was reminded of the followings: - Clear general refuse, C&D waste which has been grouped and waiting for disposing as soon as possible at STR7 .	Rectification/improvement was observed during the follow-up audit session.
	22/05/08	The Contractor was reminded of the followings: - Clear general refuse at RW38 .	Rectification/improvement was observed during the follow-up audit session.
	30/05/08	Standing silty water with general refuse were observed at underneath STR7 . The Contractor was reminded to clear the waste and provide mitigation measures to prevent any silty water from discharging to the public road.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	The Contractor was reminded of the followings: - Clear C&D waste at underneath STR7 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	The Contractor was reminded of the followings: - Clear general refuse at underneath STR9 .	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
	30/05/08	The Contractor was reminded of the followings: - Clear general refuse at Stream 27 and 31 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	The Contractor was reminded of the followings: - Clear C&D waste near Stream 28 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/05/08	The Contractor was reminded of the followings: - Clear cement bags (abandon) at SD10-19 .	Rectification/improvement was observed during the follow-up audit session.
	30/05/08	The Contractor was reminded of the followings: - Provide drip tray, suitable label and container for the chemical oil at CH3080 .	Rectification/improvement was observed during the follow-up audit session.
Ecology	30/05/08	Silty water was observed at Stream 27 . The Contractor was reminded to provide mitigation measures to prevent any silt from getting to the stream.	Rectification/improvement was observed during the follow-up audit session.

Summary of Observation and Recommendation Made during Site Inspection in June 2008

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	05/06/08	Silt water was observed accumulate at underneath STR7 . The Contractor was reminded to provide mitigation measures to prevent any silty water from discharging to the public road.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	Standing silty water was observed accumulate at Shan Shek Wan . The Contractor was reminded to provide sedimentation tank for de-silting before discharging out.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	The Contractor was reminded of the followings: - Clear sediment and C&D waste (false works) in the culvert at STR8 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	The Contractor was reminded of the followings: - Clear sediment in the culvert at CH5050 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	The Contractor was reminded of the followings: - Clear sediment in the culvert at CH5200 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope at underneath STR10-13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	The Contractor was reminded of the followings: - Provide sand bags bund at STR9A .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	The Contractor was reminded of the followings: - Clear the sediment in the culvert at STR12 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	The Contractor was reminded of the followings: - Clear the silt in the U-Channel at STR16 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	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 silt in the U-Channel and culvert at between STR17-18 .	session. Follow-up action was needed for the outstanding item.
	05/06/08	The Contractor was reminded of the followings: - Clear the silt in the U-Channel and culvert at STR18 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	The Contractor was reminded of the followings: - De-silting at the sedimentation tanks at Shan Shek Wan .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	The Contractor was reminded of the followings: - Clear the silt in the U-Channel at CH3080 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	The Contractor was reminded of the followings: - Re-arrange the stream diversion at SD6 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	The Contractor was reminded of the followings: - Clear the silt in the culvert at SD5 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	The Contractor was reminded of the followings: - Clear C&D waste and sediment in the culvert at CH2550 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	The Contractor was reminded of the followings: - Clear the silt in the U-Channel at RW4 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	The Contractor was reminded of the followings: - Remove the generator at the top of culvert at SD5 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	The Contractor was reminded of the followings: - Clear the silt and stones in the gully in front of RW6 .	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
	11/06/08	Stream water was observed running down along the exposed soil surface at SD51 . The Contractor was reminded to arrange stream diversion to prevent any silty water discharging out (in-progress).	Rectification/improvement was observed during the follow-up audit session.
	11/06/08	Silt water was observed accumulate at underneath STR7 . The Contractor was reminded to provide mitigation measures to prevent any silty water from discharging to the public road.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	11/06/08	Standing silty water was observed accumulate at Shan Shek Wan . The Contractor was reminded to provide sedimentation tank for de-silting before discharging out.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	11/06/08	The Contractor was reminded of the followings: Properly cover the exposed surface at SD10-19 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	11/06/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope at underneath STR10-13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	11/06/08	The Contractor was reminded of the followings: - De-silting at the sedimentation tanks at Shan Shek Wan .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	11/06/08	The Contractor was reminded of the followings: - Remove the generator at the top of culvert at SD5 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	11/06/08	The Contractor was reminded of the followings: - Clear sediment and stockpile near the catchwater.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	11/06/08	The Contractor was reminded of the followings: - Clear the sediment on the haul road at STR11 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	19/06/08	Silt water was observed accumulate at underneath STR7 . The Contractor was reminded to provide mitigation measures to prevent any silty water from discharging to the public road.	Rectification/improvement was observed during the follow-up audit session.

Parameters	Date	Observations and Recommendations	Follow-up
	19/06/08	Standing silty water was observed accumulate at Shan Shek Wan . The Contractor was reminded to provide sedimentation tank for de-silting before discharging out.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	19/06/08	The Contractor was reminded of the followings: - Properly cover the exposed surface at SD10-19 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	19/06/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope at underneath STR10-13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	19/06/08	The Contractor was reminded of the followings: - De-silting at the sedimentation tanks at Shan Shek Wan .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	19/06/08	The Contractor was reminded of the followings: - Remove the generator at the top of culvert at SD5 .	Rectification/improvement was observed during the follow-up audit session.
	19/06/08	The Contractor was reminded of the followings: - Clear sediment near the catchwater.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	19/06/08	The Contractor was reminded of the followings: - Clear the sediment on the haul road at STR11 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	19/06/08	The Contractor was reminded of the followings: - Clear standing water at STR7, STR11 and STR14 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	19/06/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at STR14 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	26/06/08	Standing silty water was observed accumulate at Shan Shek Wan . The Contractor was reminded to provide sedimentation tank for de-silting before discharging out.	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
	26/06/08	Running water was observed discharging to the Stream 26 through the exposed soil surface. The Contractor was reminded to pave it to prevent causing the silty water.	Rectification/improvement was observed during the follow-up audit session.
	26/06/08	The Contractor was reminded of the followings: - Properly cover the exposed surface near Stream 25 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	26/06/08	The Contractor was reminded of the followings: - Properly cover the stockpile at between STR7-8 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	26/06/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope at underneath STR10-13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	26/06/08	The Contractor was reminded of the followings: - Clear the sediment on the haul road at STR10 and STR11 .	Rectification/improvement was observed during the follow-up audit session.
	26/06/08	The Contractor was reminded of the followings: - Clear the stones and debris on the paved road at STR10 .	Rectification/improvement was observed during the follow-up audit session.
	26/06/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at STR14 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	26/06/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at underneath STR16 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	26/06/08	The Contractor was reminded of the followings: - De-silting at the sedimentation tanks at Shan Shek Wan .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	26/06/08	The Contractor was reminded of the followings: - Clear sediment near the catchwater.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	26/06/08	The Contractor was reminded of the followings: - Properly cover the stockpile at opposite to	This item was not rectified during the follow-up audit session. Follow-up action was

Parameters	Date	Observations and Recommendations	Follow-up
		RW11. (Old Tung Chung Road)	needed for the outstanding item.
	26/06/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at underneath STR7 .	Rectification/improvement was observed during the follow-up audit session.
	26/06/08	The Contractor was reminded of the followings: - Properly cover the exposed surface at SD10-19 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	26/06/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at RW7 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
Air Quality	05/06/08	The Contractor was reminded of the followings: - Properly cover the stockpile at between STR7-8 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope at underneath STR10-13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	The Contractor was reminded of the followings: - Hydroseed the exposed surface at OFB6 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	The Contractor was reminded of the followings: - Hydroseed the exposed slope at CH3399 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	11/06/08	Mud trail was observed at the entrance of SD7 . The Contractor was reminded to clear them and provide mitigation measures to prevent any mud from carrying to the public road.	Rectification/improvement was observed during the follow-up audit session.
	11/06/08	De-bagging was observed without enclosure at STR17 . The Contractor was reminded to provide it three sides enclosure with top shelter during the works.	This item was not observed during site inspection.
	11/06/08	The Contractor was reminded of the followings: - Hydroseed the exposed surface at OFB6 .	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
	11/06/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope at underneath STR10-13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	11/06/08	The Contractor was reminded of the followings: - Properly cover the stockpile at between STR7-8 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	19/06/08	The Contractor was reminded of the followings: - Hydroseed the exposed surface at STR6 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	19/06/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope at underneath STR10-13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	19/06/08	The Contractor was reminded of the followings: - Properly cover the stockpile at between STR7-8 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	19/06/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at STR14 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	19/06/08	The Contractor was reminded of the followings: - Provide plant equipment maintenance at STR18 .	This item was not observed during site inspection.
	26/06/08	The Contractor was reminded of the followings: - Properly cover the stockpile at between STR7-8 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	26/06/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope at underneath STR10-13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	26/06/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at STR14 .	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
	26/06/08	The Contractor was reminded of the followings: - Properly cover the stockpile at opposite to RW11. (Old Tung Chung Road)	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	26/06/08	The Contractor was reminded of the followings: - Hydroseed the exposed surface at STR6.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
Waste/Chemical Management	05/06/08	The Contractor was reminded of the followings: - Clear C&D waste at underneath STR7.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	05/06/08	The Contractor was reminded of the followings: - Clear remaining general refuse at underneath STR9.	Rectification/improvement was observed during the follow-up audit session.
	05/06/08	The Contractor was reminded of the followings: - Clear general refuse at Stream 31.	Rectification/improvement was observed during the follow-up audit session.
	05/06/08	The Contractor was reminded of the followings: - Clear remaining C&D waste near Stream 28.	Rectification/improvement was observed during the follow-up audit session.
	11/06/08	The Contractor was reminded of the followings: - Clear C&D waste and sediment at underneath STR7 (near stream 25).	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	19/06/08	The Contractor was reminded of the followings: - Clear C&D waste and sediment at underneath STR7 (near stream 25).	Rectification/improvement was observed during the follow-up audit session.
	19/06/08	The Contractor was reminded of the followings: - Remove the false works near Stream 20.	Rectification/improvement was observed during the follow-up audit session.
	26/06/08	The Contractor was reminded of the followings: - Clear C&D waste, debris and sediment at underneath STR7.	Rectification/improvement was observed during the follow-up audit session.
	26/06/08	The Contractor was reminded of the followings: - Clear the cement bags (abandon) at underneath RW38.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	26/06/08	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 discarded plants at the culvert at RW6.	session. Follow-up action was needed for the outstanding item.
General	11/06/08	After the heavy rainstorm, a lot of culvert, gullies and U-Channels were observed accumulate with stones, debris and sediment. The Contractor was reminded to clear them as soon as possible to maintain the drainage system can function properly.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	11/06/08	Re-arrange stream diversion is necessary after the rainstorm as the sand bags and diversion pipe were destroyed due to heavy rain.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	19/06/08	Sediment, stones and debris were still observed accumulate in the culvert, gullies and U-Channels. The Contractor was reminded to clear them more frequently to maintain the drainage system can function properly.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	19/06/08	Re-arrange stream diversion is necessary after the rainstorm to prevent any silty water from discharging to the stream as the sand bags and diversion pipe were destroyed due to heavy rain.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	26/06/08	Sediment, stones and debris were observed accumulate in the culvert, gullies and U-Channel after the rainstorm while they have been cleared by the Contractor before. The Contractor was reminded to clear them regularly to maintain the drainage system can function properly.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	26/06/08	Re-arrange stream diversion is necessary after the rainstorm, if any, to prevent the silty water from discharging out as the sand bags and diversion pipe were destroyed due to heavy rain.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	26/06/08	Standing water was observed in the valley. The Contractor was reminded to pave them to prevent stagnant water.	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 July 2008

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	03/07/08	Standing silty water was observed accumulate at Shan Shek Wan . The Contractor was reminded to provide sedimentation tank for de-silting before discharging out.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	03/07/08	Sediment was observed accumulate at the sedimentation tanks at Shan Shek Wan to cause the tank cannot function properly. The Contractor was reminded to clear the silt and sediment.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	03/07/08	The Contractor was reminded of the followings: - Properly cover the exposed surface near Stream 25 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	03/07/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath STR10-13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	03/07/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at STR14 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	03/07/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at underneath STR16 .	Rectification/improvement was observed during the follow-up audit session.
	03/07/08	The Contractor was reminded of the followings: - Clear sediment near the catchwater.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	03/07/08	The Contractor was reminded of the followings: - Properly cover the exposed surface at SD10-19 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	03/07/08	The Contractor was reminded of the followings: - Properly cover the exposed slope at RW7 .	Rectification/improvement was observed during the follow-up audit session.
	09/07/08	Standing silty water was observed accumulate at Shan Shek Wan . The Contractor was reminded to provide sedimentation tank for de-silting before	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding

Parameters	Date	Observations and Recommendations	Follow-up
		discharging out.	item.
	09/07/08	Sediment was observed accumulate at the sedimentation tanks at Shan Shek Wan and Shek Mun Kap to cause the tank cannot function properly. The Contractor was reminded to clear the silt and sediment.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	09/07/08	Oil spillage was observed at the entrance of STR7 . The Contractor was reminded to clear them to prevent from discharging to the drainage system.	Rectification/improvement was observed during the follow-up audit session.
	09/07/08	The Contractor was reminded of the followings: - Properly cover the exposed surface near Stream 25 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	09/07/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath STR10-13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	09/07/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at STR14 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	09/07/08	The Contractor was reminded of the followings: - Clear C&D waste and sediment near the catchwater.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	09/07/08	The Contractor was reminded of the followings: - Clear the stagnant water in the discarded sedimentation tanks near the catchwater.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	09/07/08	The Contractor was reminded of the followings: The Contractor was reminded of the followings: - Properly cover the exposed surface at SD10-19 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	09/07/08	The Contractor was reminded of the followings: - Properly cover the stockpile at between STR7-8 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	09/07/08	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 needed for the outstanding

Parameters	Date	Observations and Recommendations	Follow-up
		RW6.	item.
	09/07/08	The Contractor was reminded of the followings: - Drying out the standing water at STR8 and STR13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	09/07/08	The Contractor was reminded of the followings: - Re-arrange the stream diversion at Stream 19 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	09/07/08	The Contractor was reminded of the followings: - Clear sediment and debris at the paved road at CH4300 (Existing TCR) .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	17/07/08	Standing silty water was observed accumulate at Shan Shek Wan . The Contractor was reminded to provide sedimentation tank for de-silting before discharging out.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	17/07/08	Sediment was observed accumulate at the sedimentation tanks at Shan Shek Wan and Shek Mun Kap . The Contractor was reminded to clear the silt and sediment to maintain the tanks can function properly.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	17/07/08	Silt water was observed discharging to the public road at underneath STR7 . The Contractor was reminded to provide sedimentation tank for de-silting before discharging out.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	17/07/08	The Contractor was reminded of the followings: - Drying out the standing water at STR8 .	Rectification/improvement was observed during the follow-up audit session.
	17/07/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath STR10-13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	17/07/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at STR14 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	17/07/08	The Contractor was reminded of the followings: - Clear the stagnant water in the discarded sedimentation tanks near the catchwater.	Rectification/improvement was observed during the follow-up audit session.

Parameters	Date	Observations and Recommendations	Follow-up
	17/07/08	The Contractor was reminded of the followings: - Clear C&D waste and sediment near catchwater.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	17/07/08	The Contractor was reminded of the followings: - Properly cover the exposed surface at SD10-19 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.
	17/07/08	The Contractor was reminded of the followings: - Clear sediment and debris at the paved road at CH4300 (Existing TCR) .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	17/07/08	The Contractor was reminded of the followings: - Re-arrange the stream diversion at Stream 19 . (in-progress)	Rectification/improvement was observed during the follow-up audit session.
	17/07/08	The Contractor was reminded of the followings: - Keep clear the sediment at the culvert at RW6 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	24/07/08	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.
	24/07/08	Silt water was observed discharging to the U-Channel at underneath STR7 while the upstream water has been diverted. The Contractor was reminded to provide mitigation measures to prevent any silty water from discharging out.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	24/07/08	The Contractor was reminded of the followings: - Provide mitigation measures to prevent silty water running in the underground channel at STR7 .	Rectification/improvement was observed during the follow-up audit session.
	24/07/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath STR10-13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	24/07/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at STR14 .	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
	24/07/08	The Contractor was reminded of the followings: - Clear sediment and C&D waste near catchwater.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	24/07/08	The Contractor was reminded of the followings: - Properly cover the catchment channel near the construction works.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	24/07/08	The Contractor was reminded of the followings: - Properly cover the exposed surface at SD10-19 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.
	24/07/08	The Contractor was reminded of the followings: - Clear sediment and debris at the paved road at CH4300 (Existing TCR) .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	24/07/08	The Contractor was reminded of the followings: - Keep clear the sediment at the culvert at RW6 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	24/07/08	The Contractor was reminded of the followings: - Clear standing water at CH4300 (Existing TCR) .	Rectification/improvement was observed during the follow-up audit session.
	31/07/08	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.
	31/07/08	Silt water was observed discharging to the U-Channel at underneath STR7 while the upstream water has been diverted. The Contractor was reminded to provide mitigation measures to prevent any silty water from discharging out. (in-progress)	Rectification/improvement was observed during the follow-up audit session.
	31/07/08	The Contractor was reminded of the followings: - Clear the silt at drainage channel at the entrance of STR7 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	31/07/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath STR10-13 .	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
	31/07/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at STR14 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	31/07/08	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.
	31/07/08	The Contractor was reminded of the followings: - Properly cover the catchment channel near the construction works.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	31/07/08	The Contractor was reminded of the followings: - Properly cover the exposed surface at SD10-19 when it is not in works.	Rectification/improvement was observed during the follow-up audit session.
	31/07/08	The Contractor was reminded of the followings: - Clear sediment and debris at the paved road along existing TCR.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	31/07/08	The Contractor was reminded of the followings: - Keep clear the sediment at the culvert at RW6 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
Air Quality	03/07/08	The Contractor was reminded of the followings: - Properly cover the stockpile at between STR7-8 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	03/07/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath STR10-13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	03/07/08	The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at STR14 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	03/07/08	The Contractor was reminded of the followings: - Properly cover the stockpile at opposite to RW11. (OTCR)	Rectification/improvement was observed during the follow-up audit session.
	03/07/08	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"> - Hydroseed the exposed surface at STR6. 	during the follow-up audit session. Follow-up action was needed for the outstanding item.
	09/07/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Hydroseed/cover the exposed slope with tarpaulin at underneath STR10-13. 	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	09/07/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Hydroseed/cover the exposed surface at STR14. 	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	09/07/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Properly cover the stockpile at between STR7-8. 	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	09/07/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Hydroseed the exposed surface at STR6. 	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	17/07/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Properly cover the stockpile at between STR7-8. 	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	17/07/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Hydroseed/cover the exposed slope with tarpaulin at underneath STR10-13. 	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	17/07/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Hydroseed/cover the exposed surface at STR14. 	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	17/07/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Properly cover the stockpile at old TCR when it is not in works. 	Rectification/improvement was observed during the follow-up audit session.
	17/07/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Hydroseed the exposed surface at STR6. 	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	24/07/08	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"> - Properly cover the stockpile at between STR7-8 when it is not in work. 	during the follow-up audit session. Follow-up action was needed for the outstanding item.
	24/07/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Hydroseed/cover the exposed slope with tarpaulin at underneath STR10-13. 	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	24/07/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Hydroseed/cover the exposed surface at STR14. 	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	24/07/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Hydroseed the exposed surface at STR6. 	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	31/07/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Properly cover the stockpile at STR7-8 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.
	31/07/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Clear the stockpile of cement at STR9A. 	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	31/07/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Hydroseed/cover the exposed slope with tarpaulin at underneath STR10-13. 	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	31/07/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Hydroseed/cover the exposed surface at STR14. 	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	31/07/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Hydroseed the exposed surface at STR6. 	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
Waste/Chemical Management	03/07/08	<p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Clear discarded plants at underneath between STR13-14. 	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
	03/07/08	The Contractor was reminded of the followings: - Clear the cement bags (abandon) at underneath RW38 .	Rectification/improvement was observed during the follow-up audit session.
	03/07/08	The Contractor was reminded of the followings: - Keep clear the discarded plants and sediment at the culvert at RW6 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	09/07/08	The Contractor was reminded of the followings: - Clear C&D waste and sediment near the catchwater.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	09/07/08	The Contractor was reminded of the followings: - Clear discarded plants at underneath between STR13-14 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	17/07/08	The Contractor was reminded of the followings: - Provide drip tray for the oil container at the entrance of STR7 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	17/07/08	The Contractor was reminded of the followings: - Clear discarded plants at underneath between STR13-14 .	Rectification/improvement was observed during the follow-up audit session.
	17/07/08	The Contractor was reminded of the followings: - Clear C&D waste and sediment near catchwater.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	24/07/08	The Contractor was reminded of the followings: - Clear discarded cement bags (abandon) at STR7 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	24/07/08	The Contractor was reminded of the followings: - Clear sediment and C&D waste near catchwater.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	24/07/08	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 drip tray for the oil container at the entrance of STR7 .	session. Follow-up action was needed for the outstanding item.
	31/07/08	The Contractor was reminded of the followings: - Provide drip tray for the oil container at the entrance of STR7 .	Rectification/improvement was observed during the follow-up audit session.
	31/07/08	The Contractor was reminded of the followings: - Clear the C&D waste and sediment at the U-channel at underneath STR7 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	31/07/08	The Contractor was reminded of the followings: - Clear discarded cement bags (abandon) at STR7 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	31/07/08	The Contractor was reminded of the followings: - Clear C&D waste near Stream 19(downstream), Stream 28, Stream 29 and Stream 34 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	31/07/08	The Contractor was reminded of the followings: - Clear discarded plants at underneath STR13 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	31/07/08	The Contractor was reminded of the followings: - Clear discarded cement bags (abandon) at RW28 .	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
General	03/07/08	Clear sediment, stones and debris in the culvert, U-Channel and gullies etc (drainage system) frequently.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	03/07/08	Drying out the standing water in the valley to prevent mosquito breed. (especially at STR13)	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	03/07/08	Re-arrange the stream diversion to prevent silty water from discharging out (in-progress) (especially at Stream 19-20).	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	09/07/08	Clear sediment, stones and debris in the	This item was not rectified

Parameters	Date	Observations and Recommendations	Follow-up
		culvert, U-Channel and gullies etc (Drainage system) frequently.	during the follow-up audit session. Follow-up action was needed for the outstanding item.
	17/07/08	Keep clear sediment, stones and debris in the culvert, U-Channel and gullies etc (Drainage system).	Rectification/improvement was observed during the follow-up audit session.

**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		
Environmental Permit (EP)				
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
Registration of Chemical Waste Producer				
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
Water Discharge License				
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
Construction Noise Permit (CNP)				
GW-RS0701-07	14/11/07	13/05/08	Construction Noise Permit for Tung Chung Road between Lung Tseng Tau and Cheung Sha	Valid
GW-RS0702-07	14/11/07	13/05/08	Construction Noise Permit for Construction Site for Roadworks between Pak Kung Au and Cheung Sha Sheung Tsuen	Valid
GW-RS0811-07	09/12/07	08/06/08	Construction Noise Permit for the use of powered mechanical equipment for carrying out construction work at Tung Chung Road between Lung Tseng Tan and Cheung Sha, Lantau Island, Hong Kong	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.	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	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 ³ m ³)					Actual Quantities of C&D Wastes (in 10 ³ Kg)									
	Total Quantity Generated	Broken Concrete ⁽¹⁾	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals		Paper/cardboard packaging		Plastic ⁽²⁾		Chemical Waste	Site clearance waste ⁽³⁾	Others, e.g. general refuse (in 10 ³ m ³)	
	(a)	(b)	(c)	(d)	(e)	Disposal	Recycle	Disposal	Recycle	Disposal	Recycle	Disposal	Disposal	Disposal	Timber Waste
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
Sub-Total	7.253	0	4.997	0	2.253	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	414.15	9.727	0.539
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															
Sept															
Oct															
Nov															
Dec															
Total	8.206	0	5.682	0	2.521	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	511.03	11.763	0.637

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 Dissolved Oxygen (DO), 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	1	0	0	0	0	0	0
19 I*	0	0	0	0	0	0	0
21 I	1	0	0	0	0	1	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	1
27 I	0	0	0	0	0	37	1
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	0	0
CSS I	0	0	0	2	2	0	0
TCB I	0	0	0	0	0	0	1
TCS I	0	0	0	0	1	0	3

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

**APPENDIX L
COMPLAINT LOGS**

Appendix L - Complaint Log

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
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 3rd November 2006, was raised by a resident living Lantau Island on 17th October 2006 concerning the Tung Chung Road condition on 16th 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 16th 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 3rd November 2006, was received by the Integrated Complaint Centre (ICC) on 26th 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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
S73	Southern Section of the Project	3 Nov 06	The complaint, which was referred by RSS to ET on 3 rd November 2006, was raised by a resident living at Cheung Sha on 24 th October 2006 concerning noise generated from rock breaking in Southern Section of the Project.	<p>According to the EM&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 st November 2006. The Resident Site Staff (RSS) subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 24 th 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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
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 st 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 st 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 rd 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 rd 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 rd 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 & Lung Tseng Tau Villages via District Office (Islands) on 29th 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 29th 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 Council, Wong Fuk-kan on 6th 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 18th 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 23rd 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 23rd 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 15th 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 23rd 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 8th 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 2nd January to 14th 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"> ● To cover the soil nailing works area with tarpaulin; ● To reduce the number of machines for soil nailing; ● To orientate the machines for soil nailing works so that the major noise generating part will not directly face the Noise Sensitive Receiver; and ● To scatter the plants so that the noise being generated will not be centralized in certain direction. 	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 27th May 2007.</p>	<p>According to the Contractor, construction works were undertaken near STR 14 in the morning of 27th 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 17th 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"> • To erect sand bag bund in the vicinity of STR02; • To shotcrete the soil surface near Stream 12. 	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 6th 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 6th 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"> • To desilt temporary drainage channels and sedimentation tank. • To clear the silt and mud in the surface of haul road at RW06 ad RW07. • To cover exposed slope with tarpaulin at RW06 and RW07. <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"> • Cleared the silts on the haul road; • Applied watering on the road by water hose at San Shek Wan; • Increased the number of water browsers; and • Covered the exposed slope and stockpiles with tarpaulin sheets. <p>By reviewing the air quality monitoring data, there was no exceedance of air quality monitoring results on 8th and 14th 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"> -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. -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 -.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. - 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.
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