

CCECC & CRWJ Joint Venture

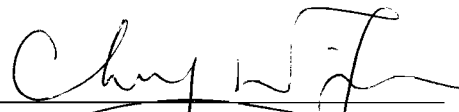
Contract No. HY/2003/19

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

**Monthly EM&A Report
(Version 1.0)**

August 2007

Certified By



(Environmental Team Leader)

REMARKS:

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

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ABBREVIATION AND ACRONYM

AL Levels	Action and Limit Levels
E / ER	Engineer/Engineer's Representative
EIA	Environmental Impact Assessment
EM&A	Environmental Monitoring and Audit
EMIS	Environmental Mitigation Implementation Schedule
EP	Environmental Permit
EPD	Environmental Protection Department
ET	Environmental Team
HVS	High Volume Sampler
HyD	Highways Department
IEC	Independent Environmental Checker
NOE	Notification of Exceedance
QA/QC	Quality Assurance / Quality Control
RE	Resident Engineer
RH	Relative Humidity
SLM	Sound Level Meter
TSP	Total Suspended Particulates
WMP	Waste Management Plan

EXECUTIVE SUMMARY

Introduction

1. This is the 34th monthly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the project “Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha” (the Project). This report documents the findings of EM&A Works conducted in August 2007.
2. The construction activities undertaken in the reporting month included:
 - Construction of retaining wall
 - Construction of bridge
 - Construction of piles
 - Drainage works
 - Road works
 - Slope works
 - Soil Nail works
 - Construction of pump room
 - Construction of underground utilities
 - Backfilling

Environmental Monitoring Works

3. Environmental monitoring for the Project was performed regularly as stipulated in the Updated EM&A Manual (Revision C) 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 exceedance of noise, air and water quality monitoring for the reporting month is tabulated in Table I.

Table I Summary Table for Exceedance Recorded in the Reporting Month

Parameter	Number of Exceedances due to the Project		Action Taken	Results of Action Taken
	Action Level	Limit Level		
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, were conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded for 24-hr TSP monitoring in the reporting month.

Construction Noise

6. Noise monitoring at 7 designated monitoring stations, namely NM1, NM2, NM3, NM4, NM5, NM6 and NM8, were conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded in the reporting month.

Water Quality

7. Water quality monitoring was conducted as scheduled 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 at these streams. As the water depth of Tung Chung Bay was less than 3m, only the mid-depth level was monitored.
8. Exceedances of suspended solids (SS) were recorded in the month. 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-RW0052-07, GW-RS0280-07 and GW-RS0281-07, GW-RS0526-07, GW-RS0527-07).

Key Information in the Reporting Month

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

Table II Summary Table for Key Information in the Reporting Month

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	1	Water Quality	Complaint Investigation	In progress.	---
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. One environmental complaint was received in the reporting month.
12. No warning, summons or notifications of successful prosecution was received in the reporting month.

Future Key Issues

13. Key issues to be considered in the coming month include:
 - Dust generation from stockpiles of dusty materials, exposed retain wall, piling works and excavation works;
 - Noise from operation of the equipment, especially for rock-breaking activities, and machinery on-site;
 - Regular removal of mud, sand and silt along u-channels and sedimentation tanks;
 - Wastewater discharge and surface runoff from site;
 - Storage of chemicals/fuel and chemical waste/waste oil on site;
 - Proper storage of construction material near streams; and
 - Review and implementation of temporary drainage system for the surface runoff.

1. INTRODUCTION

Background

- 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. Two varied Environmental Permits (EP) (EP-170/2003/B and EP-170/2003/C) were issued in June 2006 and July 2007 respectively. 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 34th monthly EM&A report summarizing the EM&A works for the Project in August 2007.

Project Organizations

- 1.6 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
- 1.7 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.

Construction Programme

- 1.8 The construction activities undertaken in the reporting month were:

Northern Section

- Road and drainage works and underground utilities works at Zone A;
- Road and drainage works and underground utilities works at Zone B;
- Road and drainage works, underground utilities works and soil nail works at Zone C;
- Earth works at Zone D;
- Construction of RW010 and RW011, RW012 at Zone E; and
- Road works on CH4150 to CH4250, construction of pump room on CH4400 at Zone F.

Southern Section

- Road and drainage works at Zone 1
- Road and drainage works and Zone 2;
- Backfilling, construction of retaining wall, road and drainage works at Zone 3;
- Backfilling, soil nailing, construction of retaining wall and bridge deck at Zone 4;
- Backfilling, soil nailing, construction of retaining wall and bridge deck at Zone 5;
- Construction of RW039, RW015, RW014 and RW017, RW018, STR07 at Zone 6.

Summary of EM&A Requirements

- 1.9 The EM&A programme requires construction phase monitoring for air quality and construction noise, water quality and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
- All monitoring parameters;
 - Action and Limit levels for all environmental parameters;
 - Event Action Plans;
 - Environmental mitigation measures, as recommended in the project EIA report; and
 - Environmental requirements in contract documents.
- 1.10 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 5 of this report.
- 1.11 This report presents the environmental monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters, namely air quality, noise levels, water quality and audit works for the Project in the reporting month.

2. AIR QUALITY

Monitoring Requirements

- 2.1 Monitoring of 1-hour and 24-hour TSP was conducted to monitor the air quality. Appendix A shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

- 2.2 In accordance with the updated EM&A Manual, 24-hour TSP monitoring shall only be conducted at the monitoring location when there are Project related construction activities being undertaken within a radius of 500 m from the monitoring location.
- 2.3 Five designated monitoring stations, AM1 to AM5 were selected for impact dust monitoring for the Project. Table 2.1 describes the air quality monitoring locations and Figure 3 shows their locations.

Table 2.1 Locations for Air Quality Monitoring

Monitoring Station	Description	Location
AM1	YMCA of Hong Kong Christian College	Rooftop
AM2	D 68 Leyburn Villas	House
AM3 ⁽¹⁾	Butterfly Crest	House
AM4	No. 31 South Lantau Road	House
AM5 ⁽²⁾	YWCA	To be confirmed

Remarks:

⁽¹⁾ 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.

⁽²⁾ Monitoring at AM5, YWCA, will be resumed when YWCA re-open.

Monitoring Equipment

- 2.4 Table 2.2 summarizes the equipment used for the air quality monitoring. Copies of calibration certificates are attached in Appendix B.

Table 2.2 Air Quality Monitoring Equipment

Equipment	Model and Make	Quantity
Calibrator	GMW25; S/N: 1536	1
HVS Sampler	Graseby GMW Model GS2310 High Volume TSP Sampler and associated equipment and shelter	5

Monitoring Parameters, Frequency and Duration

- 2.5 Table 2.3 summarizes the monitoring parameters and frequencies of impact dust monitoring for the whole construction period. The air quality monitoring schedule for the reporting period is shown in Appendix C.

Table 2.3 Impact Dust Monitoring Parameters, Frequency and Duration

Parameters	Frequency
1-hr TSP ^(a)	Three times / 6 days
24-hr TSP	Once / 6 days

Note:

(a) 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.

Monitoring Methodology and QA/QC Procedure

Instrumentation

- 2.6 Graseby GMW Model GS2310 TSP High Volume Sampler (HVS) was employed for 1-hour & 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50). Moreover, the HVS also met all the requirements in Section 3.2 of the Updated EM&A Manual.

Operating/Analytical Procedures

- 2.7 Operating/analytical procedures for the operation of HVS were as follows:
- A horizontal platform was provided with appropriate support to secure the samplers against gusty wind.
 - No two samplers were placed less than 2 meters apart.
 - The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
 - A minimum of 2 meters of separation from walls, parapets and penthouses was required for rooftop samples.
 - A minimum of 2 meters separation from any supporting structure, measured horizontally was required.
 - No furnaces or incineration flues were nearby.
 - Airflow around the sampler was unrestricted.
 - The sampler was more than 20 meters from the drip line.
 - Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.
- 2.8 Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 1.1 m³/min. and 1.4 m³/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50. For TSP sampling, fiberglass filters (G810) were used.

- 2.9 The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- 2.10 The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- 2.11 The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- 2.12 The shelter lid was closed and secured with the aluminum strip. The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number). After sampling, the filter was removed and sent to the laboratory for weighing. The elapsed time was also recorded.
- 2.13 Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than $\pm 3^\circ\text{C}$; the relative humidity (RH) should be $< 50\%$ and not vary by more than $\pm 5\%$. A convenient working RH is 40%.

Maintenance/Calibration

- 2.14 The following maintenance/calibration was required for the HVS:
- The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
 - High volume samplers were calibrated at bi-monthly intervals using GMW-25 Calibration Kit throughout all stages of the air quality monitoring.

Wind Data

- 2.15 Wind data was required to be taken from the Hong Kong Observatory Weather Stations including HK International Airport and Cheung Chau.

Results and Observations

- 2.16 24-hr TSP monitoring at 3 monitoring stations, AM1, AM2 and AM4, were conducted as scheduled in the reporting month.
- 2.17 The monitoring data, graphical presentations and wind data for the reporting month are summarized in Appendix D. No Action/Limit Level exceedance was recorded for 24-hr TSP monitoring in the reporting month.

3. NOISE

Monitoring Requirements

- 3.1 Monitoring and audit of construction noise levels is required to be conducted, in accordance with the Updated EM&A Manual, to ensure that any unacceptable noise impacts could be readily detected and timely and appropriate action be undertaken to rectify the situation.
- 3.2 The construction noise levels shall be measured in terms of the A-weighted equivalent continuous sound pressure level (Leq). Leq (30min) shall be used as the monitoring parameter for the time period between 0700-1900 hours on normal weekdays. For all other time periods, Leq (5min) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. As supplementary information for data auditing, statistical results such as L₁₀ and L₉₀ shall also be obtained for reference.

Monitoring Locations

- 3.3 In accordance with the Updated EM&A Manual, noise monitoring shall only be conducted at the monitoring location when there are Project related construction activities being undertaken within a radius of 300m from the monitoring location.
- 3.4 Eight designated noise monitoring stations, NM1 to NM8 were selected for noise impact monitoring. Appendix A shows the established Action and Limit Levels for the environmental monitoring works. Table 3.1 describes the noise monitoring locations and Figure 3 shows their locations.

Table 3.1 Noise Monitoring Stations

Stations	Description	Location
NM1	No. 28 Lung Tseng Tau	Ground Floor
NM2	YMCA of Hong Kong Christian College	Rooftop
NM3	No. 37 Shek Lau Po	Ground Floor
NM4	No. 1 Shek Mun Kap	Ground Floor
NM5	Tung Chung Au Country Parks Management Centre	Ground Floor
NM6	D75 Leyburn Villa	Ground Floor
NM7 ⁽¹⁾	House in Butterfly Crest House 22	Rooftop
NM8	No. 31 South Lantau Road	Ground Floor

Remarks:

- ⁽¹⁾ 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.

Monitoring Equipment

- 3.5 Table 3.2 summarizes the noise monitoring equipment model being used. Copies of calibration certificates are attached in Appendix B.

Table 3.2 Noise Monitoring Equipment

Equipment	Model and Make	Quantity
Integrating Sound Level Meter	B&K Model 2238	2
Calibrator	B&K 4231	2
Wind Speed Anemometer	RS232 Integral Vane Digital Anemometer	1

Monitoring Parameters, Frequency and Duration

- 3.6 Table 3.3 summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is attached in Appendix C.

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

Station	Parameter	Period ¹	Frequency	Measurement
NM1	L ₁₀ (30 min.)dB(A) L ₉₀ (30 min.)dB(A) L _{eq} (30 min.)dB(A)	(a) 0700-1900 hrs. on weekdays (b) 1900-2300 hrs. on weekdays (c) 0700-2300 hrs. on holidays (d) 2300-0700 hrs on any days	Once every 6 working days	Façade ⁽¹⁾
NM2				Façade ⁽¹⁾
NM3				Façade ⁽¹⁾
NM4				Façade ⁽¹⁾
NM5				Façade ⁽¹⁾
NM6				Façade ⁽¹⁾
NM7				Façade ⁽¹⁾
NM8				Façade ⁽¹⁾

Remarks:

⁽¹⁾Noise measurements were taken at 1m from the exterior of the building facade.

(b), (c) and (d) will only be conducted if construction works are undertaken during these periods.

Monitoring Methodology and QA/QC Procedures

- The Sound Level Meter was generally set on a tripod at a height of 1.2 m above the ground, depending to the actual monitoring condition.
- For free field measurement (if any), the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

- frequency weighting : A
- time weighting : Fast
- time measurement : 30 minutes / 5 minutes
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the L_{eq} , L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise measurement was paused during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.

Maintenance and Calibration

- 3.7 The microphone head of the sound level meter and calibrator was cleaned with soft cloth regularly. The meters were sent to the supplier to check and calibrate on a yearly interval.

Results and Observations

- 3.8 Noise monitoring was conducted as scheduled at the seven designated stations NM1, NM2, NM3, NM4, NM5, NM6 and NM8, in this reporting month. Noise monitoring results and graphical presentations are shown in Appendix E.
- 3.9 No Action/Limit Level exceedance was recorded in the reporting month.

4. WATER QUALITY

Monitoring Requirements

- 4.1 Water quality monitoring was conducted in accordance with the Updated EM&A Manual. Appendix A shows the established Action Limit Levels for the environmental monitoring works.

Monitoring Equipment

- 4.2 Table 4.1 summarizes the equipment used in the impact water quality monitoring program. All the monitoring equipment complied with the specifications stipulated in the EM&A Manual. Copies of the calibration certificates of the equipment are attached in Appendix B.

Table 4.1 Water Quality Monitoring Equipment

Equipment	Model and Make	Qty.
Multi-parameter Water Quality System	YSI 6820	1

Monitoring Parameters, Frequency and Duration

- 4.3 Table 4.2 summarizes the monitoring parameters, monitoring period and frequencies of water quality monitoring. The water quality monitoring schedule is attached in Appendix C.
- 4.4 In-situ measurements were taken at designated monitoring stations which are under the influence of the works at least three times per week during the course of the construction period. In addition, water samples for suspended solid analysis have been collected at the designated stations and delivered to Wellab for further laboratory analysis.

Table 4.2 Frequency and Parameters of Water Quality Monitoring

Parameters	Frequency	No. of Depth
DO Saturation (%), DO (mg/L), Turbidity (NTU), SS (mg/L), Temperature (°C), & pH	3 times per week	Sub-surface

Monitoring Locations

- 4.5 The water quality monitoring locations are shown in Figure 3 and their details are provided in Table 4.3.

Table 4.3 Water Quality Monitoring Locations

Monitoring Station (Stream No.)	Type	Easting	Northing
Tung Chung Stream	Reference	811853	813289
	Impact	811601	813716
Cheung Sha Stream	Reference	812525	811980
	Impact	812447	811165
Stream 15	Reference	811853	813289
	Impact	811781	813298
Stream 18	Reference	811889	813107
	Impact	811836	813138
Stream 19	Reference	811920	812927
	Impact	811858	812987
Stream 21	Reference	811994	812695
	Impact	811873	812723
Stream 23	Reference1	811980	812589
	Reference 2	812079	812386
	Impact	811894	812658
Stream 25	Reference	812353	812052
	Impact	812324	812017
Stream 26	Reference	812525	811980
	Impact	812456	811895
Stream 27	Reference	812658	811770
	Impact	812604	811747
Stream 32	Reference	812980	811410
	Impact	812988	811327
Stream 35	Reference	813231	811275
	Impact	813218	811218
Stream 40	Reference	813686	811311
	Impact	813690	811211
Tung Chung Bay	Reference	810679	816038
	Impact	810787	815706

Monitoring Methodology, Calibration Details and QA/QC Procedures

Instrumentation

- 4.6 A multi-parameter meter (Model YSI 6820 CE-C-M-Y) was used to measure DO, turbidity, salinity, pH and temperature.

Operating/Analytical Procedures

- 4.7 At each monitoring location, two consecutive measurements were taken for water samples being collected on site. The probes were retrieved out of the water after the first measurement and then re-deployed for the second measurement. Where the difference in the value between the first and second readings of each set was more than 25% of the value of the first reading, the reading was discarded and further readings were taken.
- 4.8 For SS, measurement and grab samples of surface water were collected. Water samples of about 1,000 ml were collected and stored in polyethylene bottles. Following collection, water samples were stored in high density polythene bottles with preservative appropriately added, packed in ice and cooled to 4°C (without being frozen), delivered to the HOKLAS accredited laboratory, Wellab Limited and analyzed.

Maintenance and Calibration

- 4.9 Before each round of monitoring, a zero check in distilled water was performed with the turbidity probe of YSI 6820. The probe was then calibrated with a solution of known NTU.

Results and Observations

- 4.10 Water quality monitoring were conducted as scheduled at designated monitoring stations at Streams 15, 18, 21, 23, 26, 27 and 40, Cheung Sha Stream, Tung Chung Stream and Tung Chung Bay), which are under the influence of the works, in the reporting month. As Streams 19, 25, 32 and 35 were observed dry, no water monitoring at these locations was conducted in the reporting month.
- 4.11 During monitoring, the weather conditions were mainly sunny or cloudy. The monitoring data and graphical presentations of the monitoring results are shown in Appendix F and the Quality Control reports for the laboratory analysis are provided in Appendix G.
- 4.12 Exceedances of suspended solids (SS) were recorded in water samples in the reporting month. The exceedance reports are attached in Appendix H. The summary of exceedances for each water quality parameters are provided in Table 4.4.

Table 4.4 Summary of Water Quality Exceedances in the reporting month

Station No.	DO		pH	Turbidity		SS	
	Action	Limit	Limit	Action	Limit	Action	Limit
15 I	0	0	0	0	0	1	5
18 I	0	0	0	0	0	2	2
19 I*	0	0	0	0	0	0	0
21 I	0	0	0	0	0	3	3
23 I	0	0	0	0	0	4	0
25-I*	0	0	0	0	0	0	0
26 I	0	0	0	0	0	2	3
27 I	0	0	0	0	0	0	14
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	6
CSS I	0	0	0	0	0	3	3
TCB I	0	0	0	0	0	0	4
TCS I	0	0	0	0	0	1	1

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

4.13 As shown in the exceedance reports attached in Appendix H, all exceedances for water quality parameters recorded in the reporting month were not due to the Project based on the following observations:

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

4.14 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.

5. ENVIRONMENTAL AUDIT

Site Audits

- 5.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 5.2 ET site audits were conducted on 2, 8, 16, 23 and 30 August 2007 in the reporting month. IEC site inspections were conducted on 8 and 23 August 2007. The summaries of site audits are attached in Appendix I.

Review of Environmental Monitoring Procedures

- 5.3 The monitoring works conducted by the monitoring team were inspected regularly. The following observations were recorded for the monitoring works:

Air Quality Monitoring

- The monitoring team recorded all observations around the monitoring stations within and outside of the construction site.
- The monitoring team recorded the temperature, air pressure and weather conditions on the monitoring day.

Noise Monitoring

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- Major noise sources were identified and recorded. Other intrusive noise attributing to the result was trimmed off by pausing the monitoring temporarily.

Water Quality Monitoring

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- The monitoring team recorded the weather and river conditions on the monitoring day.

Status of Environmental Licensing and Permitting

- 5.4 All permits/licenses obtained for the Project are summarized in Table 5.1.

Table 5.1 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	Construction of (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-RW0052-07	24/2/07	23/8/07	Construction Noise Permit for Cheung Tung Road near Sunny Bay Station	Expired
GW-RS0280-07	14/05/07	13/11/07	Construction Noise Permit for Zones B to F	Valid
GW-RS0281-07	14/05/07	13/11/07	Construction Noise Permit for Zones 2 to 6	Valid
GW-RS0526-07	22/08/07	19/02/08	Construction Noise Permit for operation of wastewater treatment facilities at Shek Mun Kap	Valid
GW-RS0527-07	23/08/07	19/02/08	Construction Noise Permit operation of wastewater treatment facilities at San Shek Wan	Valid

Status of Waste Management

- 5.5 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.
- 5.6 The solid waste generated from the Project was mainly general refuse that was collected by a licensed collector on an as need basis.
- 5.7 The monthly summary of waste flow table and the timber summary for August 2007 are provided in Appendix O, except the total quantity of waste generated and quantity of reused soil and fill will be updated in next Waste Flow Table.

Implementation Status of Environmental Mitigation Measures

- 5.8 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations are summarized in Table 5.2.

Table 5.2 Observations and Recommendations of Site Inspections

Parameters	Date	Observations and Recommendations	Follow-up
<i>Water Quality</i>	02/08/07	Exposed slope was observed near STR 10(Pier). The Contractor was recommended to provide shotcrete on it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/08/07	Exposed slope was observed near STR 10(NA). The Contractor was recommended to cover it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/08/07	Exposed slope was observed near STR 11(NA). The Contractor was recommended to cover it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/08/07	Exposed slope was observed near under STR 17. The Contractor was recommended to cover it.	Rectification/improvement was observed during the follow-up audit session.
	02/08/07	Exposed slope was observed near RW22. The Contractor was recommended to cover it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/08/07	Exposed slope was observed near RW20. The Contractor was recommended to cover it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/08/07	Exposed slope was observed near RW27. The Contractor was recommended to cover it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/08/07	Exposed slope was observed near STR17 (NA). The Contractor was recommended to cover it.	Rectification/improvement was observed during the follow-up audit session.
	02/08/07	Exposed slope was observed near RW16. The Contractor was recommended to cover it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/08/07	Stockpile without covering was observed near RW19. The Contractor was recommended to cover it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
<i>Water Quality</i>	02/08/07	Exposed soil surface was observed on the platform of STR14. The Contractor was recommended to provide shotcrete on it.	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
	02/08/07	Insufficient temporary drainage system was observed at STR 12 (SA). The Contractor was recommended to improve it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/08/07	Insufficient temporary drainage system was observed at STR 5. The Contractor was recommended to improve it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/08/07	Insufficient temporary drainage system was observed at STR 12 (NA). The Contractor was recommended to improve it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	02/08/07	Soil and mud fallen on u-channel near CH6800 was observed. The Contractor was recommended to remove the fallen soil and mud.	Rectification/improvement was observed during the follow-up audit session.
	08/08/07	Exposed slope was observed near STR 9. The Contractor was recommended to cover it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/08/07	Exposed slope was observed near STR 10(NA). The Contractor was recommended to cover it	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/08/07	Exposed slope was observed near STR 11(NA). The Contractor was recommended to cover it.	Rectification/improvement was observed during the follow-up audit session.
	08/08/07	Exposed slope was observed near RW22. The Contractor was recommended to cover it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/08/07	Exposed slope was observed near RW20. The Contractor was recommended to cover it.	Rectification/improvement was observed during the follow-up audit session.
	08/08/07	Exposed slope was observed near RW27. The Contractor was recommended to cover it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/08/07	Exposed slope was observed near RW16. The Contractor was recommended to cover it.	This item was considered inapplicable on the follow-up audit session because construction activity was being carried out at RW16. The Contractor was reminded to cover the slope when construction activity was not carried out there.

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	08/08/07	Accumulated silt and mud was observed at sedimentation tank near RW22. The Contractor was recommended to clear the accumulated silt and mud.	Rectification/improvement was observed during the follow-up audit session.
	08/08/07	Accumulated silt and mud was observed at sedimentation tank near Stream 30. The Contractor was recommended to clear the accumulated silt and mud.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/08/07	Stockpile without covering was observed near RW19. The Contractor was recommended to cover it.	This item was considered inapplicable on the follow-up audit session because construction activity was being carried out at RW19.
	08/08/07	Exposed soil surface was observed on the platform of STR14. The Contractor was recommended to provide shotcrete on it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/08/07	Insufficient temporary drainage system was observed at STR 12 (SA). The Contractor was recommended to improve it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/08/07	Insufficient temporary drainage system was observed at STR 5. The Contractor was recommended to improve it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/08/07	Insufficient temporary drainage system was observed at STR 12 (NA). The Contractor was recommended to improve it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/08/07	Insufficient temporary drainage system was observed at STR 10 (Pier). The Contractor was recommended to improve it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	08/08/07	Silt and mud on the platform near Stream 27 was observed. The Contractor was recommended to provide sorting on the source of rock to prevent the silt mixed with rock.	Rectification/improvement was observed during the follow-up audit session.
	16/08/07	Exposed slope was observed near STR 9. The Contractor was recommended to cover it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/08/07	Exposed slope was observed near STR 10(NA). The Contractor was recommended to cover it.	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
<i>Water Quality</i>	16/08/07	Exposed slope was observed near RW22. The Contractor was recommended to cover it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/08/07	Exposed slope was observed near RW27. The Contractor was recommended to cover it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/08/07	Discharge of site runoff without treatment was observed at STR12 (SA). The Contractor was recommended to provide treatment of site runoff before discharge.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/08/07	Accumulated silt and mud was observed at sedimentation tank near Stream 30. The Contractor was recommended to clear the accumulated silt and mud.	Rectification/improvement was observed during the follow-up audit session.
	16/08/07	Exposed soil surface was observed on the platform near STR14. The Contractor was recommended to provide shotcrete on it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/08/07	Insufficient temporary drainage system was observed at STR 12 (SA). The Contractor was recommended to improve it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/08/07	Insufficient temporary drainage system was observed at STR 5. The Contractor was recommended to improve it.	Rectification/improvement was observed during the follow-up audit session.
	16/08/07	Insufficient temporary drainage system was observed at STR 12 (NA). The Contractor was recommended to improve it.	This item was considered inapplicable on the follow-up audit session.
	16/08/07	Insufficient temporary drainage system was observed at STR 10 (Pier). The Contractor was recommended to improve it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	16/08/07	Insufficient temporary drainage system was observed at STR 14 (NA). The Contractor was recommended to improve it.	Rectification/improvement was observed during the follow-up audit session.
	16/08/07	Poor efficiency of sedimentation tank was observed near RW15. The Contractor was recommended to add coagulant in the sedimentation tank to improve the silt removal efficiency.	Rectification/improvement was observed during the follow-up audit session.
	23/08/07	Exposed slope was observed near STR 9. The Contractor was recommended to cover it.	Rectification/improvement was observed during the follow-up audit session.
	<i>Water Quality</i>	23/08/07	Exposed slope was observed near RW02. The Contractor was recommended to cover it.
23/08/07		Exposed slope was observed near RW22. The Contractor was recommended to cover it.	Rectification/improvement was observed during the follow-up audit session.

Parameters	Date	Observations and Recommendations	Follow-up
	23/08/07	Exposed slope was observed near RW27. The Contractor was recommended to cover it.	Rectification/improvement was observed during the follow-up audit session.
	23/08/07	Stockpile of soil without covering was observed near RW15. The Contractor was recommended to cover it.	Rectification/improvement was observed during the follow-up audit session.
	23/08/07	Oil spillage was observed on the haul road near STR8. The Contractor was recommended to clear the oil.	Rectification/improvement was observed during the follow-up audit session.
	23/08/07	Exposed soil surface was observed on the platform near STR14. The Contractor was recommended to provide shotcrete on it	Rectification/improvement was observed during the follow-up audit session.
	23/08/07	Exposed soil surface was observed on the platform near STR12 (SA). The Contractor was recommended to provide shotcrete on it.	Rectification/improvement was observed during the follow-up audit session.
	23/08/07	Insufficient temporary drainage system was observed at STR 5. The Contractor was recommended to improve it.	Rectification/improvement was observed during the follow-up audit session.
	23/08/07	Insufficient temporary drainage system was observed at STR 10 (Pier). The Contractor was recommended to improve it.	Rectification/improvement was observed during the follow-up audit session.
	23/08/07	Insufficient temporary drainage system was observed at STR 14 (NA). The Contractor was recommended to improve it.	Rectification/improvement was observed during the follow-up audit session.
	23/08/07	Poor efficiency of sedimentation tank was observed near RW15. The Contractor was recommended to add coagulant in the sedimentation tank to improve the silt removal efficiency.	Rectification/improvement was observed during the follow-up audit session.
	23/08/07	Muddy haul road was observed near STR9. The Contractor was recommended to clear the mud there.	Rectification/improvement was observed during the follow-up audit session.
	23/08/07	Insufficient temporary drainage system was observed near Wong Ka Wai. The Contractor was recommended to improve it.	This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item.
	30/08/07	Insufficient temporary drainage system was observed near Wong Ka Wai. The Contractor was recommended to improve it.	This item will be followed up in the next audit session.
	30/08/07	Exposed slope was observed near RW16. The Contractor was recommended to cover it.	This item will be followed up in the next audit session.
	30/08/07	Stagnant water was observed near STR20. The Contractor was recommended to clear it.	This item will be followed up in the next audit session.
	30/08/07	Stockpile without covering was observed near STR13 (SA). The Contractor was recommended to cover it	This item will be followed up in the next audit session.
Air Quality	02/08/07	Black smoke emitted from excavators was observed. The Contractor was recommended to provide plant equipment maintenance.	Rectification/improvement was observed during the follow-up audit session.
	02/08/07	The Contractor was reminded of the followings: - Provide watering for rock breaking activity at STR14 (NA).	This item was considered inapplicable on the follow-up audit session

Parameters	Date	Observations and Recommendations	Follow-up
	08/08/07	The Contractor was reminded of the followings: - Provide watering for rock breaking activity at STR12 (NA).	Rectification/improvement was observed during the follow-up audit session.
	16/08/07	Fugitive dust emitted from soil nailing works was observed at RW06. The Contractor was recommended to implement more dust mitigation measure on soil nailing works.	This item was considered inapplicable on the follow-up audit session.
	16/08/07	The Contractor was reminded of the followings: - Review and provide proper maintenance for backhoe to prevent emission of black smoke.	Rectification/improvement was observed during the follow-up audit session.
	30/08/07	Rock breaking without watering was observed near CH3600 and Shek Mun Kap. The Contractor was recommended to provide watering for rock breaking activity.	This item will be followed up in the next audit session.
Waste/Chemical Management	02/08/07	The Contractor was reminded of the followings: - Remove C&D waste near STR12 (SA).	Rectification/improvement was observed during the follow-up audit session.
	08/08/07	The Contractor was reminded of the followings: - Remove general refuse on Stream 28.	Rectification/improvement was observed during the follow-up audit session.
	23/08/07	The Contractor was reminded of the followings: - Remove C&D waste on Stream 34.	Rectification/improvement was observed during the follow-up audit session.

Non-compliance Recorded during Site Inspections

5.9 No non-compliance was recorded in the reporting period.

Summary of Mitigation Measures Implemented

5.10 The Contractor has implemented the mitigation measures as recommended in the EIA and the Updated EM&A Manual. The mitigation measures implemented by the Contractor in the reporting month are summarized as follow:

Water Quality

- (1) Covered the exposed slope near STR 17.
- (2) Covered the exposed slope near STR 17(NA).
- (3) Cleared fallen soil and mud in the u-channel near CH 6800.
- (4) Covered the exposed slope near STR 11(NA).
- (5) Covered the exposed slope near RW20.
- (6) Cleared the accumulated silt and mud in the sedimentation tank near RW22.
- (7) Provided sorting on the source of rock near Stream 27
- (8) Cleared the accumulated silt and mud in the sedimentation tank near Stream 30.
- (9) Improved the temporary drainage system was near STR 5.
- (10) Improved the temporary drainage system was at STR 14(NA).
- (11) Added coagulant in the sedimentation tank was observed at near RW15.
- (12) Covered the exposed slope near STR 9

- (13) Covered the exposed slope near RW02.
- (14) Covered the exposed slope near RW22.
- (15) Covered the exposed slope near RW27.
- (16) Covered stockpile of soil was observed near RW 15
- (17) Cleared oil on the haul road near STR 8.
- (18) Covered the exposed slope near STR14.
- (19) Covered the exposed slope near STR12 (SA).
- (20) Improved the temporary drainage system was at STR 5.
- (21) Improved the temporary drainage system was at STR 10(Pier).
- (22) Cleared mud on haul road near STR 9.

Air Quality

- (23) Provided plant equipment maintenance on excavators.
- (24) Provided watering for rock breaking activity at STR 12(NA).
- (25) Reviewed and provided proper maintenance for backhoe.

Waste/Chemical Management

- (26) Removed C&D waste near STR 12 (SA)
- (27) Removed general waste on Stream 28.
- (28) Removed C&D waste on Stream 34.

- 5.11 According to the Updated EM&A Manual, mitigation measures are required to be implemented. An updated summary of the EMIS is provided in Appendix J.

Summary of Exceedances of the Environmental Quality Performance Limit

24-hr TSP Monitoring

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

Construction Noise Monitoring

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

Water Quality Monitoring

- 5.14 Exceedances of suspended solids (SS) were recorded in water samples in the reporting month. The summary of exceedances is provided in Table 4.4.

- 5.15 All exceedances recorded for water quality parameters in the reporting month were not considered due to the Project due to 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.

- 5.16 No direct evidence demonstrated the exceedances of Action/Limit level for water

monitoring parameters in the reporting month were caused by the Project.

Implementation Status of Event Action Plans

- 5.17 The Event Action Plans for air quality, noise and water quality are presented in Appendix K.
- 5.18 No valid exceedance of Action and Limit levels for air quality, noise and water quality monitoring due to the Project was recorded. No action was required to be carried out.

Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

- 5.19 One environmental complaint was received in the reporting month.
- 5.20 The complaint was referred to the ETL by the Contractor on 6th September 2007. It was lodged by Mr. Ho on 6th August 2007 regarding overflow of construction site runoff.
- 5.21 The complaint is under investigation by ET, more detail will be provided after the complaint investigation is finished.
- 5.22 No warning, summons and notifications of successful prosecution was received in the reporting month.
- 5.23 There were a total of 50 environmental complaints, 10 warnings, 3 summons and 2 successful prosecutions received since the commencement of the Project.
- 5.24 The Complaint Log is attached in Appendix L and the summary of warnings issued by the EPD and prosecution is attached in Appendix M.

6. FUTURE KEY ISSUES

Key Issues for the Coming Month

6.1 Key issues to be considered in the coming month include:

- Dust generation from stockpiles of dusty materials, exposed retain wall and excavation works;
- Noise from operation of the equipment, especially for rock-breaking activities, and machinery on-site;
- Regular removal of mud, sand and silt along u-channels and sedimentation tanks;
- Wastewater discharge from site;
- Storage of chemicals/fuel and chemical waste/waste oil on site;
- Proper storage of construction material near streams; and
- Review and implementation of temporary drainage system for the surface runoff.
- Watering for rock breaking activity and in haul road.

Monitoring Schedule for the Next Month

6.2 The tentative monitoring schedule for the next month is given in Appendix C.

Construction Program for the Project (Construction Program for the Next Month)

6.3 The major construction activities in the coming month include:

Northern Section

- Road and drainage works and underground utilities works at Zone A;
- Road and drainage works and underground utilities works at Zone B;
- Road and drainage works, underground utilities works and soil nail works at Zone C;
- Construction of retaining wall at Zone D;
- Construction of RW010 and RW011 at Zone E; and
- Drainage and utilities works at CH3850 to CH4250, construction of pump room at CH4400 at Zone F.

Southern Section

- Road and drainage works at Zone 1

- Road and drainage works and Zone 2;
- Construction of retaining wall, road and drainage works at Zone 3;
- Backfilling, soil nailing and construction of retaining wall at Zone 4;
- Backfilling, soil nailing and construction of retaining wall at Zone 5.
- Construction of RW039, RW015, RW014 and RW017, RW018, STR07 and soil nail works at RW039 at Zone 6.

7. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

- 7.1 Air quality, noise and water quality monitoring works were performed in the reporting month and all monitoring results were checked and reviewed.
- 7.2 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded in the reporting month.
- 7.3 Construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded in the reporting month.
- 7.4 Water quality monitoring was conducted as scheduled in the reporting month. No valid Action/Limit Level exceedance for water quality was recorded in the reporting month.
- 7.5 One environmental complaint was received in the reporting month.
- 7.6 No warning, summons and notifications of successful prosecution was received in the reporting month.

Recommendations

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

Dust Impact

- To maintain the machinery and vehicles in a good working condition on site.
- To implement dust suppression measures on all haul roads, stockpiles and dry surfaces.
- To implement dust control measures for the dust generation work such as excavation and piling works.
- 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 sheets or other means.
- To ensure that all vehicles carrying dusty material are properly covered before leaving the 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.

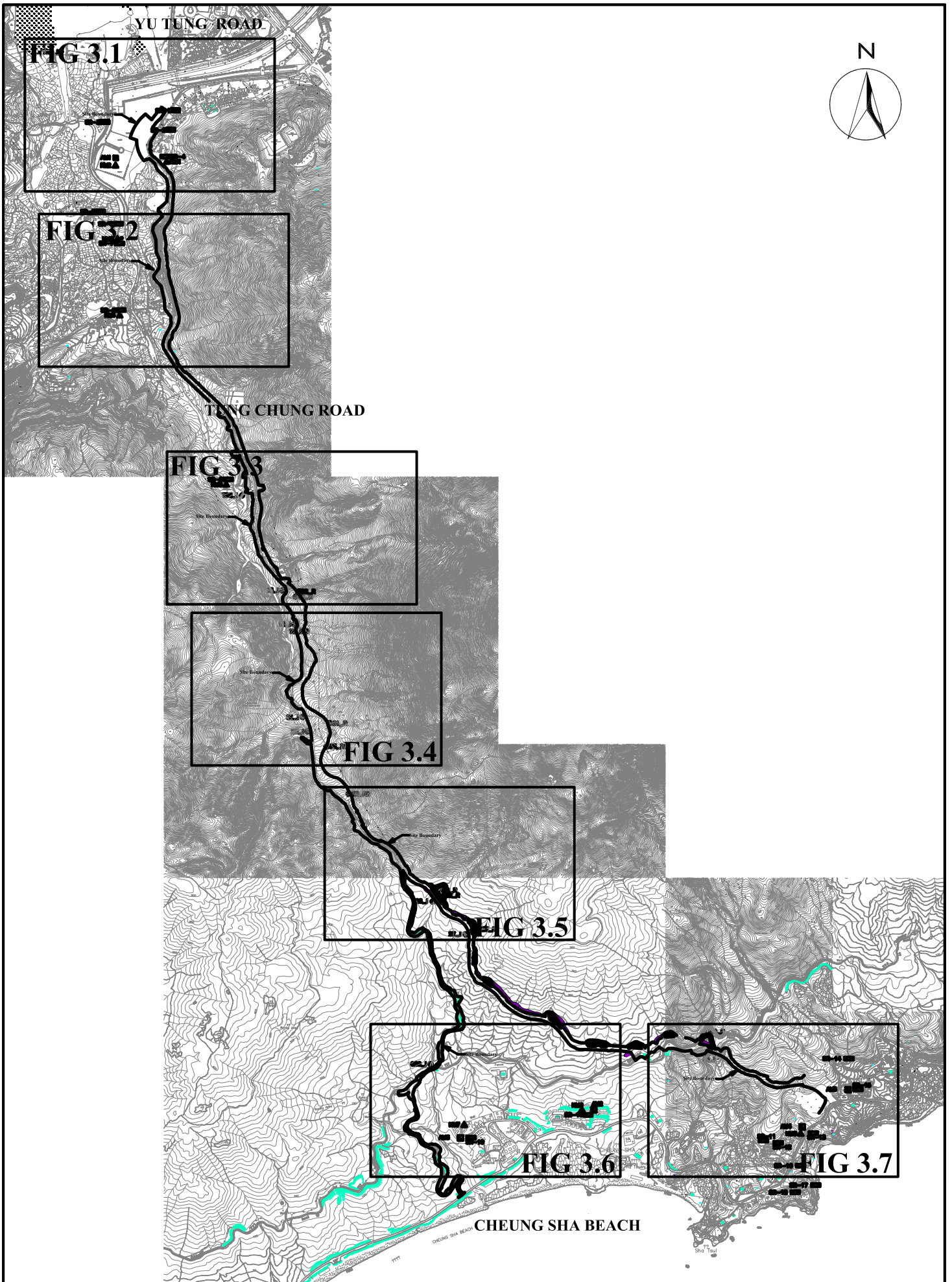
Water Quality Impact

- 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 for the upcoming wet season.
- To review the capacity of de-silting facilities for discharge.
- To avoid stagnant water accumulation 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.

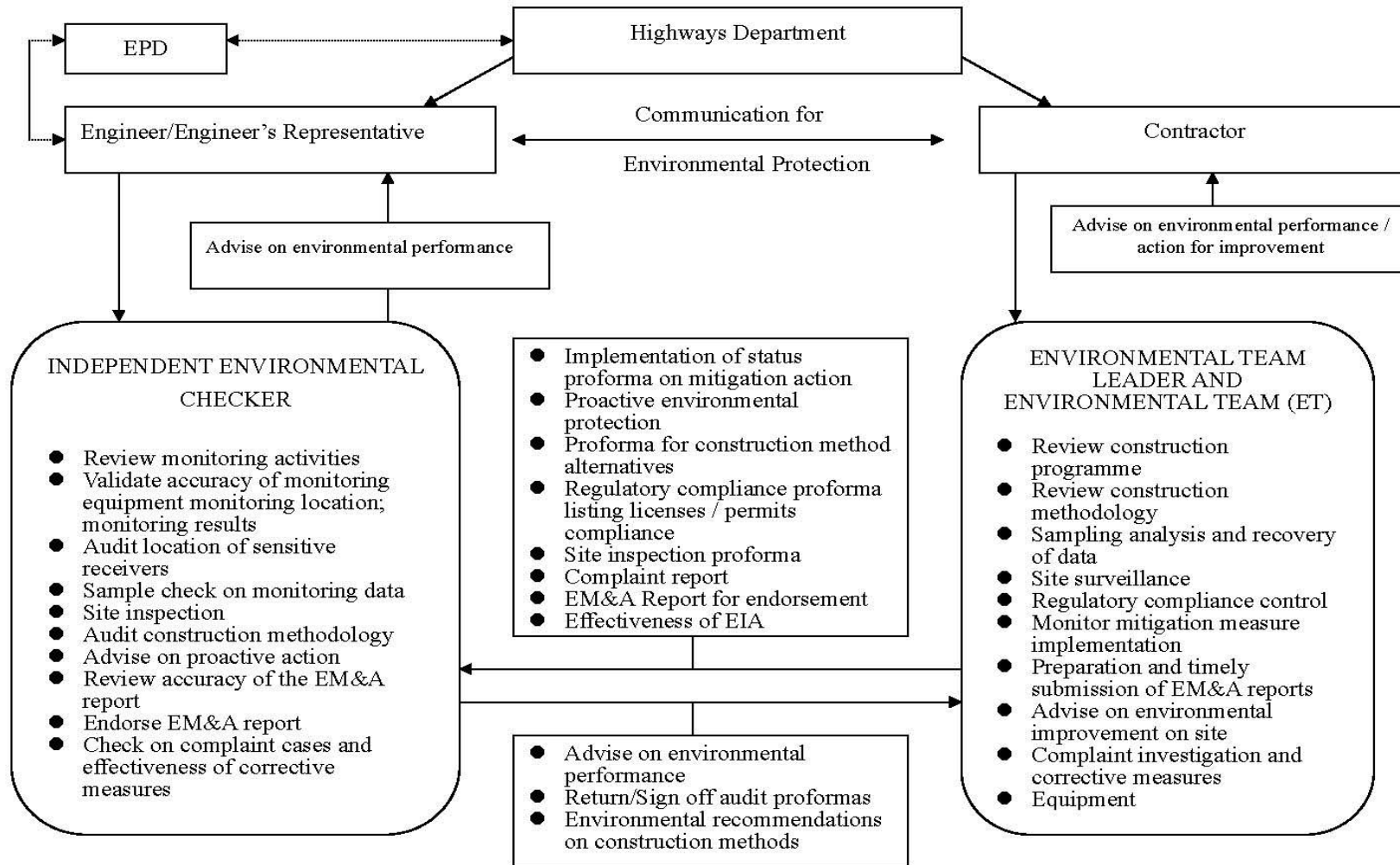
Waste / Chemical Management

- 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 any discharge or accidental spillage of chemical waste directly from the site.
- To check for any accumulation of waste materials or rubbish on site.
- To remove ponding water regularly in drip trays on site.

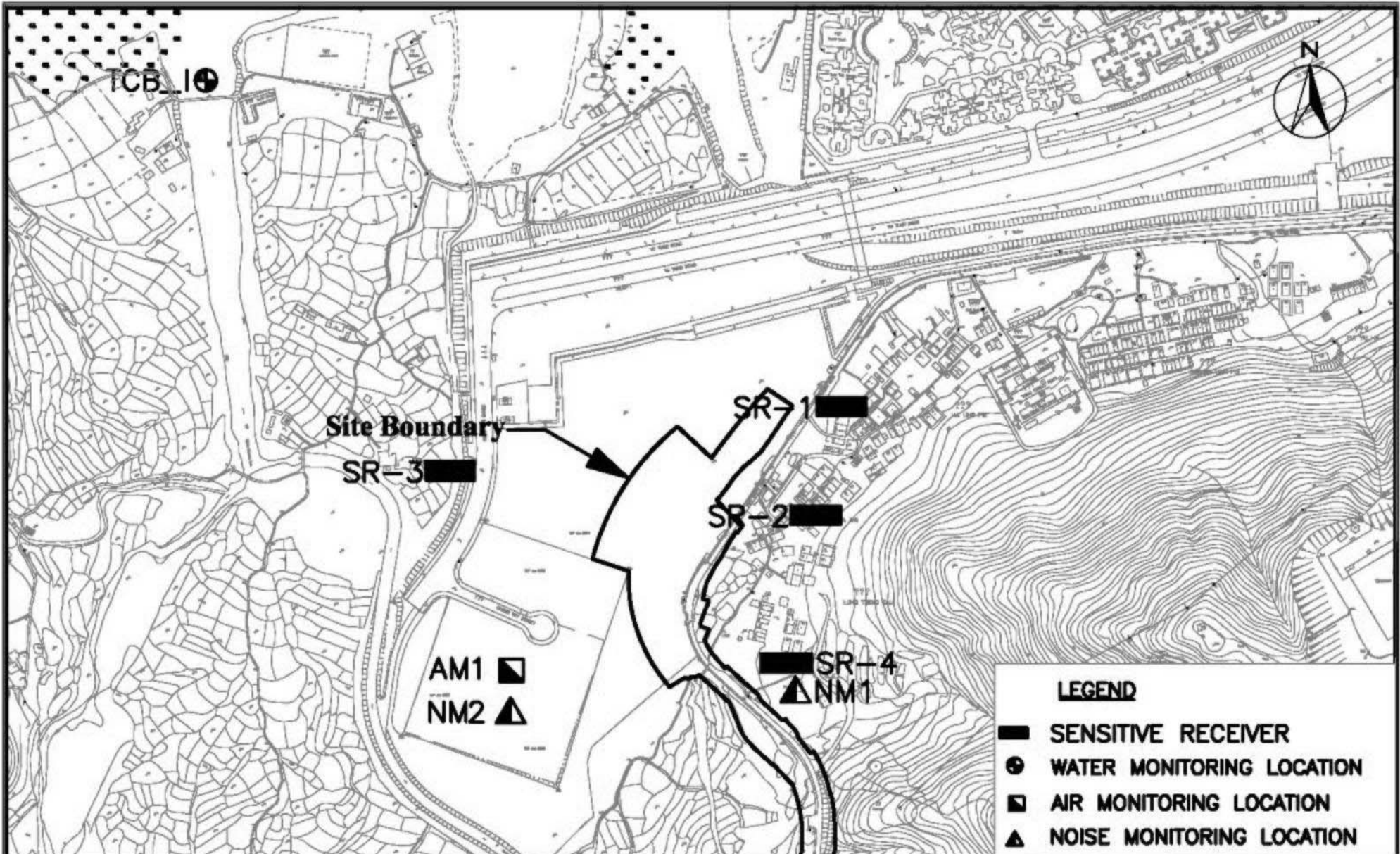
FIGURES



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



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



LEGEND

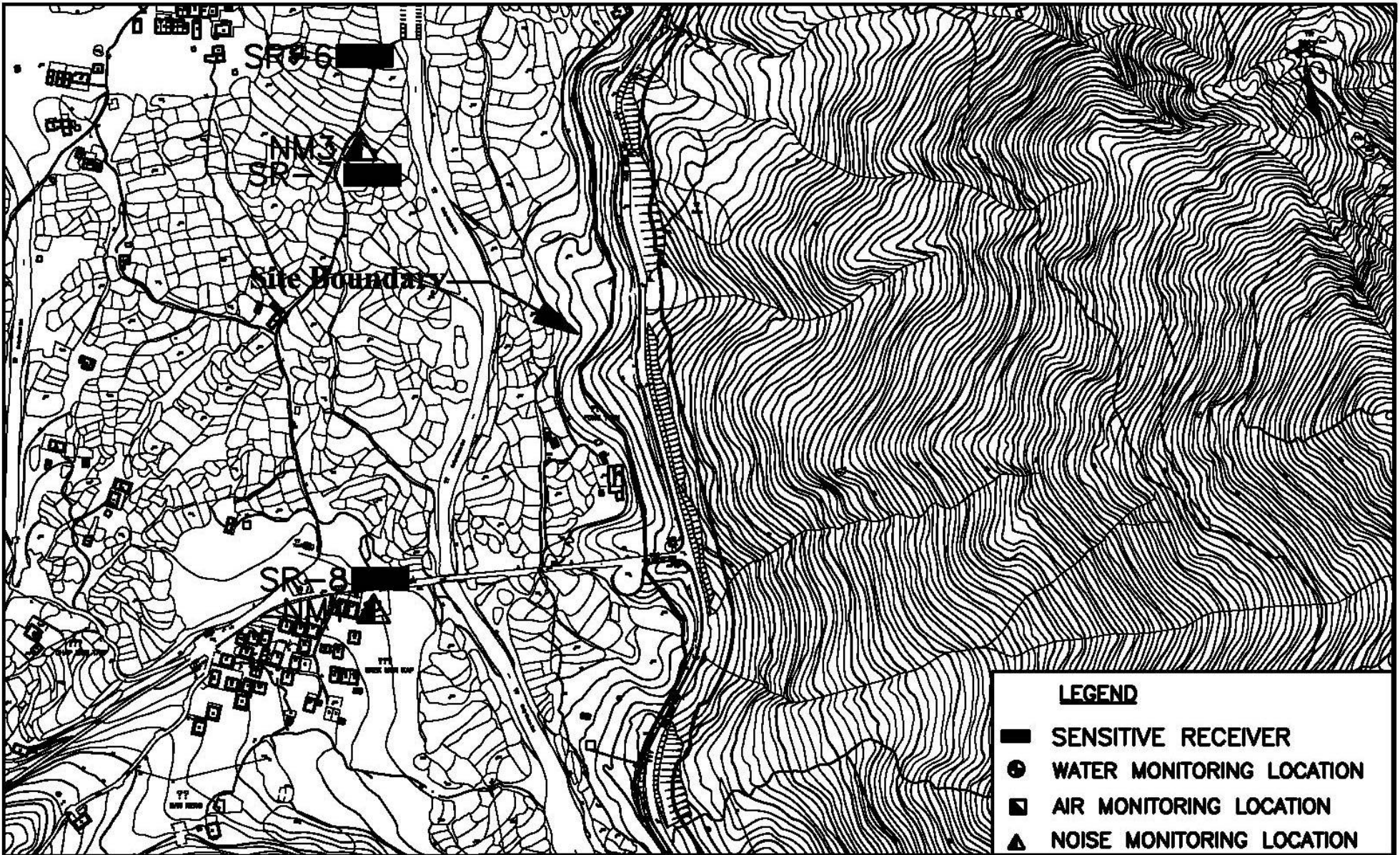
- SENSITIVE RECEIVER
- ⊕ WATER MONITORING LOCATION
- AIR MONITORING LOCATION
- ▲ NOISE MONITORING LOCATION





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

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

MONITORING LOCATIONS
(SHEET 1 OF 7)





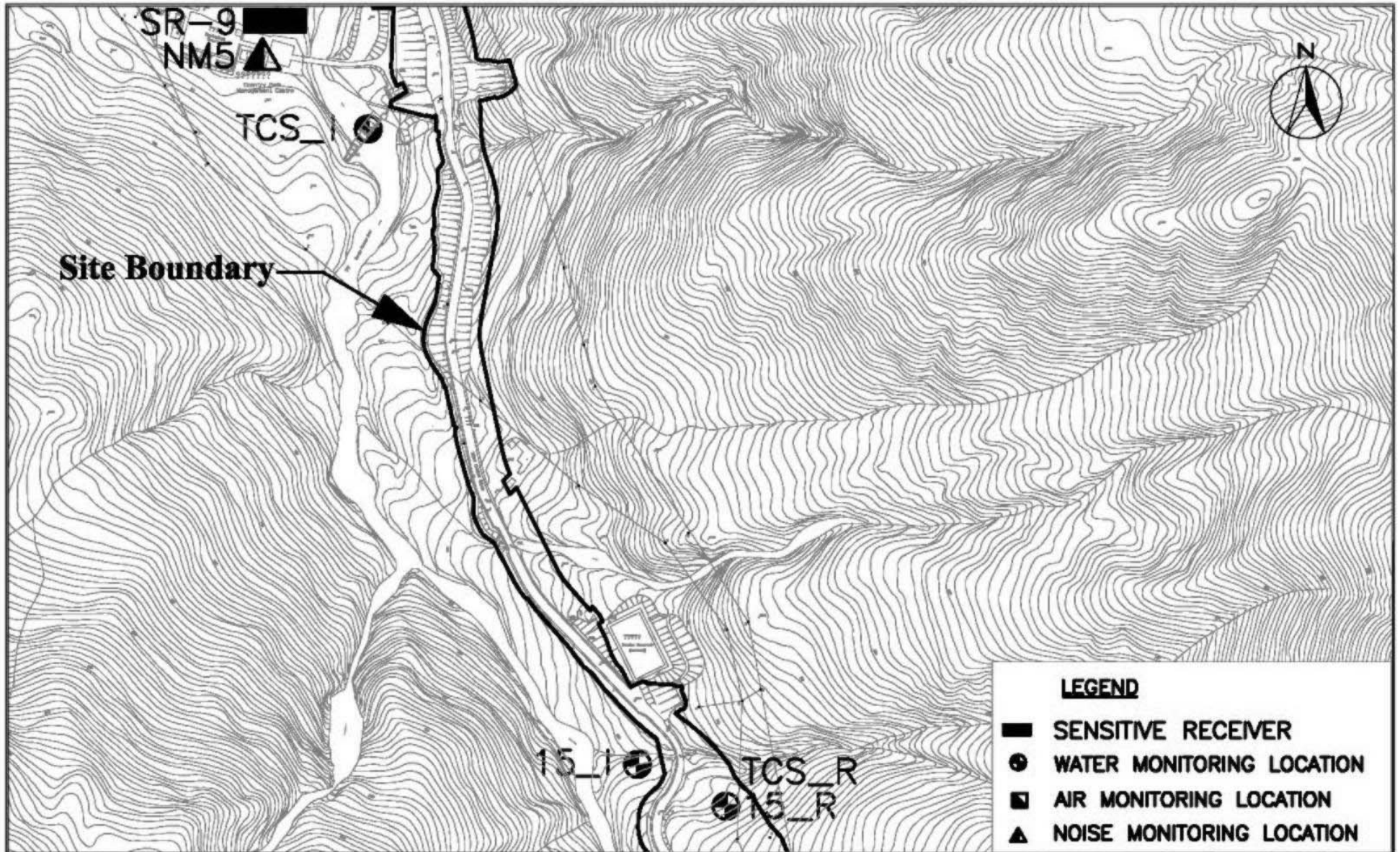
LEGEND	
	SENSITIVE RECEIVER
	WATER MONITORING LOCATION
	AIR MONITORING LOCATION
	NOISE MONITORING LOCATION

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

CNOTECH
Cinotech Consultants Limited

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

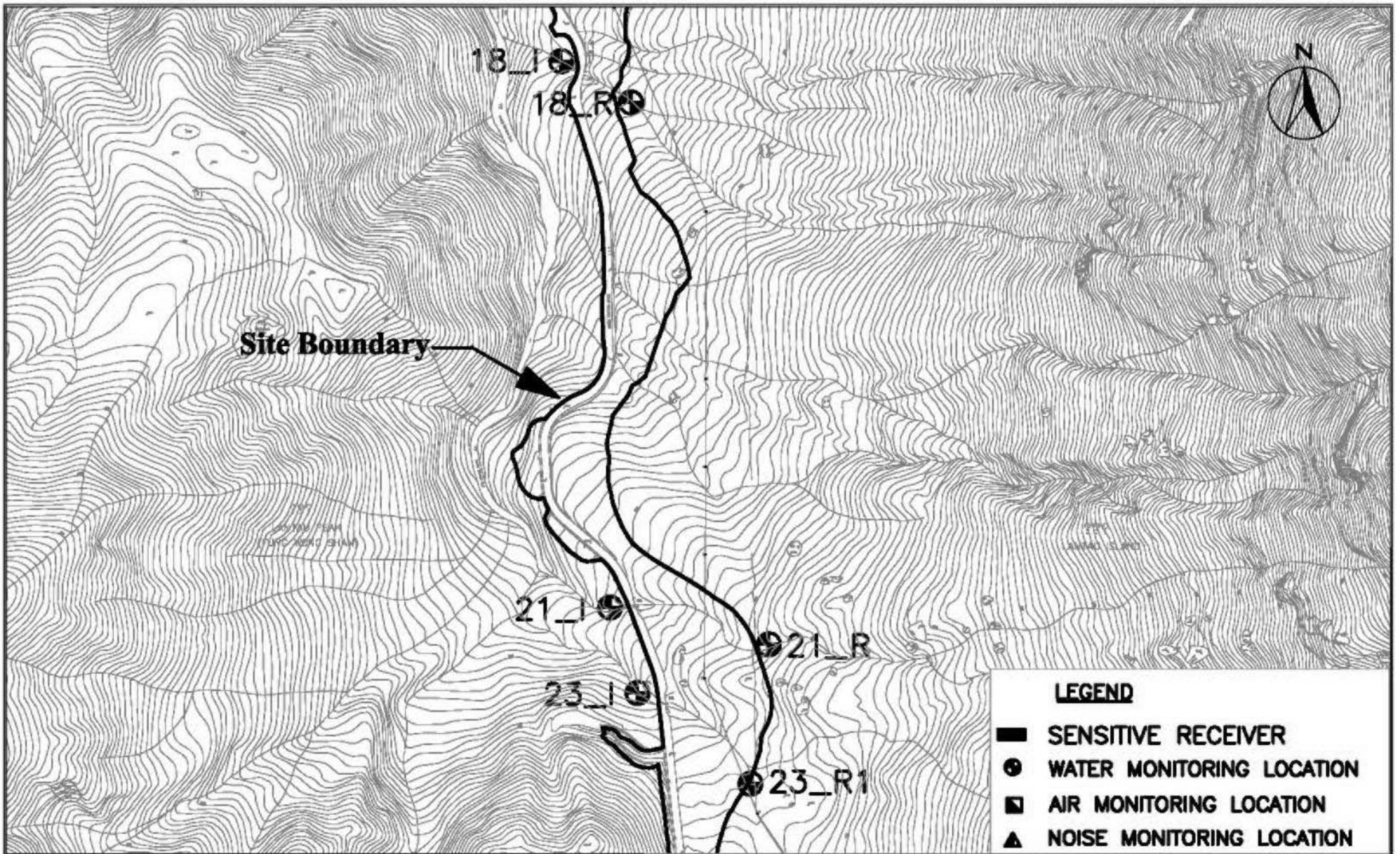
SCALE	A4 1:4000	DATE	OCT 2006
CHECK	JY	DRAWN	VL
JOB No.	MA6030	DRAWING No.	FIG 3.2
		REV	1



LEGEND

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

 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

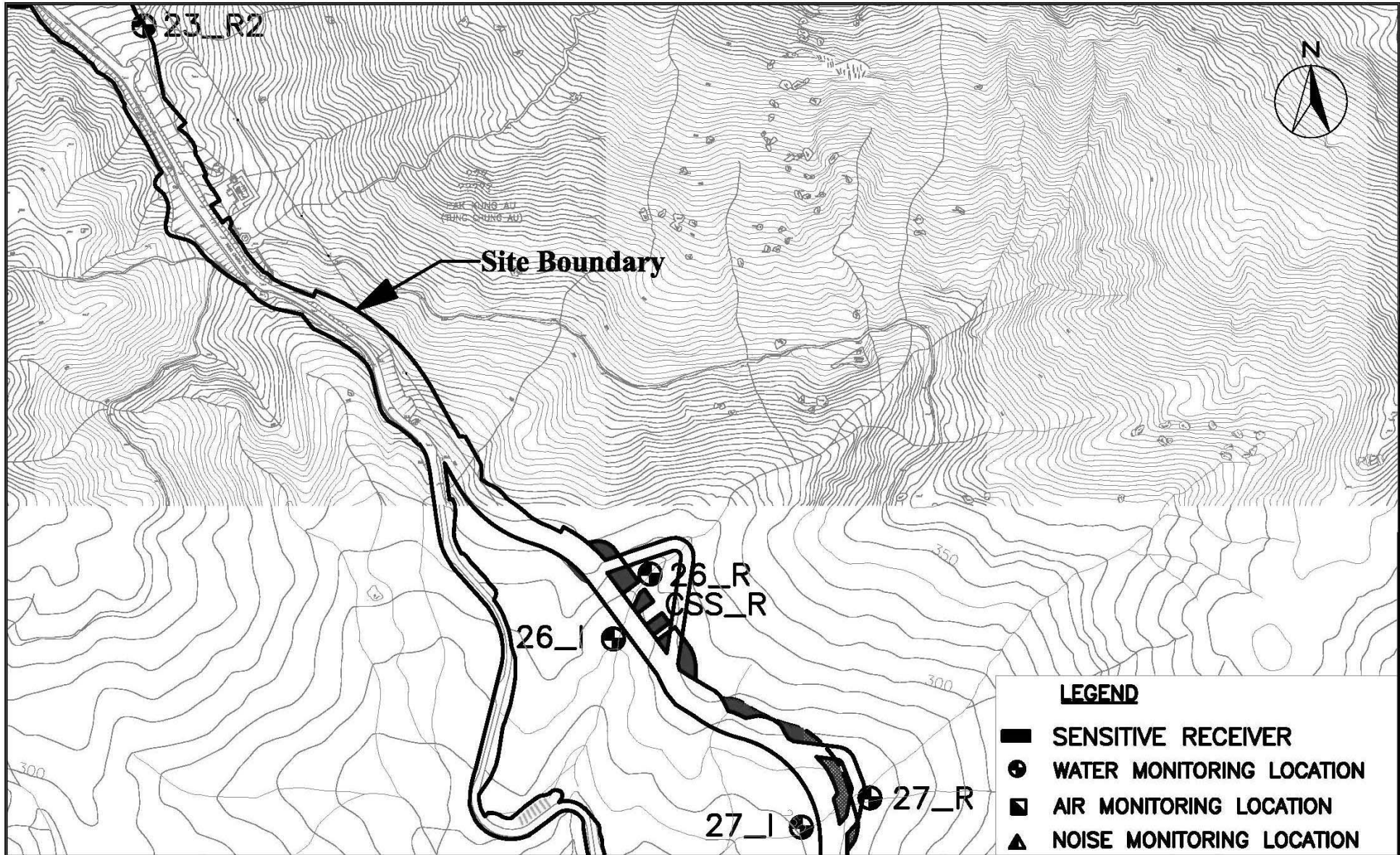
- SENSITIVE RECEIVER
- WATER MONITORING LOCATION
- ▣ AIR MONITORING LOCATION
- ▲ NOISE MONITORING LOCATION



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

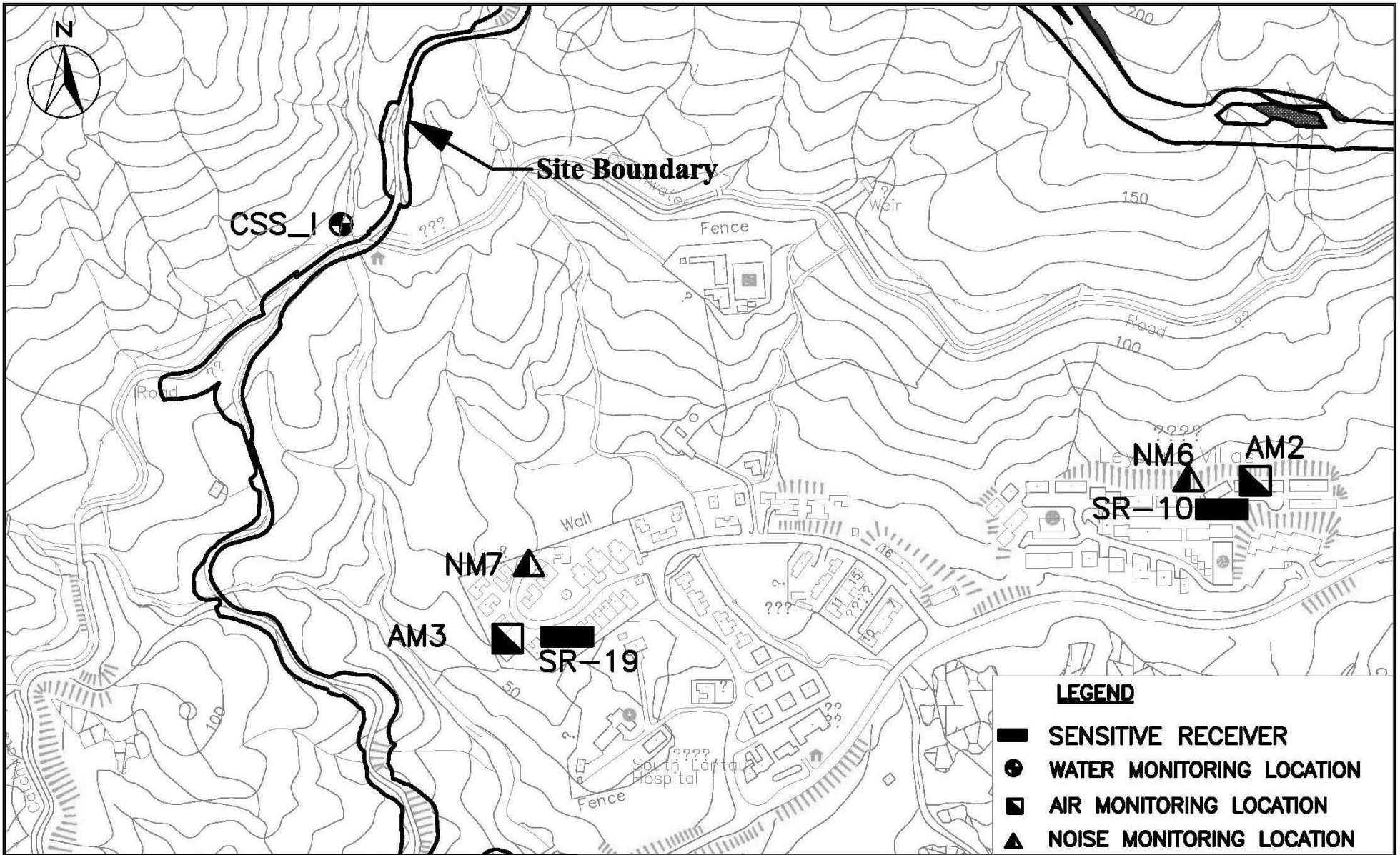


IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSENG TAU AND CHEUNG SHA



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

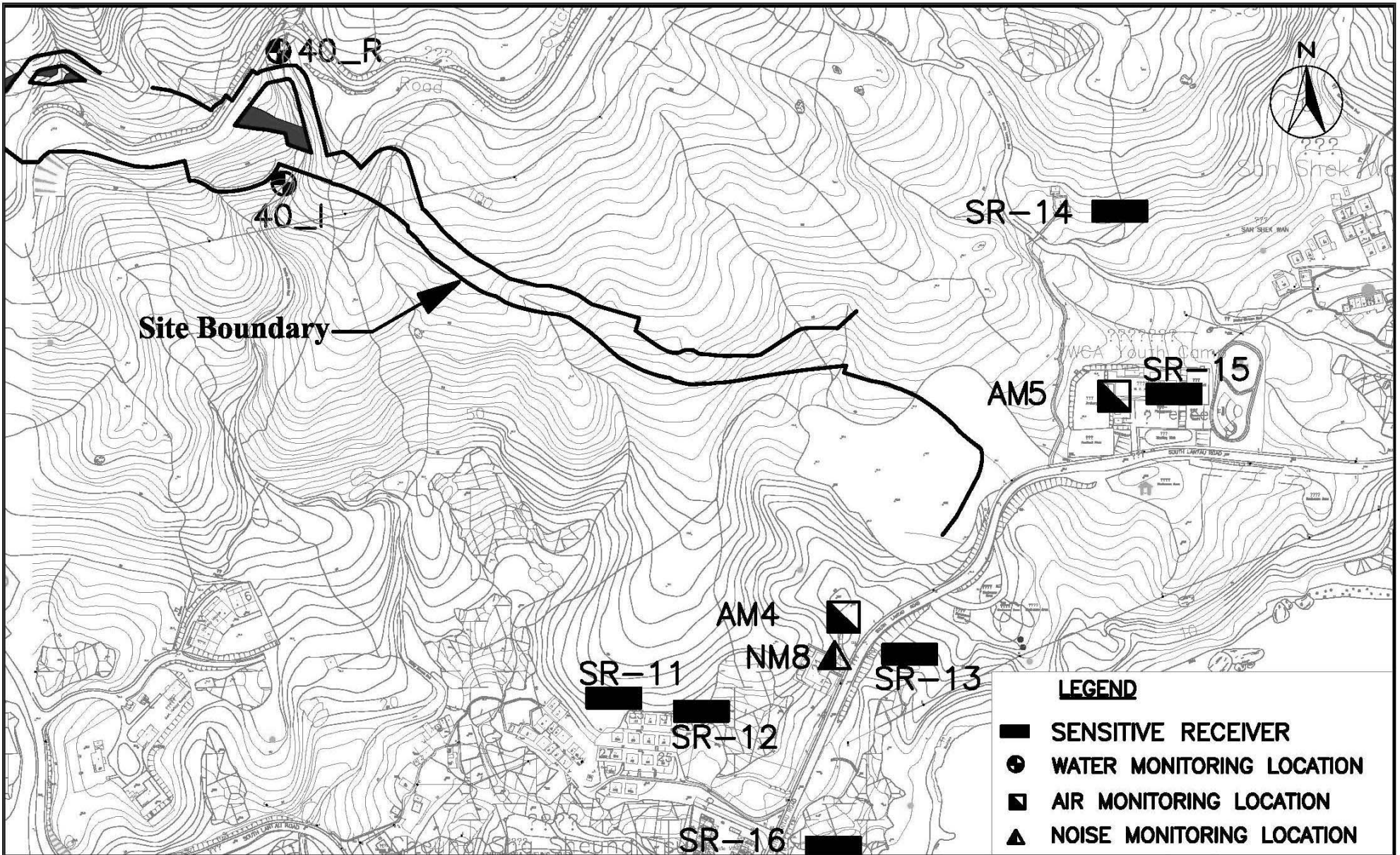
SCALE	A4 1:4000	DATE	OCT 2006
CHECK	JY	DRAWN	VL
JOB No.	MA6030	DRAWING No.	FIG 3.5
		REV	1



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

 Cinotech Consultants Limited	IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSENG TAU AND CHEUNG SHA	
	MONITORING LOCATIONS (SHEET 6 OF 7)	

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



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



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

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

**APPENDIX A
ACTION AND LIMIT LEVELS FOR AIR
QUALITY, NOISE AND WATER
QUALITY**

Appendix A - Action and Limit Levels

Table A-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 A-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 A-3 Action and Limit Levels for Construction Noise

Period	Action Level ⁽²⁾	Limit Level	
		0700-1900 hrs on normal weekdays	When one documented complaint is received
1900-2300 hrs on holidays & 0700-2300 hrs on all other days	- ⁽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 A-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 B
COPIES OF CALIBRATION
CERTIFICATES**

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

CINOTECH

File No. MA6030/AM4/0005

Station No. 31 South Lantau Road (AM4) Operator: WK
 Date: 13-Jun-07 Next Due Date: 12-Aug-07
 Equipment No.: A-01-06 Serial No. 10576

Ambient Condition			
Temperature, Ta (K)	301.8	Pressure, Pa (mmHg)	755.6

Orifice Transfer Standard Information					
Equipment No.:	A-04-05	Slope, mc	0.0575	Intercept, bc	0.0395
Last Calibration Date:	12-Mar-07	$mc \times Q_{std} + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	11-Mar-08	$Q_{std} = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of oil	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	11.2	3.32	56.98	8.0	2.80
2	9.5	3.05	52.42	6.1	2.45
3	7.0	2.62	44.90	4.4	2.08
4	5.1	2.24	38.23	3.1	1.74
5	3.2	1.77	30.14	1.7	1.29

By Linear Regression of Y on X

Slope, $m_w =$ 0.0546 Intercept, $b_w =$ -0.3585
 Correlation coefficient* = 0.9978

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$m_w \times Q_{std} + b_w = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; $W = (m_w \times Q_{std} + b_w)^2 \times (760 / Pa) \times (Ta / 298) =$ 4.03

Remarks: _____

Conducted by: W.K. Tang Signature: _____
 Checked by: [Signature] Signature: _____

Date: 13/6/07
 Date: 13 June 2007

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

CINOTECH

File No. MA6030/AM4/0006

Station No. 31 South Lantau Road (AM4) Operator: WK
 Date: 15-Aug-07 Next Due Date: 14-Oct-07
 Equipment No.: A-01-06 Serial No. 10576

Ambient Condition			
Temperature, Ta (K)	301.5	Pressure, Pa (mmHg)	750.2

Orifice Transfer Standard Information					
Equipment No.:	A-04-05	Slope, mc	0.0575	Intercept, bc	0.0395
Last Calibration Date:	12-Mar-07	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	11-Mar-08	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of oil	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	11.6	3.36	57.82	8.4	2.86
2	9.2	3.00	51.42	6.3	2.48
3	7.3	2.67	45.73	4.9	2.19
4	5.0	2.21	37.72	3.2	1.77
5	3.3	1.79	30.52	2.0	1.40

By Linear Regression of Y on X

Slope, mw = 0.0533 Intercept, bw : -0.2411
 Correlation coefficient* = 0.9996

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W = $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 4.31

Remarks: _____

Conducted by: W.K. Tang Signature: _____
 Checked by: JL Signature: _____

Date: 15/8/07
 Date: 15 Aug 2007

WELLAB LTD.

Unit C, 1/F, Goldlion Holdings Center
13-15 Yuen Shun Circuit,
Shatin, Hong Kong.
Tel: (852) 2898 7388
Fax: (852) 2898 7076

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Test Report No.:	C/07/70502
Date of Issue:	2007-05-02
Date Received:	2007-05-01
Date Tested:	2007-05-01
Date Completed:	2007-05-02

ATTN: Mr. Henry Leung

Page: 1 of 1

Certificate of Calibration

Item for calibration:

Description : RS232 Integral Vane Digital Anemometer
Manufacturer : AZ Instrument
Model No. : 451104
Serial No. : 9020746
Equipment No. : A-03-01

Test conditions:

Room Temperature : 21 degree Celsius
Relative Humidity : 65%
Pressure : 101.3 kPa

Methodology:

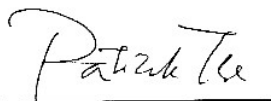
The anemometer has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

	Reference Set Point	Instrument Readings
Measuring Air Velocity, m/s	2.00	2.00
Temperature, °C	21.0	21.0

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Senior Chemist



TISCH ENVIRONMENTAL, INC.
 145 SOUTH MIAMI AVE.
 VILLAGE OF CLEVELAND, OH 45002
 513.467.9000
 877.263.7610 TOLL FREE
 513.467.9009 FAX
 WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Mar 12, 2007 Rootsmeter S/N 9833640 Ta (K) - 294
 Operator Tisch Orifice I.D. - 0999 Pa (mm) - 746.76

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.3890	3.2	2.00
2	NA	NA	1.00	0.9850	6.3	4.00
3	NA	NA	1.00	0.8810	7.8	5.00
4	NA	NA	1.00	0.8410	8.6	5.50
5	NA	NA	1.00	0.6950	12.5	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9917	0.7139	1.4113	0.9957	0.7168	0.8874
0.9876	1.0026	1.9959	0.9916	1.0067	1.2549
0.9854	1.1185	2.2315	0.9894	1.1231	1.4030
0.9844	1.1706	2.3405	0.9884	1.1753	1.4715
0.9792	1.4090	2.8227	0.9832	1.4147	1.7747
Qstd slope (m) = 2.03154			Qa slope (m) = 1.27212		
intercept (b) = -0.03970			intercept (b) = -0.02496		
coefficient (r) = 0.99999			coefficient (r) = 0.99999		
y axis = SQRT[H2O(Pa/760)(298/Ta)]			y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

Vstd = Diff. Vol [(Pa-Diff. Hg)/760] (298/Ta)
 Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa]
 Qa = Va/Time

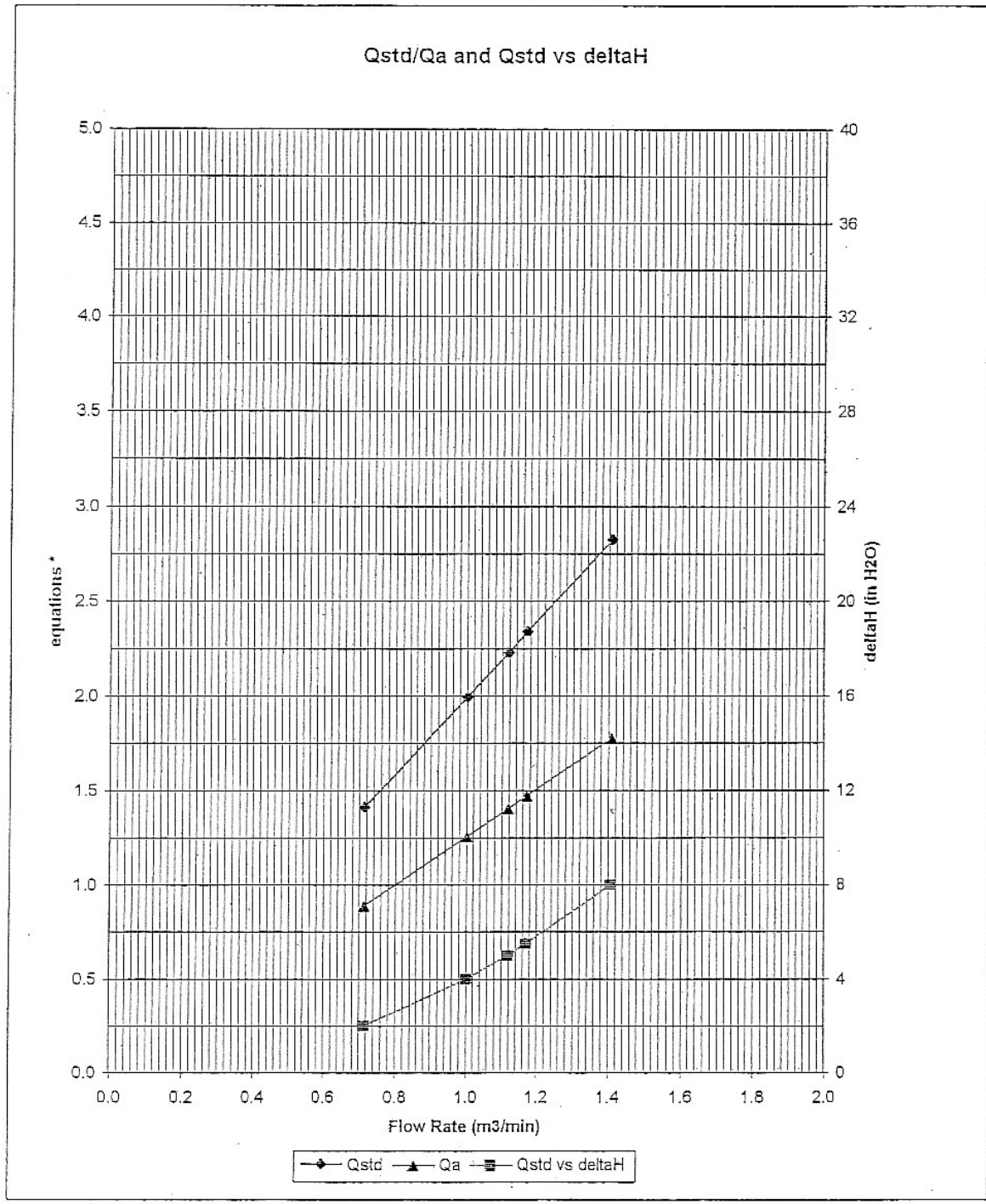
For subsequent flow rate calculations:

Qstd = 1/m{[SQRT(H2O(Pa/760)(298/Ta))] - b}
 Qa = 1/m{[SQRT H2O(Ta/Pa)] - b}



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 145 SOUTH MIAMI AVE.
 VILLAGE OF CLEVELAND, OH 45002
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 513.467.9009 FAX
 WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT



* y-axis equations:

Qstd series:
$$\sqrt{\Delta H \left(\frac{P_a}{P_{std}} \right) \left(\frac{T_{std}}{T_a} \right)}$$

Qa series:
$$\sqrt{(\Delta H (T_a / P_a))}$$

WELLAB LTD.

Unit C, 1/F, Goldlion Holdings Center
13-15 Yuen Shun Circuit,
Shatin, Hong Kong.
Tel: (852) 2898 7388
Fax: (852) 2898 7076

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Test Report No.:	C/N/61215/1
Date of Issue:	2006-12-15
Date Received:	2006-12-14
Date Tested:	2006-12-15
Date Completed:	2006-12-15
Next Due Date:	2007-12-14

ATTN: Mr. Henry Leung

Page: 1 of 1

Certificate of Calibration

Item for calibration:

Description	: Integrating Sound Level Meter
Manufacturer	: Brüel & Kjær
Model No.	: B&K 2238
Serial No.	: 2337665
Microphone No.	: 2289749
Equipment No.	: N-01-01

Test conditions:

Room Temperature	: 20 degree Celsius
Relative Humidity	: 60%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Operation Manager

WELLAB LTD.

Unit C, 1/F, Goldlion Holdings Center
13-15 Yuen Shun Circuit,
Shatin, Hong Kong.
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TEST REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Test Report No.:	C/N/61116/1
Date of Issue:	2006-11-16
Date Received:	2006-11-15
Date Tested:	2006-11-15
Date Completed:	2006-11-16
Next Due Date:	2007-11-15

ATTN: Mr. Henry Leung

Page: 1 of 1

Certificate of Calibration

Item for calibration:

Description	: Integrating Sound Level Meter
Manufacturer	: Brüel & Kjær
Model No.	: B&K 2238
Serial No.	: 2337666
Microphone No.	: 2289750
Equipment No.	: N-01-02

Test conditions:

Room Temperature	: 20 degree Celsius
Relative Humidity	: 59%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Operation Manager

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TEST REPORT

APPLICANT: Cinotech Consultants Limited
1601-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Test Report No.:	C/N/60904-1
Date of Issue:	2006-09-04
Date Received:	2006-09-02
Date Tested:	2006-09-02
Date Completed:	2006-09-04
Next Due Date:	2007-09-03

ATTN: Mr. Henry Leung

Page: 1 of 1

Certificate of Calibration

Item for calibration:

Description	: Integrating Sound Level Meter
Manufacturer	: Brüel & Kjær
Model No.	: B&K 2238
Serial No.	: 2359311
Microphone No.	: 2346382
Equipment No.	: N-01-03

Test conditions:

Room Temperature	: 23 degree Celsius
Relative Humidity	: 64%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Laborary Manager

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TEST REPORT

APPLICANT: Cinotech Consultants Limited
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Shatin, N.T.

Test Report No.:	C/N/60904-2
Date of Issue:	2006-09-04
Date Received:	2006-09-02
Date Tested:	2006-09-02
Date Completed:	2006-09-04
Next Due Date:	2007-09-03

ATTN: Mr. Henry Leung

Page: 1 of 1

Certificate of Calibration

Item for calibration:

Description	: Integrating Sound Level Meter
Manufacturer	: Brüel & Kjær
Model No.	: B&K 2238
Serial No.	: 2359303
Equipment No.	: N-01-04

Test conditions:

Room Temperature	: 23 degree Celsius
Relative Humidity	: 63%
Pressure	: 1006.5hPa

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

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Operation Manager

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TEST REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Test Report No.:	C/N/61014/1
Date of Issue:	2006-10-14
Date Received:	2006-10-13
Date Tested:	2006-10-14
Date Completed:	2006-10-14
Next Due Date:	2007-10-13

ATTN: Mr. Henry Leung

Page: 1 of 1

Certificate of Calibration

Item for calibration:

Description	: Integrating Sound Level Meter
Manufacturer	: Brüel & Kjær
Model No.	: B&K 2238
Serial No.	: 2394976
Microphone No.	: 2407349
Equipment No.	: N-01-05

Test conditions:

Room Temperature	: 21 degree Celsius
Relative Humidity	: 60%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Operation Manager

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TEST REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Test Report No.:	C/N/61116/2
Date of Issue:	2006-11-16
Date Received:	2006-11-15
Date Tested:	2006-11-15
Date Completed:	2006-11-16
Next Due Date:	2007-11-15

ATTN: Mr. Henry Leung

Page: 1 of 1

Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: Brüel & Kjær
Model No.	: 4231
Serial No.	: 2326353
Project No.	: C13
Equipment No.	: N-02-01

Test conditions:

Room Temperature	: 20 degree Celsius
Relative Humidity	: 59%
Pressure	: 1015.2 hPa

Methodology:

The sound calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**

Patrick

PATRICK TSE

Operation Manager

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Shatin, Hong Kong.
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Fax: (852) 2898 7076

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Test Report No.:	C/06/70305
Date of Issue:	2007-03-05
Date Received:	2007-03-03
Date Tested:	2007-03-03
Date Completed:	2007-03-05
Next Due Date:	2008-03-04

ATTN: Mr. Henry Leung

Page: 1 of 1

Item for calibration:

Description : Acoustical Calibrator
Manufacturer : Brüel & Kjær
Model No. : 4231
Serial No. : 2343007
Project No. : C13
Equipment No. : N-02-02

Test conditions:

Room Temperature : 20 degree Celsius
Relative Humidity : 65%
Pressure : 1020.1hPa

Methodology:

The sound calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.2 dB

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Operation Manager

WELLAB LTD.

606 - 608 Cornell Centre,
50 Wing Tai Road,
Chai Wan, Hong Kong.
Tel: (852) 2898 7388
Fax: (852) 2898 7076

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1601-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Test Report No.:	C/N/60904-3
Date of Issue:	2006-09-04
Date Received:	2006-09-02
Date Tested:	2006-09-02
Date Completed:	2006-09-04
Next Due Date:	2007-09-03

ATTN: Mr. Henry Leung

Page: 1 of 1

Item for calibration:

Description : Acoustical Calibrator
Manufacturer : Brüel & Kjær
Model No. : 4231
Serial No. : 2412367
Equipment No. : N-02-03

Test conditions:

Room Temperature : 23 degree Celsius
Relative Humidity : 63%
Pressure : 1020.1hPa

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Operation Manager

WELLAB LTD.

Unit C, 1/F, Goldlion Holdings Center
13-15 Yuen Shun Circuit,
Shatin, Hong Kong.
Tel: (852) 2898 7388
Fax: (852) 2898 7076

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Test Report No.:	C/W/70512-1
Date of Issue:	2007-05-12
Date Received:	2007-05-11
Date Tested:	2007-05-11
Date Completed:	2007-05-12
Next Due Date:	2007-08-11

ATTN: Mr. Henry Leung

Page: 1 of 2

Certificate of Calibration

Item for calibration:

Description : Sonde Environmental Monitoring System
Manufacturer : YSI
Model No. : 6820-C-M
Serial No. : 02D0126AA
Equipment No. : W.03.01
Project No. : C013

Test conditions:

Room Temperature : 22 degree Celsius
Relative Humidity : 65%

Test Specifications:

Conductivity & Salinity Sensor, Model: 6560, S/N: 02C0465
1. Conductivity performance check with Potassium Chloride standard solution
2. Salinity performance check with Sodium Chloride standard solution
Dissolved Oxygen Sensor, Model: 6562, S/N: 02C1269-1
1. Performance check against Winkler titration
Turbidity Sensor, Model: 6026, S/N: 5389
1. Calibration check with Formazin standard solution
pH Meter, Model: 6561, S/N: 01J
1. Calibration check with standard pH buffer
Depth Meter
1. Calibration check at 1m water level depth

Methodologies:

1. YSI 6-Series Sonde Environmental Monitoring System Instruction Manual
2. In-house method with reference to APHA and ISO standards

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Operation Manager

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WELLAB LTD.

Unit C, 1/F, Goldlion Holdings Center
13-15 Yuen Shun Circuit,
Shatin, Hong Kong.
Tel: (852) 2898 7388
Fax: (852) 2898 7076

TEST REPORT

Test Report No.:	C/W/70512-1
Date of Issue:	2007-05-12
Date Received:	2007-05-11
Date Tested:	2007-05-11
Date Completed:	2007-05-12
Next Due Date:	2007-08-11

Page: 2 of 2

Results:

1. Conductivity performance check

Specific Conductivity, $\mu\text{S}/\text{cm}$		Correction, $\mu\text{S}/\text{cm}$	Acceptable range
Salinity Meter (C1)	Theoretical Value (C2)	$D = C1 - C2$	
1422	1420	2	1420 ± 20

2. Salinity Performance check

Salinity, ppt		Correction, ppt	Acceptable range
Instrument Reading	Theoretical Value		
30.1	30.0	0.1	30.0 ± 3

3. Dissolved Oxygen check

Oxygen level in water at 20°C	Dissolved Oxygen, mg O ₂ /L		Correction, mg O ₂ /L	Acceptable range
	D.O. Meter	Winkler Titration		
Saturated	9.1	9.1	0.0	± 0.1
Half-saturated	5.6	5.6	0.0	± 0.1
Zero	0.0	0.0	0.0	± 0.1

4. Turbidity check

Turbidity value in solution, NTU	Calibration Value, NTU	Correction, NTU	Acceptable range
0.00	0.00	0.00	0.00 ± 0.05
100	100	0	100 ± 5

5. pH Meter check

Test Parameters	Performance characteristic	Acceptable range
Liquid junction error ΔpH_j , pH unit	0.01	Less than 0.05
Shift on stirring ΔpH_s , pH unit	0.01	Less than 0.02
Noise ΔpH_n , pH unit	0.00	Less than 0.02

6. Depth Meter check

Instrument Reading, m	Calibration Value, m	Correction, m	Acceptable range
1.0	1.00	0.00	1.00 ± 0.05

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Test Report No.:	C/W/70811-1
Date of Issue:	2007-08-11
Date Received:	2007-08-10
Date Tested:	2007-08-10
Date Completed:	2007-08-11
Next Due Date:	2007-11-10

ATTN: Mr. Henry Leung

Page: 1 of 2

Certificate of Calibration

Item for calibration:

Description	: Sonde Environmental Monitoring System
Manufacturer	: YSI
Model No.	: 6820-C-M
Serial No.	: 02D0126AA
Equipment No.	: W.03.01
Project No.	: C013

Test conditions:

Room Temperature	: 22 degree Celsius
Relative Humidity	: 62%

Test Specifications:

Conductivity & Salinity Sensor, Model: 6560, S/N: 05A1209
1. Conductivity performance check with Potassium Chloride standard solution
2. Salinity performance check with Sodium Chloride standard solution
Dissolved Oxygen Sensor, Model: 6562, S/N: 04A0145
1. Performance check against Winkler titration
Turbidity Sensor, Model: 6136, S/N: 05A1610AJ
1. Calibration check with Formazin standard solution
pH Meter, Model: 6561, S/N: 01J
1. Calibration check with standard pH buffer
Depth Meter
1. Calibration check at 1m water level depth

Methodologies:

1. YSI 6-Series Sonde Environmental Monitoring System Instruction Manual
2. In-house method with reference to APHA and ISO standards

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Senior Chemist

TEST REPORT

Test Report No.:	C/W/70811-1
Date of Issue:	2007-08-11
Date Received:	2007-08-10
Date Tested:	2007-08-10
Date Completed:	2007-08-11
Next Due Date:	2007-11-10
Page:	2 of 2

Results:

1. Conductivity performance check

Specific Conductivity, $\mu\text{S}/\text{cm}$		Correction, $\mu\text{S}/\text{cm}$	Acceptable range
Salinity Meter (C1)	Theoretical Value (C2)	$D = C1 - C2$	
1422	1420	2	1420 ± 20

2. Salinity Performance check

Salinity, ppt		Correction, ppt	Acceptable range
Instrument Reading	Theoretical Value		
30.1	30.0	0.1	30.0 ± 3

3. Dissolved Oxygen check

Oxygen level in water at 20°C	Dissolved Oxygen, mg O ₂ /L		Correction, mg O ₂ /L	Acceptable range
	D.O. Meter	Winkler Titration		
Saturated	9.1	9.1	0.0	± 0.2
Half-saturated	5.6	5.6	0.0	± 0.2
Zero	0.0	0.0	0.0	± 0.2

4. Turbidity check

Turbidity value in solution, NTU	Calibration Value, NTU	Correction, NTU	Acceptable range
0.00	0.00	0.00	0.00 ± 0.05
100	100	0	100 ± 5

5. pH Meter check

Test Parameters	Performance characteristic	Acceptable range
Liquid junction error ΔpH_j , pH unit	0.01	Less than 0.05
Shift on stirring ΔpH_s , pH unit	0.01	Less than 0.02
Noise ΔpH_n , pH unit	0.00	Less than 0.02

6. Depth Meter check

Instrument Reading, m	Calibration Value, m	Correction, m	Acceptable range
1.0	1.00	0.00	1.00 ± 0.05

*****END OF REPORT*****

WELLAB LTD.

Unit C, 1/F, Goldlion Holdings Center
13-15 Yuen Shun Circuit,
Shatin, Hong Kong.
Tel: (852) 2898 7388
Fax: (852) 2898 7076

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Test Report No.:	C/W/70512-2
Date of Issue:	2007-05-12
Date Received:	2007-05-11
Date Tested:	2007-05-11
Date Completed:	2007-05-12
Next Due Date:	2007-08-11

ATTN: Mr. Henry Leung

Page: 1 of 2

Certificate of Calibration

Item for calibration:

Description : Sonde Environmental Monitoring System
Manufacturer : YSI
Model No. : 6820-C-M
Serial No. : 02D0293AA
Equipment No. : W.03.02
Project No. : C013

Test conditions:

Room Temperature : 22 degree Celsius
Relative Humidity : 65%

Test Specifications:

Conductivity & Salinity Sensor, Model: 6560, S/N: 02C0886
1. Conductivity performance check with Potassium Chloride standard solution
2. Salinity performance check with Sodium Chloride standard solution
Dissolved Oxygen Sensor, Model: 6562, S/N: 02C1269-2
1. Performance check against Winkler titration
Turbidity Sensor, Model: 6026, S/N: 5390
1. Calibration check with Formazin standard solution
pH Meter, Model: 6561, S/N: 02A
1. Calibration check with standard pH buffer
Depth Meter
1. Calibration check at 1m water level depth

Methodologies:

1. YSI 6-Series Sonde Environmental Monitoring System Instruction Manual
2. In-house method with reference to APHA and ISO standards

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Operation Manager

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WELLAB LTD.

Unit C, 1/F, Goldlion Holdings Center
13-15 Yuen Shun Circuit,
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Tel: (852) 2898 7388
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TEST REPORT

Test Report No.:	C/W/70512-2
Date of Issue:	2007-05-12
Date Received:	2007-05-11
Date Tested:	2007-05-11
Date Completed:	2007-05-12
Next Due Date:	2007-08-11

Page: 2 of 2

Results:

1. Conductivity performance check

Specific Conductivity, $\mu\text{S}/\text{cm}$		Correction, $\mu\text{S}/\text{cm}$	Acceptable range
Salinity Meter (C1)	Theoretical Value (C2)	$D = C1 - C2$	
1420	1419	1	1418 ± 20

2. Salinity Performance check

Salinity, ppt		Correction, ppt	Acceptable range
Instrument Reading	Theoretical Value		
30.1	30.0	0.1	30.0 ± 3

3. Dissolved Oxygen check

Oxygen level in water at 20°C	Dissolved Oxygen, mg O ₂ /L		Correction, mg O ₂ /L	Acceptable range
	D.O. Meter	Winkler Titration		
Saturated	9.0	9.0	0.0	± 0.1
Half-saturated	5.8	5.8	0.0	± 0.1
Zero	0.0	0.0	0.0	± 0.1

4. Turbidity check

Turbidity value in solution, NTU	Calibration Value, NTU	Correction, NTU	Acceptable range
0.00	0.00	0.00	0.00 ± 0.05
100	100	0	100 ± 5

5. pH Meter check

Test Parameters	Performance characteristic	Acceptable range
Liquid junction error ΔpH_j , pH unit	0.01	Less than 0.05
Shift on stirring ΔpH_s , pH unit	0.01	Less than 0.02
Noise ΔpH_n , pH unit	0.01	Less than 0.02

6. Depth Meter check

Instrument Reading, m	Calibration Value, m	Correction, m	Acceptable range
1.0	1.00	0.00	1.00 ± 0.05

*****END OF REPORT*****

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TEST REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Test Report No.:	C/W/70811-2
Date of Issue:	2007-08-11
Date Received:	2007-08-10
Date Tested:	2007-08-10
Date Completed:	2007-08-11
Next Due Date:	2007-11-10

ATTN: Mr. Henry Leung

Page: 1 of 2

Certificate of Calibration

Item for calibration:

Description	: Sonde Environmental Monitoring System
Manufacturer	: YSI
Model No.	: 6820-C-M
Serial No.	: 02D0293AA
Equipment No.	: W.03.02
Project No.	: C013

Test conditions:

Room Temperature	: 22 degree Celsius
Relative Humidity	: 62%

Test Specifications:

Conductivity & Salinity Sensor, Model: 6560, S/N: 02C0886

1. Conductivity performance check with Potassium Chloride standard solution
2. Salinity performance check with Sodium Chloride standard solution

Dissolved Oxygen Sensor, Model: 6562, S/N: 0261137

1. Performance check against Winkler titration

Turbidity Sensor, Model: 6136, S/N: 05F2030AQ

1. Calibration check with Formazin standard solution

pH Meter, Model: 6561, S/N: 02A

1. Calibration check with standard pH buffer

Depth Meter

1. Calibration check at 1m water level depth

Methodologies:

1. YSI 6-Series Sonde Environmental Monitoring System Instruction Manual
2. In-house method with reference to APHA and ISO standards

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Senior Chemist

TEST REPORT

Test Report No.:	C/W/70811-2
Date of Issue:	2007-08-11
Date Received:	2007-08-10
Date Tested:	2007-08-10
Date Completed:	2007-08-11
Next Due Date:	2007-11-10

Page: 2 of 2

Results:

1. Conductivity performance check

Specific Conductivity, $\mu\text{S}/\text{cm}$		Correction, $\mu\text{S}/\text{cm}$	Acceptable range
Salinity Meter (C1)	Theoretical Value (C2)	$D = C1 - C2$	
1420	1419	1	1418 ± 20

2. Salinity Performance check

Salinity, ppt		Correction, ppt	Acceptable range
Instrument Reading	Theoretical Value		
30.1	30.0	0.1	30.0 ± 3

3. Dissolved Oxygen check

Oxygen level in water at 20°C	Dissolved Oxygen, mg O ₂ /L		Correction, mg O ₂ /L	Acceptable range
	D.O. Meter	Winkler Titration		
Saturated	9.0	9.0	0.0	± 0.2
Half-saturated	5.8	5.8	0.0	± 0.2
Zero	0.0	0.0	0.0	± 0.2

4. Turbidity check

Turbidity value in solution, NTU	Calibration Value, NTU	Correction, NTU	Acceptable range
0.00	0.00	0.00	0.00 ± 0.05
100	100	0	100 ± 5

5. pH Meter check

Test Parameters	Performance characteristic	Acceptable range
Liquid junction error ΔpH_l , pH unit	0.01	Less than 0.05
Shift on stirring ΔpH_s , pH unit	0.01	Less than 0.02
Noise ΔpH_n , pH unit	0.01	Less than 0.02

6. Depth Meter check

Instrument Reading, m	Calibration Value, m	Correction, m	Acceptable range
1.0	1.00	0.00	1.00 ± 0.05

*****END OF REPORT*****

**APPENDIX C
ENVIRONMENTAL MONITORING
SCHEDULES**

**Contract No. HY/2003/19 - Improvement to Tung chung Road between Lung Tseng Tau and Cheung Sha
Tentative Air, Noise and Water Quality Monitoring Schedule for August 2007**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29-Jul	30-Jul	31-Jul	1-Aug	2-Aug	3-Aug	4-Aug
			Water Quality Noise		Water Quality	24 hr TSP
5-Aug	6-Aug	7-Aug	8-Aug	9-Aug	10-Aug	11-Aug
	Water Quality		Water Quality Noise		Water Quality 24 hr TSP	
12-Aug	13-Aug	14-Aug	15-Aug	16-Aug	17-Aug	18-Aug
	Water Quality		Water Quality Noise	24 hr TSP	Water Quality	
19-Aug	20-Aug	21-Aug	22-Aug	23-Aug	24-Aug	25-Aug
	Water Quality		Water Quality Noise 24 hr TSP		Water Quality	
26-Aug	27-Aug	28-Aug	29-Aug	30-Aug	31-Aug	1-Sep
	Water Quality	24 hr TSP	Water Quality Noise		Water Quality	

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

**Contract No. HY/2003/19 - Improvement to Tung chung Road between Lung Tseng Tau and Cheung Sha
Tentative Air, Noise and Water Quality Monitoring Schedule for September 2007**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2-Sep	3-Sep	4-Sep	5-Sep	6-Sep	7-Sep	8-Sep
	Water Quality 24 hr TSP		Water Quality Noise		Water Quality	24 hr TSP
9-Sep	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep	15-Sep
	Water Quality		Water Quality Noise		Water Quality 24 hr TSP	
16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep
	Water Quality		Water Quality Noise	24 hr TSP	Water Quality	
23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep	29-Sep
	Water Quality	Water Quality Noise 24 hr TSP			Water Quality	24 hr TSP
30-Sep	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct
		Water Quality	Water Quality Noise		Water Quality 24 hr TSP	

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

**APPENDIX D
24-HOUR TSP MONITORING
RESULTS ,GRAPHICAL
PRESENTATION AND WIND DATA**

Appendix D - 24-hour TSP Monitoring Results

Location AM1 - YMCA of Hong Kong Christian College

Date	Filter Weight (g)		Flow Rate (m ³ /min.)		Elapse Time		Sampling Time(hrs.)	Conc. (µg/m ³)	Weather Condition	Air Temp. (K)	Atmospheric Pressure(Pa)	Particulate weight(g)	Av. flow (m ³ /min)	Total vol. (m ³)
	Initial	Final	Initial	Final	Initial	Final								
4-Aug-07	2.8255	2.8728	1.21	1.21	2429.7	2453.7	24.0	27.2	Sunshine	302.9	756.9	0.0473	1.21	1737.4
10-Aug-07	2.8442	2.8978	1.21	1.21	2453.7	2477.7	24.0	30.8	Cloudy	298.7	748.7	0.0536	1.21	1739.7
16-Aug-07	2.7681	2.8114	1.23	1.22	2477.7	2501.7	24.0	24.5	Cloudy	297.9	753.3	0.0433	1.23	1764.2
22-Aug-07	2.8033	2.8754	1.22	1.22	2501.7	2525.7	24.0	40.9	Cloudy	300.1	757.4	0.0721	1.22	1762.4
28-Aug-07	2.7836	2.8609	1.23	1.23	2525.7	2549.7	24.0	43.8	Cloudy	300.9	760.7	0.0773	1.23	1763.9
							Min	24.5						
							Max	43.8						
							Average	33.5						

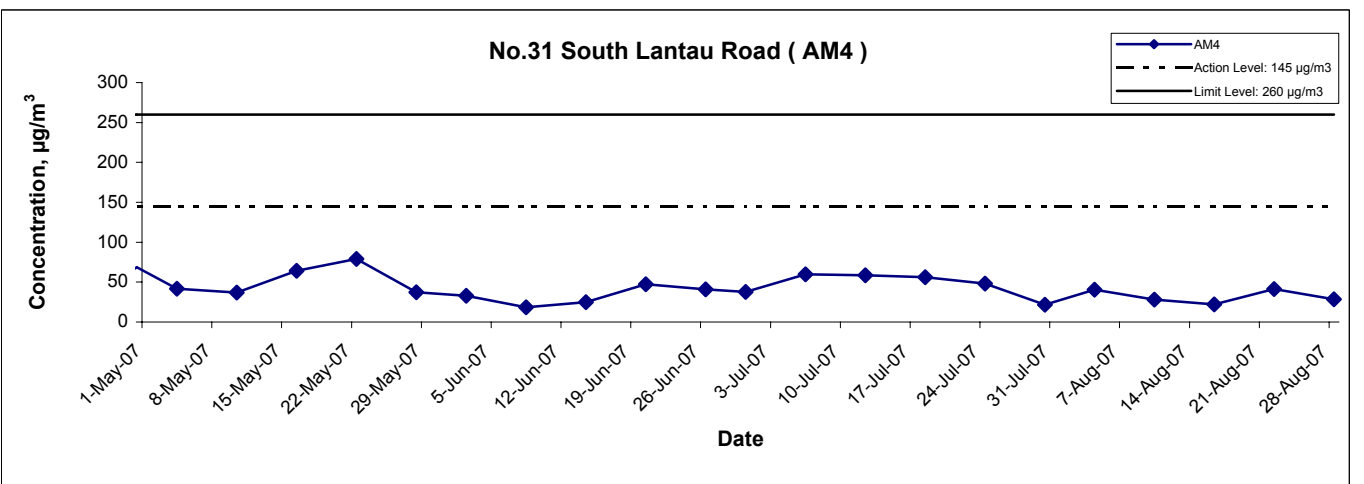
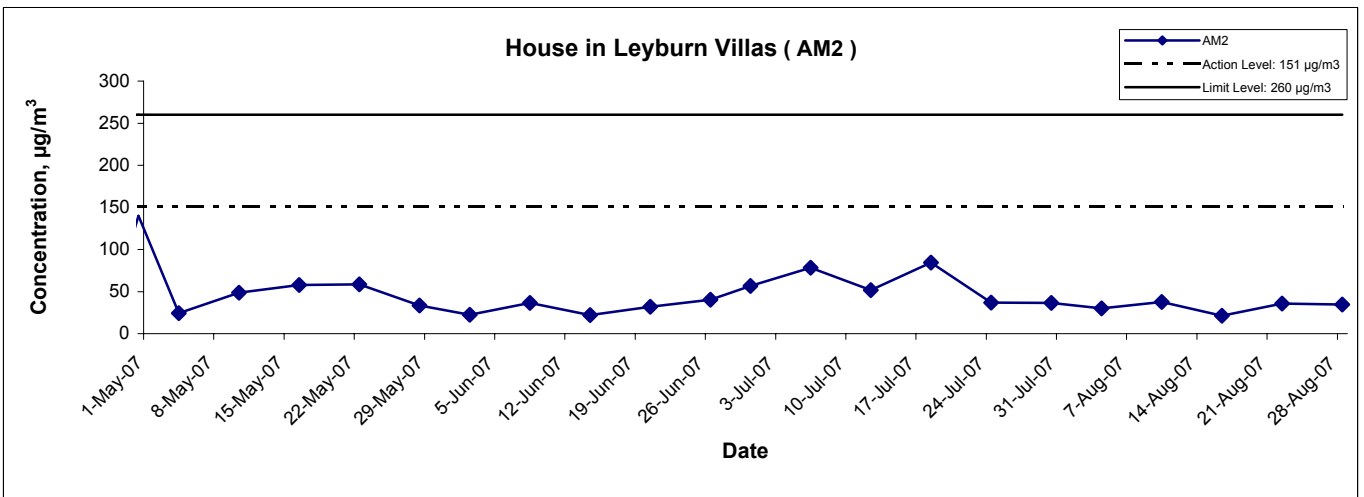
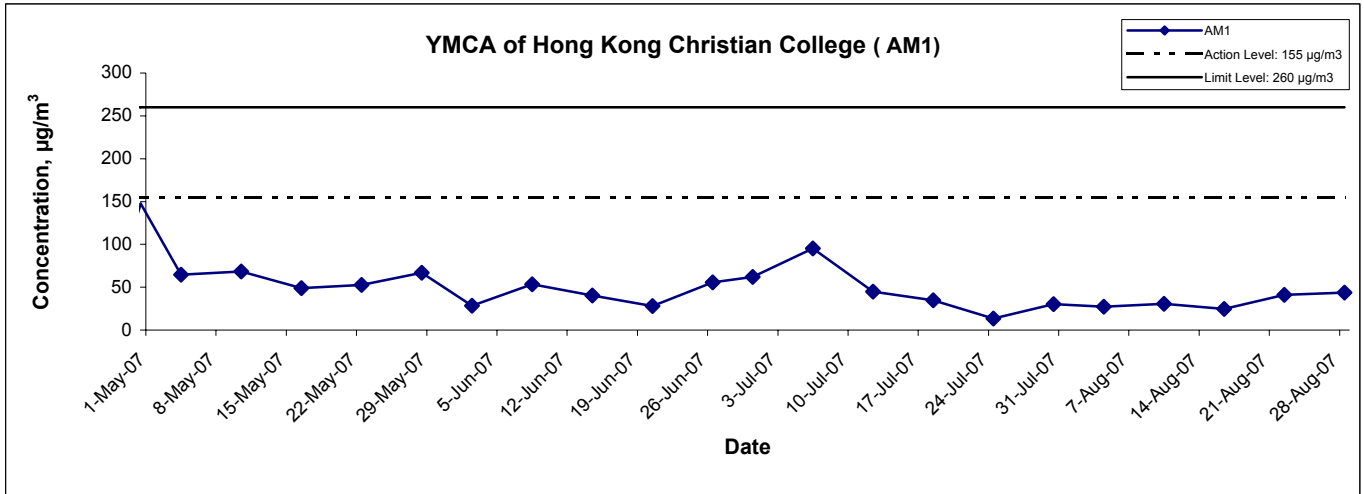
Location AM2 - House in Leyburn Villas

Date	Filter Weight (g)		Flow Rate (m ³ /min.)		Elapse Time		Sampling Time(hrs.)	Conc. (µg/m ³)	Weather Condition	Air Temp. (K)	Atmospheric Pressure(Pa)	Particulate weight(g)	Av. flow (m ³ /min)	Total vol. (m ³)
	Initial	Final	Initial	Final	Initial	Final								
4-Aug-07	2.8064	2.8585	1.21	1.21	7223.3	7247.3	24.0	30.0	Sunshine	302.9	756.9	0.0521	1.21	1736.3
10-Aug-07	2.7981	2.8638	1.21	1.21	7247.3	7271.3	24.0	37.8	Cloudy	298.7	748.7	0.0657	1.21	1738.6
16-Aug-07	2.7264	2.7645	1.23	1.23	7271.3	7295.3	24.0	21.5	Cloudy	297.9	753.3	0.0381	1.23	1775.8
22-Aug-07	2.7968	2.8601	1.23	1.23	7295.3	7319.3	24.0	35.7	Cloudy	300.1	757.4	0.0633	1.23	1774.1
28-Aug-07	2.8368	2.8983	1.23	1.23	7319.3	7343.3	24.0	34.6	Cloudy	300.9	4184.3	0.0615	1.23	1775.6
							Min	21.5						
							Max	37.8						
							Average	31.9						

Location AM4 - No.31 South Lantau Road

Date	Filter Weight (g)		Flow Rate (m ³ /min.)		Elapse Time		Sampling Time(hrs.)	Conc. (µg/m ³)	Weather Condition	Air Temp. (K)	Atmospheric Pressure(Pa)	Particulate weight(g)	Av. flow (m ³ /min)	Total vol. (m ³)
	Initial	Final	Initial	Final	Initial	Final								
4-Aug-07	2.7832	2.8536	1.21	1.21	7078.5	7102.5	24.0	40.3	Sunshine	302.9	756.9	0.0704	1.21	1745.1
10-Aug-07	2.8044	2.8533	1.21	1.21	7102.5	7126.5	24.0	28.0	Cloudy	298.7	748.7	0.0489	1.21	1747.4
16-Aug-07	2.7770	2.8158	1.22	1.22	7126.5	7150.5	24.0	22.0	Cloudy	297.9	753.3	0.0388	1.22	1763.1
22-Aug-07	2.7812	2.8537	1.22	1.22	7150.5	7174.5	24.0	41.2	Cloudy	300.1	757.4	0.0725	1.22	1761.5
28-Aug-07	2.7961	2.8462	1.22	1.22	7174.5	7198.5	24.0	28.4	Cloudy	300.9	760.7	0.0501	1.22	1762.9
							Min	22.0						
							Max	41.2						
							Average	32.0						

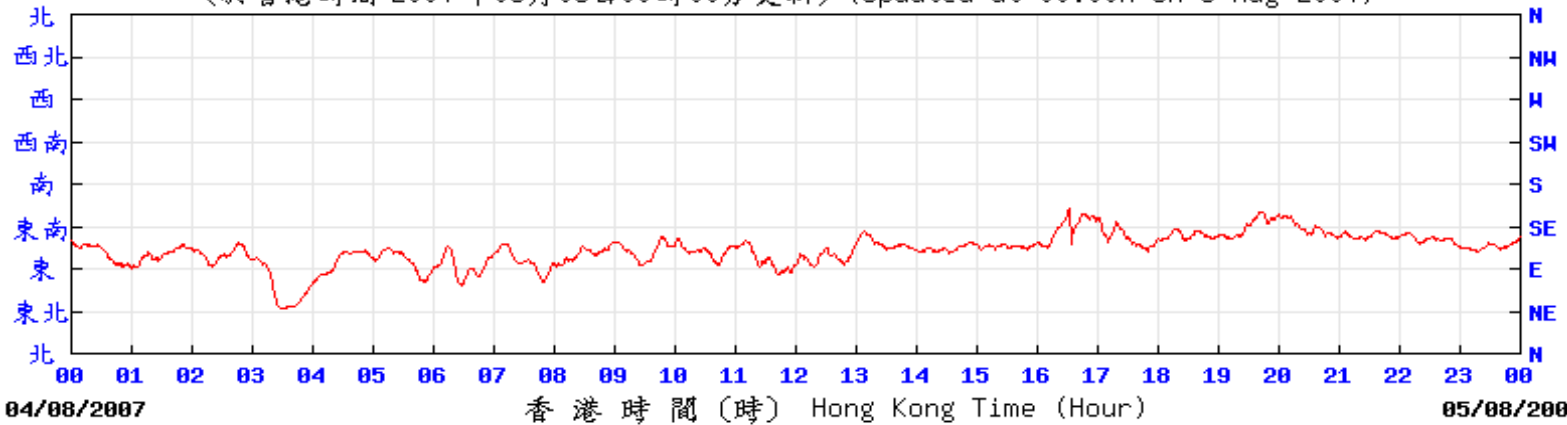
24-hour TSP Levels



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 Aug 07	Appendix D	

Wind Data (HK International Airport)

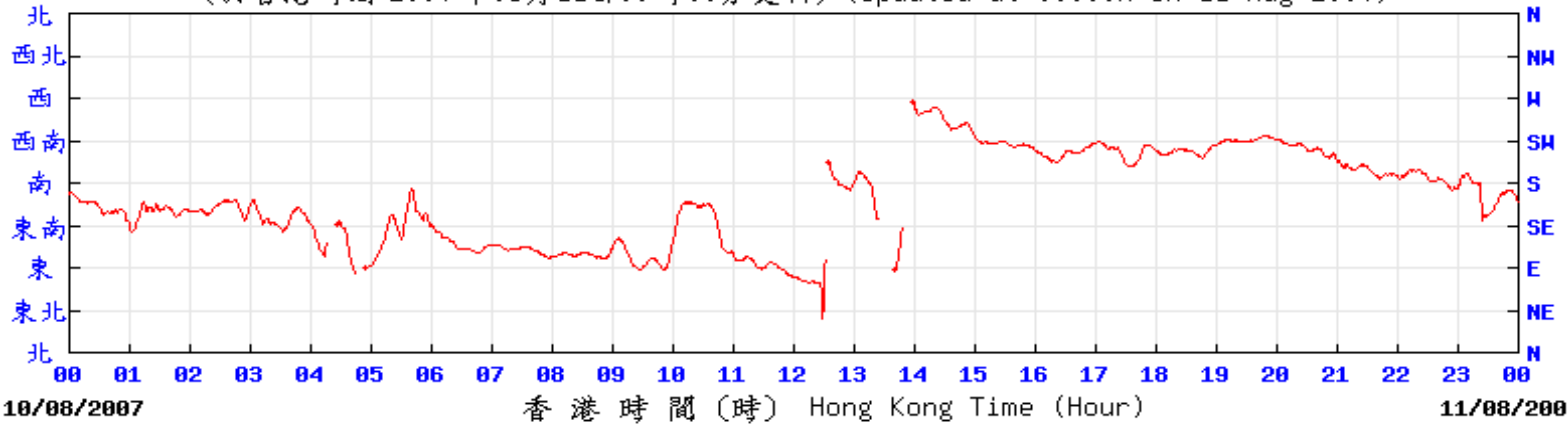
(於香港時間 2007 年08月05日00時00分更新) (Updated at 00:00H on 5 Aug 2007)



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(於香港時間 2007 年08月11日00時00分更新) (Updated at 00:00H on 11 Aug 2007)



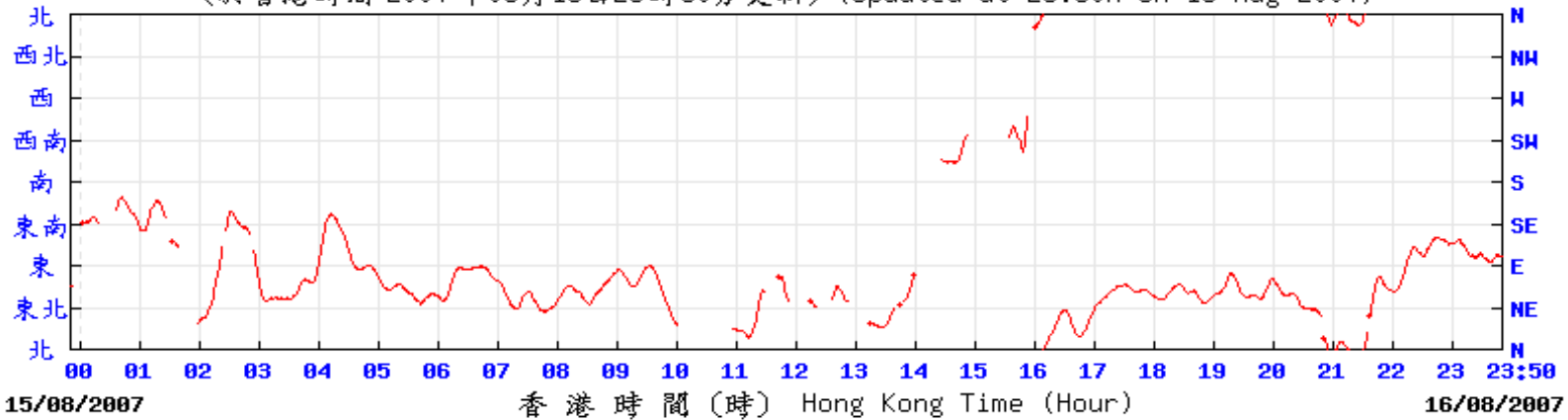
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Title	Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha	Scale	Project	CINOTECH
	Wind Data Extracted from the Hong Kong Observatory (HK International Airport)	N.T.S	No. MA6030	
		Date	Appendix	
		Aug 07	D	

Wind Data (HK International Airport)

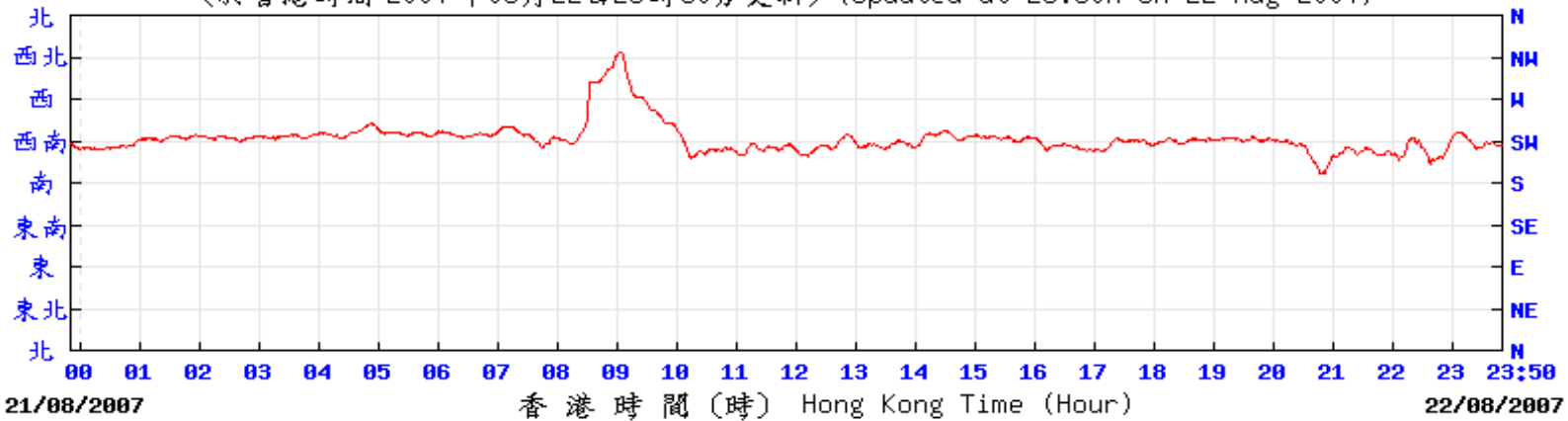
(於香港時間 2007 年08月16日23時50分更新) (Updated at 23:50H on 16 Aug 2007)



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(於香港時間 2007 年08月22日23時50分更新) (Updated at 23:50H on 22 Aug 2007)



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Title

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

Scale

N.T.S

Project

No. MA6030

Date

Aug 07

Appendix

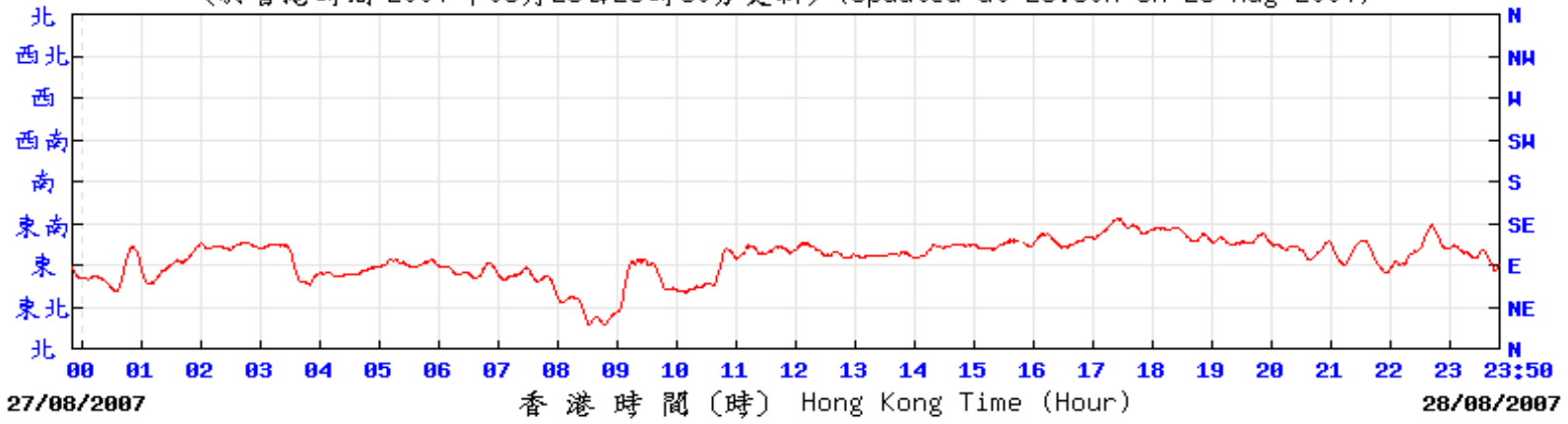
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Wind Data Extracted from the Hong Kong Observatory (HK International Airport)

CINOTECH

Wind Data (HK International Airport)

(於香港時間 2007 年08月28日23時50分更新) (Updated at 23:50H on 28 Aug 2007)



27/08/2007

香港時間 (時) Hong Kong Time (Hour)

28/08/2007

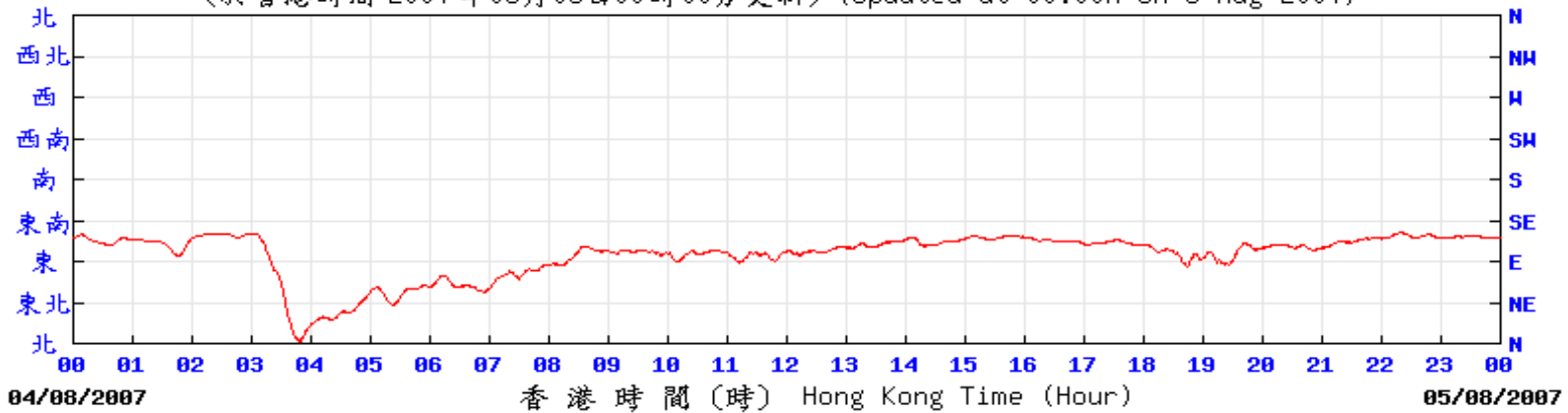
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Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Wind Data Extracted from the Hong Kong Observatory (HK International Airport)	Scale N.T.S	Project No. MA6030	CINOTECH
	Date Aug 07	Appendix D	

Wind Data (Cheung Chau)

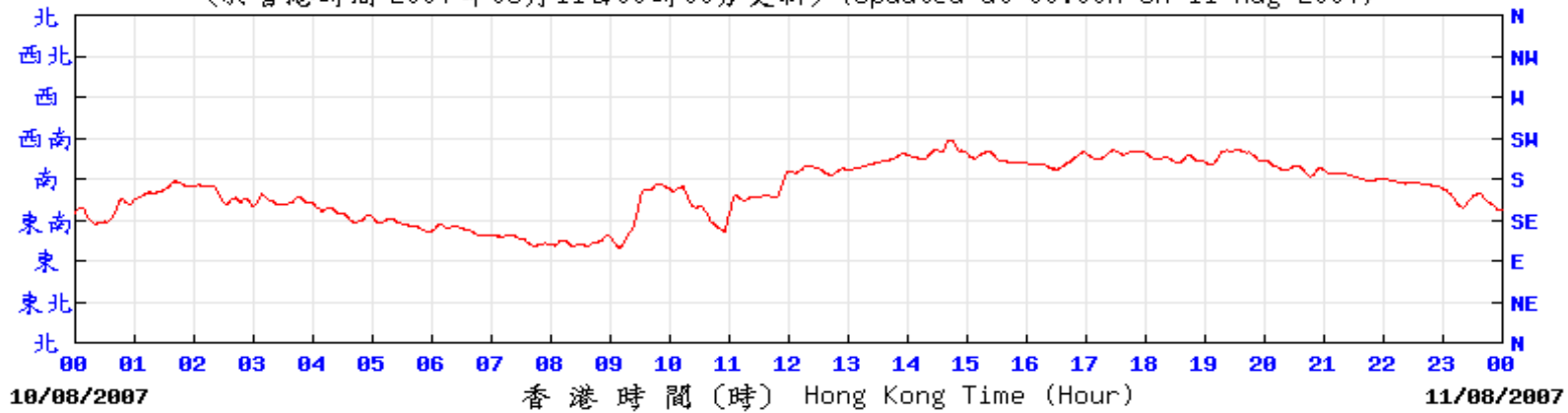
(於香港時間 2007 年08月05日00時00分更新) (Updated at 00:00H on 5 Aug 2007)



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(於香港時間 2007 年08月11日00時00分更新) (Updated at 00:00H on 11 Aug 2007)



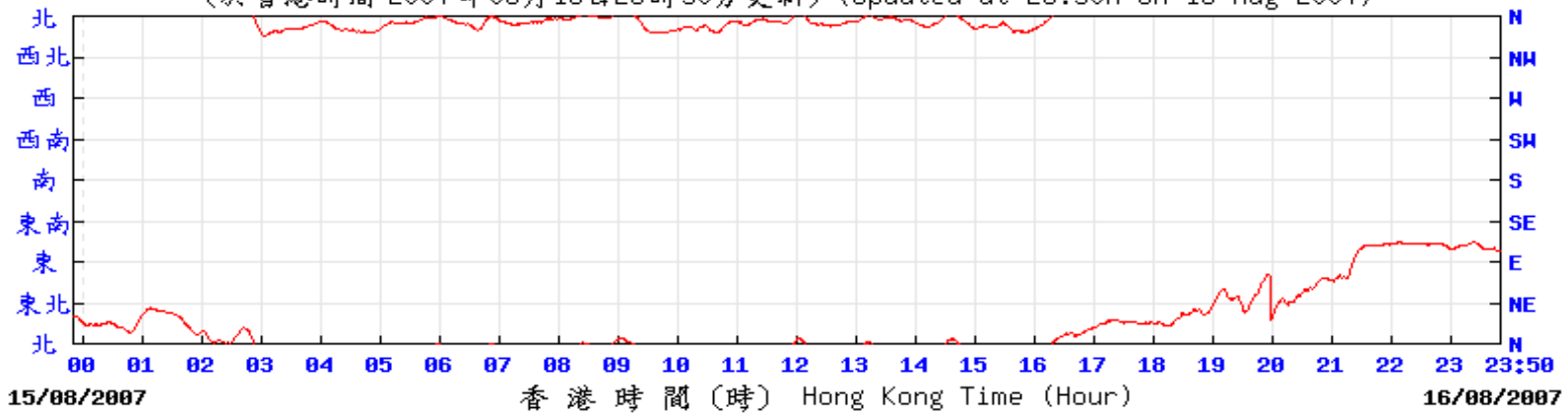
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Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Wind Data Extracted from the Hong Kong Observatory (Cheung Chau)	Scale N.T.S	Project No. MA6030	
	Date Aug 07	Appendix D	

Wind Data (Cheung Chau)

(於香港時間 2007 年 08 月 16 日 23 時 50 分更新) (Updated at 23:50H on 16 Aug 2007)



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(於香港時間 2007 年 08 月 22 日 23 時 50 分更新) (Updated at 23:50H on 22 Aug 2007)

"風向" - 現正維修
"Wind Direction" - Under Maintenance.

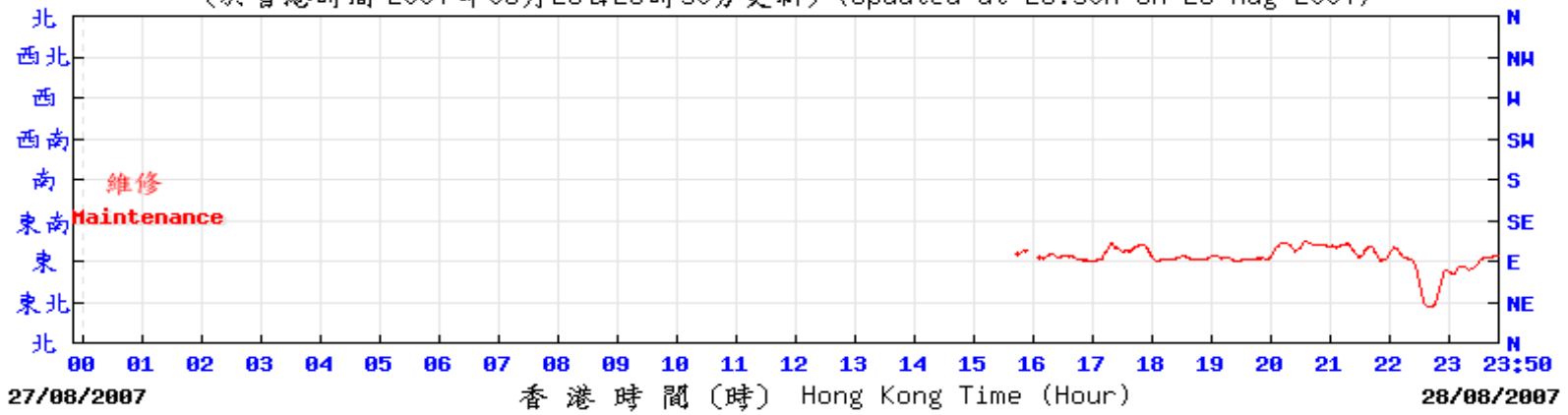
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Title	Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha	Scale	Project	CINOTECH
		N.T.S	No. MA6030	
	Wind Data Extracted from the Hong Kong Observatory (Cheung Chau)	Date	Appendix	
		Aug 07	D	

Wind Data (Cheung Chau)

(於香港時間 2007 年08月28日23時50分更新) (Updated at 23:50H on 28 Aug 2007)



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Title	Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha	Scale	Project	CINOTECH
		Date	No. MA6030 Appendix D	
Wind Data Extracted from the Hong Kong Observatory (Cheung Chau)		N.T.S	Aug 07	

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

Appendix E - Noise Monitoring Results

Location NM1 - No. 28 Lung Tseng Tau					
Date	Time	Weather	dB (A) (30-min)		
			L _{eq}	L ₁₀	L ₉₀
1-Aug-07	09:40	Sunny	62.8	64.0	59.5
8-Aug-07	09:40	Cloudy	63.2	65.5	56.5
15-Aug-07	09:40	Cloudy	56.7	60.0	54.5
22-Aug-07	09:40	Cloudy	62.4	65.5	60.5
29-Aug-07	09:40	Cloudy	59.3	63.5	57.5
		Average	61.5	64.1	58.2
		Minimum	56.7	60.0	54.5
		Maximum	63.2	65.5	60.5

Location NM2 - YMCA of HK Christian College					
Date	Time	Weather	dB (A) (30-min)		
			L _{eq}	L ₁₀	L ₉₀
1-Aug-07	09:00	Sunny	61.4	62.5	57.0
8-Aug-07	09:00	Cloudy	55.6	57.5	52.5
15-Aug-07	09:00	Cloudy	54.3	56.0	51.0
22-Aug-07	09:00	Cloudy	57.7	59.0	56.0
29-Aug-07	09:00	Cloudy	55.6	57.5	52.5
		Average	57.7	59.1	54.4
		Minimum	54.3	56.0	51.0
		Maximum	61.4	62.5	57.0

Location NM3 - No. 37 Shek Lau Po					
Date	Time	Weather	dB (A) (30-min)		
			L _{eq}	L ₁₀	L ₉₀
1-Aug-07	10:20	Sunny	51.4	53.5	48.5
8-Aug-07	10:20	Cloudy	45.1	47.5	41.5
15-Aug-07	10:20	Cloudy	47.6	50.0	45.5
22-Aug-07	10:20	Cloudy	43.2	45.0	40.5
29-Aug-07	10:15	Cloudy	47.2	49.5	44.5
		Average	47.8	50.0	45.0
		Minimum	43.2	45.0	40.5
		Maximum	51.4	53.5	48.5

Location NM4 - No.1 Shek Mun Kap					
Date	Time	Weather	dB (A) (30-min)		
			L _{eq}	L ₁₀	L ₉₀
1-Aug-07	11:05	Sunny	59.6	61.5	57.0
8-Aug-07	11:00	Cloudy	56.3	58.5	54.0
15-Aug-07	11:05	Cloudy	51.7	53.5	48.5
22-Aug-07	11:05	Cloudy	52.6	54.5	51.0
29-Aug-07	11:00	Cloudy	53.1	55.5	51.5
		Average	55.7	57.8	53.4
		Minimum	51.7	53.5	48.5
		Maximum	59.6	61.5	57.0

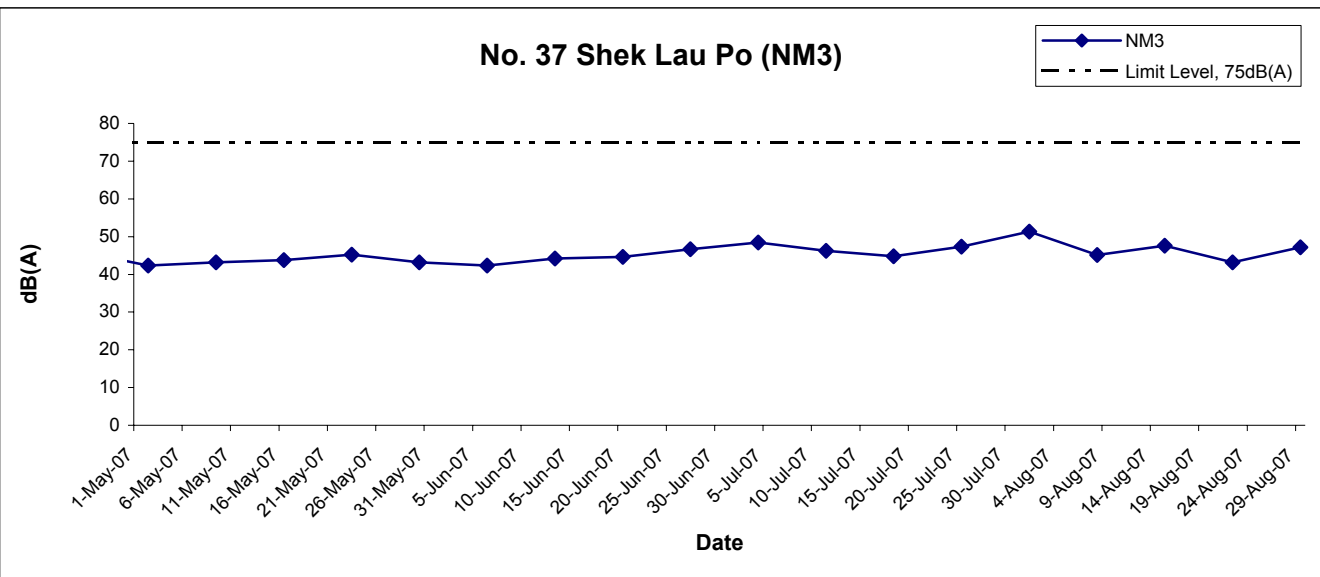
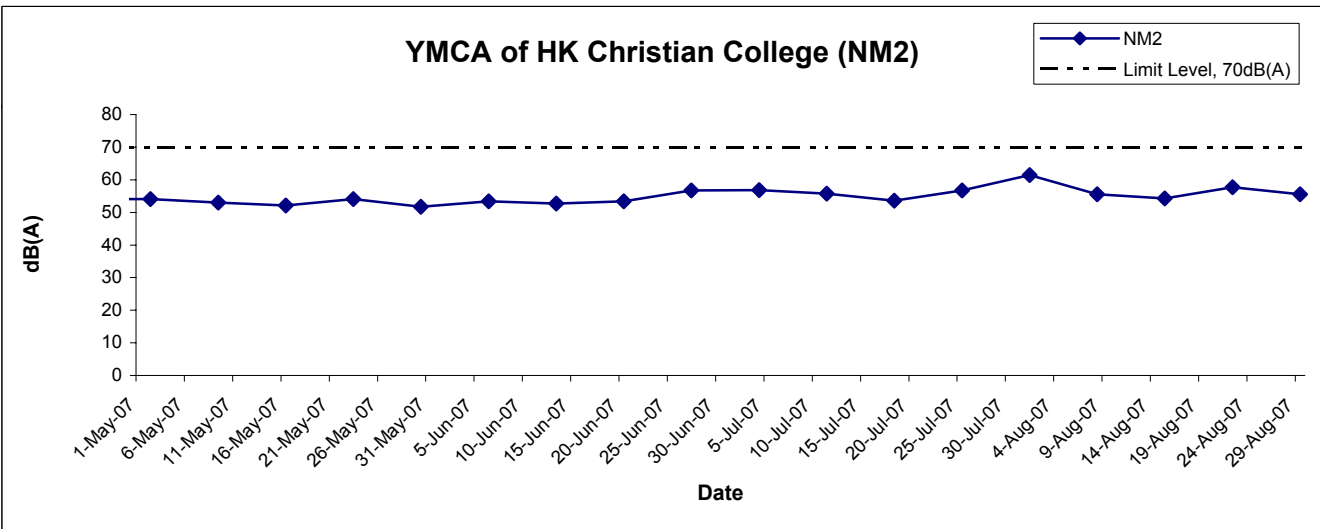
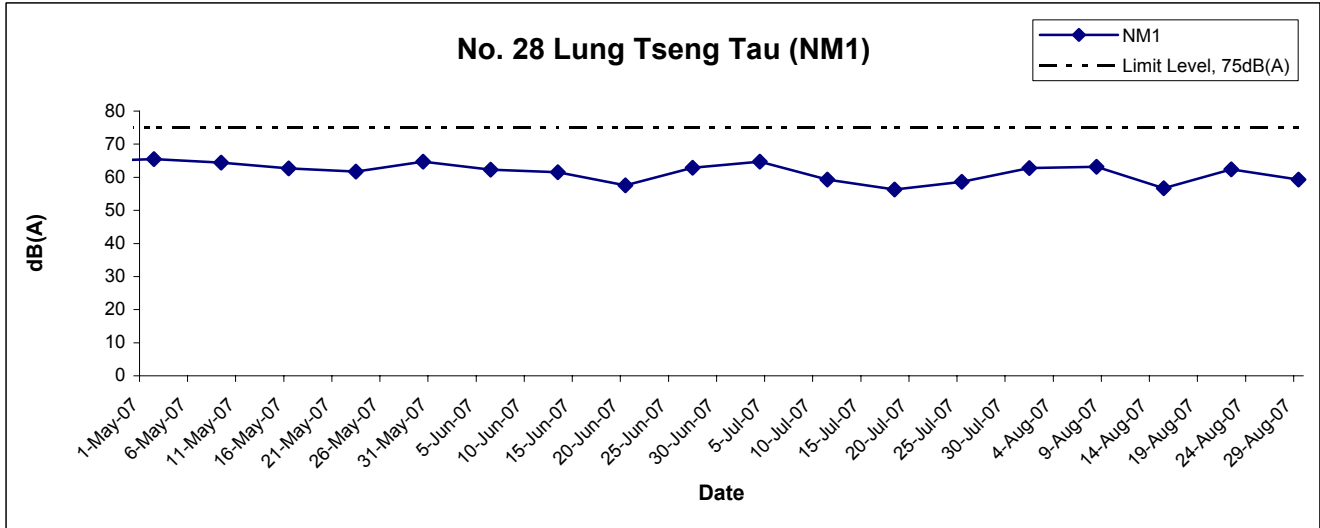
Appendix E - Noise Monitoring Results

Location NM5 - Tung Chung Au Country Parks Management Centre					
Date	Time	Weather	dB (A) (30-min)		
			L _{eq}	L ₁₀	L ₉₀
1-Aug-07	13:00	Sunny	58.7	60.5	55.5
8-Aug-07	13:00	Cloudy	54.9	58.0	51.5
15-Aug-07	13:00	Cloudy	53.4	55.0	49.5
22-Aug-07	13:00	Cloudy	51.6	53.5	50.0
29-Aug-07	13:00	Cloudy	53.8	56.0	51.0
		Average	55.2	57.3	52.1
		Minimum	51.6	53.5	49.5
		Maximum	58.7	60.5	55.5

Location NM6 - D75 Leyburn Villa					
Date	Time	Weather	dB (A) (30-min)		
			L _{eq}	L ₁₀	L ₉₀
1-Aug-07	13:45	Sunny	50.2	51.5	46.0
8-Aug-07	13:45	Cloudy	46.3	50.5	42.5
15-Aug-07	13:45	Cloudy	45.1	47.5	41.0
22-Aug-07	13:45	Cloudy	42.6	45.5	39.5
29-Aug-07	13:45	Cloudy	46.7	49.5	43.5
		Average	46.9	49.4	43.1
		Minimum	42.6	45.5	39.5
		Maximum	50.2	51.5	46.0

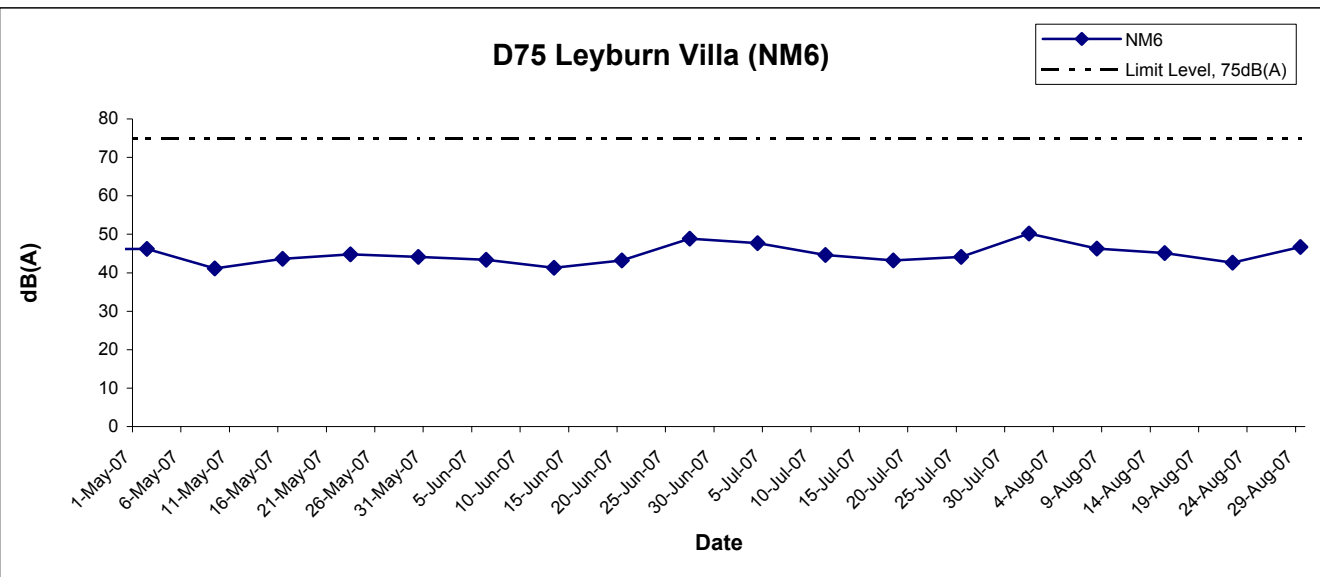
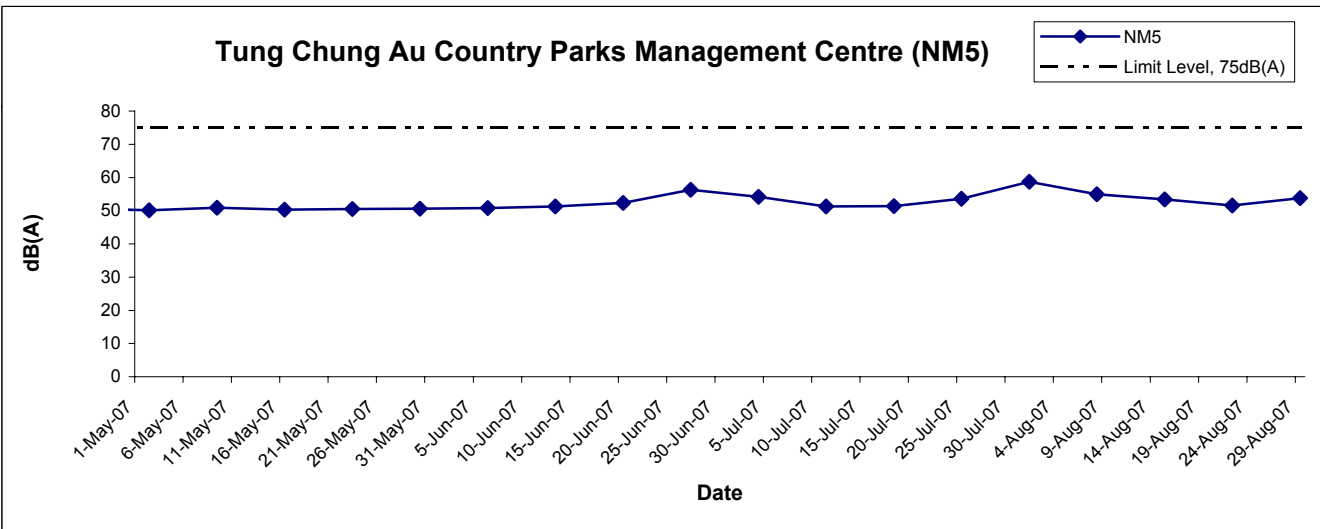
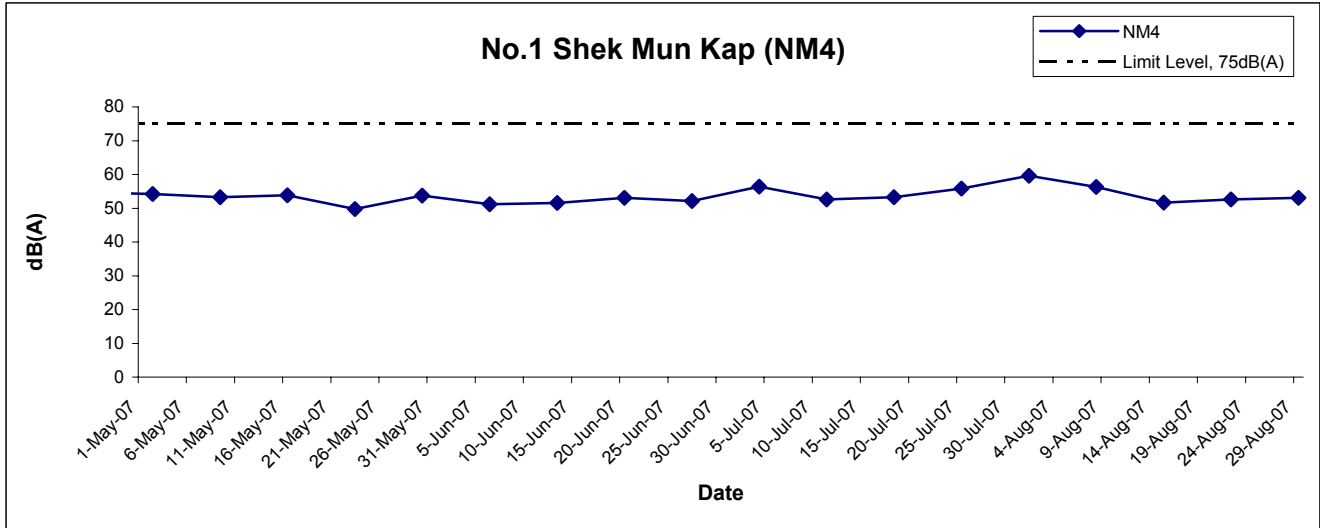
Location NM8 - No. 31 South Lantau Road					
Date	Time	Weather	dB (A) (30-min)		
			L _{eq}	L ₁₀	L ₉₀
1-Aug-07	14:25	Sunny	57.8	60.0	54.5
8-Aug-07	14:25	Cloudy	58.7	61.5	56.0
15-Aug-07	14:40	Cloudy	57.3	59.5	55.5
22-Aug-07	14:25	Cloudy	51.7	54.0	49.0
29-Aug-07	14:25	Cloudy	56.2	59.5	54.5
		Average	56.9	59.5	54.5
		Minimum	51.7	54.0	49.0
		Maximum	58.7	61.5	56.0

Noise Levels



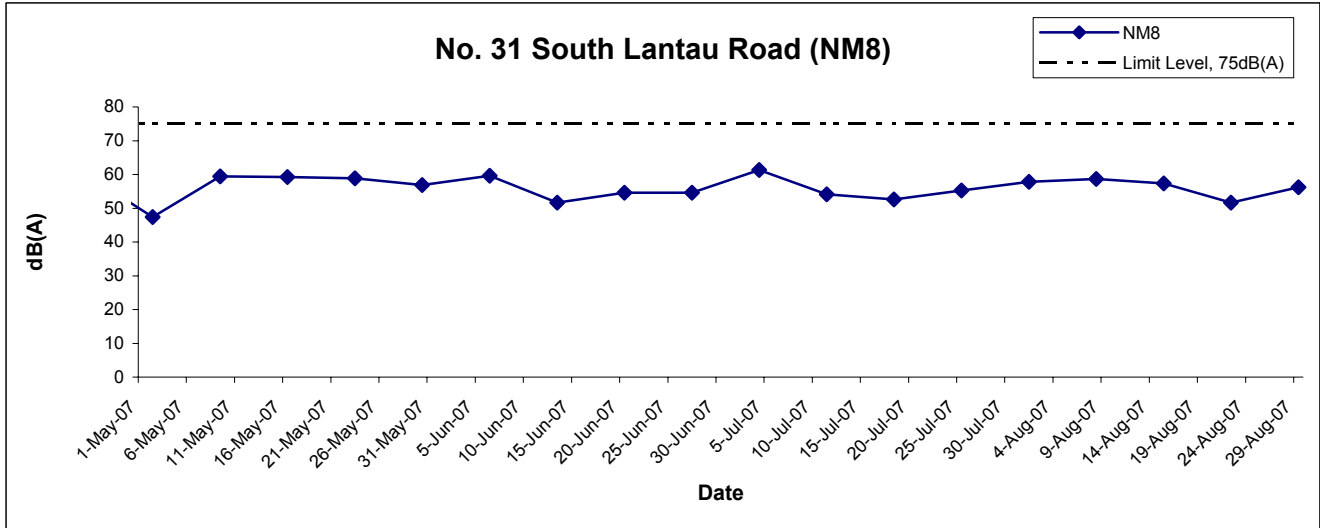
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Construction Noise Monitoring Results	Scale N.T.S	Project No. MA6030	
	Date Aug 07	Appendix E	

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 Aug 07	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 Aug 07	Appendix E	

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

Water Quality Monitoring Results at 15_I

Date	Weather Condition	Sea Condition*	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Aug-07	Sunny	Calm	12:20	Middle	0.09	28.2	28.2	7.6	7.6	0.02	0.02	95.1	95.1	8.6	8.6	1.6	1.6	9.0	8.5
						28.2		7.6		0.02		95.0		8.6		1.6		8.0	
3-Aug-07	Sunny	Calm	15:08	Middle	0.09	28.1	28.1	7.5	7.5	0.02	0.02	95.0	94.9	8.6	8.6	1.7	1.7	8.0	8
						28.1		7.5		0.02		94.8		8.6		1.7		8.0	
6-Aug-07	Fine	Calm	15:02	Middle	0.09	28.1	28.1	7.5	7.5	0.02	0.02	92.8	92.7	8.5	8.5	2.1	2.1	21.0	20.5
						28.1		7.5		0.02		92.5		8.5		2.1		20.0	
8-Aug-07	Rainy	Calm	12:36	Middle	0.09	28.0	28	7.5	7.5	0.02	0.02	90.7	90.6	8.4	8.4	1.8	1.8	16.0	16.5
						28.0		7.5		0.02		90.4		8.3		1.8		17.0	
10-Aug-07	Rainy	Calm	12:46	Middle	0.09	28.0	28	7.5	7.5	0.02	0.02	89.6	89.5	8.3	8.3	1.8	1.8	3.0	3
						28.0		7.5		0.02		89.4		8.3		1.8		3.0	
13-Aug-07	Cloudy	Calm	12:56	Middle	0.09	28.0	28	7.6	7.6	0.02	0.02	91.2	91.1	8.4	8.4	2.0	2	4.0	4
						28.0		7.6		0.02		90.9		8.4		2.0		4.0	
15-Aug-07	Cloudy	Calm	12:56	Middle	0.09	27.9	27.9	7.5	7.5	0.02	0.02	89.7	89.6	8.3	8.3	1.9	1.9	4.0	4
						27.9		7.5		0.02		89.4		8.3		1.9		4.0	
17-Aug-07	Rainy	Calm	12:06	Middle	0.09	27.8	27.8	7.7	7.7	0.02	0.02	92.1	91.9	8.3	8.3	2.4	2.4	13.0	13
						27.8		7.7		0.02		91.6		8.3		2.3		13.0	
20-Aug-07	Cloudy	Calm	11:30	Middle	0.09	27.8	27.8	7.8	7.8	0.02	0.02	84.9	84.9	7.8	7.8	1.9	1.9	3.0	3
						27.8		7.8		0.02		84.8		7.8		1.9		3.0	
22-Aug-07	Cloudy	Calm	13:21	Middle	0.09	27.7	27.7	7.7	7.7	0.02	0.02	88.5	88.4	8.1	8.1	2.0	2	4.0	4
						27.7		7.7		0.02		88.2		8.0		2.0		4.0	
24-Aug-07	Sunny	Calm	12:26	Middle	0.09	27.8	27.8	7.6	7.6	0.02	0.02	86.7	86.6	7.9	7.9	1.8	1.8	4.0	4
						27.8		7.6		0.02		86.5		7.9		1.8		4.0	
27-Aug-07	Sunny	Calm	14:11	Middle	0.09	28.1	28.1	7.6	7.6	0.02	0.02	90.6	90.5	8.3	8.3	1.7	1.7	5.0	5
						28.1		7.6		0.02		90.3		8.2		1.7		5.0	
29-Aug-07	Cloudy	Calm	16:17	Middle	0.09	28.1	28.1	7.5	7.5	0.02	0.02	88.6	88.5	8.1	8.1	1.9	1.9	7.0	7
						28.1		7.5		0.02		88.4		8.1		1.9		7.0	
31-Aug-07	Sunny	Calm	14:13	Middle	0.09	28.2	28.2	7.6	7.6	0.02	0.02	88.6	88.5	8.1	8.1	1.7	1.7	5.0	4.5
						28.2		7.6		0.02		88.4		8.1		1.7		4.0	

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
 ** Cancelled due to Thunderstorm Warning

Water Quality Monitoring Results at 15_R

Date	Weather Condition	Sea Condition*	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Aug-07	Sunny	Calm	12:13	Middle	0.08	28.1	28.1	7.6	7.6	0.02	0.02	92.0	92.9	8.3	8.4	1.8	1.8	6.0	6
						28.1		7.6		0.02		93.8		8.5		1.7		6.0	
3-Aug-07	Sunny	Calm	15:02	Middle	0.08	28.1	28.1	7.5	7.5	0.02	0.02	92.2	93	8.4	8.5	1.8	1.8	5.0	5
						28.1		7.5		0.02		93.8		8.5		1.8		5.0	
6-Aug-07	Fine	Calm	14:55	Middle	0.08	28.0	28	7.5	7.5	0.02	0.02	91.8	92	8.4	8.5	2.2	2.2	16.0	16
						28.0		7.5		0.02		92.2		8.5		2.2		16.0	
8-Aug-07	Rainy	Calm	12:30	Middle	0.08	27.9	27.9	7.5	7.5	0.02	0.02	90.7	90.7	8.4	8.4	1.9	1.9	12.0	11.5
						27.9		7.5		0.02		90.7		8.4		1.9		11.0	
10-Aug-07	Rainy	Calm	12:40	Middle	0.08	27.9	27.9	7.5	7.5	0.02	0.02	90.2	90	8.3	8.3	1.9	1.9	3.0	3
						27.9		7.5		0.02		89.7		8.3		1.9		3.0	
13-Aug-07	Cloudy	Calm	12:49	Middle	0.08	27.9	27.9	7.6	7.6	0.02	0.02	91.0	91	8.4	8.4	2.1	2.1	6.0	5.5
						27.9		7.6		0.02		90.9		8.4		2.1		5.0	
15-Aug-07	Cloudy	Calm	12:49	Middle	0.08	27.8	27.8	7.5	7.5	0.02	0.02	90.1	89.9	8.3	8.3	2.0	2	7.0	6.5
						27.8		7.5		0.02		89.6		8.3		2.0		6.0	
17-Aug-07	Rainy	Calm	11:59	Middle	0.08	27.7	27.7	7.7	7.7	0.02	0.02	92.3	92	8.3	8.3	2.4	2.4	18.0	17.5
						27.7		7.7		0.02		91.7		8.3		2.3		17.0	
20-Aug-07	Cloudy	Calm	11:23	Middle	0.08	27.7	27.7	7.8	7.8	0.02	0.02	85.0	84.9	7.8	7.8	2.1	2.1	5.0	5
						27.7		7.8		0.02		84.7		7.8		2.1		5.0	
22-Aug-07	Cloudy	Calm	13:15	Middle	0.08	27.6	27.6	7.7	7.7	0.02	0.02	88.6	88.4	8.1	8.1	2.2	2.2	3.0	3.5
						27.6		7.7		0.02		88.2		8.1		2.2		4.0	
24-Aug-07	Sunny	Calm	12:19	Middle	0.08	27.7	27.7	7.7	7.7	0.02	0.02	86.8	86.6	7.9	7.9	2.0	2	6.0	5.5
						27.7		7.7		0.02		86.4		7.9		2.0		5.0	
27-Aug-07	Sunny	Calm	14:04	Middle	0.08	28.0	28	7.6	7.6	0.02	0.02	90.2	90.2	8.2	8.3	1.8	1.8	5.0	5
						28.0		7.6		0.02		90.2		8.3		1.8		5.0	
29-Aug-07	Cloudy	Calm	16:11	Middle	0.08	28.1	28.1	7.5	7.5	0.02	0.02	88.5	88.4	8.1	8.1	2.0	2	5.0	5.5
						28.1		7.5		0.02		88.3		8.1		2.0		6.0	
31-Aug-07	Sunny	Calm	14:07	Middle	0.08	28.1	28.1	7.6	7.6	0.02	0.02	88.5	88.4	8.1	8.1	1.8	1.8	4.0	4
						28.1		7.6		0.02		88.3		8.1		1.8		4.0	

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
 ** Cancelled due to Thunderstorm Warning

Water Quality Monitoring Results at 18_I

Date	Weather Condition	Sea Condition*	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
6-Aug-07	Fine	Calm	14:44	Middle	0.1	27.8	27.8	7.7	7.7	0.02	0.02	89.4	89.4	8.3	8.3	2.1	2.1	21.0	21
						27.8		7.7		0.02		89.3		8.3		2.0		21.0	
8-Aug-07	Rainy	Calm	12:19	Middle	0.1	27.8	27.8	7.7	7.7	0.02	0.02	89.8	89.8	8.3	8.3	1.8	1.8	4.0	4
						27.8		7.7		0.02		89.7		8.3		1.7		4.0	
10-Aug-07	Rainy	Calm	12:29	Middle	0.1	27.8	27.8	7.7	7.7	0.02	0.02	88.7	88.7	8.2	8.2	1.9	1.9	6.0	5.5
						27.8		7.7		0.02		88.7		8.2		1.9		5.0	
13-Aug-07	Cloudy	Calm	12:39	Middle	0.1	27.8	27.8	7.8	7.8	0.02	0.02	89.0	89	8.3	8.3	2.1	2.1	6.0	6
						27.8		7.8		0.02		89.0		8.3		2.1		6.0	
15-Aug-07	Cloudy	Calm	12:39	Middle	0.1	27.7	27.7	7.7	7.7	0.02	0.02	88.5	88.5	8.2	8.2	2.0	2	6.0	6
						27.7		7.7		0.02		88.5		8.2		2.0		6.0	
17-Aug-07	Rainy	Calm	11:49	Middle	0.1	27.6	27.6	7.8	7.8	0.02	0.02	91.5	91.3	8.3	8.3	2.4	2.4	15.0	15
						27.6		7.8		0.02		91.1		8.3		2.3		15.0	
20-Aug-07	Cloudy	Calm	11:13	Middle	0.1	27.6	27.6	7.8	7.8	0.02	0.02	84.6	84.6	7.8	7.8	2.0	2	5.0	5
						27.6		7.8		0.02		84.5		7.8		2.0		5.0	
22-Aug-07	Cloudy	Calm	13:04	Middle	0.1	27.5	27.6	7.8	7.8	0.02	0.02	88.0	87.9	8.0	8	2.1	2.1	4.0	4
						27.6		7.8		0.02		87.8		8.0		2.1		4.0	
24-Aug-07	Sunny	Calm	12:09	Middle	0.1	27.6	27.6	7.7	7.7	0.02	0.02	86.3	86.2	7.9	7.9	1.9	1.9	5.0	5
						27.6		7.7		0.02		86.1		7.9		1.9		5.0	
27-Aug-07	Sunny	Calm	13:53	Middle	0.1	27.8	27.9	7.8	7.8	0.02	0.02	88.7	88.6	8.2	8.2	1.7	1.7	5.0	5
						27.9		7.8		0.02		88.5		8.2		1.6		5.0	
29-Aug-07	Cloudy	Calm	15:59	Middle	0.1	27.9	27.9	7.7	7.7	0.02	0.02	87.5	87.4	8.0	8	1.9	1.9	7.0	7
						27.9		7.7		0.02		87.3		8.0		1.8		7.0	
31-Aug-07	Sunny	Calm	13:55	Middle	0.1	27.9	27.9	7.8	7.8	0.02	0.02	87.5	87.4	8.0	8	1.7	1.7	4.0	4
						27.9		7.8		0.02		87.3		8.0		1.6		4.0	

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
 ** Cancelled due to Thunderstorm Warning

Water Quality Monitoring Results at 18_R

Date	Weather Condition	Sea Condition*	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
6-Aug-07	Fine	Calm	14:40	Middle	0.175	27.8	27.8	7.7	7.7	0.02	0.02	90.2	89.7	8.4	8.4	2.1	2.1	20.0	20.5
						27.8		7.7		0.02		89.2		8.3		2.1			
8-Aug-07	Rainy	Calm	12:16	Middle	0.175	27.8	27.8	7.7	7.7	0.02	0.02	90.5	90	8.4	8.4	1.8	1.8	5.0	5
						27.8		7.7		0.02		89.5		8.3		1.8			
10-Aug-07	Rainy	Calm	12:26	Middle	0.175	27.7	27.7	7.7	7.7	0.02	0.02	89.4	89	8.3	8.3	2.1	2.1	6.0	6
						27.7		7.7		0.02		88.5		8.2		2.0			
13-Aug-07	Cloudy	Calm	12:35	Middle	0.175	27.8	27.8	7.8	7.8	0.02	0.02	89.8	89.3	8.3	8.3	2.3	2.3	5.0	5
						27.8		7.8		0.02		88.8		8.2		2.2			
15-Aug-07	Cloudy	Calm	12:35	Middle	0.175	27.7	27.7	7.7	7.7	0.02	0.02	89.3	88.8	8.3	8.3	2.2	2.2	7.0	7
						27.7		7.7		0.02		88.3		8.2		2.1			
17-Aug-07	Rainy	Calm	11:45	Middle	0.175	27.6	27.6	7.9	7.9	0.02	0.02	93.3	92.4	8.4	8.4	2.8	2.7	18.0	18
						27.6		7.8		0.02		91.4		8.3		2.6			
20-Aug-07	Cloudy	Calm	11:09	Middle	0.175	27.6	27.6	7.8	7.8	0.02	0.02	85.5	85.1	7.9	7.9	2.2	2.2	5.0	5
						27.6		7.8		0.02		84.6		7.8		2.1			
22-Aug-07	Cloudy	Calm	13:01	Middle	0.175	27.5	27.5	7.8	7.8	0.02	0.02	89.4	88.7	8.1	8.1	2.3	2.3	5.0	5
						27.5		7.8		0.02		88.0		8.0		2.2			
24-Aug-07	Sunny	Calm	12:05	Middle	0.175	27.6	27.6	7.7	7.7	0.02	0.02	87.4	86.9	8.0	8	2.1	2.1	4.0	4
						27.6		7.7		0.02		86.3		7.9		2.0			
27-Aug-07	Sunny	Calm	13:49	Middle	0.175	27.8	27.8	7.8	7.8	0.02	0.02	89.8	89.2	8.3	8.3	1.7	1.7	5.0	5
						27.8		7.8		0.02		88.6		8.2		1.7			
29-Aug-07	Cloudy	Calm	15:55	Middle	0.175	27.9	27.9	7.7	7.7	0.02	0.02	88.6	88	8.1	8.1	1.9	1.9	5.0	5
						27.9		7.7		0.02		87.4		8.0		1.9			
31-Aug-07	Sunny	Calm	13:51	Middle	0.175	27.9	27.9	7.8	7.8	0.02	0.02	88.6	88	8.1	8.1	1.7	1.7	4.0	4
						27.9		7.8		0.02		87.4		8.0		1.7			

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
 ** Cancelled due to Thunderstorm Warning

Water Quality Monitoring Results at 21_I

Date	Weather Condition	Sea Condition*	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Aug-07	Sunny	Calm	11:55	Middle	0.14	27.8	27.9	7.8	7.8	0.02	0.02	92.5	92.5	8.4	8.4	1.8	1.8	6.0	6
						27.9		7.8		0.02		92.4		8.4		1.8		6.0	
3-Aug-07	Sunny	Calm	14:42	Middle	0.14	27.8	27.8	7.7	7.7	0.02	0.02	92.8	92.9	8.5	8.5	1.9	1.9	9.0	8.5
						27.8		7.7		0.02		92.9		8.5		1.9		8.0	
6-Aug-07	Fine	Calm	14:36	Middle	0.14	27.8	27.8	7.7	7.7	0.02	0.02	91.0	91.3	8.4	8.5	2.2	2.3	18.0	18
						27.8		7.7		0.02		91.5		8.5		2.3		18.0	
8-Aug-07	Rainy	Calm	12:10	Middle	0.14	27.7	27.7	7.7	7.7	0.02	0.02	90.1	90.3	8.4	8.4	1.9	2	3.0	3
						27.7		7.7		0.02		90.5		8.4		2.0		3.0	
10-Aug-07	Rainy	Calm	12:21	Middle	0.14	27.6	27.6	7.8	7.8	0.02	0.02	88.9	89.1	8.3	8.3	2.3	2.3	6.0	6
						27.6		7.8		0.02		89.3		8.3		2.2		6.0	
13-Aug-07	Cloudy	Calm	12:30	Middle	0.14	27.6	27.7	7.9	7.9	0.02	0.02	89.9	90.2	8.4	8.4	2.5	2.5	5.0	5
						27.7		7.9		0.02		90.4		8.4		2.4		5.0	
15-Aug-07	Cloudy	Calm	12:30	Middle	0.14	27.5	27.5	7.8	7.8	0.02	0.02	88.8	89.1	8.3	8.3	2.2	2.2	5.0	5
						27.5		7.8		0.02		89.3		8.3		2.1		5.0	
17-Aug-07	Rainy	Calm	11:40	Middle	0.14	27.4	27.4	7.9	7.9	0.02	0.02	89.7	89.8	8.2	8.2	2.5	2.5	13.0	13
						27.4		7.9		0.02		89.8		8.2		2.4		13.0	
20-Aug-07	Cloudy	Calm	11:04	Middle	0.14	27.4	27.5	7.9	7.9	0.02	0.02	82.0	82	7.6	7.6	2.1	2.1	4.0	4.5
						27.5		7.9		0.02		81.9		7.6		2.0		5.0	
22-Aug-07	Cloudy	Calm	12:55	Middle	0.14	27.4	27.4	7.9	7.9	0.02	0.02	85.8	85.8	7.9	7.9	2.2	2.2	4.0	4
						27.4		7.9		0.02		85.8		7.9		2.1		4.0	
24-Aug-07	Sunny	Calm	12:00	Middle	0.14	27.4	27.5	7.8	7.8	0.02	0.02	83.9	83.9	7.8	7.8	2.0	2	4.0	4
						27.5		7.8		0.02		83.8		7.8		1.9		4.0	
27-Aug-07	Sunny	Calm	13:45	Middle	0.14	27.8	27.8	7.8	7.8	0.02	0.02	88.4	88.5	8.2	8.2	1.8	1.9	4.0	4.5
						27.8		7.8		0.02		88.6		8.2		1.9		5.0	
29-Aug-07	Cloudy	Calm	15:51	Middle	0.14	27.8	27.8	7.8	7.8	0.02	0.02	86.1	86.2	8.0	8	2.0	2.1	6.0	6
						27.8		7.8		0.02		86.2		8.0		2.1		6.0	
31-Aug-07	Sunny	Calm	13:47	Middle	0.14	27.9	27.9	7.9	7.9	0.02	0.02	86.1	86.2	8.0	8	1.8	1.9	6.0	5.5
						27.9		7.9		0.02		86.2		8.0		1.9		5.0	

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
 ** Cancelled due to Thunderstorm Warning

Water Quality Monitoring Results at 21_R

Date	Weather Condition	Sea Condition*	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Aug-07	Sunny	Calm	11:51	Middle	0.1	27.8	27.8	7.8	7.8	0.02	0.02	93.1	92.9	8.5	8.5	1.9	1.9	7.0	7
						27.8		7.8		0.02		92.7		8.5		1.9		7.0	
3-Aug-07	Sunny	Calm	14:38	Middle	0.1	27.8	27.8	7.7	7.7	0.02	0.02	94.0	93.7	8.6	8.6	2.0	2	4.0	4
						27.8		7.7		0.02		93.4		8.6		2.0		4.0	
6-Aug-07	Fine	Calm	14:31	Middle	0.1	27.7	27.7	7.7	7.7	0.02	0.02	92.6	92.2	8.6	8.6	2.3	2.3	20.0	20
						27.7		7.7		0.02		91.8		8.5		2.3		20.0	
8-Aug-07	Rainy	Calm	12:06	Middle	0.1	27.6	27.6	7.7	7.7	0.02	0.02	91.6	91.2	8.5	8.5	2.0	2	7.0	7.5
						27.6		7.7		0.02		90.8		8.5		2.0		8.0	
10-Aug-07	Rainy	Calm	12:16	Middle	0.1	27.6	27.6	7.8	7.8	0.02	0.02	90.4	90	8.4	8.4	2.4	2.4	6.0	6
						27.6		7.8		0.02		89.6		8.4		2.3		6.0	
13-Aug-07	Cloudy	Calm	12:26	Middle	0.1	27.6	27.6	7.9	7.9	0.02	0.02	91.5	91.1	8.5	8.5	2.6	2.6	4.0	4.5
						27.6		7.9		0.02		90.7		8.4		2.5		5.0	
15-Aug-07	Cloudy	Calm	12:26	Middle	0.1	27.5	27.5	7.8	7.8	0.02	0.02	90.3	90	8.4	8.4	2.3	2.3	4.0	4
						27.5		7.8		0.02		89.6		8.4		2.2		4.0	
17-Aug-07	Rainy	Calm	11:35	Middle	0.1	27.4	27.4	7.9	7.9	0.02	0.02	90.6	90.4	8.2	8.2	3.1	3.1	27.0	26.5
						27.4		7.9		0.02		90.2		8.2		3.0		26.0	
20-Aug-07	Cloudy	Calm	11:00	Middle	0.1	27.4	27.4	7.9	7.9	0.02	0.02	82.3	82.2	7.7	7.7	2.2	2.2	5.0	5
						27.4		7.9		0.02		82.0		7.6		2.2		5.0	
22-Aug-07	Cloudy	Calm	12:51	Middle	0.1	27.3	27.3	7.9	7.9	0.02	0.02	86.4	86.3	7.9	7.9	2.3	2.3	4.0	4
						27.3		7.9		0.02		86.1		7.9		2.3		4.0	
24-Aug-07	Sunny	Calm	11:55	Middle	0.1	27.4	27.4	7.8	7.8	0.02	0.02	84.3	84.2	7.8	7.8	2.1	2.1	4.0	4
						27.4		7.8		0.02		84.0		7.8		2.1		4.0	
27-Aug-07	Sunny	Calm	13:41	Middle	0.1	27.7	27.8	7.8	7.8	0.02	0.02	89.5	89.2	8.3	8.3	1.9	1.9	5.0	5
						27.8		7.8		0.02		88.9		8.2		1.9		5.0	
29-Aug-07	Cloudy	Calm	15:47	Middle	0.1	27.8	27.8	7.8	7.8	0.02	0.02	86.9	86.7	8.0	8	2.1	2.1	4.0	4.5
						27.8		7.8		0.02		86.4		8.0		2.1		5.0	
31-Aug-07	Sunny	Calm	13:43	Middle	0.1	27.8	27.8	7.9	7.9	0.02	0.02	86.9	86.7	8.0	8	1.8	1.8	4.0	4
						27.8		7.9		0.02		86.4		8.0		1.8		4.0	

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
 ** Cancelled due to Thunderstorm Warning

Water Quality Monitoring Results at 23_I

Date	Weather Condition	Sea Condition*	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Aug-07	Sunny	Calm	11:45	Middle	0.09	28.0	28	7.6	7.6	0.03	0.03	94.5	94.4	8.6	8.6	1.8	1.8	10.0	9.5
						28.0		7.6		0.03		94.2		8.6		1.8		9.0	
3-Aug-07	Sunny	Calm	14:32	Middle	0.09	27.9	27.9	7.6	7.6	0.03	0.03	94.4	94.2	8.6	8.6	2.0	2	6.0	6
						27.9		7.6		0.03		93.9		8.6		1.9		6.0	
6-Aug-07	Fine	Calm	14:25	Middle	0.09	27.9	27.9	7.6	7.6	0.02	0.02	92.8	92.6	8.6	8.6	2.3	2.3	12.0	12
						27.9		7.6		0.02		92.4		8.5		2.2		12.0	
8-Aug-07	Rainy	Calm	12:00	Middle	0.09	27.8	27.8	7.6	7.6	0.02	0.02	90.9	90.7	8.5	8.5	1.9	1.9	10.0	10
						27.8		7.6		0.02		90.5		8.4		1.9		10.0	
10-Aug-07	Rainy	Calm	12:10	Middle	0.09	27.7	27.7	7.6	7.6	0.02	0.02	90.5	90.2	8.4	8.4	2.1	2.1	3.0	3
						27.7		7.6		0.02		89.9		8.4		2.1		3.0	
13-Aug-07	Cloudy	Calm	12:20	Middle	0.09	27.8	27.8	7.7	7.7	0.02	0.02	91.6	91.4	8.5	8.5	2.3	2.3	<2.5	<2.5
						27.8		7.7		0.02		91.1		8.5		2.3		<2.5	
15-Aug-07	Cloudy	Calm	12:20	Middle	0.09	27.6	27.6	7.6	7.6	0.02	0.02	90.5	90.2	8.4	8.4	2.1	2.1	5.0	5
						27.6		7.6		0.02		89.9		8.4		2.1		5.0	
17-Aug-07	Rainy	Calm	11:29	Middle	0.09	27.6	27.6	7.8	7.8	0.02	0.02	87.9	89.7	7.9	8.1	2.5	2.5	15.0	15.5
						27.6		7.8		0.02		91.4		8.3		2.4		16.0	
20-Aug-07	Cloudy	Calm	10:54	Middle	0.09	27.6	27.6	7.8	7.8	0.02	0.02	84.5	85.3	7.8	7.9	2.2	2.2	4.0	4
						27.6		7.8		0.02		86.1		8.0		2.1		4.0	
22-Aug-07	Cloudy	Calm	12:45	Middle	0.09	27.5	27.5	7.8	7.8	0.02	0.02	86.2	87.5	7.9	8	2.3	2.3	3.0	3
						27.5		7.8		0.02		88.7		8.1		2.2		3.0	
24-Aug-07	Sunny	Calm	11:49	Middle	0.09	27.6	27.6	7.7	7.7	0.02	0.02	85.3	86.4	7.9	8	2.1	2.1	4.0	4
						27.6		7.7		0.02		87.4		8.1		2.0		4.0	
27-Aug-07	Sunny	Calm	13:35	Middle	0.09	27.9	27.9	7.7	7.7	0.02	0.02	89.5	90	8.2	8.3	1.9	1.9	6.0	6
						27.9		7.7		0.02		90.5		8.3		1.8		6.0	
29-Aug-07	Cloudy	Calm	15:41	Middle	0.09	27.9	27.9	7.6	7.6	0.02	0.02	87.4	88.2	8.0	8.1	2.1	2.1	6.0	6
						27.9		7.6		0.02		88.9		8.2		2.0		6.0	
31-Aug-07	Sunny	Calm	13:37	Middle	0.09	28.0	28	7.7	7.7	0.02	0.02	87.4	88.2	8.0	8.1	1.8	1.8	4.0	4
						28.0		7.7		0.02		88.9		8.2		1.7		4.0	

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
 ** Cancelled due to Thunderstorm Warning

Water Quality Monitoring Results at 23_R1

Date	Weather Condition	Sea Condition*	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Aug-07	Sunny	Calm	11:32	Middle	0.09	27.9	27.9	7.6	7.6	0.03	0.03	95.5	95.3	8.7	8.7	1.8	1.8	6.0	6
						27.9		7.6		0.03		95.0		8.7		1.8		6.0	
3-Aug-07	Sunny	Calm	14:19	Middle	0.09	27.9	27.9	7.6	7.6	0.03	0.03	96.4	96	8.8	8.8	2.0	2	6.0	6
						27.9		7.6		0.03		95.5		8.8		2.0		6.0	
6-Aug-07	Fine	Calm	14:12	Middle	0.09	27.8	27.8	7.6	7.6	0.02	0.02	95.4	95	8.8	8.8	2.3	2.3	17.0	17
						27.8		7.6		0.02		94.5		8.8		2.3		17.0	
8-Aug-07	Rainy	Calm	11:47	Middle	0.09	27.7	27.7	7.6	7.6	0.02	0.02	93.8	93.3	8.7	8.7	1.9	1.9	8.0	8
						27.7		7.6		0.02		92.7		8.6		1.9		8.0	
10-Aug-07	Rainy	Calm	11:57	Middle	0.09	27.7	27.7	7.6	7.6	0.02	0.02	93.7	93	8.7	8.7	2.2	2.2	3.0	3
						27.7		7.6		0.02		92.2		8.6		2.2		3.0	
13-Aug-07	Cloudy	Calm	12:07	Middle	0.09	27.7	27.7	7.7	7.7	0.02	0.02	94.5	93.9	8.8	8.8	2.4	2.4	5.0	5
						27.7		7.7		0.02		93.3		8.7		2.4		5.0	
15-Aug-07	Cloudy	Calm	12:07	Middle	0.09	27.6	27.6	7.6	7.6	0.02	0.02	93.6	92.9	8.7	8.7	2.0	2	5.0	5
						27.6		7.6		0.02		92.2		8.6		2.0		5.0	
17-Aug-07	Rainy	Calm	11:16	Middle	0.09	27.5	27.5	7.9	7.9	0.02	0.02	90.8	90.4	8.2	8.2	2.9	2.9	19.0	19
						27.5		7.8		0.02		90.0		8.2		2.8		19.0	
20-Aug-07	Cloudy	Calm	10:41	Middle	0.09	27.5	27.5	7.8	7.8	0.02	0.02	88.0	87.5	8.2	8.2	2.4	2.4	5.0	4.5
						27.5		7.8		0.02		86.9		8.1		2.3		4.0	
22-Aug-07	Cloudy	Calm	12:32	Middle	0.09	27.4	27.4	7.8	7.8	0.02	0.02	89.4	88.9	8.2	8.2	2.5	2.5	3.0	3
						27.4		7.8		0.02		88.4		8.1		2.4		3.0	
24-Aug-07	Sunny	Calm	11:36	Middle	0.09	27.5	27.5	7.7	7.7	0.02	0.02	88.7	88.2	8.2	8.2	2.3	2.3	4.0	4
						27.5		7.7		0.02		87.6		8.1		2.2		4.0	
27-Aug-07	Sunny	Calm	13:22	Middle	0.09	27.8	27.9	7.7	7.7	0.02	0.02	92.4	91.9	8.5	8.5	1.9	1.9	5.0	5
						27.9		7.7		0.02		91.4		8.4		1.9		5.0	
29-Aug-07	Cloudy	Calm	15:28	Middle	0.09	27.9	27.9	7.6	7.6	0.02	0.02	90.5	90	8.4	8.4	2.1	2.1	6.0	6
						27.9		7.6		0.02		89.5		8.3		2.1		6.0	
31-Aug-07	Sunny	Calm	13:24	Middle	0.09	27.9	27.9	7.7	7.7	0.02	0.02	90.5	90	8.4	8.4	1.8	1.8	4.0	4
						27.9		7.7		0.02		89.5		8.3		1.8		4.0	

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
 ** Cancelled due to Thunderstorm Warning

Water Quality Monitoring Results at 23_R2

Date	Weather Condition	Sea Condition*	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Aug-07	Sunny	Calm	11:38	Middle	0.1	27.9	27.9	7.6	7.6	0.03	0.03	95.0	95	8.6	8.6	1.8	1.8	8.0	8
						27.9		7.6		0.03		94.9		8.6		1.8		8.0	
3-Aug-07	Sunny	Calm	14:25	Middle	0.1	27.9	27.9	7.6	7.6	0.03	0.03	95.6	95.5	8.8	8.8	1.9	1.9	6.0	6
						27.9		7.6		0.03		95.3		8.7		1.9		6.0	
6-Aug-07	Fine	Calm	14:18	Middle	0.1	27.8	27.8	7.6	7.6	0.02	0.02	94.5	94.4	8.7	8.7	2.2	2.2	20.0	19.5
						27.8		7.6		0.02		94.3		8.7		2.2		19.0	
8-Aug-07	Rainy	Calm	11:53	Middle	0.1	27.7	27.7	7.6	7.6	0.02	0.02	92.6	92.5	8.6	8.6	1.8	1.8	10.0	10
						27.7		7.6		0.02		92.4		8.6		1.8		10.0	
10-Aug-07	Rainy	Calm	12:03	Middle	0.1	27.7	27.7	7.6	7.6	0.02	0.02	92.3	92.2	8.6	8.6	2.1	2.1	4.0	4
						27.7		7.6		0.02		92.1		8.6		2.0		4.0	
13-Aug-07	Cloudy	Calm	12:13	Middle	0.1	27.7	27.7	7.7	7.7	0.02	0.02	93.4	93.3	8.7	8.7	2.3	2.3	5.0	5
						27.7		7.7		0.02		93.2		8.7		2.2		5.0	
15-Aug-07	Cloudy	Calm	12:13	Middle	0.1	27.6	27.6	7.6	7.6	0.02	0.02	92.4	92.3	8.6	8.6	2.1	2.1	6.0	6
						27.6		7.6		0.02		92.1		8.6		2.1		6.0	
17-Aug-07	Rainy	Calm	11:22	Middle	0.1	27.5	27.5	7.8	7.8	0.02	0.02	90.0	89.4	8.2	8.1	2.7	2.7	19.0	19
						27.5		7.8		0.02		88.8		8.0		2.6		19.0	
20-Aug-07	Cloudy	Calm	10:47	Middle	0.1	27.5	27.5	7.8	7.8	0.02	0.02	85.9	85.7	8.0	8	2.2	2.2	4.0	4
						27.5		7.8		0.02		85.4		7.9		2.2		4.0	
22-Aug-07	Cloudy	Calm	12:38	Middle	0.1	27.4	27.4	7.8	7.8	0.02	0.02	87.9	87.5	8.1	8.1	2.3	2.3	4.0	4
						27.4		7.8		0.02		87.1		8.0		2.3		4.0	
24-Aug-07	Sunny	Calm	11:42	Middle	0.1	27.5	27.5	7.7	7.7	0.02	0.02	86.9	86.6	8.0	8	2.1	2.1	5.0	4.5
						27.5		7.7		0.02		86.2		7.9		2.1		4.0	
27-Aug-07	Sunny	Calm	13:28	Middle	0.1	27.9	27.9	7.7	7.7	0.02	0.02	91.2	91	8.4	8.4	1.8	1.8	8.0	8
						27.9		7.7		0.02		90.7		8.3		1.8		8.0	
29-Aug-07	Cloudy	Calm	15:34	Middle	0.1	27.9	27.9	7.6	7.6	0.02	0.02	89.0	88.7	8.2	8.2	2.0	2	6.0	6
						27.9		7.6		0.02		88.4		8.1		2.0		6.0	
31-Aug-07	Sunny	Calm	13:30	Middle	0.1	27.9	27.9	7.7	7.7	0.02	0.02	89.0	88.7	8.2	8.2	1.7	1.7	4.0	4
						27.9		7.7		0.02		88.4		8.1		1.7		4.0	

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
 ** Cancelled due to Thunderstorm Warning

Water Quality Monitoring Results at 26_I

Date	Weather Condition	Sea Condition*	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Aug-07	Sunny	Calm	10:51	Middle	0.14	27.9	27.9	7.8	7.8	0.02	0.02	93.5	92.6	8.4	8.2	1.7	1.8	5.0	5.5
						27.9		7.8		0.02		91.7		8.0		1.8		6.0	
3-Aug-07	Sunny	Calm	13:38	Middle	0.14	27.9	27.9	7.8	7.8	0.02	0.02	94.4	93.6	8.6	8.4	1.7	1.7	6.0	6
						27.9		7.8		0.02		92.7		8.2		1.7		6.0	
6-Aug-07	Fine	Calm	13:32	Middle	0.14	27.8	27.8	7.8	7.8	0.02	0.02	93.6	93.4	8.6	8.6	2.1	2.2	18.0	18.5
						27.8		7.8		0.02		93.2		8.5		2.2		19.0	
8-Aug-07	Rainy	Calm	11:06	Middle	0.14	27.7	27.7	7.8	7.8	0.03	0.03	92.5	92.4	8.6	8.6	1.8	1.9	10.0	10.5
						27.7		7.8		0.03		92.3		8.5		1.9		11.0	
10-Aug-07	Rainy	Calm	11:16	Middle	0.14	27.7	27.7	7.9	7.9	0.03	0.03	92.2	92.3	8.5	8.5	2.0	2	5.0	4.5
						27.7		7.9		0.03		92.3		8.5		2.0		4.0	
13-Aug-07	Cloudy	Calm	11:26	Middle	0.14	27.7	27.7	8.0	8	0.02	0.02	92.9	92.8	8.6	8.6	2.2	2.2	3.0	3.5
						27.7		8.0		0.02		92.7		8.5		2.2		4.0	
15-Aug-07	Cloudy	Calm	11:26	Middle	0.14	27.6	27.6	7.9	7.9	0.03	0.03	91.8	91.8	8.5	8.5	2.1	2.1	6.0	6
						27.6		7.9		0.03		91.7		8.4		2.1		6.0	
17-Aug-07	Rainy	Calm	10:36	Middle	0.14	27.5	27.5	8.0	8	0.03	0.03	94.8	96.4	8.6	8.6	2.3	2.3	12.0	12
						27.5		8.0		0.03		98.0		8.6		2.3		12.0	
20-Aug-07	Cloudy	Calm	10:00	Middle	0.14	27.5	27.5	8.0	8	0.03	0.03	88.5	89.2	8.2	8.2	1.9	1.9	6.0	5.5
						27.5		8.0		0.03		89.9		8.2		1.9		5.0	
22-Aug-07	Cloudy	Calm	11:51	Middle	0.14	27.4	27.4	7.9	7.9	0.03	0.03	91.6	92.8	8.4	8.4	1.9	1.9	4.0	4
						27.4		7.9		0.03		93.9		8.4		1.9		4.0	
24-Aug-07	Sunny	Calm	10:56	Middle	0.14	27.5	27.5	7.9	7.9	0.03	0.03	90.0	91	8.3	8.3	1.7	1.7	4.0	4
						27.5		7.8		0.03		91.9		8.3		1.7		4.0	
27-Aug-07	Sunny	Calm	12:41	Middle	0.14	27.8	27.8	7.9	7.9	0.03	0.03	92.6	93.1	8.5	8.5	1.7	1.8	4.0	4.5
						27.8		7.9		0.03		93.5		8.4		1.8		5.0	
29-Aug-07	Cloudy	Calm	14:47	Middle	0.14	27.9	27.9	7.9	7.9	0.03	0.03	91.3	92	8.4	8.4	1.9	2	5.0	5
						27.9		7.9		0.03		92.7		8.4		2.0		5.0	
31-Aug-07	Sunny	Calm	12:43	Middle	0.14	27.9	27.9	8.0	8	0.03	0.03	91.3	92	8.4	8.4	1.8	1.9	5.0	5
						27.9		8.0		0.03		92.7		8.4		1.9		5.0	

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
 ** Cancelled due to Thunderstorm Warning

Water Quality Monitoring Results at 26_R

Date	Weather Condition	Sea Condition*	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Aug-07	Sunny	Calm	11:21	Middle	0.09	28.0	28	7.8	7.8	0.02	0.02	95.2	95.1	8.5	8.5	1.8	1.8	8.0	8
						28.0		7.8		0.02		94.9		8.5		1.8		8.0	
3-Aug-07	Sunny	Calm	14:08	Middle	0.09	28.0	28	7.7	7.7	0.02	0.02	95.3	95.1	8.6	8.6	1.9	1.9	6.0	6
						28.0		7.7		0.02		94.9		8.6		1.9		6.0	
6-Aug-07	Fine	Calm	14:01	Middle	0.09	27.9	27.9	7.8	7.8	0.02	0.02	93.0	92.8	8.5	8.5	2.2	2.2	16.0	16
						27.9		7.7		0.02		92.6		8.5		2.2		16.0	
8-Aug-07	Rainy	Calm	11:36	Middle	0.09	27.8	27.8	7.8	7.8	0.03	0.03	91.8	91.6	8.5	8.5	1.9	1.9	13.0	13
						27.8		7.8		0.03		91.4		8.5		1.9		13.0	
10-Aug-07	Rainy	Calm	11:46	Middle	0.09	27.8	27.8	7.8	7.8	0.03	0.03	90.7	90.5	8.4	8.4	1.8	1.8	4.0	4
						27.8		7.8		0.03		90.3		8.4		1.8		4.0	
13-Aug-07	Cloudy	Calm	11:55	Middle	0.09	27.8	27.8	7.9	7.9	0.02	0.02	91.8	91.6	8.5	8.5	2.0	2	4.0	4
						27.8		7.9		0.02		91.4		8.4		2.0		4.0	
15-Aug-07	Cloudy	Calm	11:55	Middle	0.09	27.7	27.7	7.8	7.8	0.03	0.03	90.6	90.4	8.4	8.4	2.0	2	7.0	6.5
						27.7		7.8		0.03		90.2		8.4		2.0		6.0	
17-Aug-07	Rainy	Calm	11:05	Middle	0.09	27.6	27.6	8.0	8	0.03	0.03	96.9	93.1	8.6	8.4	2.2	2.2	16.0	16
						27.6		8.0		0.03		89.3		8.1		2.2		16.0	
20-Aug-07	Cloudy	Calm	10:30	Middle	0.09	27.6	27.6	8.0	8	0.03	0.03	88.9	86.9	8.1	8	1.8	1.8	5.0	5
						27.6		8.0		0.03		84.9		7.8		1.8		5.0	
22-Aug-07	Cloudy	Calm	12:21	Middle	0.09	27.5	27.5	7.9	7.9	0.03	0.03	92.9	90	8.3	8.2	1.9	1.9	3.0	3.5
						27.5		7.9		0.03		87.1		8.0		1.9		4.0	
24-Aug-07	Sunny	Calm	11:25	Middle	0.09	27.6	27.6	7.9	7.9	0.03	0.03	90.9	88.5	8.2	8.1	1.7	1.7	4.0	4
						27.6		7.8		0.03		86.0		7.9		1.7		4.0	
27-Aug-07	Sunny	Calm	13:11	Middle	0.09	27.9	28	7.8	7.8	0.03	0.03	92.9	91.4	8.4	8.3	1.8	1.8	6.0	6
						28.0		7.8		0.03		89.8		8.2		1.8		6.0	
29-Aug-07	Cloudy	Calm	15:17	Middle	0.09	28.0	28	7.8	7.8	0.03	0.03	91.9	89.9	8.3	8.2	2.0	2	3.0	3
						28.0		7.8		0.03		87.9		8.1		2.0		3.0	
31-Aug-07	Sunny	Calm	13:13	Middle	0.09	28.0	28	7.9	7.9	0.03	0.03	91.9	89.9	8.3	8.2	1.7	1.7	3.0	3.5
						28.0		7.9		0.03		87.9		8.1		1.7		4.0	

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
 ** Cancelled due to Thunderstorm Warning

Water Quality Monitoring Results at 27_I

Date	Weather Condition	Sea Condition*	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Aug-07	Sunny	Calm	11:14	Middle	0.08	27.9 28.0	28	7.8 7.8	7.8	0.02 0.02	0.02	95.4 95.2	95.3	8.7 8.6	8.7	1.6 1.6	1.6	6.0 6.0	6
3-Aug-07	Sunny	Calm	14:02	Middle	0.08	27.9 27.9	27.9	7.7 7.7	7.7	0.02 0.02	0.02	95.8 95.6	95.7	8.8 8.8	8.8	1.7 1.7	1.7	8.0 8.0	8
6-Aug-07	Fine	Calm	13:55	Middle	0.08	27.8 27.9	27.9	7.8 7.8	7.8	0.02 0.02	0.02	93.5 93.4	93.5	8.6 8.6	8.6	2.1 2.1	2.1	9.0 9.0	9
8-Aug-07	Rainy	Calm	11:30	Middle	0.08	27.7 27.8	27.8	7.8 7.8	7.8	0.03 0.03	0.03	92.7 92.6	92.7	8.6 8.6	8.6	1.8 1.8	1.8	9.0 10.0	9.5
10-Aug-07	Rainy	Calm	11:40	Middle	0.08	27.7 27.7	27.7	7.8 7.8	7.8	0.03 0.03	0.03	91.8 91.7	91.8	8.6 8.5	8.6	1.8 1.8	1.8	6.0 6.0	6
13-Aug-07	Cloudy	Calm	11:49	Middle	0.08	27.7 27.8	27.8	7.9 7.9	7.9	0.02 0.02	0.02	92.6 92.5	92.6	8.6 8.6	8.6	2.0 2.0	2	4.0 4.0	4
15-Aug-07	Cloudy	Calm	11:49	Middle	0.08	27.6 27.6	27.6	7.8 7.8	7.8	0.03 0.03	0.03	91.7 91.6	91.7	8.6 8.5	8.6	1.9 1.9	1.9	5.0 5.0	5
17-Aug-07	Rainy	Calm	10:59	Middle	0.08	27.5 27.5	27.5	8.1 8.1	8.1	0.03 0.03	0.03	97.7 97.5	97.6	8.7 8.7	8.7	2.1 2.1	2.1	18.0 17.0	17.5
20-Aug-07	Cloudy	Calm	10:23	Middle	0.08	27.5 27.6	27.6	8.0 8.0	8	0.03 0.03	0.03	89.7 89.4	89.6	8.2 8.2	8.2	1.7 1.7	1.7	5.0 5.0	5
22-Aug-07	Cloudy	Calm	12:15	Middle	0.08	27.4 27.5	27.5	7.9 7.9	7.9	0.03 0.03	0.03	93.7 93.4	93.6	8.4 8.4	8.4	1.8 1.8	1.8	4.0 4.0	4
24-Aug-07	Sunny	Calm	11:19	Middle	0.08	27.5 27.6	27.6	7.9 7.9	7.9	0.03 0.03	0.03	91.7 91.4	91.6	8.3 8.3	8.3	1.6 1.6	1.6	6.0 5.0	5.5
27-Aug-07	Sunny	Calm	13:04	Middle	0.08	27.9 27.9	27.9	7.9 7.8	7.9	0.03 0.03	0.03	93.6 93.4	93.5	8.5 8.5	8.5	1.7 1.7	1.7	5.0 5.0	5
29-Aug-07	Cloudy	Calm	15:11	Middle	0.08	27.9 27.9	27.9	7.8 7.8	7.8	0.03 0.03	0.03	92.6 92.4	92.5	8.4 8.4	8.4	1.9 1.9	1.9	5.0 5.0	5
31-Aug-07	Sunny	Calm	13:07	Middle	0.08	27.9 28.0	28	7.9 7.9	7.9	0.03 0.03	0.03	92.6 92.4	92.5	8.4 8.4	8.4	1.7 1.7	1.7	5.0 5.0	5

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
 ** Cancelled due to Thunderstorm Warning

Water Quality Monitoring Results at 27_R

Date	Weather Condition	Sea Condition*	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Aug-07	Sunny	Calm	11:00	Middle	0.13	27.9	27.9	7.8	7.8	0.02	0.02	96.9	96.8	8.8	8.8	2.0	2	5.0	5.5
						27.9		7.8		0.02		96.6		8.8		2.0		6.0	
3-Aug-07	Sunny	Calm	13:47	Middle	0.13	27.9	27.9	7.7	7.7	0.02	0.02	97.7	97.5	9.0	9	2.0	2.1	5.0	5.5
						27.9		7.7		0.02		97.2		8.9		2.1		6.0	
6-Aug-07	Fine	Calm	13:40	Middle	0.13	27.8	27.8	7.8	7.8	0.02	0.02	96.5	96.2	8.9	8.9	2.3	2.4	17.0	17
						27.8		7.8		0.02		95.9		8.9		2.4		17.0	
8-Aug-07	Rainy	Calm	11:15	Middle	0.13	27.7	27.7	7.8	7.8	0.03	0.03	94.9	94.7	8.8	8.8	1.9	2	7.0	6.5
						27.7		7.8		0.03		94.4		8.8		2.0		6.0	
10-Aug-07	Rainy	Calm	11:25	Middle	0.13	27.7	27.7	7.8	7.8	0.03	0.03	94.7	94.4	8.8	8.8	2.1	2.1	<2.5	<2.5
						27.7		7.8		0.03		94.1		8.8		2.0		4.0	
13-Aug-07	Cloudy	Calm	11:35	Middle	0.13	27.7	27.7	7.9	7.9	0.02	0.02	95.6	95.3	8.9	8.9	2.3	2.3	4.0	4
						27.7		7.9		0.02		95.0		8.8		2.2		4.0	
15-Aug-07	Cloudy	Calm	11:35	Middle	0.13	27.6	27.6	7.8	7.8	0.03	0.03	94.1	93.8	8.8	8.8	2.1	2.1	4.0	4.5
						27.6		7.8		0.03		93.5		8.7		2.1		5.0	
17-Aug-07	Rainy	Calm	10:44	Middle	0.13	27.5	27.5	8.0	8	0.03	0.03	99.1	98.9	8.8	8.8	2.3	2.3	17.0	17
						27.5		8.0		0.03		98.7		8.8		2.3		17.0	
20-Aug-07	Cloudy	Calm	10:09	Middle	0.13	27.5	27.5	8.0	8	0.03	0.03	89.8	89.8	8.2	8.2	1.9	1.9	6.0	5.5
						27.5		8.0		0.03		89.7		8.2		1.8		5.0	
22-Aug-07	Cloudy	Calm	12:00	Middle	0.13	27.4	27.4	7.9	7.9	0.03	0.03	94.4	94.3	8.5	8.5	2.0	2	4.0	4
						27.4		7.9		0.03		94.2		8.5		1.9		4.0	
24-Aug-07	Sunny	Calm	11:04	Middle	0.13	27.5	27.5	7.8	7.8	0.03	0.03	92.1	92	8.4	8.4	1.8	1.8	7.0	6.5
						27.5		7.8		0.03		91.9		8.3		1.7		6.0	
27-Aug-07	Sunny	Calm	12:50	Middle	0.13	27.8	27.8	7.9	7.9	0.03	0.03	95.4	95.2	8.7	8.7	1.9	2	5.0	5
						27.8		7.9		0.03		95.0		8.7		2.0		5.0	
29-Aug-07	Cloudy	Calm	14:56	Middle	0.13	27.9	27.9	7.8	7.8	0.03	0.03	93.7	93.6	8.5	8.5	2.1	2.2	5.0	5
						27.9		7.8		0.03		93.4		8.5		2.2		5.0	
31-Aug-07	Sunny	Calm	12:52	Middle	0.13	27.9	27.9	7.9	7.9	0.03	0.03	93.7	93.6	8.5	8.5	1.9	2	4.0	4
						27.9		7.9		0.03		93.4		8.5		2.0		4.0	

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
 ** Cancelled due to Thunderstorm Warning

Water Quality Monitoring Results at 40_I

Date	Weather Condition	Sea Condition*	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Aug-07	Sunny	Calm	10:23	Middle	0.09	28.2	28.2	7.7	7.7	0.04	0.04	95.8	95.7	8.4	8.4	1.8	1.8	6.0	6
						28.2		7.7		0.04		95.5		8.4		1.7		6.0	
3-Aug-07	Sunny	Calm	13:10	Middle	0.09	28.2	28.2	7.7	7.7	0.04	0.04	98.3	98.2	8.7	8.7	1.6	1.6	8.0	8
						28.2		7.7		0.04		98.1		8.7		1.6		8.0	
6-Aug-07	Fine	Calm	13:04	Middle	0.09	28.1	28.1	7.7	7.7	0.04	0.04	97.4	97.3	8.7	8.7	2.1	2.1	17.0	17
						28.1		7.7		0.04		97.2		8.7		2.1		17.0	
8-Aug-07	Rainy	Calm	10:38	Middle	0.09	28.1	28.1	7.8	7.8	0.04	0.04	97.8	97.7	8.8	8.8	1.8	1.8	5.0	4.5
						28.1		7.7		0.04		97.6		8.8		1.8		4.0	
10-Aug-07	Rainy	Calm	10:56	Middle	0.09	28.0	28	7.8	7.8	0.05	0.05	97.1	97	8.8	8.8	2.0	2	5.0	5
						28.0		7.8		0.05		96.9		8.8		2.0		5.0	
13-Aug-07	Cloudy	Calm	11:06	Middle	0.09	28.1	28.1	7.9	7.9	0.05	0.05	97.2	97.1	8.8	8.8	2.2	2.2	5.0	5
						28.1		7.9		0.05		97.0		8.7		2.2		5.0	
15-Aug-07	Cloudy	Calm	11:06	Middle	0.09	28.0	28	7.8	7.8	0.04	0.04	97.2	97.1	8.8	8.8	2.0	2	10.0	9.5
						28.0		7.8		0.04		96.9		8.8		2.0		9.0	
17-Aug-07	Rainy	Calm	10:16	Middle	0.09	27.9	27.9	7.9	7.9	0.05	0.05	98.3	98.2	8.8	8.8	2.2	2.2	17.0	17
						27.9		7.9		0.05		98.0		8.7		2.2		17.0	
20-Aug-07	Cloudy	Calm	9:40	Middle	0.09	27.9	27.9	7.9	7.9	0.05	0.05	93.8	93.7	8.5	8.5	1.9	1.9	4.0	4
						27.9		7.9		0.05		93.5		8.5		1.9		4.0	
22-Aug-07	Cloudy	Calm	11:31	Middle	0.09	27.8	27.8	7.9	7.9	0.05	0.05	96.0	95.9	8.6	8.6	1.9	2	4.0	4
						27.8		7.9		0.05		95.7		8.6		2.0		4.0	
24-Aug-07	Sunny	Calm	10:36	Middle	0.09	27.9	27.9	7.8	7.8	0.05	0.05	94.9	94.8	8.6	8.6	1.7	1.8	4.0	4
						27.9		7.8		0.05		94.6		8.5		1.8		4.0	
27-Aug-07	Sunny	Calm	12:13	Middle	0.09	28.1	28.1	7.8	7.8	0.04	0.04	96.7	96.6	8.7	8.7	1.7	1.7	6.0	6
						28.1		7.8		0.04		96.4		8.7		1.7		6.0	
29-Aug-07	Cloudy	Calm	14:19	Middle	0.09	28.1	28.1	7.8	7.8	0.04	0.04	95.8	95.7	8.6	8.6	1.9	1.9	5.0	5
						28.1		7.8		0.04		95.5		8.6		1.9		5.0	
31-Aug-07	Sunny	Calm	12:15	Middle	0.09	28.2	28.2	7.9	7.9	0.04	0.04	95.8	95.7	8.6	8.6	1.8	1.8	8.0	8
						28.2		7.9		0.04		95.5		8.6		1.8		8.0	

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
 ** Cancelled due to Thunderstorm Warning

Water Quality Monitoring Results at 40_R

Date	Weather Condition	Sea Condition*	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Aug-07	Sunny	Calm	10:18	Middle	0.2	28.2	28.2	7.8	7.8	0.04	0.04	96.6	96.6	8.6	8.6	1.6	1.6	6.0	6
						28.2		7.8		0.04		96.5		8.6		1.6		6.0	
3-Aug-07	Sunny	Calm	13:05	Middle	0.2	28.2	28.2	7.7	7.7	0.04	0.04	99.8	99.9	9.0	9	1.5	1.5	9.0	8.5
						28.2		7.7		0.04		99.9		9.0		1.5		8.0	
6-Aug-07	Fine	Calm	12:58	Middle	0.2	28.1	28.1	7.8	7.8	0.04	0.04	99.6	99.8	9.0	9	2.0	2.1	13.0	13
						28.1		7.8		0.04		99.9		9.0		2.1		13.0	
8-Aug-07	Rainy	Calm	10:33	Middle	0.2	28.1	28.1	7.8	7.8	0.04	0.04	99.9	100.1	9.1	9.1	1.9	1.9	8.0	8
						28.1		7.8		0.04		100.2		9.1		1.8		8.0	
10-Aug-07	Rainy	Calm	10:51	Middle	0.2	28.0	28	7.8	7.8	0.05	0.05	99.3	99.5	9.0	9.1	1.9	2	5.0	5
						28.0		7.8		0.05		99.6		9.1		2.0		5.0	
13-Aug-07	Cloudy	Calm	11:01	Middle	0.2	28.0	28	7.9	7.9	0.05	0.05	99.4	99.6	9.0	9	2.1	2.2	3.0	3.5
						28.0		7.9		0.05		99.7		9.0		2.2		4.0	
15-Aug-07	Cloudy	Calm	11:01	Middle	0.2	28.0	28	7.8	7.8	0.04	0.04	99.4	99.6	9.1	9.1	1.9	2	4.0	4.5
						28.0		7.8		0.04		99.7		9.1		2.0		5.0	
17-Aug-07	Rainy	Calm	10:10	Middle	0.2	27.9	27.9	8.0	8	0.05	0.05	99.8	99.8	8.9	8.9	2.1	2.2	17.0	17
						27.9		8.0		0.05		99.8		8.9		2.2		17.0	
20-Aug-07	Cloudy	Calm	9:35	Middle	0.2	27.9	27.9	7.9	7.9	0.05	0.05	95.0	94.9	8.6	8.6	1.9	1.9	5.0	5
						27.9		7.9		0.05		94.7		8.6		1.9		5.0	
22-Aug-07	Cloudy	Calm	11:26	Middle	0.2	27.8	27.8	7.9	7.9	0.05	0.05	97.4	97.3	8.8	8.8	2.0	2	3.0	3
						27.8		7.9		0.05		97.2		8.7		2.0		3.0	
24-Aug-07	Sunny	Calm	10:30	Middle	0.2	27.9	27.9	7.8	7.8	0.05	0.05	96.2	96.1	8.7	8.7	1.8	1.8	4.0	4
						27.9		7.8		0.05		95.9		8.7		1.8		4.0	
27-Aug-07	Sunny	Calm	12:08	Middle	0.2	28.1	28.1	7.9	7.9	0.04	0.04	98.5	98.5	8.9	8.9	1.7	1.7	5.0	5
						28.1		7.9		0.04		98.5		8.9		1.7		5.0	
29-Aug-07	Cloudy	Calm	14:14	Middle	0.2	28.1	28.1	7.8	7.8	0.04	0.04	97.3	97.3	8.8	8.8	1.9	1.9	5.0	5
						28.1		7.8		0.04		97.2		8.8		1.9		5.0	
31-Aug-07	Sunny	Calm	12:10	Middle	0.2	28.2	28.2	7.9	7.9	0.04	0.04	97.3	97.3	8.8	8.8	1.8	1.8	3.0	3.5
						28.2		7.9		0.04		97.2		8.8		1.8		4.0	

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
 ** Cancelled due to Thunderstorm Warning

Water Quality Monitoring Results at CSS_I

Date	Weather Condition	Sea Condition*	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Aug-07	Sunny	Calm	10:32	Middle	0.19	28.0	28	7.8	7.8	0.03	0.03	95.2	95.2	8.4	8.4	1.8	1.8	7.0	7
						28.0		7.8		0.03		95.2		8.4		1.8		7.0	
3-Aug-07	Sunny	Calm	13:19	Middle	0.19	28.0	28	7.7	7.7	0.04	0.04	97.4	97.5	8.7	8.7	1.8	1.8	7.0	7
						28.0		7.7		0.04		97.6		8.7		1.7		7.0	
6-Aug-07	Fine	Calm	13:12	Middle	0.19	27.9	27.9	7.8	7.8	0.03	0.03	96.9	97.2	8.8	8.8	2.3	2.3	18.0	18
						27.9		7.8		0.03		97.5		8.8		2.2		18.0	
8-Aug-07	Rainy	Calm	10:47	Middle	0.19	27.9	27.9	7.8	7.8	0.03	0.03	96.9	97.2	8.9	8.9	2.0	2	15.0	15
						27.9		7.8		0.03		97.4		8.9		2.0		15.0	
10-Aug-07	Rainy	Calm	11:05	Middle	0.19	27.8	27.8	7.8	7.8	0.03	0.03	96.4	96.7	8.8	8.9	2.0	2	5.0	5
						27.8		7.8		0.03		96.9		8.9		1.9		5.0	
13-Aug-07	Cloudy	Calm	11:15	Middle	0.19	27.9	27.9	7.9	7.9	0.03	0.03	96.6	96.9	8.8	8.8	2.2	2.2	4.0	4
						27.9		7.9		0.03		97.2		8.8		2.1		4.0	
15-Aug-07	Cloudy	Calm	11:15	Middle	0.19	27.8	27.8	7.9	7.9	0.03	0.03	96.5	96.8	8.8	8.9	2.1	2.1	5.0	5
						27.8		7.9		0.03		97.0		8.9		2.1		5.0	
17-Aug-07	Rainy	Calm	10:24	Middle	0.19	27.7	27.7	8.0	8	0.05	0.05	97.6	97.6	8.8	8.8	2.2	2.3	16.0	16.5
						27.7		8.0		0.05		97.6		8.8		2.3		17.0	
20-Aug-07	Cloudy	Calm	9:49	Middle	0.19	27.7	27.7	8.0	8	0.03	0.03	92.3	92.3	8.4	8.4	1.9	1.9	5.0	5
						27.7		8.0		0.03		92.2		8.4		1.9		5.0	
22-Aug-07	Cloudy	Calm	11:40	Middle	0.19	27.6	27.6	7.9	7.9	0.04	0.04	94.9	94.9	8.6	8.6	2.0	2	3.0	3
						27.6		7.9		0.04		94.9		8.6		2.0		3.0	
24-Aug-07	Sunny	Calm	10:44	Middle	0.19	27.7	27.7	7.8	7.8	0.03	0.03	93.6	93.6	8.5	8.5	1.8	1.8	5.0	5
						27.7		7.8		0.03		93.5		8.5		1.8		5.0	
27-Aug-07	Sunny	Calm	12:22	Middle	0.19	27.9	28	7.9	7.9	0.03	0.03	95.9	96.1	8.7	8.7	1.9	1.9	5.0	5
						28.0		7.9		0.03		96.2		8.7		1.8		5.0	
29-Aug-07	Cloudy	Calm	14:28	Middle	0.19	28.0	28	7.8	7.8	0.03	0.03	94.7	94.8	8.6	8.6	2.1	2.1	6.0	6
						28.0		7.8		0.03		94.8		8.6		2.0		6.0	
31-Aug-07	Sunny	Calm	12:24	Middle	0.19	28.0	28	7.9	7.9	0.03	0.03	94.7	94.8	8.6	8.6	1.9	1.9	4.0	4
						28.0		7.9		0.03		94.8		8.6		1.9		4.0	

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
 ** Cancelled due to Thunderstorm Warning

Water Quality Monitoring Results at TCB_I

Date	Weather Condition	Sea Condition*	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Aug-07	Sunny	Calm	12:50	Middle	0.35	28.2	28.2	7.5	7.5	12.03	12.04	94.9	94.8	8.2	8.2	4.4	4.4	11.0	11
						28.2		7.5		12.04		94.7		8.2		4.3		11.0	
3-Aug-07	Sunny	Calm	15:39	Middle	0.35	28.2	28.2	7.5	7.5	13.36	13.37	99.7	99.6	8.6	8.6	4.3	4.3	69.0	68.5
						28.2		7.5		13.38		99.5		8.6		4.3		68.0	
6-Aug-07	Fine	Calm	15:32	Middle	0.35	28.1	28.1	7.5	7.5	11.84	11.85	101.0	100.9	8.7	8.7	5.3	5.3	6.0	6
						28.1		7.5		11.86		100.7		5.3		6.0			
8-Aug-07	Rainy	Calm	13:07	Middle	0.35	28.1	28.1	7.5	7.5	11.49	11.5	99.1	99	8.6	8.6	5.2	5.3	9.0	9.5
						28.1		7.5		11.51		98.8		5.3		10.0			
10-Aug-07	Rainy	Calm	13:17	Middle	0.35	28.1	28.1	7.5	7.5	12.26	12.27	98.0	97.8	8.5	8.5	6.6	6.6	25.0	25
						28.1		7.5		12.28		97.6		6.6		25.0			
13-Aug-07	Cloudy	Calm	13:26	Middle	0.35	28.1	28.1	7.6	7.6	12.05	12.06	99.5	99.3	8.6	8.6	6.8	6.8	38.0	38
						28.1		7.6		12.07		99.1		6.8		38.0			
15-Aug-07	Cloudy	Calm	13:26	Middle	0.35	28.0	28	7.5	7.5	11.92	11.93	98.6	98.5	8.6	8.6	6.0	6	5.0	5
						28.0		7.5		11.94		98.3		6.0		5.0			
17-Aug-07	Rainy	Calm	12:36	Middle	0.35	27.9	27.9	7.3	7.3	9.42	9.43	92.0	92	7.8	7.8	5.2	5.2	43.0	43
						27.9		7.3		9.43		91.9		5.2		43.0			
20-Aug-07	Cloudy	Calm	12:00	Middle	0.35	28.0	28	7.6	7.6	8.42	8.42	86.8	86.8	7.6	7.6	3.5	3.5	8.0	8
						28.0		7.6		8.42		86.8		3.5		8.0			
22-Aug-07	Cloudy	Calm	13:52	Middle	0.35	27.9	27.9	7.5	7.6	8.92	8.92	89.4	89.4	7.7	7.7	3.7	3.7	3.0	3
						27.9		7.6		8.92		89.3		3.7		3.0			
24-Aug-07	Sunny	Calm	12:56	Middle	0.35	28.0	28	7.5	7.5	8.67	8.67	88.1	88.1	7.7	7.7	3.4	3.5	4.0	4
						28.0		7.5		8.66		88.0		3.5		4.0			
27-Aug-07	Sunny	Calm	14:42	Middle	0.35	28.1	28.1	7.5	7.6	10.38	10.39	95.2	95.1	8.2	8.2	4.9	4.9	5.0	5
						28.1		7.6		10.39		95.0		4.9		5.0			
29-Aug-07	Cloudy	Calm	16:48	Middle	0.35	28.2	28.2	7.5	7.5	9.52	9.52	91.6	91.6	7.9	7.9	5.1	5.1	5.0	5
						28.2		7.5		9.52		91.5		7.9		5.1		5.0	
31-Aug-07	Sunny	Calm	14:44	Middle	0.35	28.2	28.2	7.6	7.6	9.52	9.52	91.6	91.6	7.9	7.9	5.1	5.1	4.0	4
						28.2		7.6		9.52		91.5		7.9		5.1		4.0	

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
 ** Cancelled due to Thunderstorm Warning

Water Quality Monitoring Results at TCB_R

Date	Weather Condition	Sea Condition*	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Aug-07	Sunny	Calm	12:45	Middle	0.2	28.2 28.3	28.3	7.4 7.4	7.4	24.26 24.31	24.29	97.2 97.1	97.2	8.2 8.2	8.2	8.1 8.1	8.1	20.0 20.0	20
3-Aug-07	Sunny	Calm	15:34	Middle	0.2	28.2 28.3	28.3	7.2 7.3	7.3	22.72 22.77	22.75	98.4 98.2	98.3	8.4 8.4	8.4	7.6 7.5	7.6	54.0 55.0	54.5
6-Aug-07	Fine	Calm	15:27	Middle	0.2	28.2 28.2	28.2	7.3 7.3	7.3	18.76 18.79	18.78	98.7 98.4	98.6	8.5 8.5	8.5	7.9 7.8	7.9	13.0 13.0	13
8-Aug-07	Rainy	Calm	13:02	Middle	0.2	28.1 28.1	28.1	7.4 7.4	7.4	19.79 19.82	19.81	96.7 96.4	96.6	8.4 8.4	8.4	7.7 7.6	7.7	10.0 10.0	10
10-Aug-07	Rainy	Calm	13:12	Middle	0.2	28.1 28.1	28.1	7.4 7.4	7.4	17.22 17.25	17.24	97.5 97.2	97.4	8.4 8.4	8.4	9.7 9.6	9.7	40.0 40.0	40
13-Aug-07	Cloudy	Calm	13:21	Middle	0.2	28.1 28.1	28.1	7.5 7.5	7.5	17.99 18.02	18.01	98.1 97.8	98	8.5 8.4	8.5	9.9 9.8	9.9	41.0 40.0	40.5
15-Aug-07	Cloudy	Calm	13:21	Middle	0.2	28.0 28.0	28	7.4 7.4	7.4	17.54 17.56	17.55	97.0 96.6	96.8	8.4 8.4	8.4	8.2 8.1	8.2	7.0 7.0	7
17-Aug-07	Rainy	Calm	12:31	Middle	0.2	27.9 28.0	28	7.7 7.8	7.8	23.93 23.95	23.94	91.8 91.5	91.7	7.3 7.3	7.3	6.6 6.5	6.6	47.0 47.0	47
20-Aug-07	Cloudy	Calm	11:56	Middle	0.2	28.0 28.0	28	7.6 7.7	7.7	22.77 22.80	22.79	87.6 87.5	87.6	7.3 7.3	7.3	7.0 7.0	7	7.0 8.0	7.5
22-Aug-07	Cloudy	Calm	13:47	Middle	0.2	27.9 27.9	27.9	7.6 7.6	7.6	23.35 23.37	23.36	89.7 89.5	89.6	7.3 7.3	7.3	7.2 7.2	7.2	3.0 3.0	3
24-Aug-07	Sunny	Calm	12:51	Middle	0.2	28.0 28.0	28	7.5 7.5	7.5	23.06 23.08	23.07	88.6 88.5	88.6	7.3 7.3	7.3	7.7 7.7	7.7	5.0 4.0	4.5
27-Aug-07	Sunny	Calm	14:36	Middle	0.2	28.2 28.2	28.2	7.4 7.4	7.4	21.05 21.08	21.07	94.2 93.9	94.1	7.9 7.9	7.9	7.5 7.4	7.5	6.0 5.0	5.5
29-Aug-07	Cloudy	Calm	16:43	Middle	0.2	28.2 28.2	28.2	7.4 7.4	7.4	22.05 22.08	22.07	91.4 91.2	91.3	7.6 7.6	7.6	7.7 7.6	7.7	4.0 5.0	4.5
31-Aug-07	Sunny	Calm	14:39	Middle	0.2	28.3 28.3	28.3	7.5 7.5	7.5	22.05 22.08	22.07	91.4 91.2	91.3	7.6 7.6	7.6	8.7 8.6	8.7	5.0 5.0	5

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
 ** Cancelled due to Thunderstorm Warning

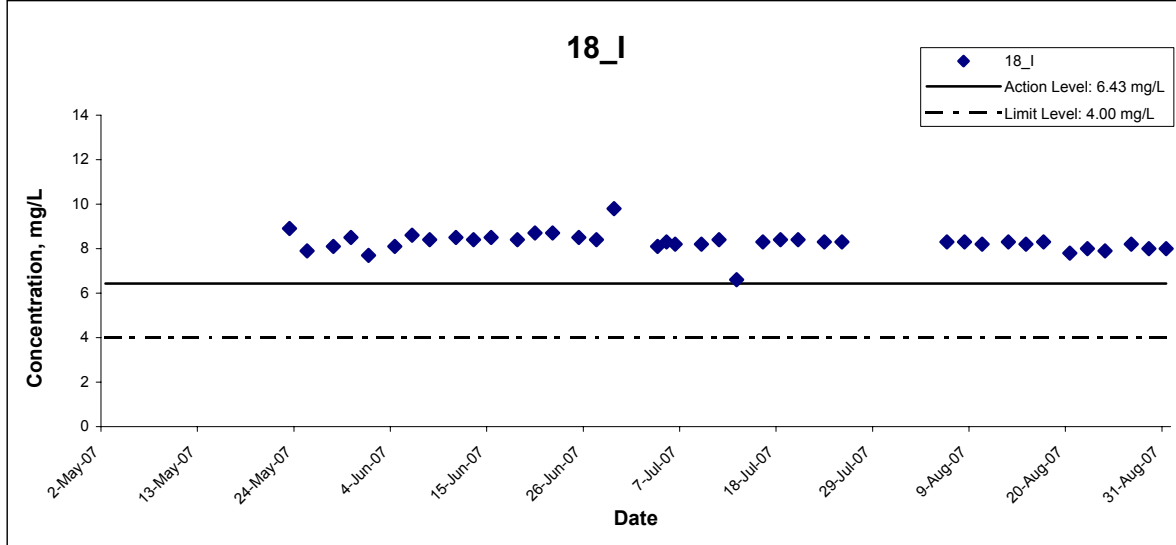
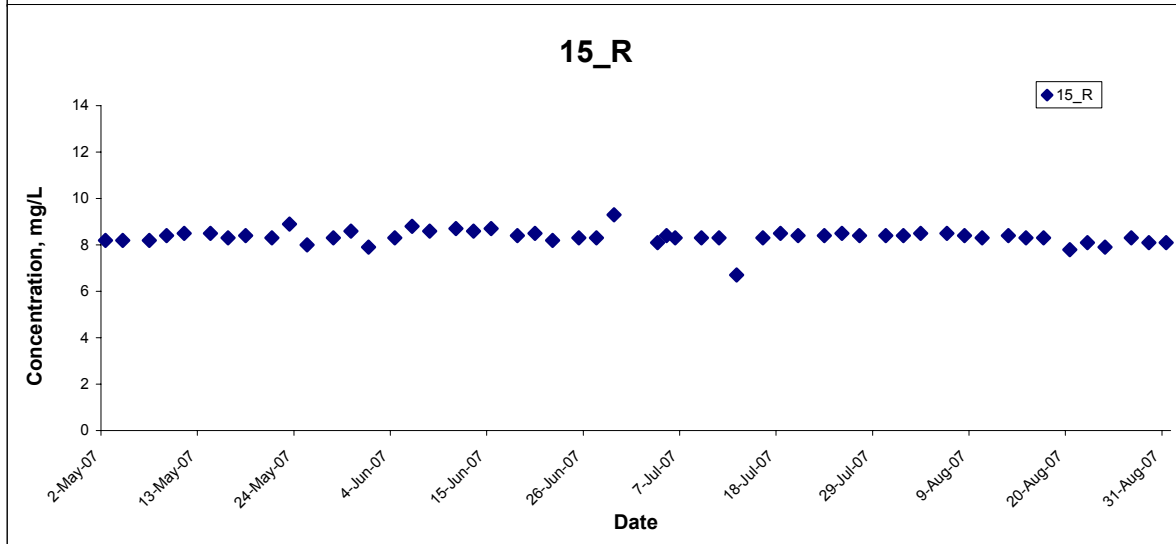
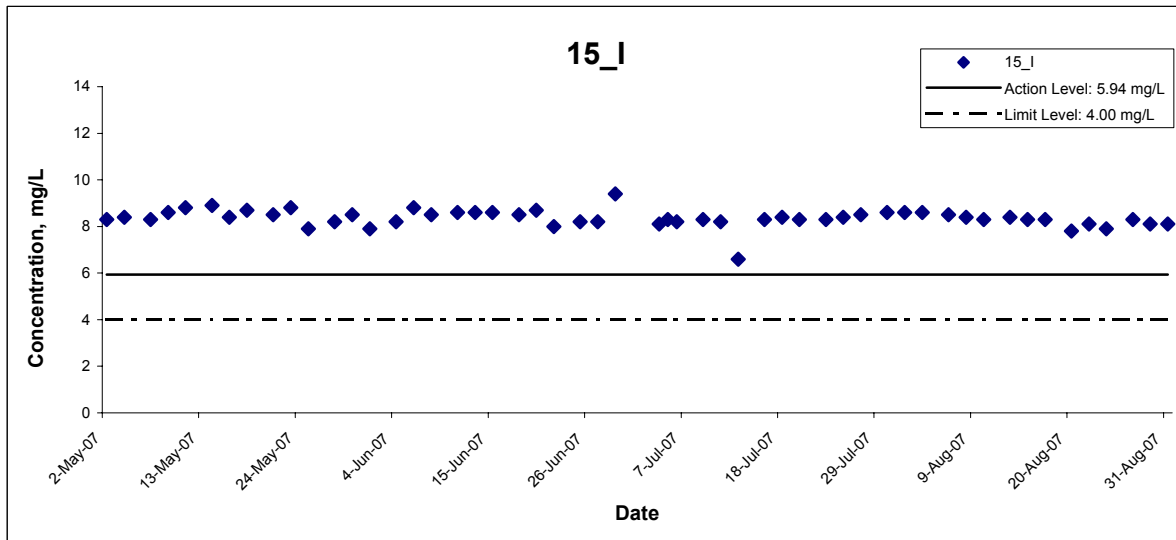
Water Quality Monitoring Results at TCS_I

Date	Weather Condition	Sea Condition*	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Aug-07	Sunny	Calm	12:26	Middle	0.2	27.9	27.9	7.5	7.5	0.03	0.03	95.6	95.3	8.5	8.5	1.6	1.6	6.0	6
						27.9		7.5		0.03		95.0		8.5		1.6		6.0	
3-Aug-07	Sunny	Calm	15:15	Middle	0.2	27.9	27.9	7.4	7.4	0.03	0.03	96.4	96.1	8.6	8.6	1.6	1.6	6.0	6
						27.9		7.4		0.03		95.8		8.6		1.6		6.0	
6-Aug-07	Fine	Calm	15:08	Middle	0.2	27.8	27.9	7.4	7.5	0.02	0.02	95.2	95	8.5	8.5	2.4	2.4	16.0	16
						27.9		7.5		0.02		94.7		8.5		2.4		16.0	
8-Aug-07	Rainy	Calm	12:43	Middle	0.2	27.8	27.8	7.5	7.5	0.02	0.02	92.9	92.7	8.3	8.3	2.0	2	11.0	10.5
						27.8		7.5		0.02		92.4		8.3		1.9		10.0	
10-Aug-07	Rainy	Calm	12:53	Middle	0.2	27.7	27.8	7.5	7.5	0.02	0.02	91.2	91	8.2	8.2	2.0	2	<2.5	<2.5
						27.8		7.5		0.02		90.7		8.2		2.0		<2.5	
13-Aug-07	Cloudy	Calm	13:02	Middle	0.2	27.8	27.8	7.6	7.6	0.02	0.02	93.2	93	8.4	8.4	2.2	2.2	6.0	6
						27.8		7.6		0.02		92.7		8.3		2.2		6.0	
15-Aug-07	Cloudy	Calm	13:02	Middle	0.2	27.7	27.7	7.5	7.5	0.02	0.02	91.8	91.6	8.3	8.3	2.0	2.1	4.0	4
						27.7		7.5		0.02		91.3		8.3		2.1		4.0	
17-Aug-07	Rainy	Calm	12:12	Middle	0.2	27.6	27.6	7.8	7.8	0.02	0.02	92.8	92.5	8.3	8.3	2.8	2.8	12.0	12
						27.6		7.8		0.02		92.1		8.2		2.8		12.0	
20-Aug-07	Cloudy	Calm	11:37	Middle	0.2	27.6	27.6	7.7	7.7	0.02	0.02	82.2	82.1	7.5	7.5	2.0	2	3.0	3
						27.6		7.7		0.02		81.9		7.5		2.0		3.0	
22-Aug-07	Cloudy	Calm	13:28	Middle	0.2	27.5	27.5	7.6	7.6	0.02	0.02	87.5	87.3	7.9	7.9	2.1	2.1	4.0	4
						27.5		7.6		0.02		87.0		7.9		2.1		4.0	
24-Aug-07	Sunny	Calm	12:32	Middle	0.2	27.6	27.6	7.6	7.6	0.02	0.02	84.8	84.6	7.7	7.7	1.9	1.9	4.0	4.5
						27.6		7.6		0.02		84.4		7.7		1.9		5.0	
27-Aug-07	Sunny	Calm	14:18	Middle	0.2	27.9	27.9	7.5	7.5	0.02	0.02	91.3	91.1	8.2	8.2	2.0	2	6.0	6
						27.9		7.5		0.02		90.8		8.2		2.0		6.0	
29-Aug-07	Cloudy	Calm	16:24	Middle	0.2	27.9	27.9	7.5	7.5	0.02	0.02	88.0	87.8	7.9	7.9	2.2	2.2	4.0	4
						27.9		7.5		0.02		87.6		7.9		2.2		4.0	
31-Aug-07	Sunny	Calm	14:20	Middle	0.2	27.9	28	7.6	7.6	0.02	0.02	88.0	87.8	7.9	7.9	2.0	2	3.0	3.5
						28.0		7.6		0.02		87.6		7.9		2.0		4.0	

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

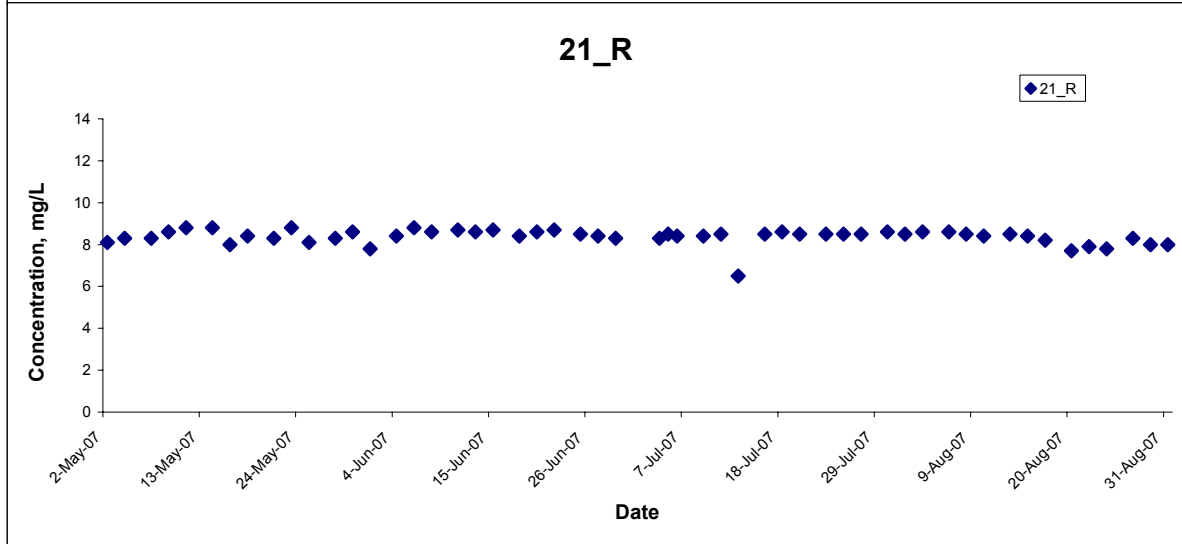
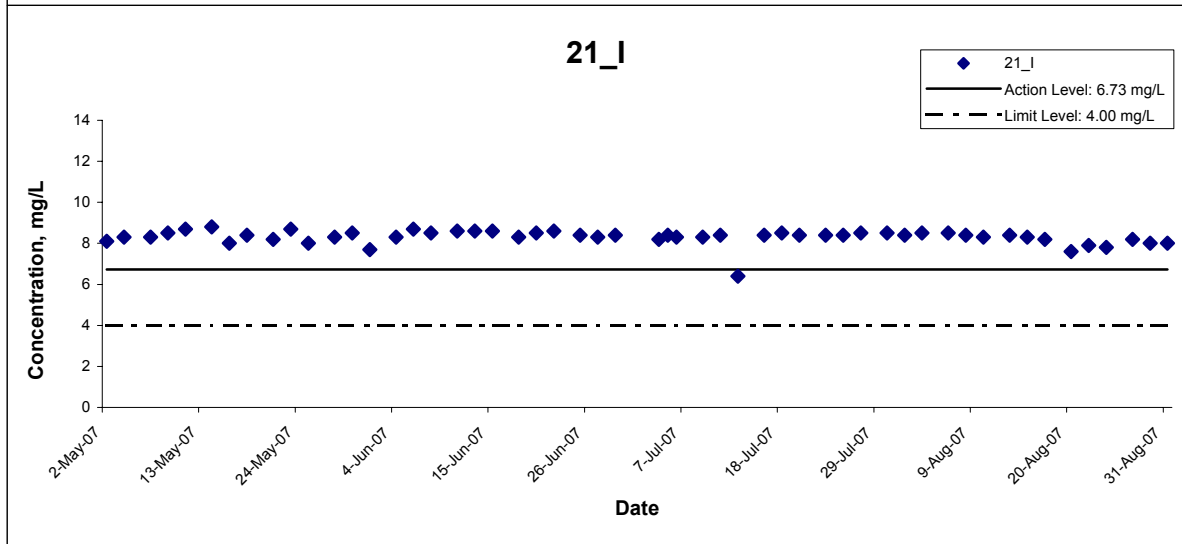
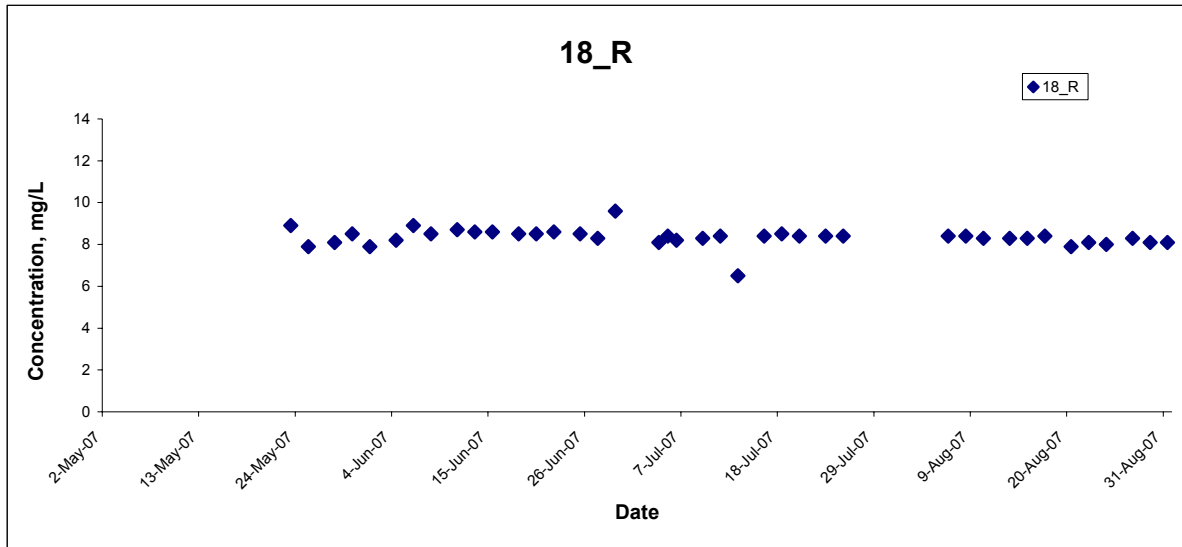
Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
 ** Cancelled due to Thunderstorm Warning

Dissolved Oxygen



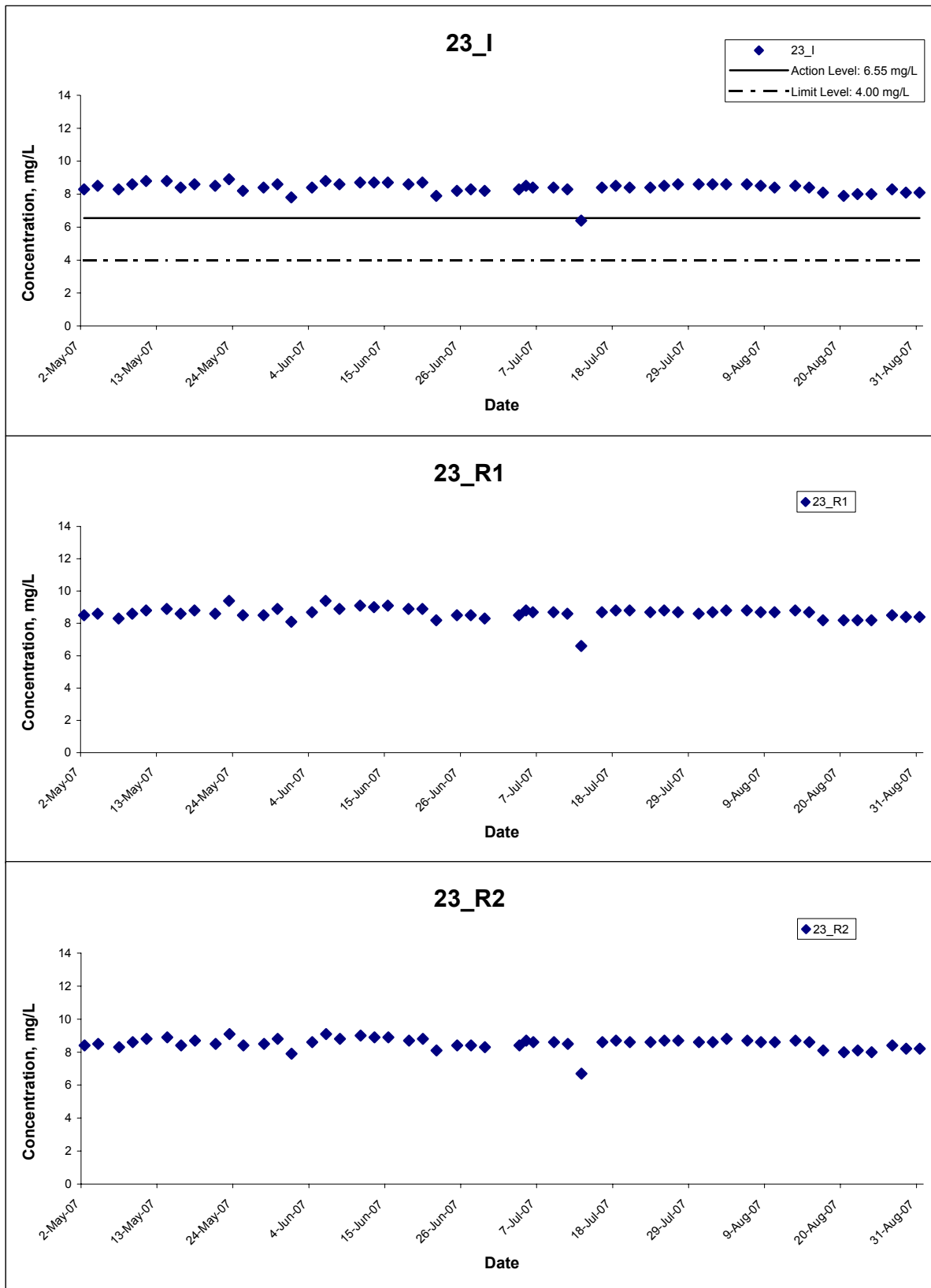
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale	N.T.S	Project No. MA6030	CINOTECH
	Date	Aug 07	Appendix F	

Dissolved Oxygen



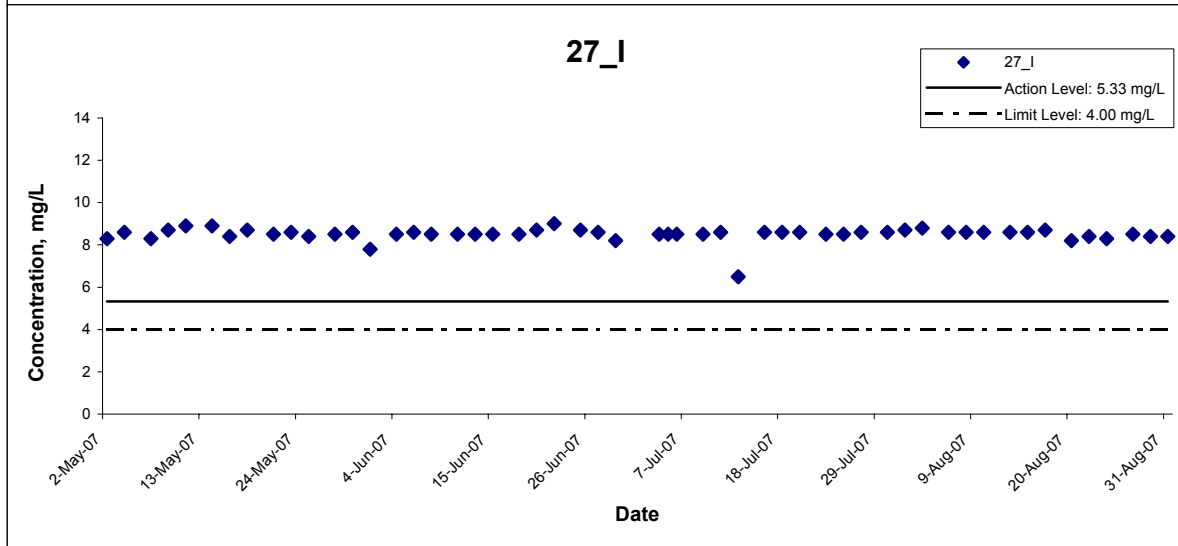
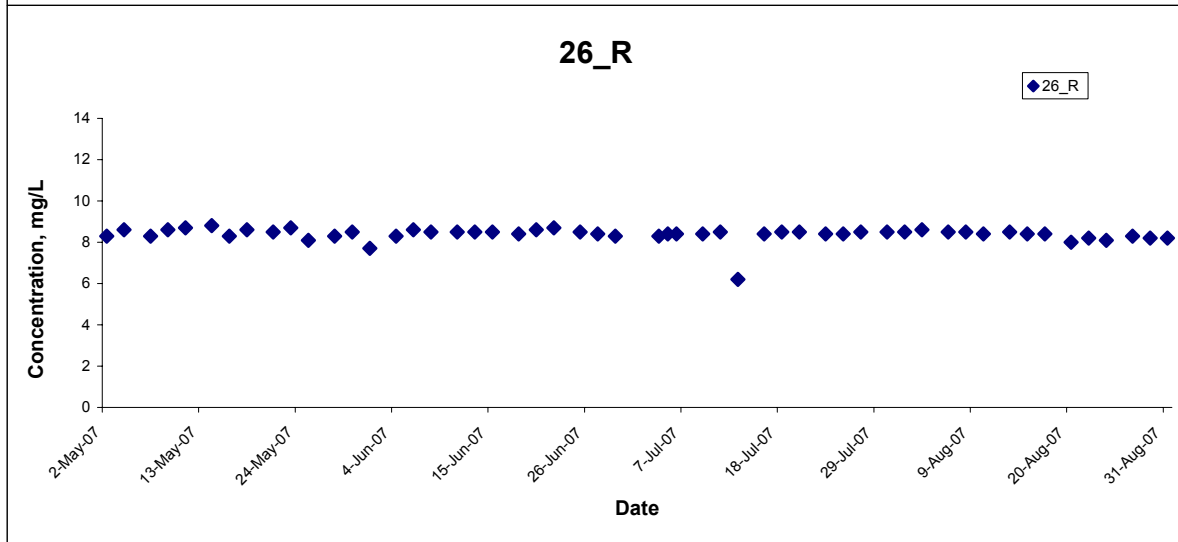
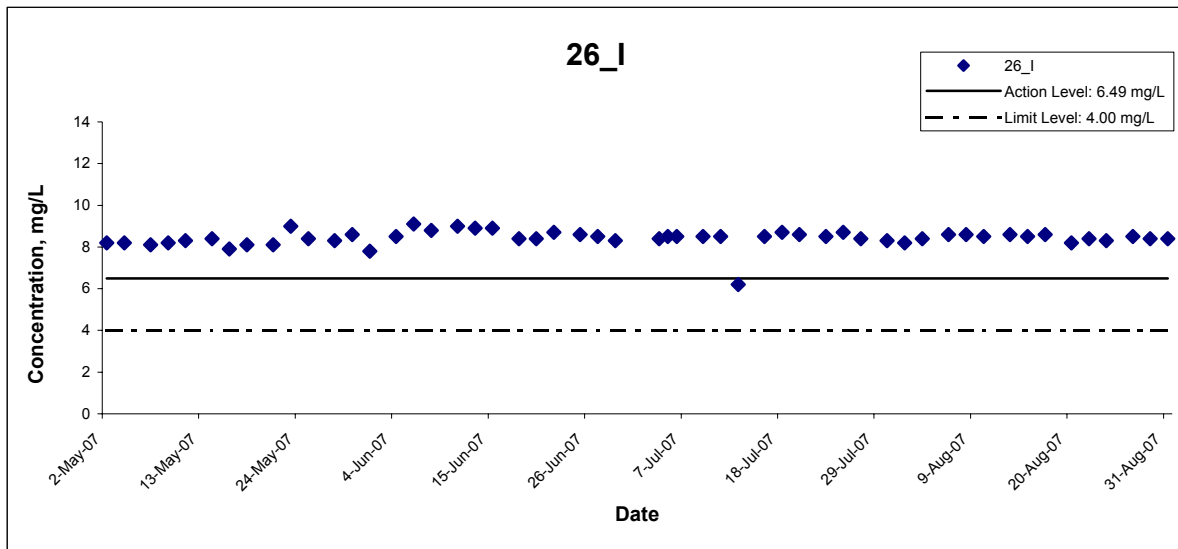
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	Date Aug 07	Appendix F	

Dissolved Oxygen



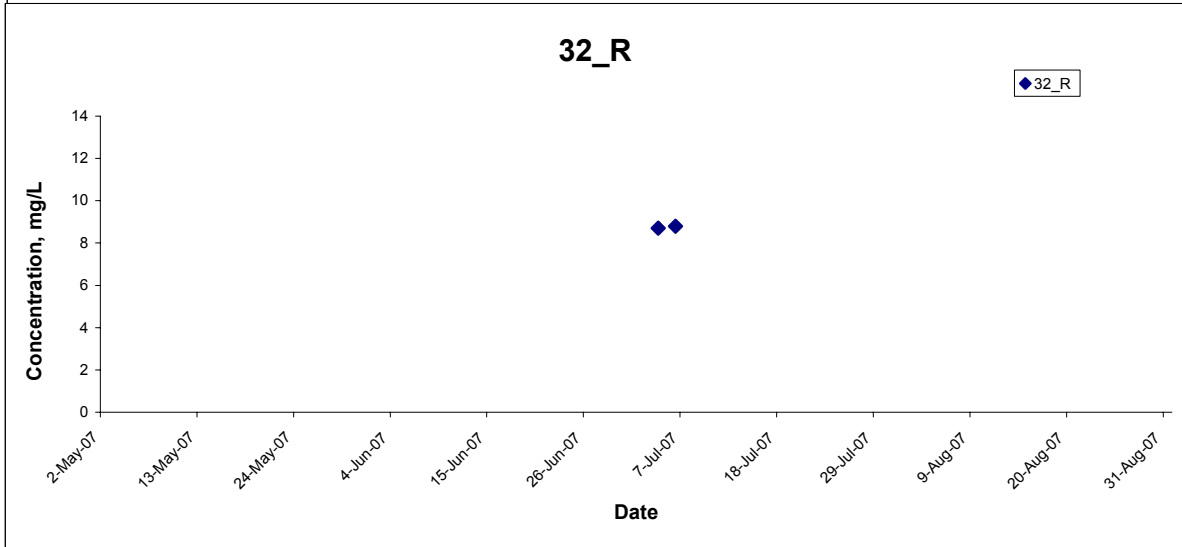
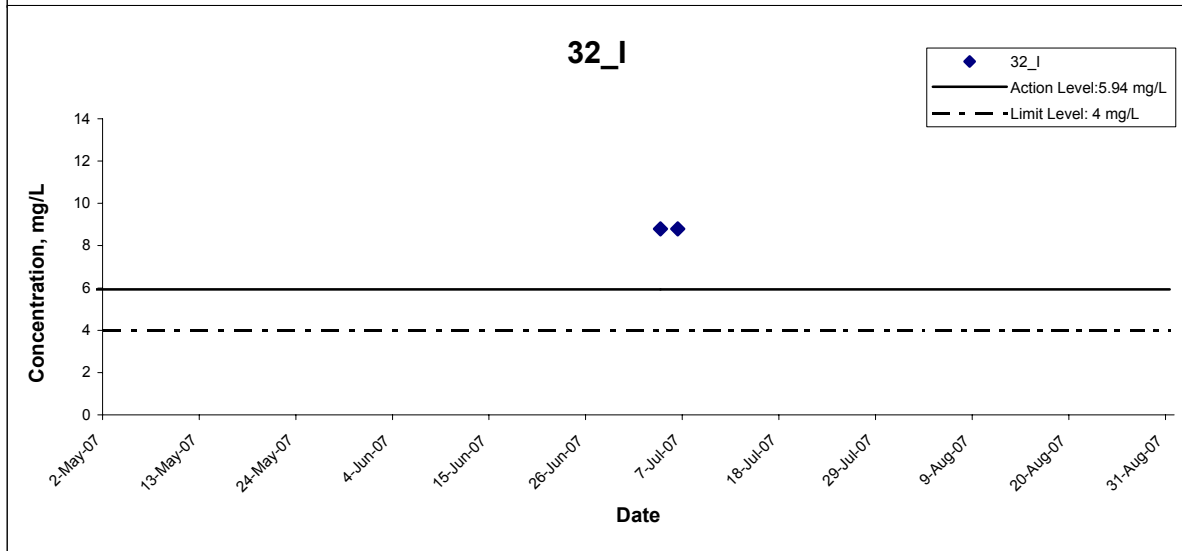
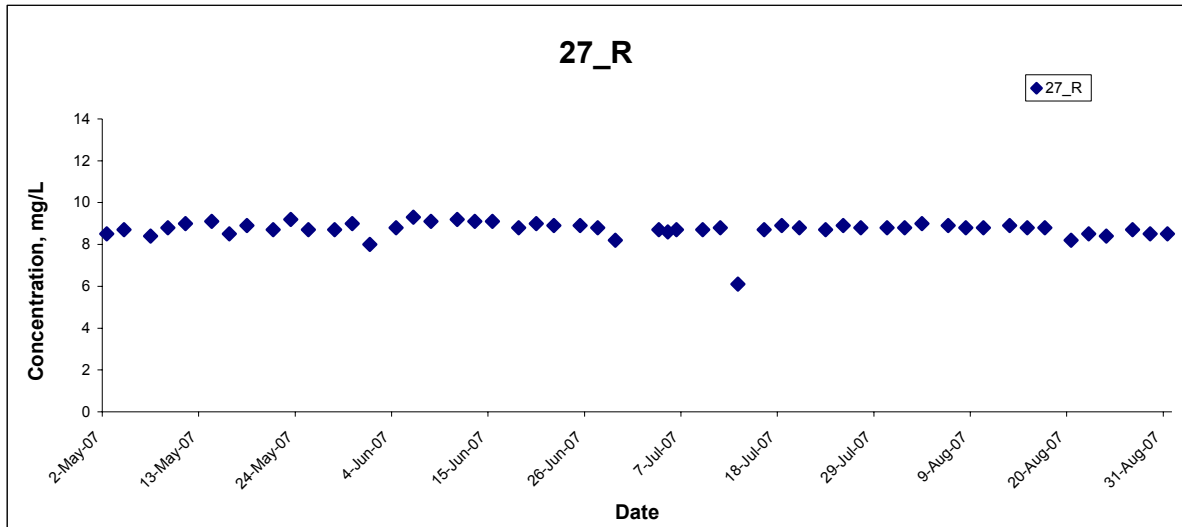
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	Date	Aug 07	Appendix F	

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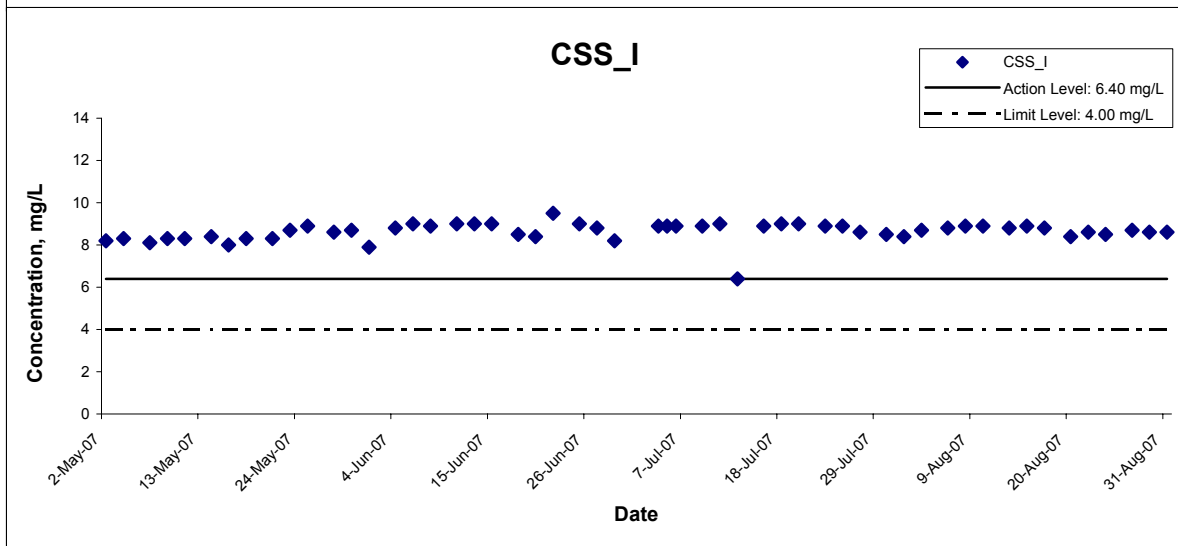
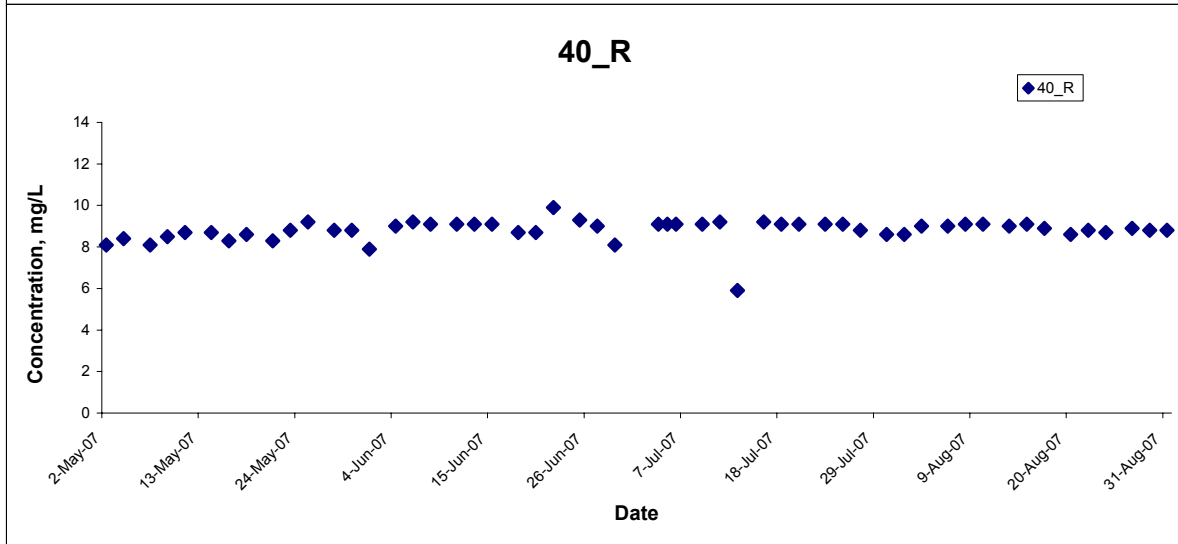
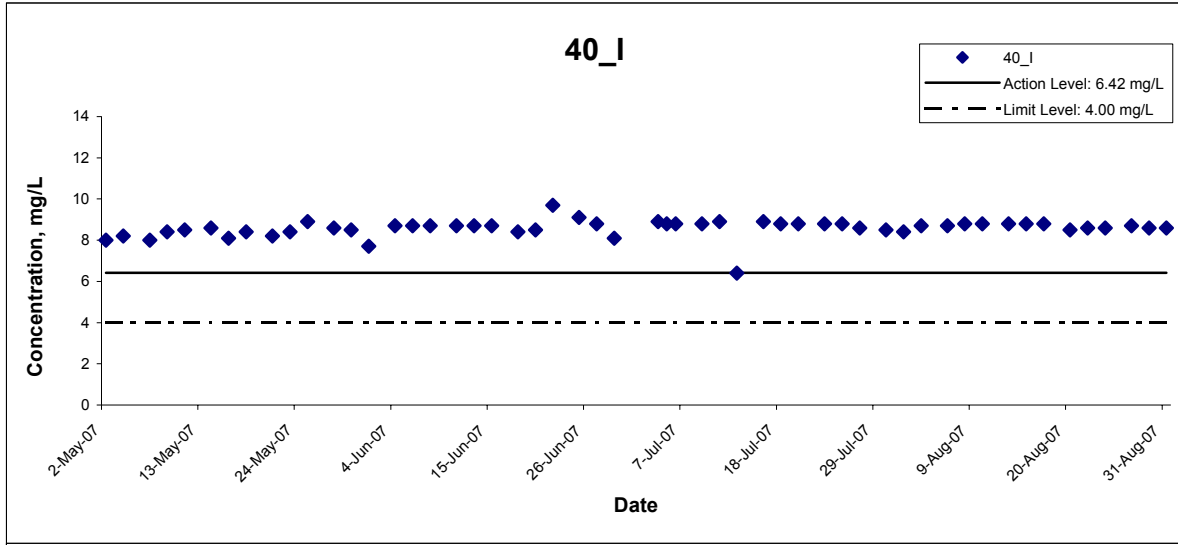
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	Date Aug 07	Appendix F	

Dissolved Oxygen



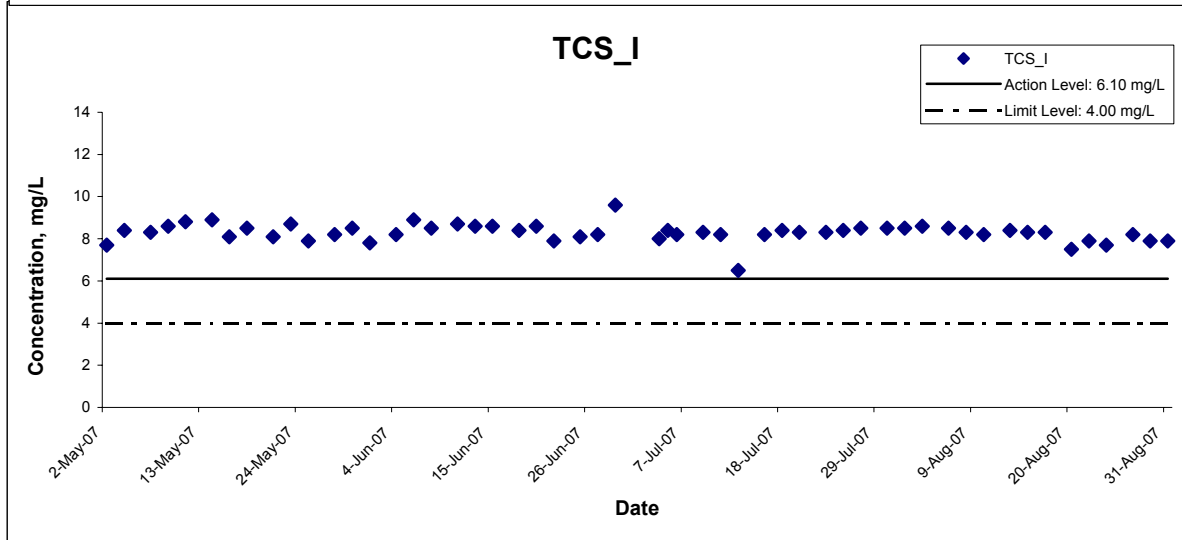
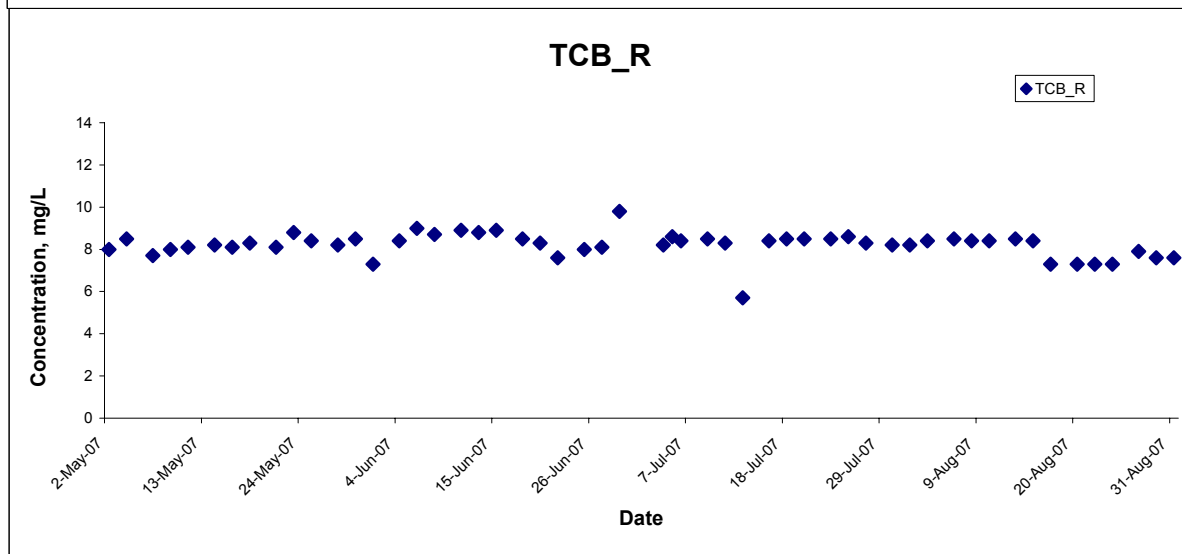
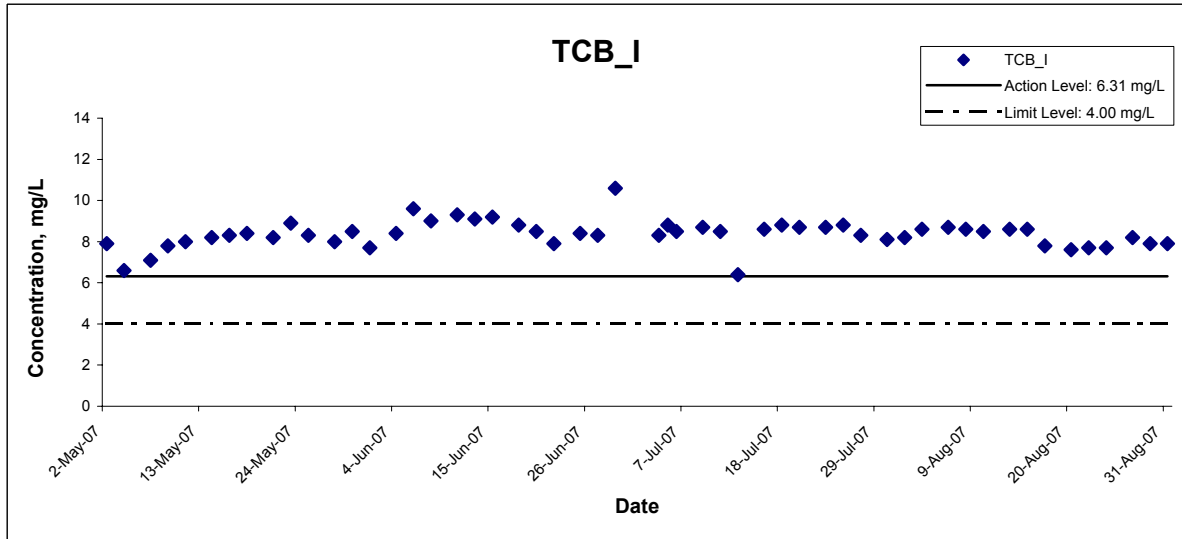
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Dissolved Oxygen



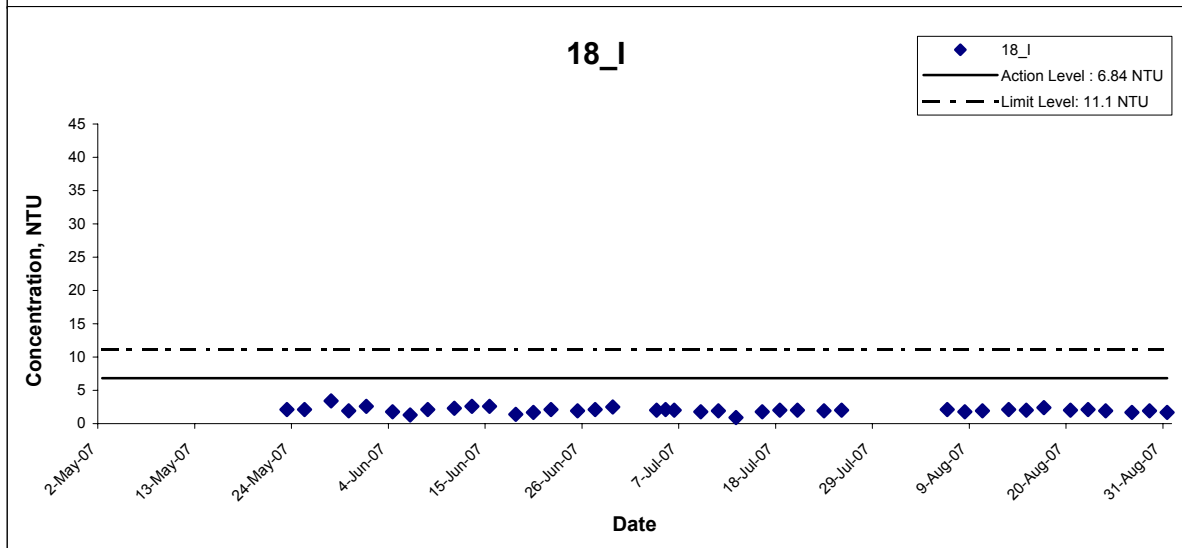
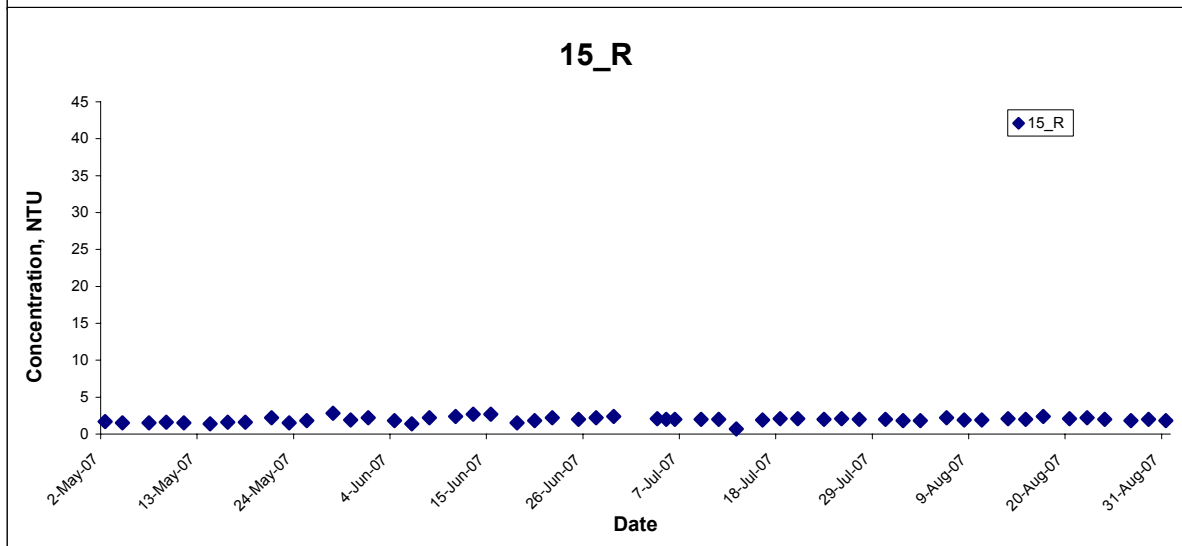
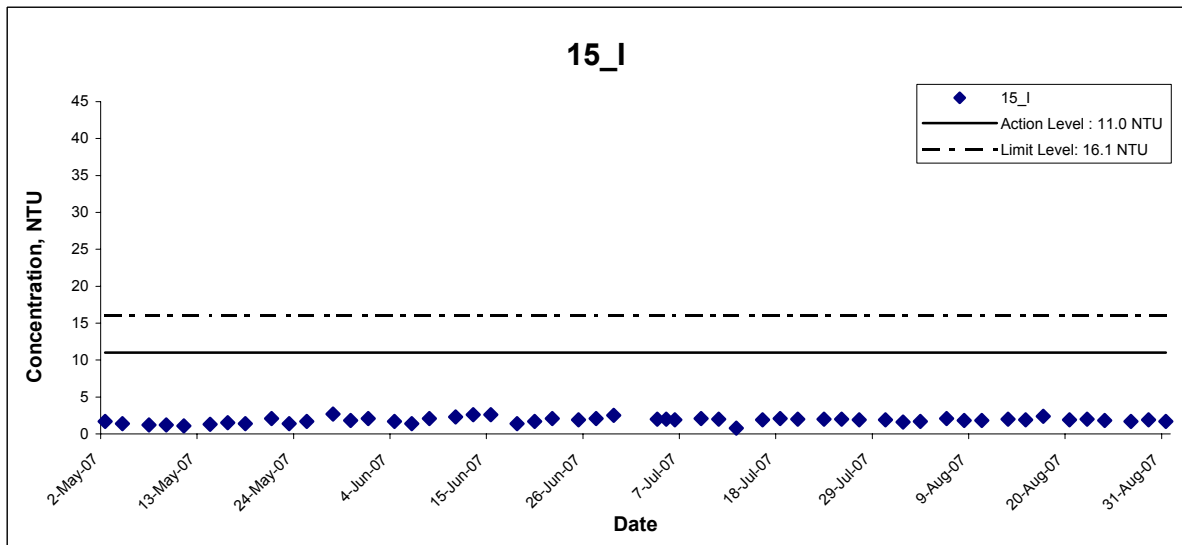
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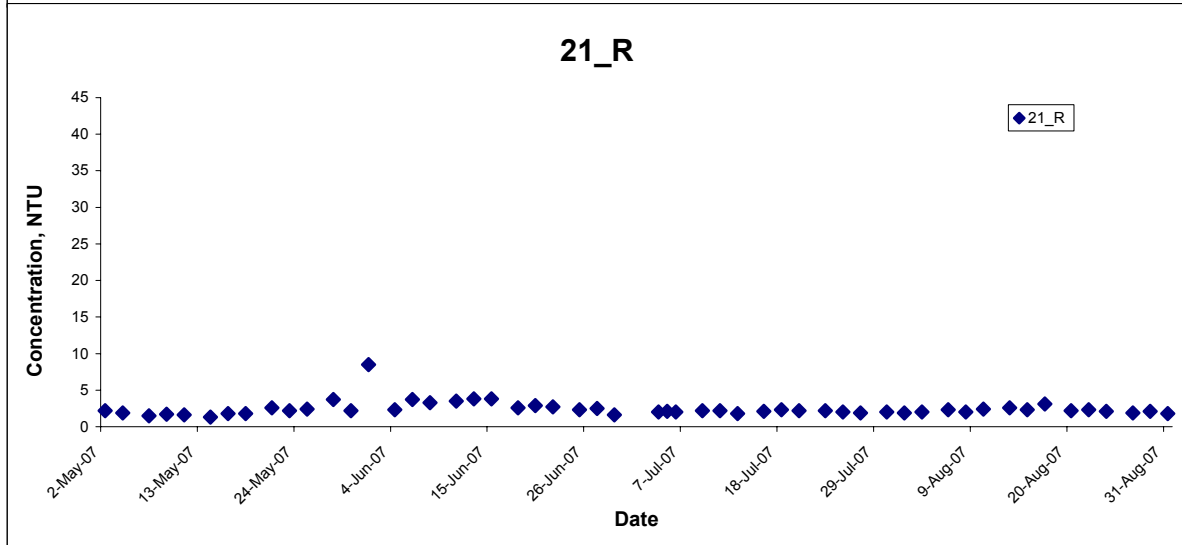
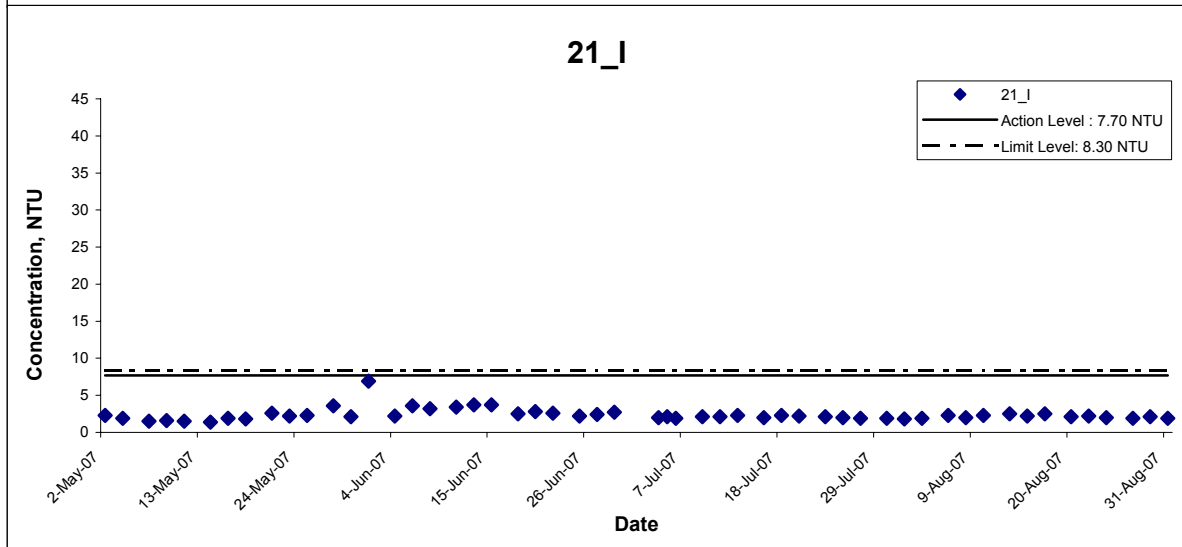
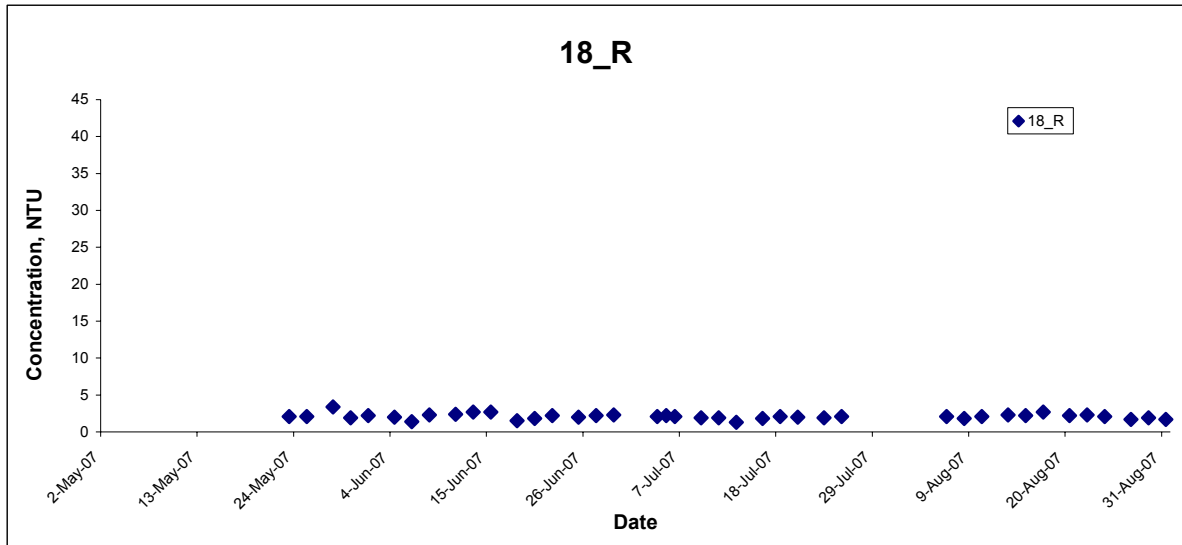
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	Date Aug 07	Appendix F	

Turbidity



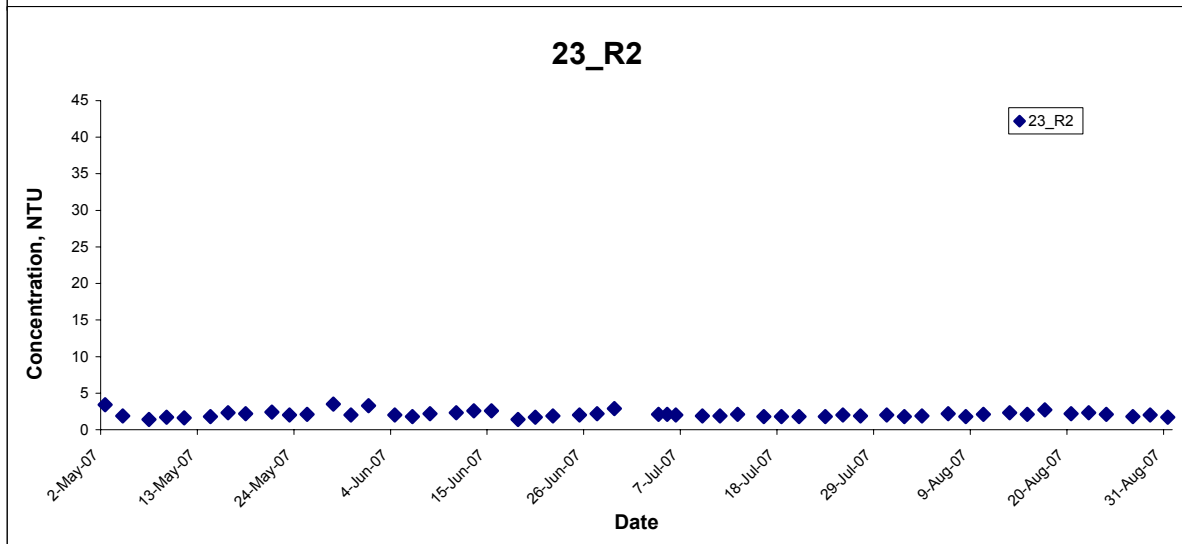
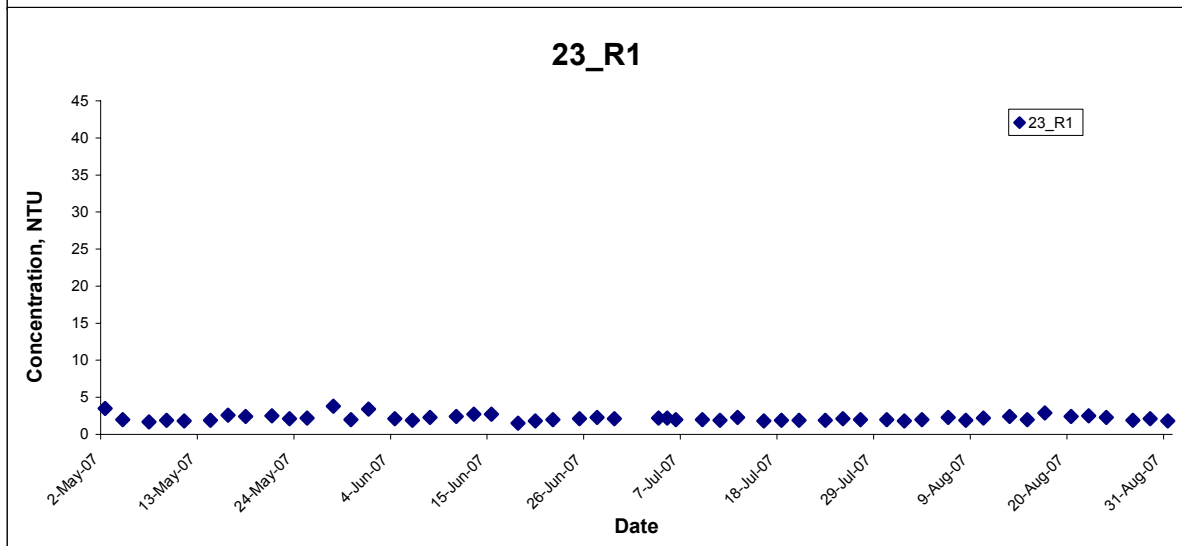
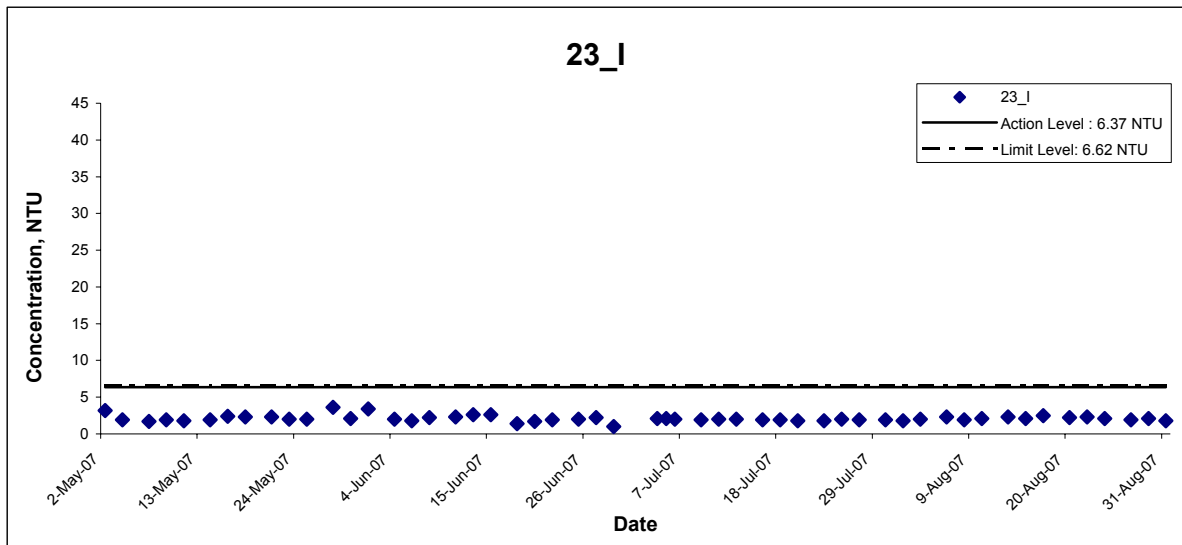
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	Date Aug 07	Appendix F	

Turbidity



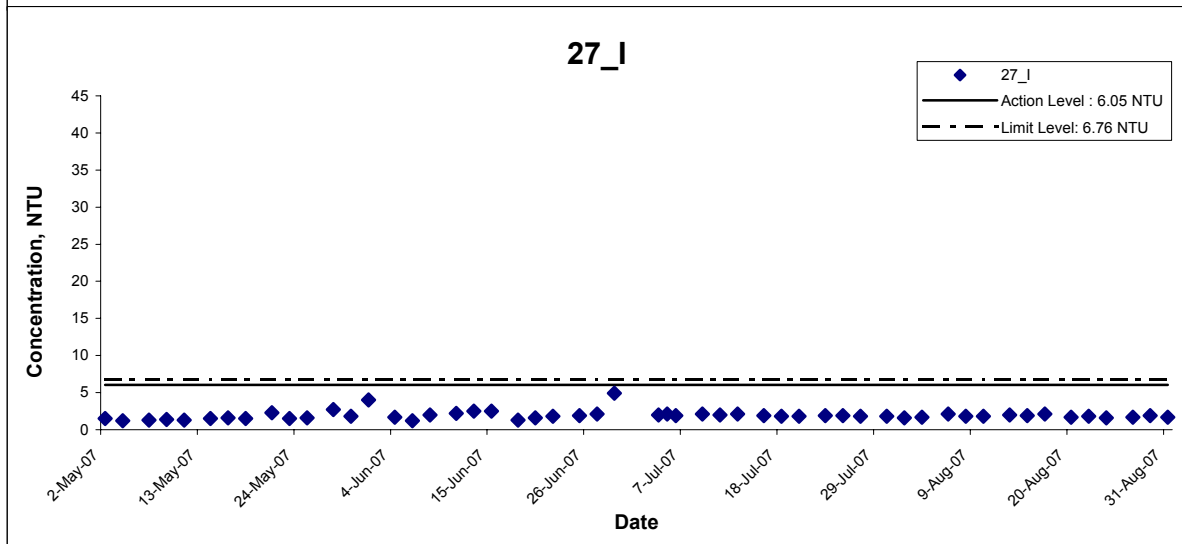
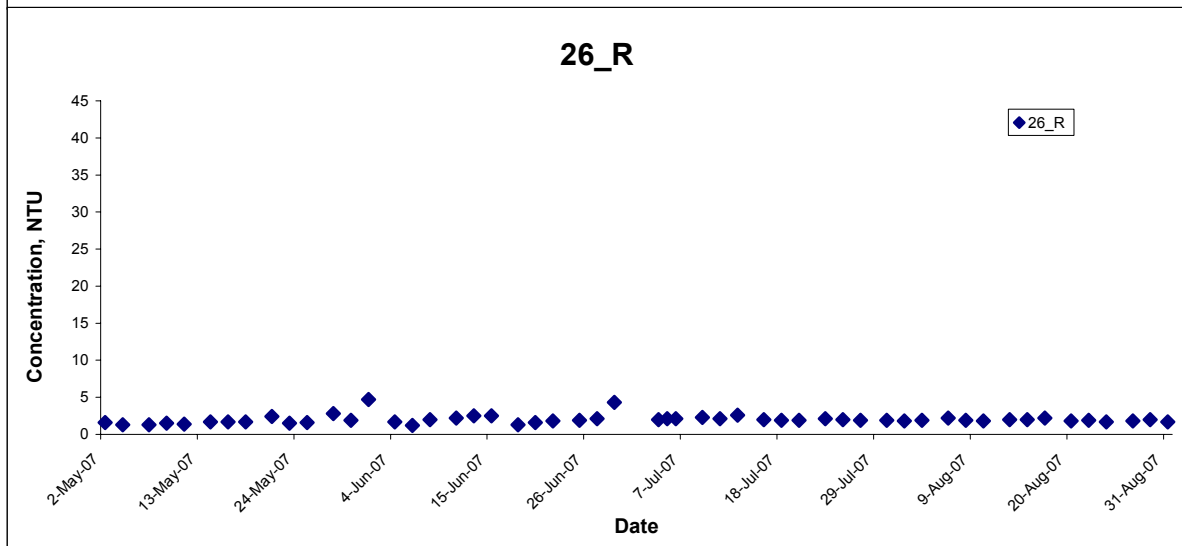
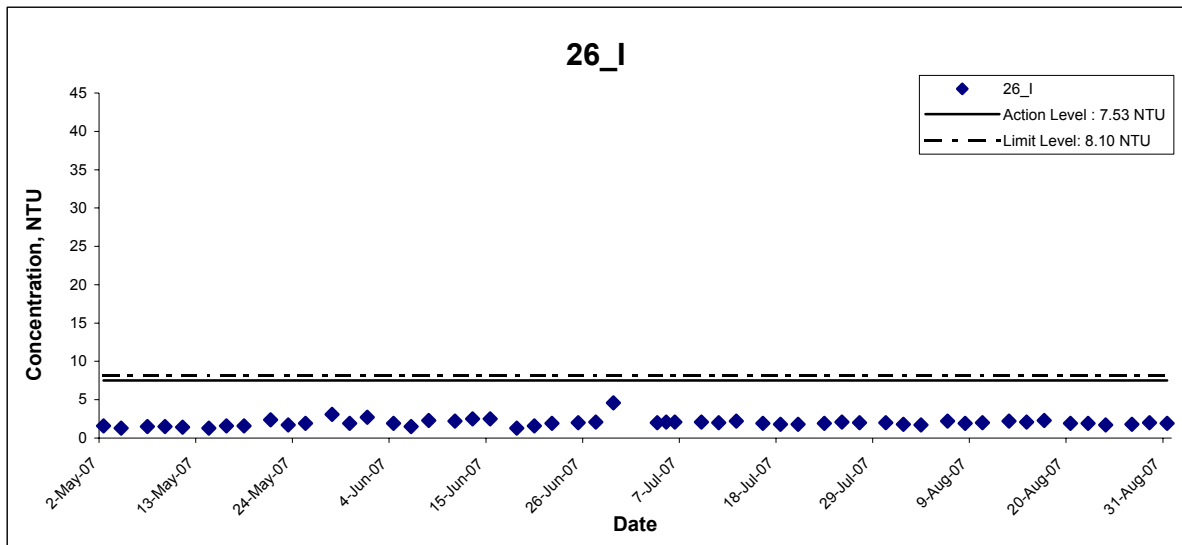
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	CINOTECH
	Date Aug 07	Appendix F	

Turbidity



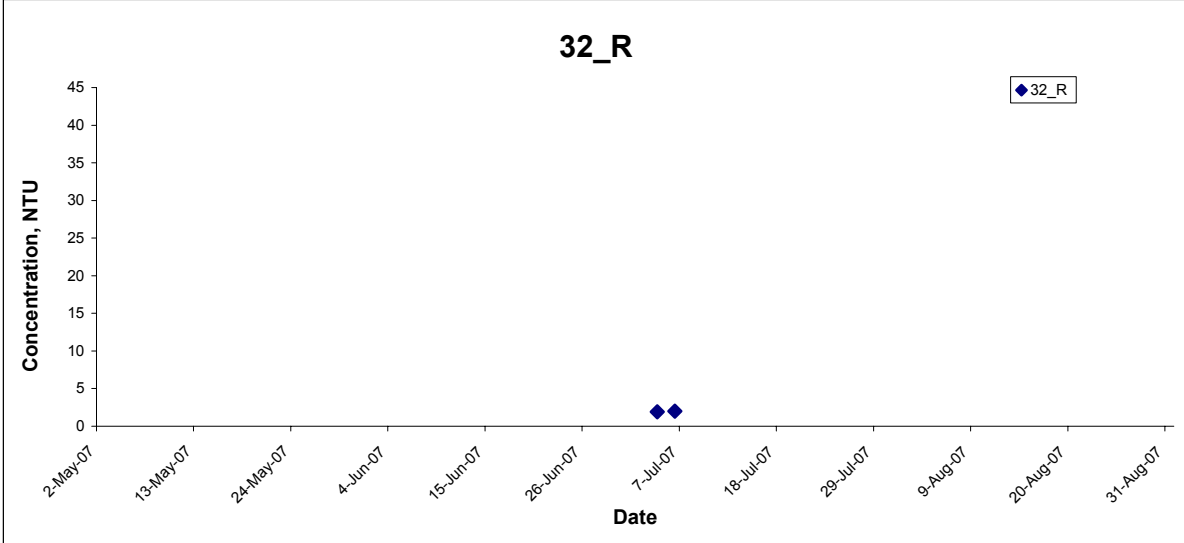
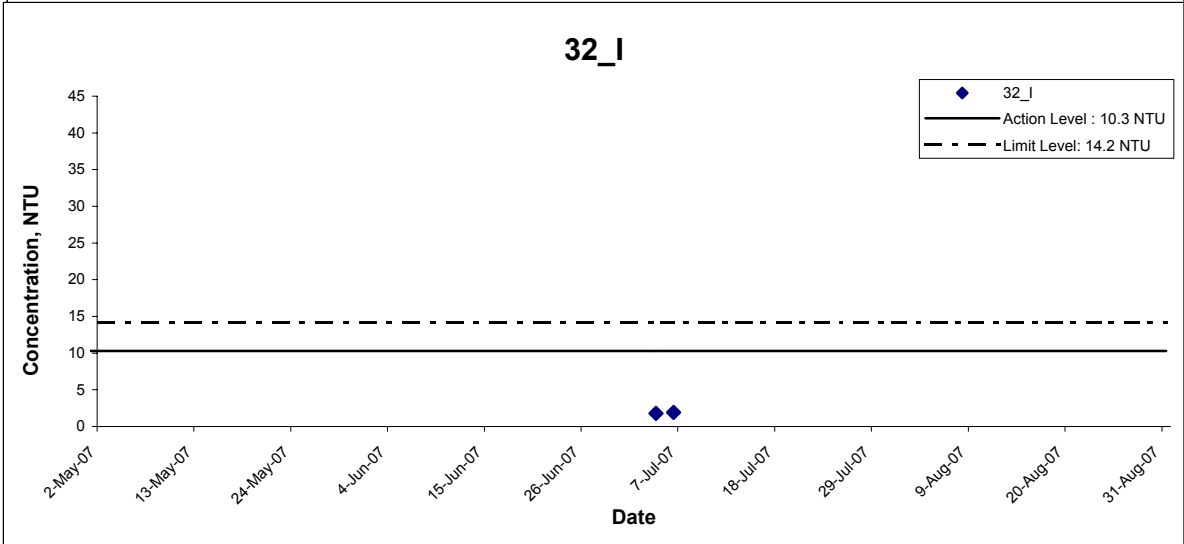
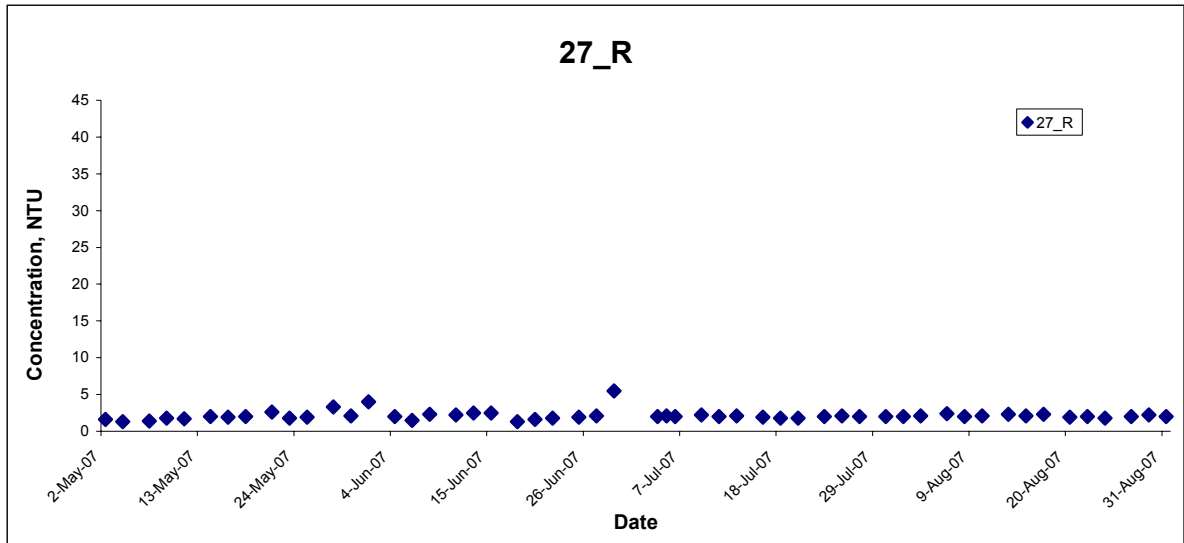
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	CINOTECH
	Date Aug 07	Appendix F	

Turbidity



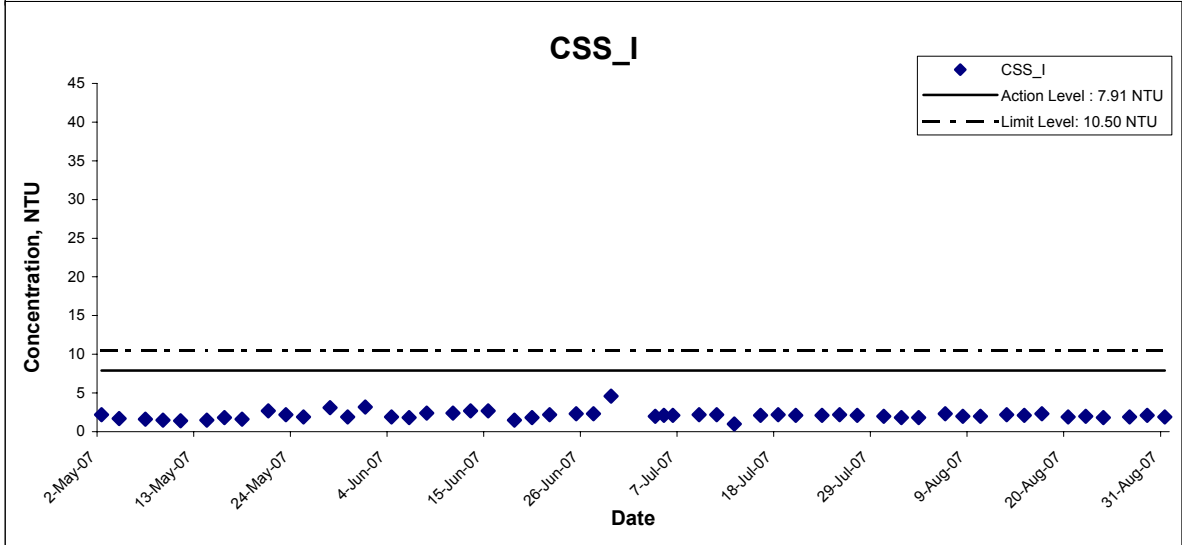
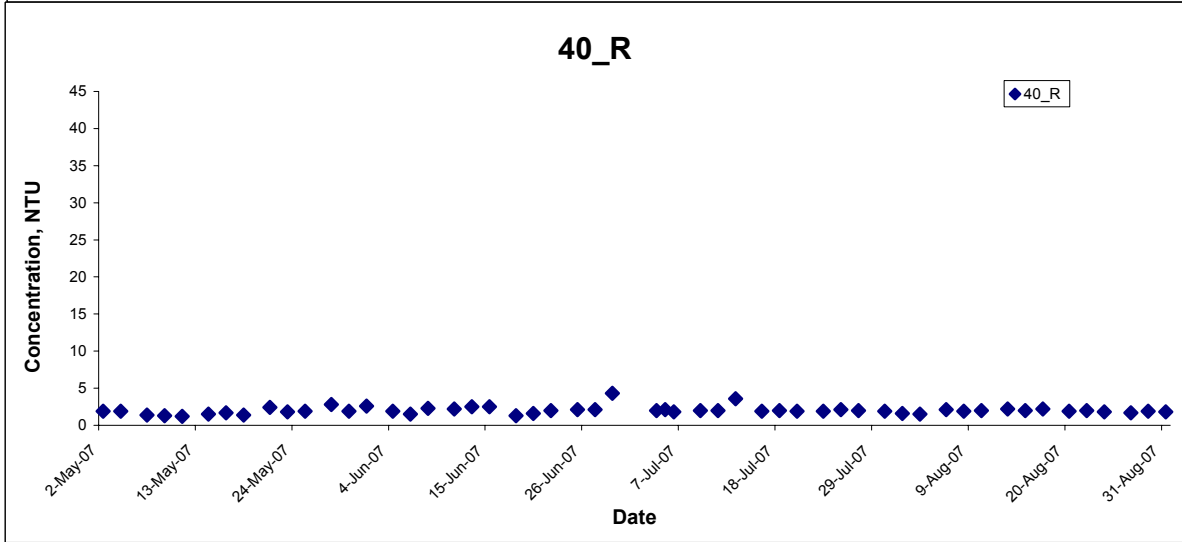
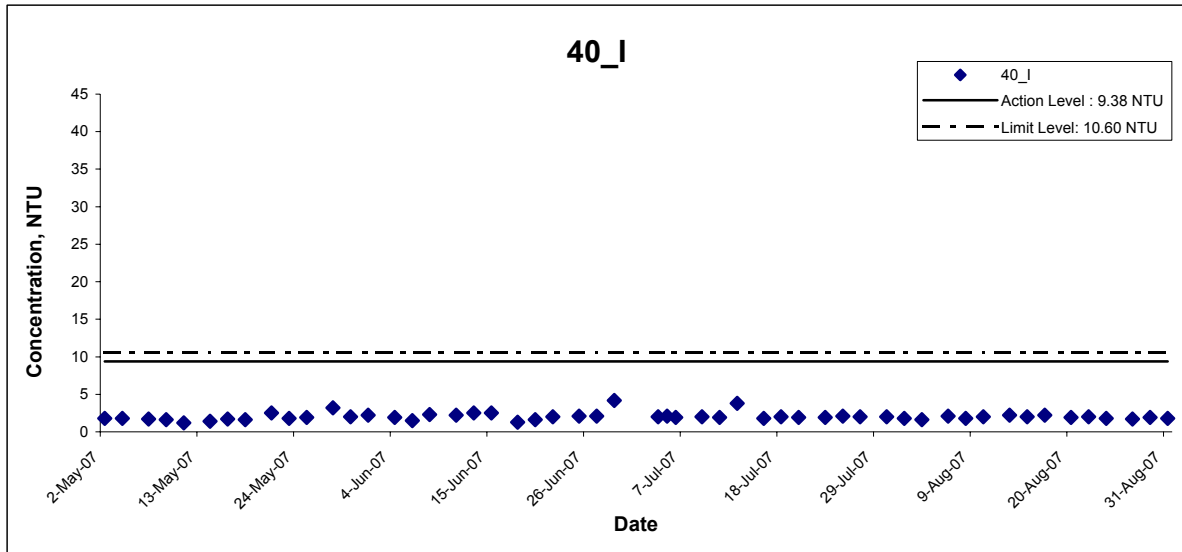
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	<h1 style="margin: 0;">CINOTECH</h1>
	Date Aug 07	Appendix F	

Turbidity



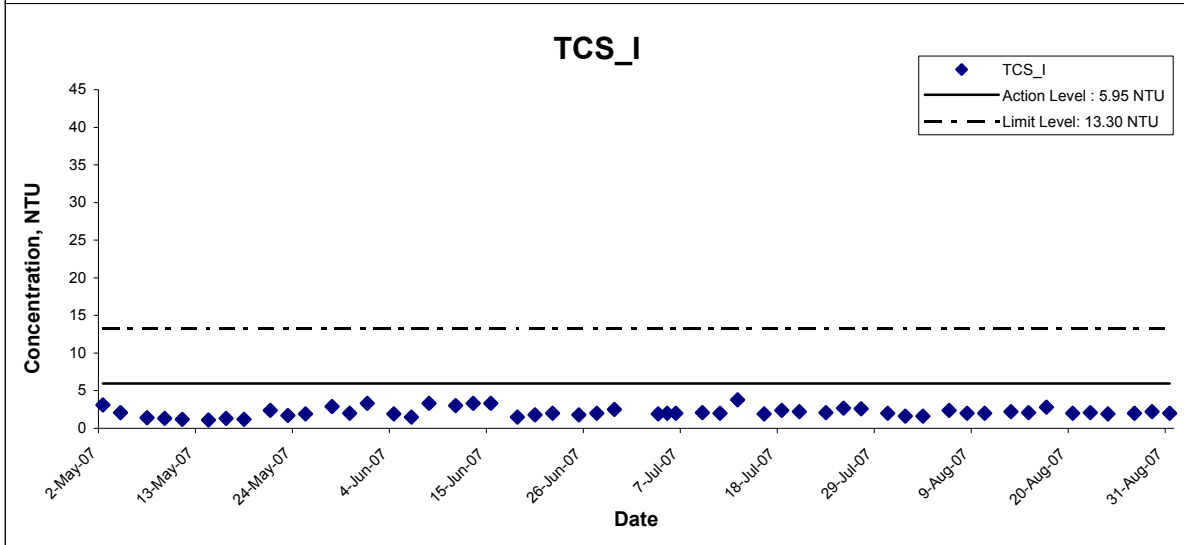
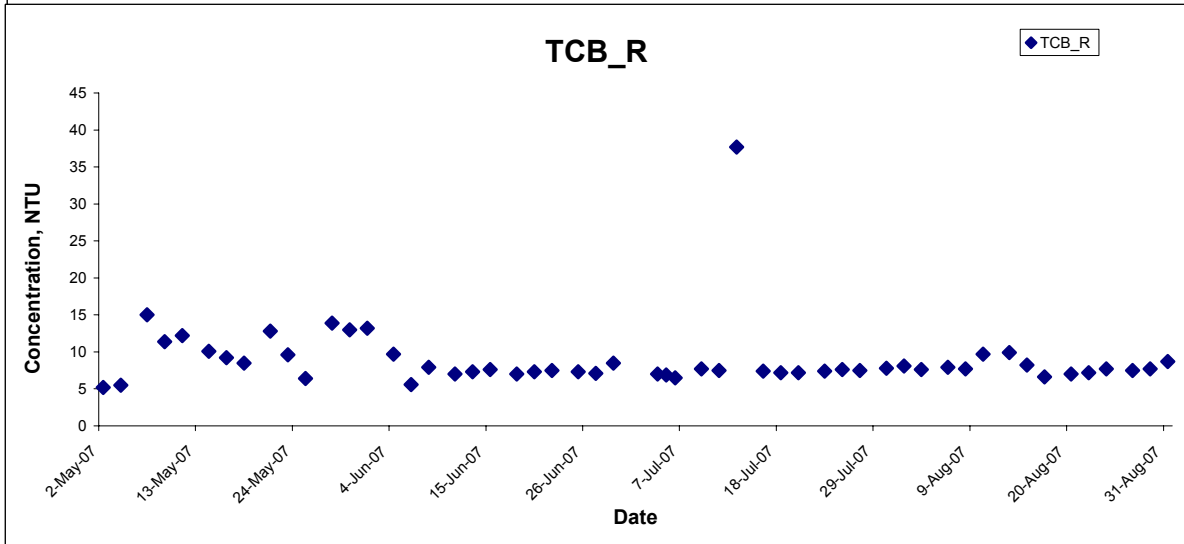
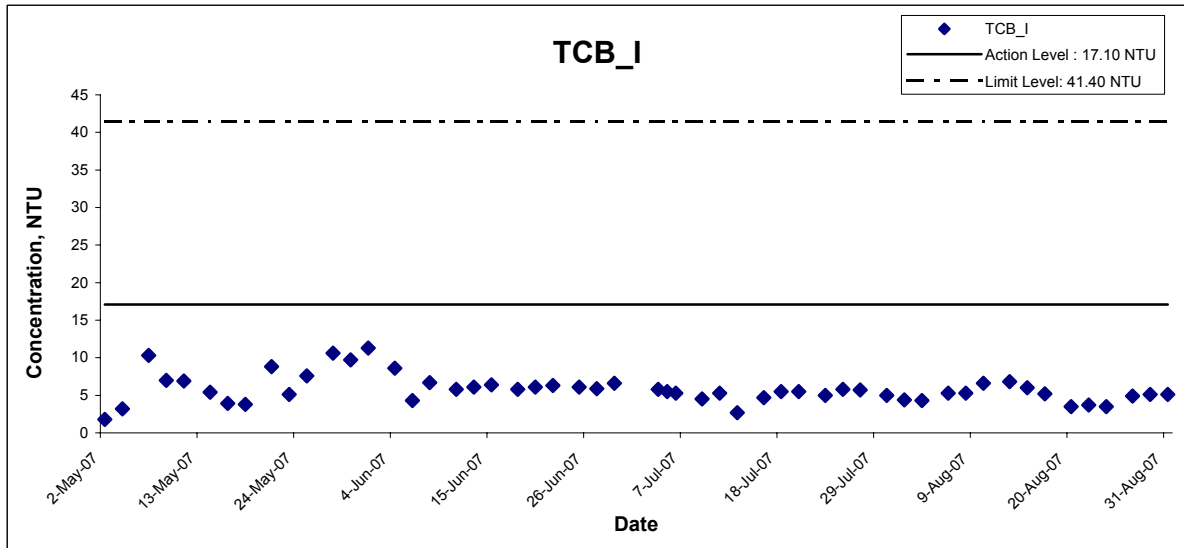
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	CINOTECH
	Date Aug 07	Appendix F	

Turbidity



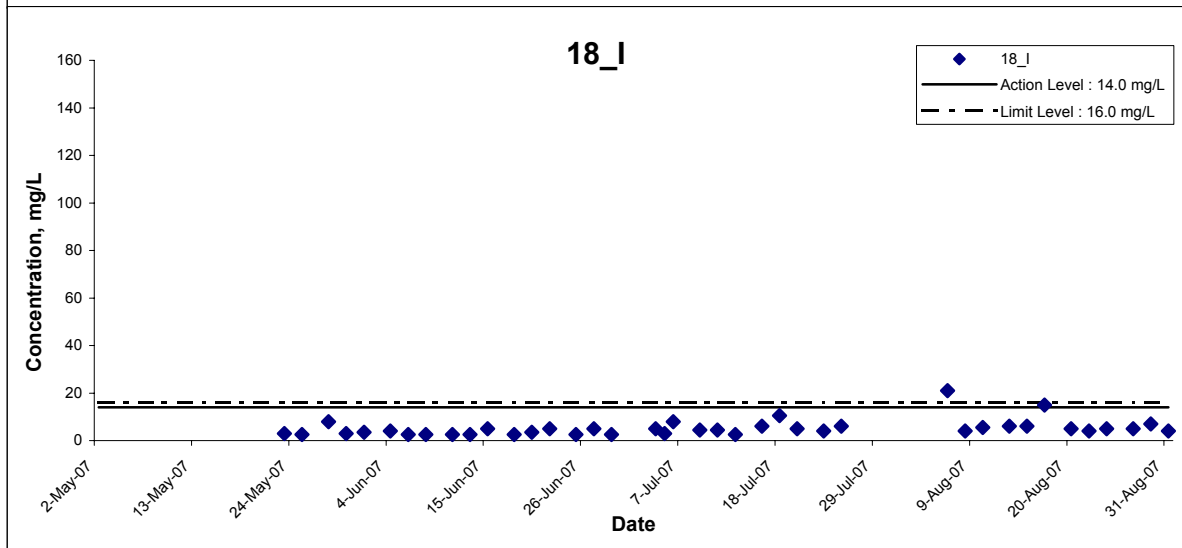
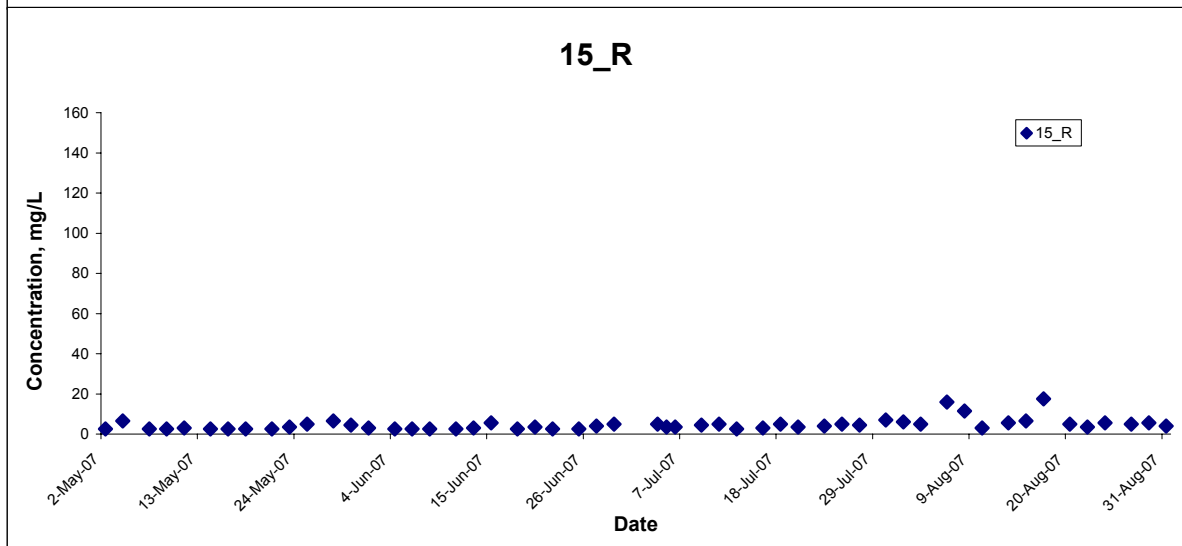
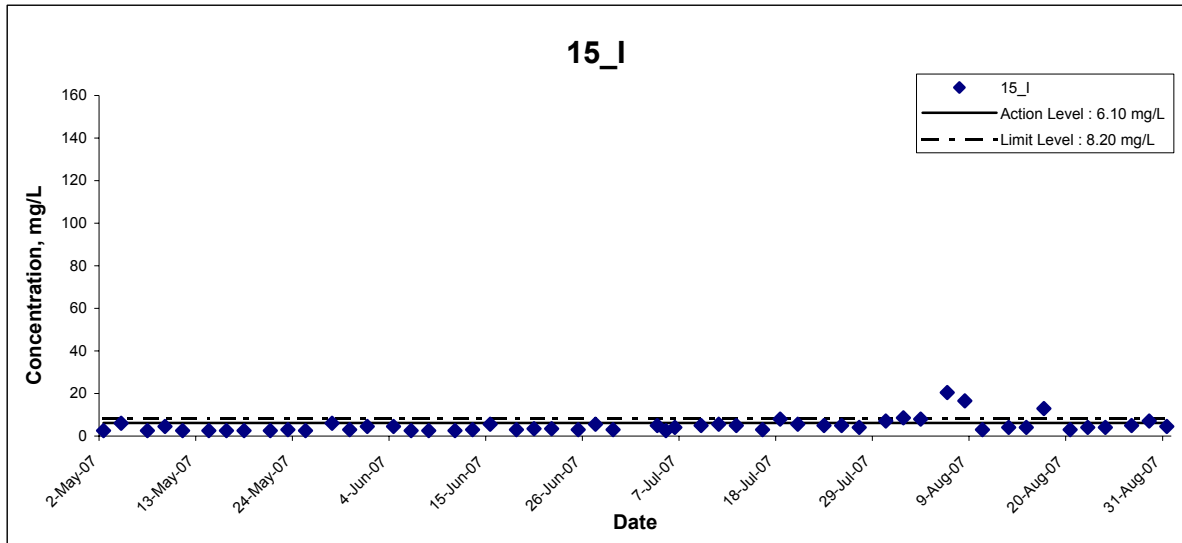
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	CINOTECH
	Date Aug 07	Appendix F	

Turbidity



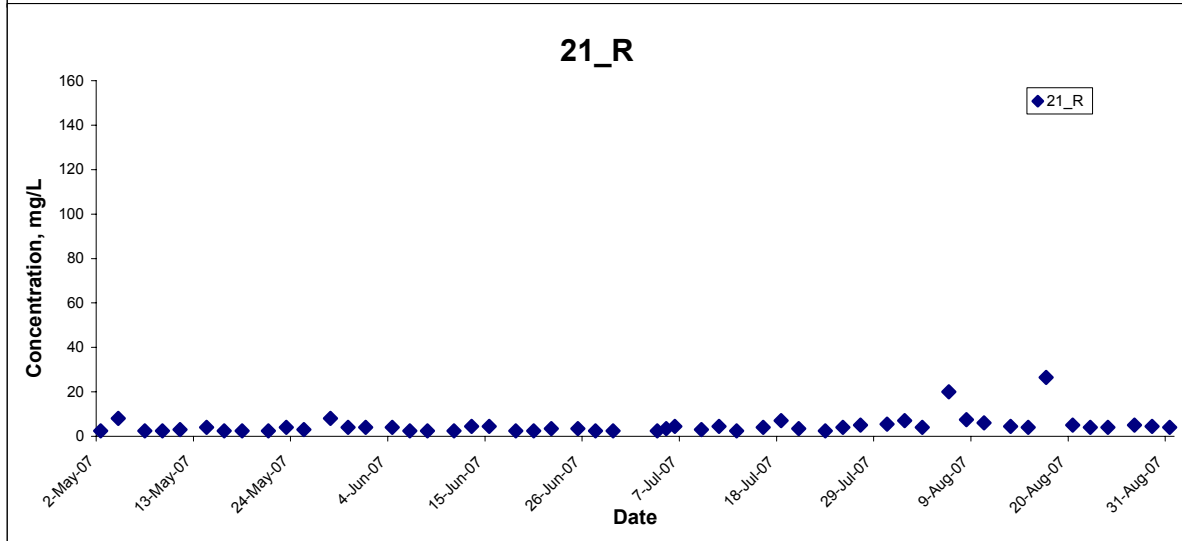
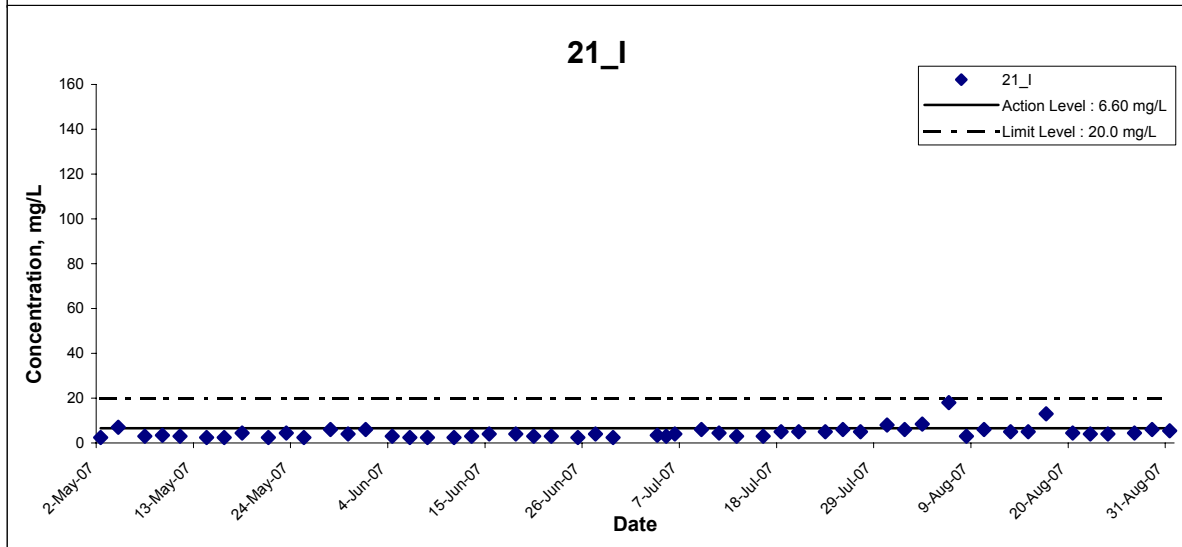
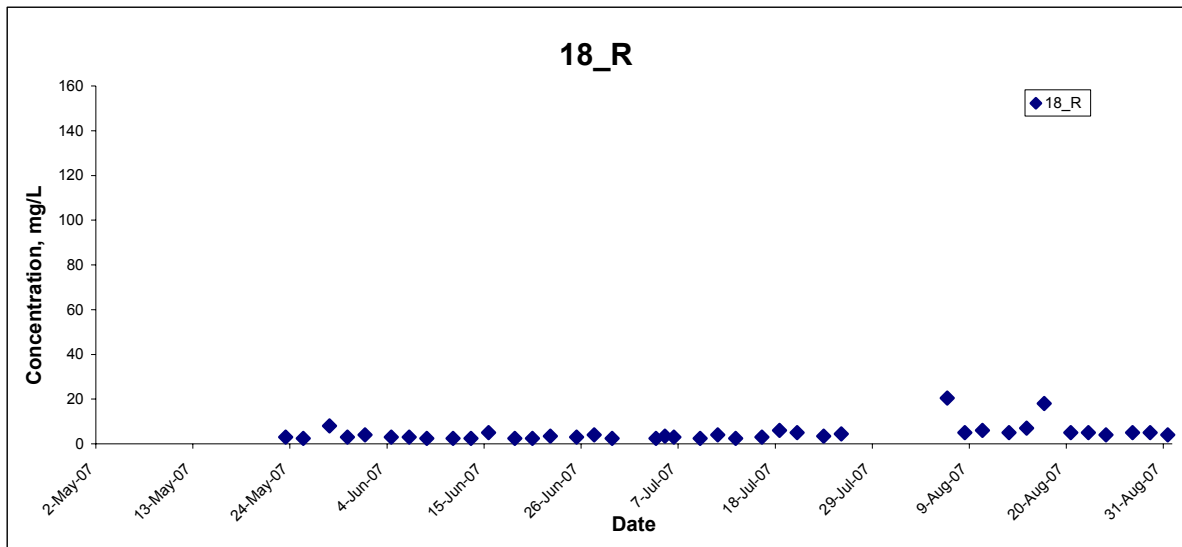
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	<h1 style="margin: 0;">CINOTECH</h1>
	Date Aug 07	Appendix F	

Suspended Solids



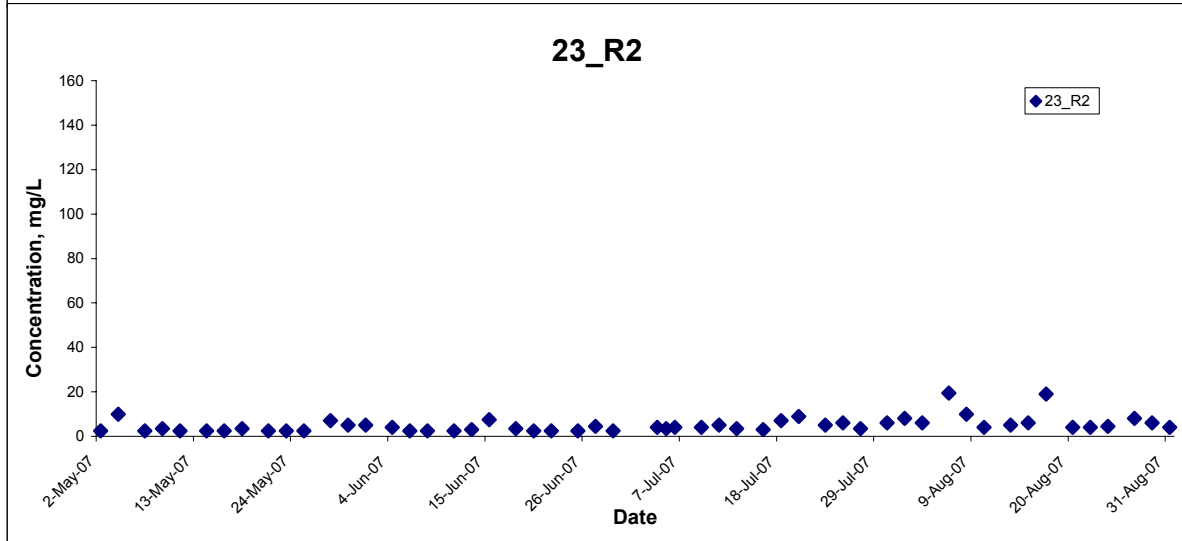
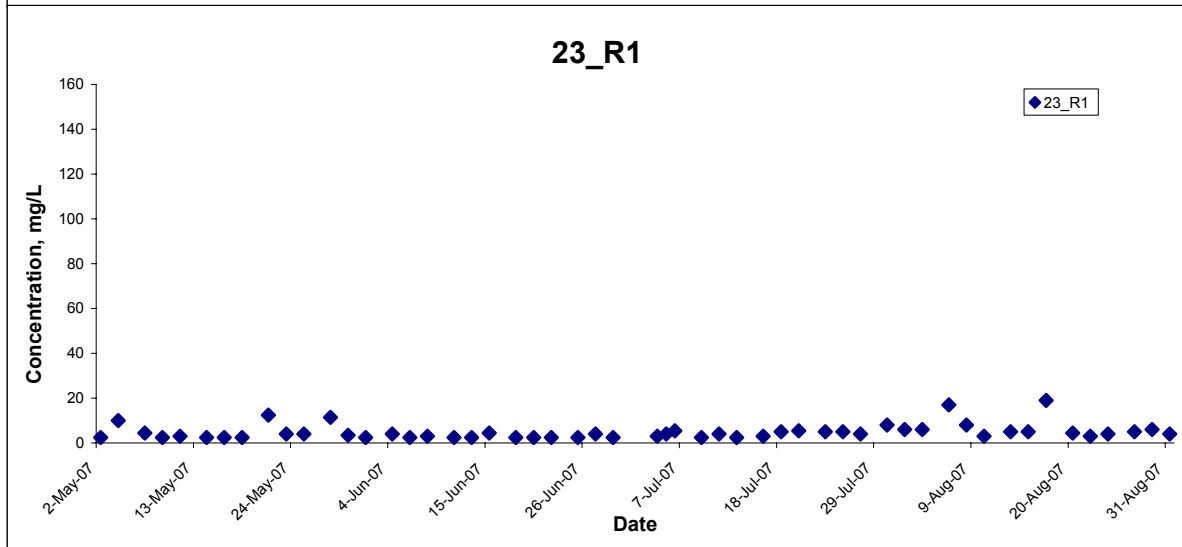
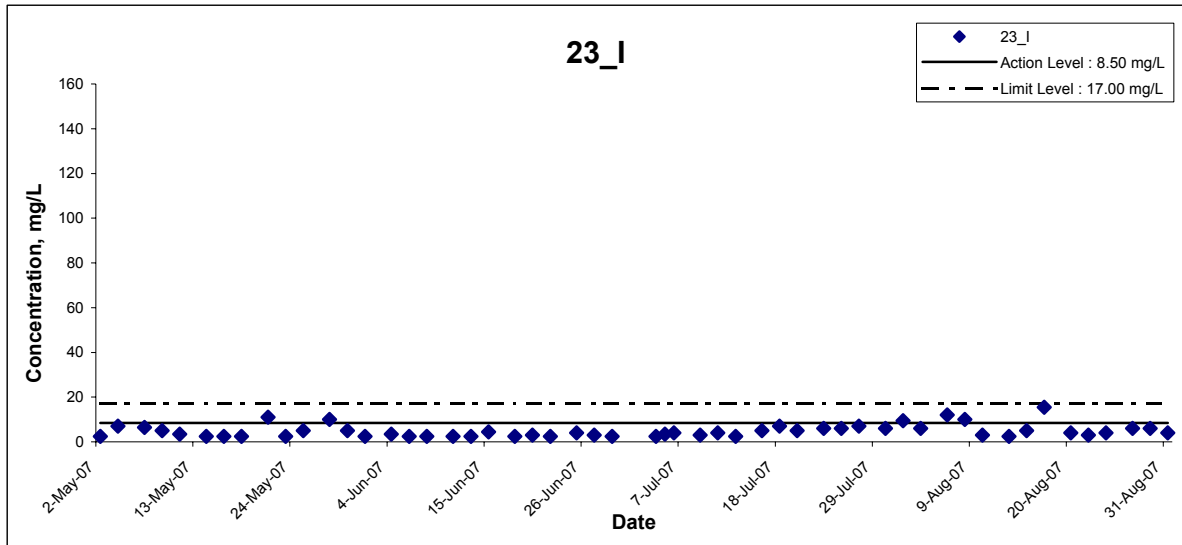
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale	N.T.S	Project No. MA6030	CINOTECH
	Date	Aug 07	Appendix F	

Suspended Solids



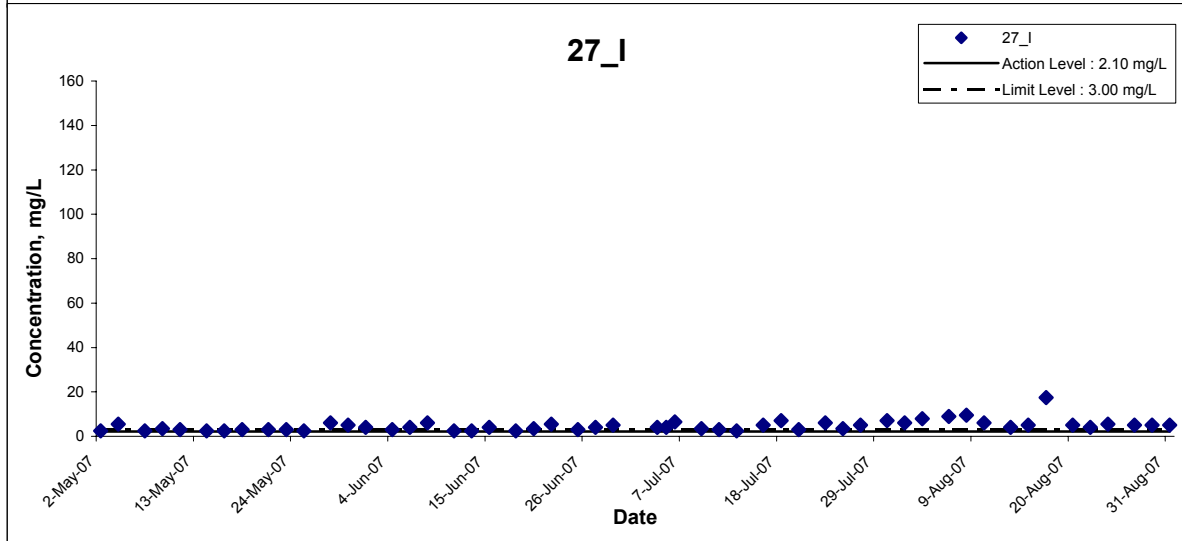
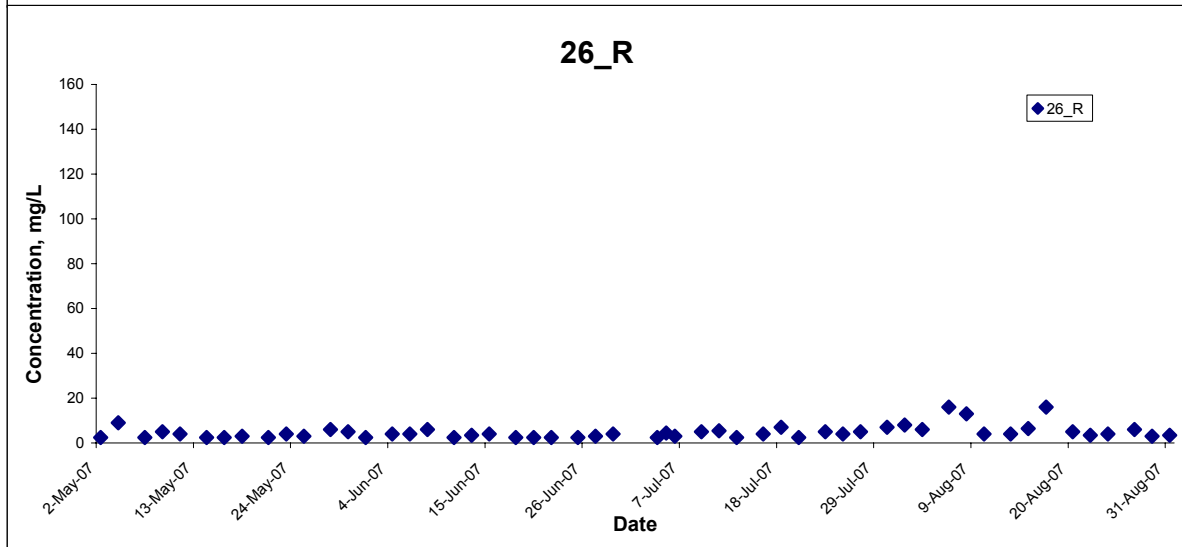
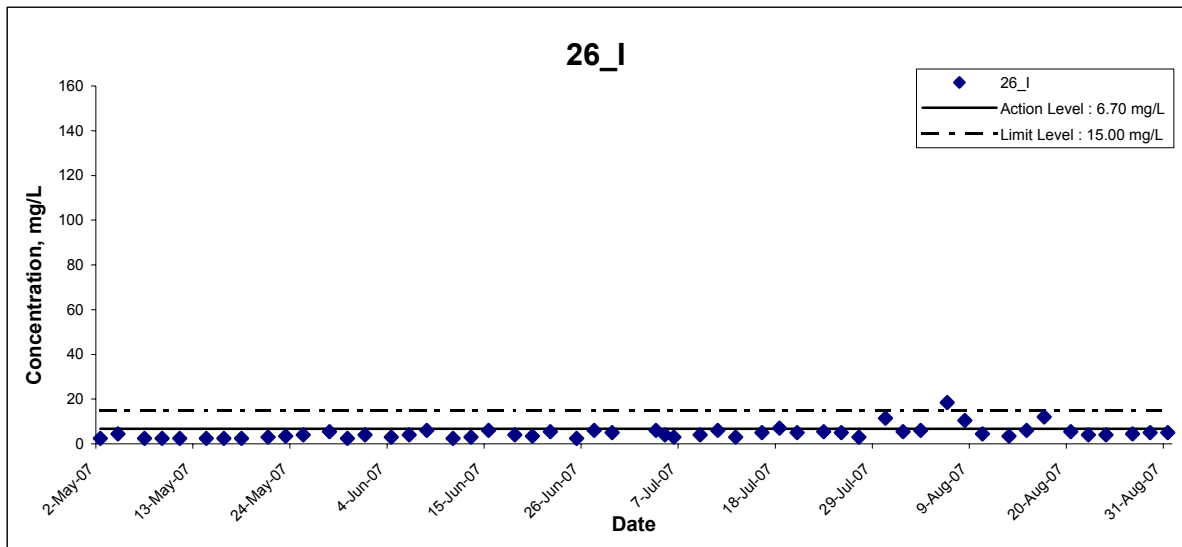
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	CINOTECH
	Date Aug 07	Appendix F	

Suspended Solids



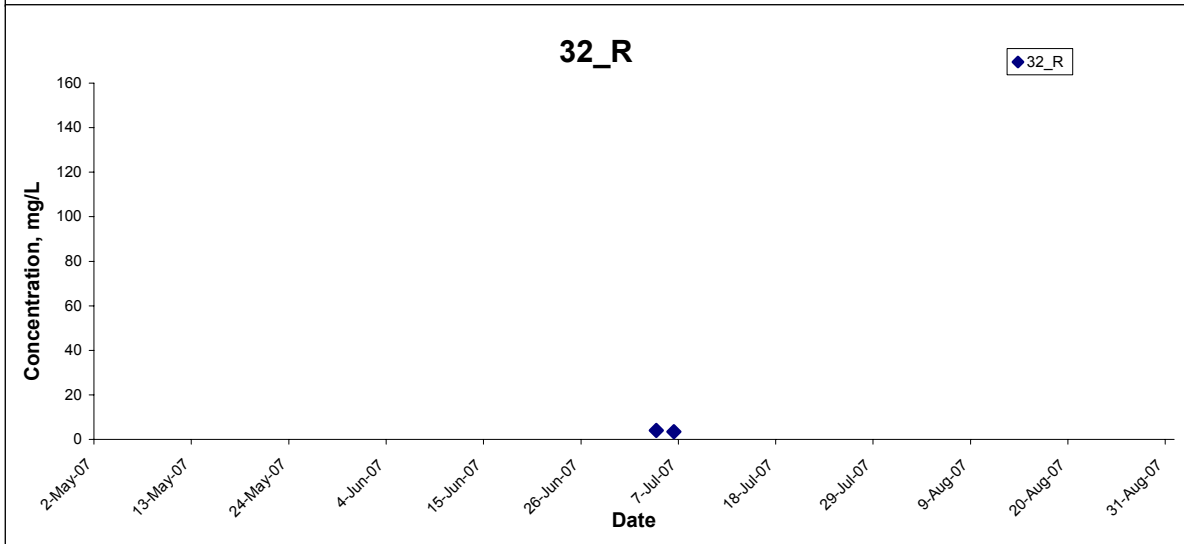
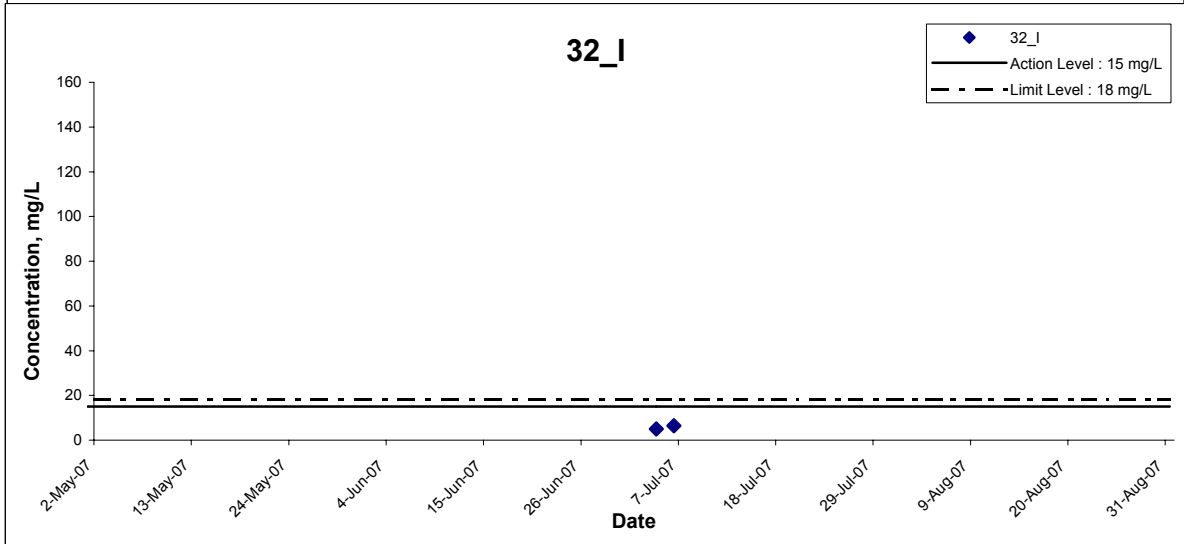
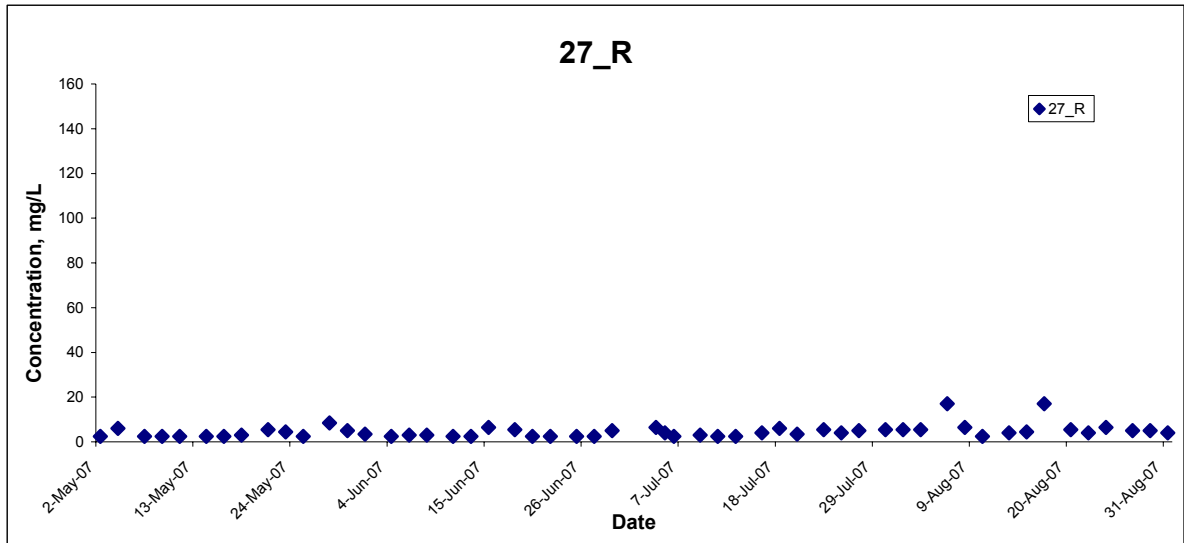
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	CINOTECH
	Date Aug 07	Appendix F	

Suspended Solids



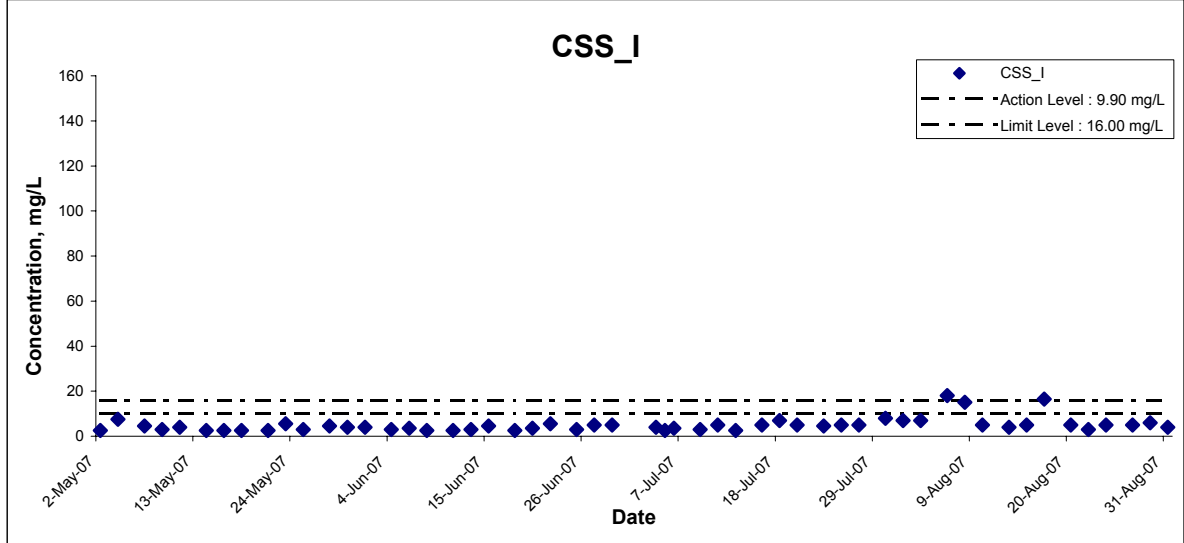
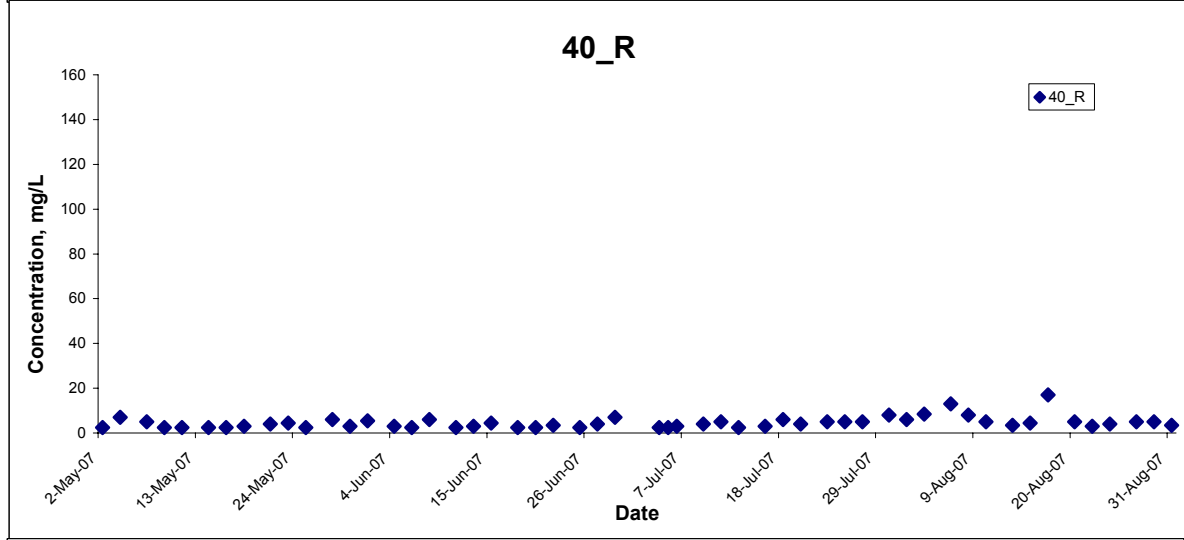
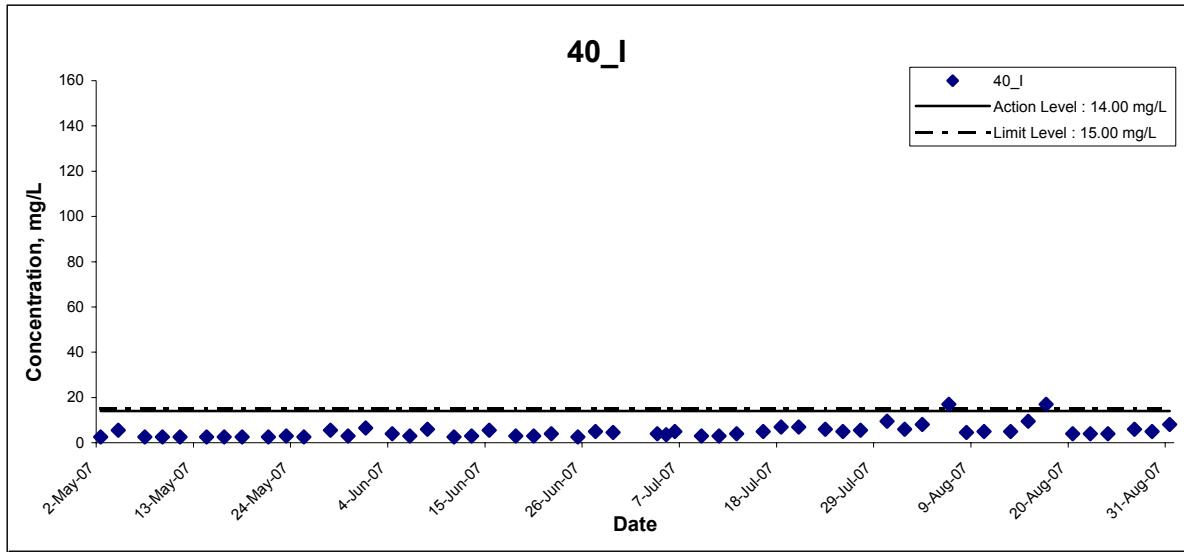
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	CINOTECH
	Date Aug 07	Appendix F	

Suspended Solids



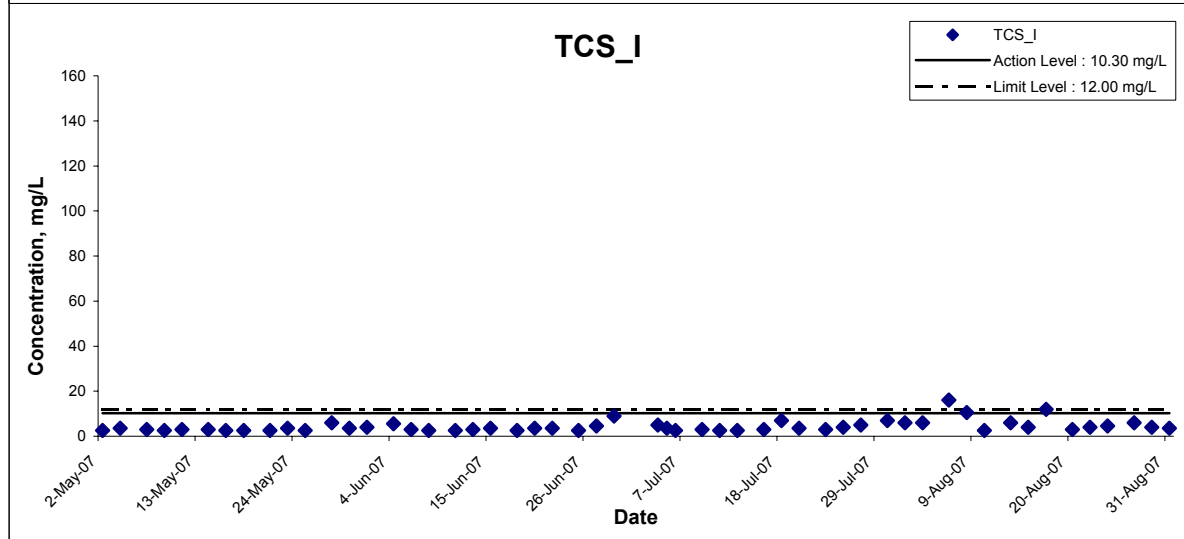
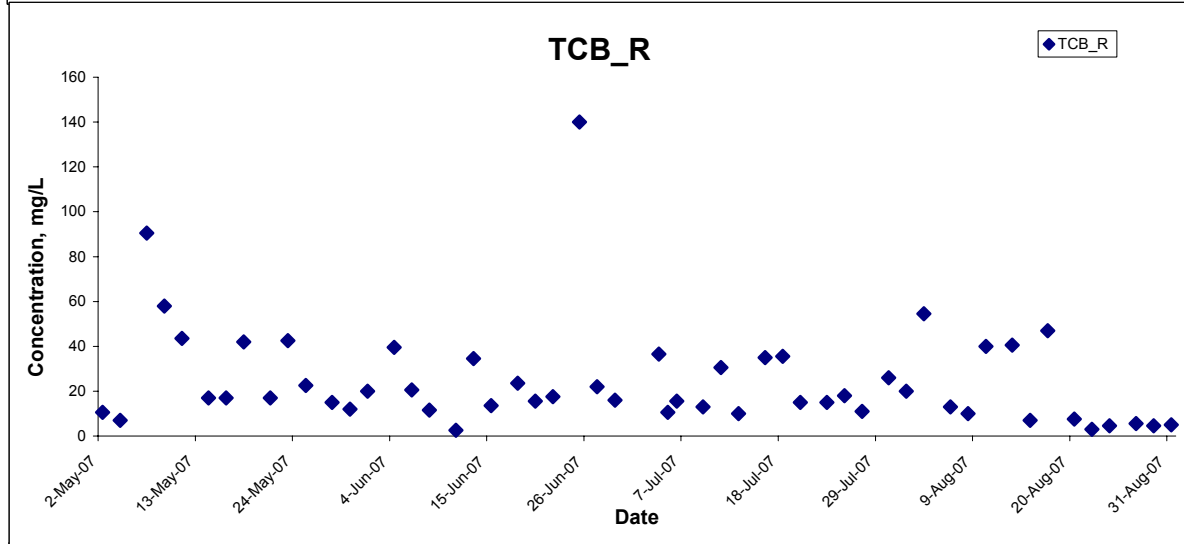
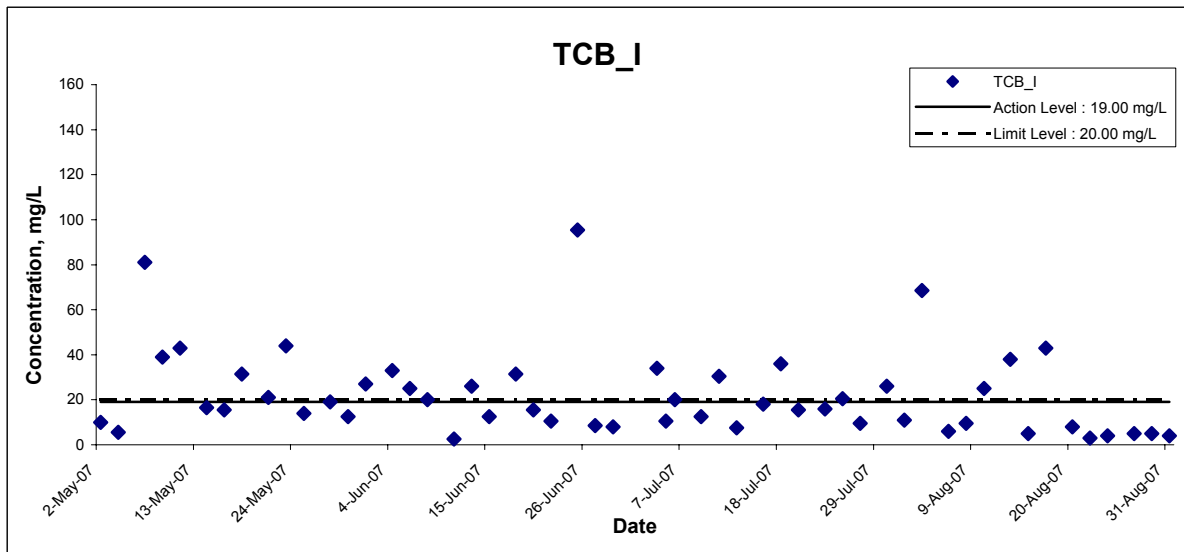
Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	CINOTECH
	Date Aug 07	Appendix F	

Suspended Solids



Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	CINOTECH
	Date Aug 07	Appendix F	

Suspended Solids



Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA6030	CINOTECH
	Date Aug 07	Appendix F	

**APPENDIX G
QUALITY CONTROL REPORTS FOR
LABORATORY ANALYSIS**

WELLAB LTD.

Unit C, 1/F, Goldlion Holdings Center
13-15 Yuen Shun Circuit,
Shatin, Hong Kong.
Tel: (852) 2898 7388
Fax: (852) 2898 7076

QC REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Laboratory No.:	05189
Date of Issue:	2007/08/02
Date Received:	2007/08/01
Date Tested:	2007/08/02
Date Completed:	2007/08/02

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2007/08/01
Number of Sample: 34
Custody No.: MA6030/070801

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1, mg/L	Trial 2, mg/L	Difference, %	
27_I	6	5	18	99

*****End of Report*****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Senior Chemist

WELLAB LTD.

Unit C, 1/F, Goldlion Holdings Center
13-15 Yuen Shun Circuit,
Shatin, Hong Kong.
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Fax: (852) 2898 7076

QC REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Laboratory No.:	05211
Date of Issue:	2007/08/06
Date Received:	2007/08/03
Date Tested:	2007/08/03
Date Completed:	2007/08/06

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2007/08/03
Number of Sample: 34
Custody No.: MA6030/070803

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1, mg/L	Trial 2, mg/L	Difference, %	
27_I	8	8	7	97

*****End of Report*****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Senior Chemist

WELLAB LTD.

Unit C, 1/F, Goldlion Holdings Center
13-15 Yuen Shun Circuit,
Shatin, Hong Kong.
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QC REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Laboratory No.:	05220
Date of Issue:	2007/08/07
Date Received:	2007/08/06
Date Tested:	2007/08/06
Date Completed:	2007/08/07

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2007/08/06
Number of Sample: 38
Custody No.: MA6030/070806

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1, mg/L	Trial 2, mg/L	Difference, %	
26_I	18	17	1	91

*****End of Report*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Senior Chemist

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Shatin, Hong Kong.
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QC REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Laboratory No.:	05231
Date of Issue:	2007/08/09
Date Received:	2007/08/08
Date Tested:	2007/08/08
Date Completed:	2007/08/09

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2007/08/08
Number of Sample: 38
Custody No.: MA6030/070808

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1, mg/L	Trial 2, mg/L	Difference, %	
26_I	10	11	11	85

*****End of Report*****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**



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QC REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Laboratory No.:	05247
Date of Issue:	2007/08/14
Date Received:	2007/08/11
Date Tested:	2007/08/11
Date Completed:	2007/08/14

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2007/08/10
Number of Sample: 38
Custody No.: MA6030/070810

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1, mg/L	Trial 2, mg/L	Difference, %	
26_I	5	4	16	98

*****End of Report*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



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Unit C, 1/F, Goldlion Holdings Center
13-15 Yuen Shun Circuit,
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QC REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Laboratory No.:	05248
Date of Issue:	2007/08/14
Date Received:	2007/08/13
Date Tested:	2007/08/13
Date Completed:	2007/08/14

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2007/08/13
Number of Sample: 38
Custody No.: MA6030/070813

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1, mg/L	Trial 2, mg/L	Difference, %	
26_I	3	3	8	91

*****End of Report*****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**



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13-15 Yuen Shun Circuit,
Shatin, Hong Kong.
Tel: (852) 2898 7388
Fax: (852) 2898 7076

QC REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Laboratory No.:	05262
Date of Issue:	2007/08/16
Date Received:	2007/08/15
Date Tested:	2007/08/15
Date Completed:	2007/08/16

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2007/08/15
Number of Sample: 38
Custody No.: MA6030/070815

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1, mg/L	Trial 2, mg/L	Difference, %	
15_R	7	6	17	98

*****End of Report*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Senior Chemist

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Unit C, 1/F, Goldlion Holdings Center
13-15 Yuen Shun Circuit,
Shatin, Hong Kong.
Tel: (852) 2898 7388
Fax: (852) 2898 7076

QC REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Laboratory No.:	05277
Date of Issue:	2007/08/20
Date Received:	2007/08/17
Date Tested:	2007/08/17
Date Completed:	2007/08/20

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2007/08/17
Number of Sample: 38
Custody No.: MA6030/070817

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1, mg/L	Trial 2, mg/L	Difference, %	
26_I	12	14	15	95

*****End of Report*****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Senior Chemist

WELLAB LTD.

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13-15 Yuen Shun Circuit,
Shatin, Hong Kong.
Tel: (852) 2898 7388
Fax: (852) 2898 7076

QC REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Laboratory No.:	05284
Date of Issue:	2007/08/21
Date Received:	2007/08/20
Date Tested:	2007/08/20
Date Completed:	2007/08/21

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2007/08/20
Number of Sample: 38
Custody No.: MA6030/070820

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1, mg/L	Trial 2, mg/L	Difference, %	
26_I	6	7	6	93

*****End of Report*****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**



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Senior Chemist

WELLAB LTD.

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13-15 Yuen Shun Circuit,
Shatin, Hong Kong.
Tel: (852) 2898 7388
Fax: (852) 2898 7076

QC REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Laboratory No.:	05297
Date of Issue:	2007/08/23
Date Received:	2007/08/22
Date Tested:	2007/08/22
Date Completed:	2007/08/23

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2007/08/22
Number of Sample: 38
Custody No.: MA6030/070822

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1, mg/L	Trial 2, mg/L	Difference, %	
23_R2	4	4	7	86

*****End of Report*****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Senior Chemist

TEST REPORT

QC REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Laboratory No.:	05315
Date of Issue:	2007/08/27
Date Received:	2007/08/24
Date Tested:	2007/08/24
Date Completed:	2007/08/27

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2007/08/24
Number of Sample: 38
Custody No.: MA6030/070824

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1, mg/L	Trial 2, mg/L	Difference, %	
26_I	4	4	8	84

*****End of Report*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Senior Chemist

TEST REPORT

QC REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Laboratory No.:	05319
Date of Issue:	2007/08/28
Date Received:	2007/08/27
Date Tested:	2007/08/27
Date Completed:	2007/08/28

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2007/08/27
Number of Sample: 38
Custody No.: MA6030/070827

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1, mg/L	Trial 2, mg/L	Difference, %	
26_I	4	5	7	92

*****End of Report*****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Senior Chemist

TEST REPORT

QC REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Laboratory No.:	05336
Date of Issue:	2007/08/30
Date Received:	2007/08/29
Date Tested:	2007/08/29
Date Completed:	2007/08/29

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2007/08/29
Number of Sample: 38
Custody No.: MA6030/070829

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1, mg/L	Trial 2, mg/L	Difference, %	
26_I	5	6	15	93

*****End of Report*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Senior Chemist

TEST REPORT

QC REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

Laboratory No.:	05347
Date of Issue:	2007/09/03
Date Received:	2007/08/31
Date Tested:	2007/08/31
Date Completed:	2007/09/03

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2007/08/31
Number of Sample: 38
Custody No.: MA6030/070831

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1, mg/L	Trial 2, mg/L	Difference, %	
26_I	5	4	11	96

*****End of Report*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Senior Chemist

APPENDIX H
SUMMARY OF EXCEEDANCES

Summary of Exceedances Recorded in the Reporting Month

a) Exceedance Report for 24-hr TSP

(NIL)

b) Exceedance Report for Construction Noise

(NIL)

c) Exceedance Report for Water Quality

- Exceedances of suspended solids (SS) were recorded in the recording month.

Contract No. HY/2003/19
Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report
Report No. 70806W-70801_S

Part A – Exceedance Summary Tables

Table 2: Parameter – Suspended Solids (mg/L)

Stream Location	Measured Value	Exceedances Criteria				Action / Limit Levels	Justification *	Validity (Y/N)	Action Taken (Y/N)
		Action value	120% of Reference value *	Limit Value	130% of Reference Value *				
15_I	8.5	6.1	7.2	8.2	7.8	Limit	(1)	N	N
23_I	9.5	8.5	7.2 ⁺	17.0	7.8 ⁺	Action	(1) & (3)	N	N
			9.6 ⁺⁺		10.8 ⁺⁺				
27_I	6.0	2.1	6.6	3.0	7.2	Limit	(2) & (4)	N	N

- *Remarks
- (1) – No construction activity was observed.
 - (2) – No pollution discharge from construction activity was observed.
 - (3) – Natural humus or mosses was observed.
 - (4) – Reference point value already exceeded either the Action or Limit Levels.
 - (⁺) – Reference point value of 23_R1
 - (⁺⁺) – Reference point value of 23_R2

Contract No. HY/2003/19**Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report**

Report No. 70809W-70803_S

Part A – Exceedance Summary Tables**Table 1: Parameter – Suspended Solids (mg/L)**

Stream Location	Measured Value	Exceedances Criteria				Action / Limit Levels	Justification *	Validity (Y/N)	Action Taken (Y/N)
		Action value	120% of Reference value *	Limit Value	130% of Reference Value *				
15_I	8.0	6.1	6.0	8.2	6.5	Limit	(1)	N	N
21_I	8.5	6.6	4.8	20.0	5.2	Limit	(1)	N	N
27_I	8.0	2.1	6.6	3.0	7.2	Limit	(2) & (3)	N	N
TCB_I	68.5	19.0	64.5	20.0	70.9	Limit	(1) & (4)	N	N

- *Remarks
- (1) – No construction activity was observed.
 - (2) – No pollution discharge from construction activity was observed.
 - (3) – Natural humus or mosses was observed.
 - (4) – Reference point value already exceeded either the Action or Limit Levels.

Contract No. HY/2003/19
Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report
Report No. 70813W-70808_S

Part A – Exceedance Summary Tables

Table 1: Parameter – Suspended Solids (mg/L)

Stream Location	Measured Value	Exceedances Criteria				Action / Limit Levels	Justification *	Validity (Y/N)	Action Taken (Y/N)
		Action value	120% of Reference value *	Limit Value	130% of Reference Value *				
15_I	16.5	6.1	13.8	8.2	15.0	Limit	(1)	N	N
23_I	10.0	8.5	9.6 ⁺	17.0	10.8 ⁺	Action	(1) & (4)	N	N
			12.0 ⁺⁺		13.0 ⁺⁺				
26_I	10.5	6.7	15.6	15.0	16.9	Action	(1) & (4)	N	N
27_I	9.5	2.1	7.8	3.0	8.5	Limit	(2)	N	N
CSS_I	15.0	9.9	15.6	16.0	16.9	Action	(1) & (4)	N	N

- *Remarks
- (1) – No construction activity was observed.
 - (2) – No pollution discharge from construction activity was observed.
 - (3) – Natural humus or mosses was observed.
 - (4) – Reference point value already exceeded either the Action or Limit Levels.
 - (⁺) – Reference point value of 23_R1
 - (⁺⁺) – Reference point value of 23_R2

Contract No. HY/2003/19
Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report
Report No. 70814W-70810_S

Part A – Exceedance Summary Tables

Table 1: Parameter – Suspended Solids (mg/L)

Stream Location	Measured Value	Exceedances Criteria				Action / Limit Levels	Justification *	Validity (Y/N)	Action Taken (Y/N)
		Action value	120% of Reference value *	Limit Value	130% of Reference Value *				
27_I	6.0	2.1	3.0	3.0	3.3	Limit	(1) & (3)	N	N
CSS_I	5.0	9.9	4.8	16.0	5.2	Action	(1)	N	N
TCB_I	25.0	19.0	48.0	20.0	52.0	Limit	(1) & (4)	N	N

- *Remarks
- (1) – No construction activity was observed.
 - (2) – No pollution discharge from construction activity was observed.
 - (3) – Natural humus or mosses was observed.
 - (4) – Reference point value already exceeded either the Action or Limit Levels.

Contract No. HY/2003/19
Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report
Report No. 70814W-70813_S

Part A – Exceedance Summary Tables

Table 1: Parameter – Suspended Solids (mg/L)

Stream Location	Measured Value	Exceedances Criteria				Action / Limit Levels	Justification *	Validity (Y/N)	Action Taken (Y/N)
		Action value	120% of Reference value *	Limit Value	130% of Reference Value *				
27_I	4.0	2.1	4.8	3.0	5.2	Limit	(2) & (4)	N	N
40_I	5.0	14.0	4.2	15.0	4.6	Limit	(1)	N	N
TCB_I	38.0	19.0	48.6	20.0	52.7	Limit	(1) & (4)	N	N

- *Remarks
- (1) – No construction activity was observed.
 - (2) – No pollution discharge from construction activity was observed.
 - (3) – Natural humus or mosses was observed.
 - (4) – Reference point value already exceeded either the Action or Limit Levels.

Contract No. HY/2003/19**Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report**

Report No. 70815W-70806_S_v2

Part A – Exceedance Summary Tables**Table 1: Parameter – Suspended Solids (mg/L)**

Stream Location	Measured Value	Exceedances Criteria				Action / Limit Levels	Justification *	Validity (Y/N)	Action Taken (Y/N)
		Action value	120% of Reference value *	Limit Value	130% of Reference Value *				
15_I	20.5	6.1	19.2	8.2	20.8	Limit	(1) & (4)	N	N
18_I	21.0	14.0	24.6	16.0	26.7	Limit	(1) & (4)	N	N
21_I	18.0	6.6	24.0	20.0	26.0	Action	(1) & (4)	N	N
23_I	12.0	8.5	20.4 ⁺	17.0	22.1 ⁺	Action	(1) & (4)	N	N
			23.4 ⁺⁺		25.4 ⁺⁺				
26_I	18.5	6.7	19.2	15.0	20.8	Limit	(2) & (4)	N	N
27_I	9.0	2.1	20.4	3.0	22.1	Limit	(2) & (4)	N	N
40_I	17.0	14.0	15.6	15.0	16.9	Limit	(2) & (3)	N	N
CSS_I	18.0	9.9	19.2	16.0	20.8	Limit	(1) & (4)	N	N
TCS_I	16.0	10.3	19.2	12.0	20.8	Limit	(1) & (4)	N	N

- *Remarks (1) – No construction activity was observed.
(2) – No pollution discharge from construction activity was observed.
(3) – Natural humus or mosses was observed.
(4) – Reference point value already exceeded either the Action or Limit Levels.
(+) – Reference point value of 23_R1
(++) – Reference point value of 23_R2

Contract No. HY/2003/19
Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report
Report No. 70817W-70815_S

Part A – Exceedance Summary Tables

Table 1: Parameter – Suspended Solids (mg/L)

Stream Location	Measured Value	Exceedances Criteria				Action / Limit Levels	Justification *	Validity (Y/N)	Action Taken (Y/N)
		Action value	120% of Reference value *	Limit Value	130% of Reference Value *				
21_I	5.0	6.6	4.8	20.0	5.2	Action	(1)	N	N
27_I	5.0	2.1	5.4	3.0	5.9	Limit	(2) & (4)	N	N
40_I	9.5	14.0	5.4	15.0	5.9	Limit	(1)	N	N

- *Remarks
- (1) – No construction activity was observed.
 - (2) – No pollution discharge from construction activity was observed.
 - (3) – Natural humus or mosses was observed.
 - (4) – Reference point value already exceeded either the Action or Limit Levels.

Contract No. HY/2003/19
Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report
Report No. 70821W-70817_S

Part A – Exceedance Summary Tables

Table 1: Parameter – Suspended Solids (mg/L)

Stream Location	Measured Value	Exceedances Criteria				Action / Limit Levels	Justification *	Validity (Y/N)	Action Taken (Y/N)
		Action value	120% of Reference value *	Limit Value	130% of Reference Value *				
15_I	13.0	6.1	21.0	8.2	22.8	Limit	(2) & (4)	N	N
18_I	15.0	14.0	21.6	16.0	23.4	Action	(1) & (4)	N	N
21_I	13.0	6.6	31.8	20.0	34.5	Action	(1) & (4)	N	N
23_I	15.5	8.5	22.8 ⁺	17.0	24.7 ⁺	Action	(1) & (4)	N	N
			22.8 ⁺⁺		24.7 ⁺⁺				
26_I	12.0	6.7	19.2	15.0	20.8	Action	(1) & (4)	N	N
27_I	17.5	2.1	20.4	3.0	22.1	Limit	(2) & (4)	N	N
40_I	17.0	14.0	20.4	15.0	22.1	Limit	(1) & (4)	N	N
CSS_I	16.5	9.9	19.2	16.0	20.8	Limit	(1) & (4)	N	N
TCB_I	43.0	19.0	56.4	20.0	61.1	Limit	(1) & (4)	N	N
TCS_I	12.0	10.3	21.0	12.0	22.8	Action	(1) & (4)	N	N

- *Remarks (1) – No construction activity was observed.
(2) – No pollution discharge from construction activity was observed.
(3) – Natural humus or mosses was observed.
(4) – Reference point value already exceeded either the Action or Limit Levels.

Contract No. HY/2003/19
Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report
Report No. 70822W-70820_S

Part A – Exceedance Summary Tables

Table 1: Parameter – Suspended Solids (mg/L)

Stream Location	Measured Value	Exceedances Criteria				Action / Limit Levels	Justification *	Validity (Y/N)	Action Taken (Y/N)
		Action value	120% of Reference value *	Limit Value	130% of Reference Value *				
27_I	5.0	2.1	6.6	3.0	7.2	Limit	(2) & (4)	N	N

- *Remarks
- (1) – No construction activity was observed.
 - (2) – No pollution discharge from construction activity was observed.
 - (3) – Natural humus or mosses was observed.
 - (4) – Reference point value already exceeded either the Action or Limit Levels.

Contract No. HY/2003/19
Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report
Report No. 70824W-70822_S

Part A – Exceedance Summary Tables

Table 1: Parameter – Suspended Solids (mg/L)

Stream Location	Measured Value	Exceedances Criteria				Action / Limit Levels	Justification *	Validity (Y/N)	Action Taken (Y/N)
		Action value	120% of Reference value *	Limit Value	130% of Reference Value *				
27_I	4.0	2.1	4.8	3.0	5.2	Limit	(2) & (4)	N	N
40_I	4.0	14.0	3.6	15.0	3.9	Limit	(1)	N	N

- *Remarks
- (1) – No construction activity was observed.
 - (2) – No pollution discharge from construction activity was observed.
 - (3) – Natural humus or mosses was observed.
 - (4) – Reference point value already exceeded either the Action or Limit Levels.

Contract No. HY/2003/19
Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report
Report No. 70828W-70824_S

Part A – Exceedance Summary Tables

Table 1: Parameter – Suspended Solids (mg/L)

Stream Location	Measured Value	Exceedances Criteria				Action / Limit Levels	Justification *	Validity (Y/N)	Action Taken (Y/N)
		Action value	120% of Reference value *	Limit Value	130% of Reference Value *				
18_I	5.0	14.0	4.8	16.0	5.2	Action	(1)	N	N
27_I	5.5	2.1	7.8	3.0	8.5	Limit	(2) & (4)	N	N
CSS_I	5.0	9.9	4.8	16.0	5.2	Action	(1)	N	N

- *Remarks
- (1) – No construction activity was observed.
 - (2) – No pollution discharge from construction activity was observed.
 - (3) – Natural humus or mosses was observed.
 - (4) – Reference point value already exceeded either the Action or Limit Levels.

Contract No. HY/2003/19
Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report
Report No. 70829W-70827_S

Part A – Exceedance Summary Tables

Table 1: Parameter – Suspended Solids (mg/L)

Stream Location	Measured Value	Exceedances Criteria				Action / Limit Levels	Justification *	Validity (Y/N)	Action Taken (Y/N)
		Action value	120% of Reference value *	Limit Value	130% of Reference Value *				
27_I	5.0	2.1	6.0	3.0	6.5	Limit	(2) & (4)	N	N

- *Remarks
- (1) – No construction activity was observed.
 - (2) – No pollution discharge from construction activity was observed.
 - (3) – Natural humus or mosses was observed.
 - (4) – Reference point value already exceeded either the Action or Limit Levels.

Contract No. HY/2003/19**Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report**

Report No. 70831W-70829_S

Part A – Exceedance Summary Tables**Table 1: Parameter – Suspended Solids (mg/L)**

Stream Location	Measured Value	Exceedances Criteria				Action / Limit Levels	Justification *	Validity (Y/N)	Action Taken (Y/N)
		Action value	120% of Reference value *	Limit Value	130% of Reference Value *				
15_I	7.0	6.1	6.6	8.2	7.2	Action	(2)	N	N
18_I	7.0	14.0	6.0	16.0	6.5	Limit	(1)	N	N
21_I	6.0	6.6	5.4	20.0	5.9	Limit	(1)	N	N
26_I	5.0	6.7	3.6	15.0	3.9	Limit	(1)	N	N
27_I	5.0	2.1	6.0	3.0	6.5	Limit	(2) & (4)	N	N
CSS_I	6.0	9.9	3.6	16.0	3.9	Limit	(1)	N	N

- *Remarks
- (1) – No construction activity was observed.
 - (2) – No pollution discharge from construction activity was observed.
 - (3) – Natural humus or mosses was observed.
 - (4) – Reference point value already exceeded either the Action or Limit Levels.

Contract No. HY/2003/19**Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report**

Report No. 70904W-70831_S

Part A – Exceedance Summary Tables**Table 1: Parameter – Suspended Solids (mg/L)**

Stream Location	Measured Value	Exceedances Criteria				Action / Limit Levels	Justification *	Validity (Y/N)	Action Taken (Y/N)
		Action value	120% of Reference value *	Limit Value	130% of Reference Value *				
21_I	5.5	6.6	4.8	20.0	5.2	Limit	(1)	N	N
26_I	5.0	6.7	4.2	15.0	4.6	Limit	(1)	N	N
27_I	5.0	2.1	4.8	3.0	5.2	Limit	(2) & (4)	N	N
40_I	8.0	14.0	4.2	15.0	4.6	Limit	(1)	N	N

- *Remarks
- (1) – No construction activity was observed.
 - (2) – No pollution discharge from construction activity was observed.
 - (3) – Natural humus or mosses was observed.
 - (4) – Reference point value already exceeded either the Action or Limit Levels.

**APPENDIX I
SITE AUDIT SUMMARY**

Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	70802
Date	2 August 2007 (Thursday)
Time	13:45 – 16:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
70802-O01	A. Water Quality <ul style="list-style-type: none"> Exposed slope was observed near STR 10(Pier). The Contractor was recommended to provide shotcrete on it. 	B8
70802-O02	<ul style="list-style-type: none"> Exposed slope was observed near STR 10(NA). The Contractor was recommended to cover it. 	B8
70802-O03	<ul style="list-style-type: none"> Exposed slope was observed near STR 11(NA). The Contractor was recommended to cover it. 	B8
70802-O04	<ul style="list-style-type: none"> Exposed slope was observed near under STR 17. The Contractor was recommended to cover it. 	B8
70802-O05	<ul style="list-style-type: none"> Exposed slope was observed near RW22. The Contractor was recommended to cover it. 	B8
70802-O06	<ul style="list-style-type: none"> Exposed slope was observed near RW20. The Contractor was recommended to cover it. 	B8
70802-O07	<ul style="list-style-type: none"> Exposed slope was observed near RW27. The Contractor was recommended to cover it. 	B8
70802-O08	<ul style="list-style-type: none"> Exposed slope was observed near STR17 (NA). The Contractor was recommended to cover it. 	B8
70802-O09	<ul style="list-style-type: none"> Exposed slope was observed near RW16. The Contractor was recommended to cover it. 	B8
70802-O10	<ul style="list-style-type: none"> Stockpile without covering was observed near RW19. The Contractor was recommended to cover it. 	B8
70802-O11	<ul style="list-style-type: none"> Exposed soil surface was observed on the platform of STR14. The Contractor was recommended to provide shotcrete on it. 	B8
70802-O12	<ul style="list-style-type: none"> Insufficient temporary drainage system was observed at STR 12 (SA). The Contractor was recommended to improve it. 	B1
70802-O13	<ul style="list-style-type: none"> Insufficient temporary drainage system was observed at STR 5. The Contractor was recommended to improve it. 	B1
70802-O14	<ul style="list-style-type: none"> Insufficient temporary drainage system was observed at STR 12 (NA). The Contractor was recommended to improve it. 	B1
70802-O15	<ul style="list-style-type: none"> Soil and mud fallen on u-channel near CH6800 was observed. The Contractor was recommended to remove the fallen soil and mud. 	B1
70802-O16	B. Air Quality <ul style="list-style-type: none"> Black smoke emitted from excavators was observed. The Contractor was recommended to provide plant equipment maintenance. C. Noise <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. D. Waste / Chemical Management <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. E. Ecology <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. F. Others <ul style="list-style-type: none"> All environmental deficiencies identified in previous audit session were improved/rectified by the Contractor except items (70726-O01, 70726-O02, 70726-O03, 70726-O04, 70726-O05, 70726-O07, 70726-O09, 70726-O11, 70726-O12, 70726-O13, 70726-O16, 70726-O17, 70726-R19). Follow-up action is needed for the outstanding items. Item 70726-O15 was considered not applicable to the current situation because no cement debagging was observed near RW27. 	C14

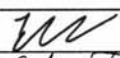

Weekly Site Inspection Record Summary

Reminders		Related Item No.
70802-R18	The contractor was reminded to implement the following preventive measures: B. Air Quality • Provide watering for rock breaking activity at STR14 (NA).	C16
70802-R17	D. Waste / Chemical Management • Remove C&D waste near STR12 (SA).	E4ii

Ref. No.	Tentative Completion date Proposed by the Contractor for Reminders	Completion Date	Remarks
70517-O03	24 May 2007	2 August 2007	Refer to 70525-O03
70525-O03	31 May 2007	2 August 2007	Refer to 70531-O03
70531-O03	7 June 2007	2 August 2007	Refer to 70613-O03
70531-O04	7 June 2007		Refer to 70608-O04
70531-O06	7 June 2007		Refer to 70613-O26
70531-O07	7 June 2007		Refer to 70608-O05
70608-O04	13 June 2007		Refer to 70613-O03
70608-O05	13 June 2007		Refer to 70613-O23
70608-O16	13 June 2007		Refer to 70613-O27
70613-O03	21 June 2007	2 August 2007	Refer to 70621-O03
70613-O17	21 June 2007		Refer to 70621-O05
70613-O26	21 June 2007		Refer to 70621-O06
70613-R31	21 June 2007		Refer to 70621-R18
70621-O03	28 June 2007	2 August 2007	Refer to 70628-O05
70621-O06	28 June 2007		Refer to 70628-O07
70621-O16	28 June 2007		Refer to 70628-O16
70621-R18	28 June 2007		Refer to 70628-O01
70628-O01	5 July 2007		Refer to 70705-O01
70628-O02	5 July 2007		Refer to 70705-O02
70628-O03	5 July 2007		Refer to 70705-O03
70628-O05	5 July 2007	2 August 2007	Refer to 70705-O05
70628-O07	5 July 2007		Refer to 70705-O07
70628-O10	5 July 2007	2 August 2007	Refer to 70705-O10
70705-O01	11 July 2007		Refer to 70711-O01
70705-O02	11 July 2007		Refer to 70711-O02
70705-O03	11 July 2007		Refer to 70711-O03
70705-O05	11 July 2007	2 August 2007	Refer to 70711-O05
70705-O07	11 July 2007		Refer to 70711-O07
70705-O10	11 July 2007	2 August 2007	Refer to 70711-O09
70705-O14	11 July 2007		Refer to 70711-O11
70711-O01	19 July 2007		Refer to 70719-O01
70711-O02	19 July 2007		Refer to 70719-O02
70711-O03	19 July 2007		Refer to 70719-O03
70711-O05	19 July 2007	2 August 2007	Refer to 70719-O05
70711-O07	19 July 2007		Refer to 70719-O07
70711-O09	19 July 2007	2 August 2007	Refer to 70719-O08
70711-O11	19 July 2007		Refer to 70719-O11
70711-O14	19 July 2007		Refer to 70719-O14
70711-O15	19 July 2007	2 August 2007	Refer to 70719-O15
70719-O01	26 July 2007		Refer to 70726-O01
70719-O02	26 July 2007		Refer to 70726-O02
70719-O03	26 July 2007		Refer to 70726-O03
70719-O04	26 July 2007		Refer to 70726-O04

Weekly Site Inspection Record Summary

Ref. No.	Tentative Completion date Proposed by the Contractor for Reminders	Completion Date	Remarks
70719-O05	26 July 2007	2 August 2007	Refer to 70726-O14
70719-O07	26 July 2007		Refer to 70726-O07
70719-O08	26 July 2007	2 August 2007	Refer to 70726-O10
70719-O10	26 July 2007		Refer to 70726-O09
70719-O11	26 July 2007		Refer to 70726-O12
70719-O14	26 July 2007		Refer to 70726-O05
70719-O15	26 July 2007	2 August 2007	Refer to 70726-O06
70719-R18	26 July 2007		Refer to 70726-O13
70726-O01	2 August 2007		Refer to 70802-O01
70726-O02	2 August 2007		Refer to 70802-O02
70726-O03	2 August 2007		Refer to 70802-O03
70726-O04	2 August 2007		Refer to 70802-O04
70726-O05	2 August 2007		Refer to 70802-O05
70726-O06	2 August 2007	2 August 2007	
70726-O07	2 August 2007		Refer to 70802-O07
70726-O08	2 August 2007	2 August 2007	
70726-O09	2 August 2007		Refer to 70802-O09
70726-O10	2 August 2007	2 August 2007	
70726-O11	2 August 2007		Refer to 70802-O11
70726-O12	2 August 2007		Refer to 70802-O12
70726-O13	2 August 2007		Refer to 70802-O13
70726-O14	2 August 2007	2 August 2007	
70726-O15	2 August 2007	-	Considered inapplicable on 2 August 2007
70726-O16	2 August 2007		Refer to 70802-O16
70726-O17	2 August 2007		Refer to 70802-O10
70726-R18	2 August 2007	2 August 2007	
70726-R19	2 August 2007		Refer to 70802-O17
70802-O01	8 August 2007		
70802-O02	8 August 2007		
70802-O03	8 August 2007		
70802-O04	8 August 2007		
70802-O05	8 August 2007		
70802-O06	8 August 2007		
70802-O07	8 August 2007		
70802-O08	8 August 2007		
70802-O09	8 August 2007		
70802-O10	8 August 2007		
70802-O11	8 August 2007		
70802-O12	8 August 2007		
70802-O13	8 August 2007		
70802-O14	8 August 2007		
70802-O15	8 August 2007		
70802-O16	8 August 2007		
70802-O17	8 August 2007		
70802-R18	8 August 2007		
70802-R19	8 August 2007		

	Name	Signature	Date
Recorded by	Edmond Wu		3 August 2007
Checked by	Dr. Priscilla Choy		3 August 2007

Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	70808
Date	8 August 2007 (Wednesday)
Time	09:00 – 11:45

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
70808-O01	• Exposed slope was observed near STR 9 . The Contractor was recommended to cover it.	B8
70808-O02	• Exposed slope was observed near STR 10(NA) . The Contractor was recommended to cover it.	B8
70808-O03	• Exposed slope was observed near STR 11(NA) . The Contractor was recommended to cover it.	B8
70808-O04	• Exposed slope was observed near RW22 . The Contractor was recommended to cover it.	B8
70808-O05	• Exposed slope was observed near RW20 . The Contractor was recommended to cover it.	B8
70808-O06	• Exposed slope was observed near RW27 . The Contractor was recommended to cover it.	B8
70808-O07	• Exposed slope was observed near RW16 . The Contractor was recommended to cover it.	B8
70808-O08	• Accumulated silt and mud was observed at sedimentation tank near RW22 . The Contractor was recommended to clear the accumulated silt and mud.	B5iii
70808-O09	• Accumulated silt and mud was observed at sedimentation tank near Stream 30 . The Contractor was recommended to clear the accumulated silt and mud.	B5iii
70808-O10	• Stockpile without covering was observed near RW19 . The Contractor was recommended to cover it.	B8
70808-O11	• Exposed soil surface was observed on the platform of STR14 . The Contractor was recommended to provide shotcrete on it.	B8
70808-O12	• Insufficient temporary drainage system was observed at STR 12 (SA) . The Contractor was recommended to improve it.	B1
70808-O13	• Insufficient temporary drainage system was observed at STR 5 . The Contractor was recommended to improve it.	B1
70808-O14	• Insufficient temporary drainage system was observed at STR 12 (NA) . The Contractor was recommended to improve it.	B1
70808-O15	• Insufficient temporary drainage system was observed at STR 10 (Pier) . The Contractor was recommended to improve it.	B1
70808-O16	• Silt and mud on the platform near Stream 27 was observed. The Contractor was recommended to provide sorting on the source of rock to prevent the silt mixed with rock.	B1
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	E. Ecology	
	• No environmental deficiency was identified during site inspection.	
	F. Others	
	• All environmental deficiencies identified in previous audit session were improved/rectified by the Contractor except items (70802-O01, 70802-O02, 70802-O03, 70802-O05, 70802-O06, 70802-O07, 70802-O09, 70802-O10, 70802-O11, 70802-O12, 70802-O13 and 70802-O14). Follow-up action is needed for the outstanding items.	
	• Item 70802-O16 was considered not applicable to the current situation because no rock breaking activity was observed at STR14 (NA) .	

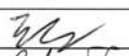
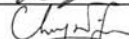
Weekly Site Inspection Record Summary

	Reminders	Related Item No.
70808-R18	The contractor was reminded to implement the following preventive measures: B. Air Quality • Provide watering for rock breaking activity at STR12 (NA) .	C6
70808-R17	D. Waste / Chemical Management • Remove general refuse on Stream 28 .	E1iii

Ref. No.	Tentative Completion date Proposed by the Contractor for Reminders	Completion Date	Remarks
70531-O04	7 June 2007		Refer to 70608-O04
70531-O06	7 June 2007		Refer to 70613-O26
70531-O07	7 June 2007		Refer to 70608-O05
70608-O04	13 June 2007		Refer to 70613-O03
70608-O05	13 June 2007		Refer to 70613-O23
70608-O16	13 June 2007		Refer to 70613-O27
70613-O17	21 June 2007		Refer to 70621-O05
70613-O26	21 June 2007		Refer to 70621-O06
70613-R31	21 June 2007		Refer to 70621-R18
70621-O06	28 June 2007		Refer to 70628-O07
70621-O16	28 June 2007		Refer to 70628-O16
70621-R18	28 June 2007		Refer to 70628-O01
70628-O01	5 July 2007		Refer to 70705-O01
70628-O02	5 July 2007		Refer to 70705-O02
70628-O03	5 July 2007		Refer to 70705-O03
70628-O07	5 July 2007		Refer to 70705-O07
70705-O01	11 July 2007		Refer to 70711-O01
70705-O02	11 July 2007		Refer to 70711-O02
70705-O03	11 July 2007		Refer to 70711-O03
70705-O07	11 July 2007		Refer to 70711-O07
70705-O14	11 July 2007		Refer to 70711-O11
70711-O01	19 July 2007		Refer to 70719-O01
70711-O02	19 July 2007		Refer to 70719-O02
70711-O03	19 July 2007		Refer to 70719-O03
70711-O07	19 July 2007		Refer to 70719-O07
70711-O11	19 July 2007		Refer to 70719-O11
70711-O14	19 July 2007		Refer to 70719-O14
70719-O01	26 July 2007		Refer to 70726-O01
70719-O02	26 July 2007		Refer to 70726-O02
70719-O03	26 July 2007		Refer to 70726-O03
70719-O04	26 July 2007	8 August 2007	Refer to 70726-O04
70719-O07	26 July 2007		Refer to 70726-O07
70719-O10	26 July 2007		Refer to 70726-O09
70719-O11	26 July 2007		Refer to 70726-O12
70719-O14	26 July 2007		Refer to 70726-O05
70719-R18	26 July 2007		Refer to 70726-O13
70726-O01	2 August 2007		Refer to 70802-O01
70726-O02	2 August 2007		Refer to 70802-O02
70726-O03	2 August 2007		Refer to 70802-O03
70726-O04	2 August 2007	8 August 2007	Refer to 70802-O04
70726-O05	2 August 2007		Refer to 70802-O05
70726-O07	2 August 2007		Refer to 70802-O07

Weekly Site Inspection Record Summary

Ref. No.	Tentative Completion date Proposed by the Contractor for Reminders	Completion Date	Remarks
70726-O09	2 August 2007		Refer to 70802-O09
70726-O11	2 August 2007		Refer to 70802-O11
70726-O12	2 August 2007		Refer to 70802-O12
70726-O13	2 August 2007		Refer to 70802-O13
70726-O16	2 August 2007	8 August 2007	Refer to 70802-O16
70726-O17	2 August 2007		Refer to 70802-O10
70726-R19	2 August 2007		Refer to 70802-O17
70802-O01	8 August 2007		Refer to 70808-O15
70802-O02	8 August 2007		Refer to 70808-O02
70802-O03	8 August 2007		Refer to 70808-O03
70802-O04	8 August 2007	8 August 2007	
70802-O05	8 August 2007		Refer to 70808-O04
70802-O06	8 August 2007		Refer to 70808-O05
70802-O07	8 August 2007		Refer to 70808-O06
70802-O08	8 August 2007	8 August 2007	
70802-O09	8 August 2007		Refer to 70808-O07
70802-O10	8 August 2007		Refer to 70808-O10
70802-O11	8 August 2007		Refer to 70808-O11
70802-O12	8 August 2007		Refer to 70808-O12
70802-O13	8 August 2007		Refer to 70808-O13
70802-O14	8 August 2007		Refer to 70808-O14
70802-O15	8 August 2007	8 August 2007	
70802-O16	8 August 2007	8 August 2007	
70802-R17	8 August 2007	8 August 2007	
70802-R18	8 August 2007	-	Considered inapplicable on 8 August 2007
70808-O01	16 August 2007		
70808-O02	16 August 2007		
70808-O03	16 August 2007		
70808-O04	16 August 2007		
70808-O05	16 August 2007		
70808-O06	16 August 2007		
70808-O07	16 August 2007		
70808-O08	16 August 2007		
70808-O09	16 August 2007		
70808-O10	16 August 2007		
70808-O11	16 August 2007		
70808-O12	16 August 2007		
70808-O13	16 August 2007		
70808-O14	16 August 2007		
70808-O15	16 August 2007		
70808-O16	16 August 2007		
70808-R17	16 August 2007		
70808-R18	16 August 2007		

	Name	Signature	Date
Recorded by	Edmond Wu		9 August 2007
Checked by	Dr. Priscilla Choy		9 August 2007

Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	70816
Date	16 August 2007 (Thursday)
Time	09:00 – 11:15

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
70816-O01	• Exposed slope was observed near STR 9 . The Contractor was recommended to cover it.	B8
70816-O02	• Exposed slope was observed near STR 10(NA) . The Contractor was recommended to cover it.	B8
70816-O03	• Exposed slope was observed near RW22 . The Contractor was recommended to cover it.	B8
70816-O04	• Exposed slope was observed near RW27 . The Contractor was recommended to cover it.	B8
70816-O05	• Discharge of site runoff without treatment was observed at STR12 (SA) . The Contractor was recommended to provide treatment of site runoff before discharge.	B1
70816-O06	• Accumulated silt and mud was observed at sedimentation tank near Stream 30 . The Contractor was recommended to clear the accumulated silt and mud.	B5iii
70816-O07	• Exposed soil surface was observed on the platform near STR14 . The Contractor was recommended to provide shotcrete on it.	B8
70816-O08	• Insufficient temporary drainage system was observed at STR 12 (SA) . The Contractor was recommended to improve it.	B1
70816-O09	• Insufficient temporary drainage system was observed at STR 5 . The Contractor was recommended to improve it.	B1
70816-O10	• Insufficient temporary drainage system was observed at STR 12 (NA) . The Contractor was recommended to improve it.	B1
70816-O11	• Insufficient temporary drainage system was observed at STR 10 (Pier) . The Contractor was recommended to improve it.	B1
70816-O12	• Insufficient temporary drainage system was observed at STR 14 (NA) . The Contractor was recommended to improve it.	B1
70816-O14	• Poor efficiency of sedimentation tank was observed near RW15 . The Contractor was recommended to add coagulant in the sedimentation tank to improve the silt removal efficiency.	B5iv
	B. Air Quality	
70816-O13	• Fugitive dust emitted from soil nailing works was observed at RW06 . The Contractor was recommended to implement more dust mitigation measure on soil nailing works.	C6
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	E. Ecology	
	• No environmental deficiency was identified during site inspection.	
	F. Others	
	• All environmental deficiencies identified in previous audit session were improved/rectified by the Contractor except items (70816-O01, 70816-O02, 70816-O04, 70816-O06, 70816-O09, 70816-O11, 70816-O12, 70816-O13, 70816-O14 and 70816-O15). Follow-up action is needed for the outstanding items.	
	• Item 70816-O07 was considered not applicable to the current situation because construction activity was being carried out at RW16. The Contractor was reminded to cover the slope when construction activity was not carried out there.	
	• Item 70816-O10 was considered not applicable to the current situation because construction activity was being carried out at RW19.	

Weekly Site Inspection Record Summary

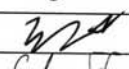

	<ul style="list-style-type: none"> Item 70816-O10 was considered not applicable to the current situation because no rock breaking activity was observed at STR12 (NA) 	
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Reminders		Related Item No.
70816-R15	The contractor was reminded to implement the following preventive measures: B. Air Quality <ul style="list-style-type: none"> Review and provide proper maintenance for backhoe to prevent emission of black smoke. . 	C15

Ref. No.	Tentative Completion date Proposed by the Contractor for Reminders	Completion Date	Remarks
70531-O04	7 June 2007		Refer to 70608-O04
70531-O06	7 June 2007		Refer to 70613-O26
70531-O07	7 June 2007		Refer to 70608-O05
70608-O04	13 June 2007		Refer to 70613-O03
70608-O05	13 June 2007		Refer to 70613-O23
70608-O16	13 June 2007		Refer to 70613-O27
70613-O17	21 June 2007		Refer to 70621-O05
70613-O26	21 June 2007		Refer to 70621-O06
70613-R31	21 June 2007		Refer to 70621-R18
70621-O06	28 June 2007		Refer to 70628-O07
70621-O16	28 June 2007		Refer to 70628-O16
70621-R18	28 June 2007		Refer to 70628-O01
70628-O01	5 July 2007		Refer to 70705-O01
70628-O02	5 July 2007		Refer to 70705-O02
70628-O03	5 July 2007	16 August 2007	Refer to 70705-O03
70628-O07	5 July 2007		Refer to 70705-O07
70705-O01	11 July 2007		Refer to 70711-O01
70705-O02	11 July 2007		Refer to 70711-O02
70705-O03	11 July 2007	16 August 2007	Refer to 70711-O03
70705-O07	11 July 2007		Refer to 70711-O07
70705-O14	11 July 2007		Refer to 70711-O11
70711-O01	19 July 2007		Refer to 70719-O01
70711-O02	19 July 2007		Refer to 70719-O02
70711-O03	19 July 2007	16 August 2007	Refer to 70719-O03
70711-O07	19 July 2007		Refer to 70719-O07
70711-O11	19 July 2007		Refer to 70719-O11
70711-O14	19 July 2007		Refer to 70719-O14
70719-O01	26 July 2007		Refer to 70726-O01
70719-O02	26 July 2007		Refer to 70726-O02
70719-O03	26 July 2007	16 August 2007	Refer to 70726-O03
70719-O07	26 July 2007		Refer to 70726-O07
70719-O10	26 July 2007	-	Refer to 70726-O09
70719-O11	26 July 2007		Refer to 70726-O12
70719-O14	26 July 2007		Refer to 70726-O05
70719-R18	26 July 2007		Refer to 70726-O13
70726-O01	2 August 2007		Refer to 70802-O01
70726-O02	2 August 2007		Refer to 70802-O02
70726-O03	2 August 2007	16 August 2007	Refer to 70802-O03
70726-O05	2 August 2007		Refer to 70802-O05
70726-O07	2 August 2007		Refer to 70802-O07
70726-O09	2 August 2007	-	Refer to 70802-O09
70726-O11	2 August 2007		Refer to 70802-O11
70726-O12	2 August 2007		Refer to 70802-O12
70726-O13	2 August 2007		Refer to 70802-O13

Weekly Site Inspection Record Summary

Ref. No.	Tentative Completion date Proposed by the Contractor for Reminders	Completion Date	Remarks
70726-O17	2 August 2007	-	Refer to 70802-O10
70726-R19	2 August 2007		Refer to 70802-O17
70802-O01	8 August 2007		Refer to 70808-O15
70802-O02	8 August 2007		Refer to 70808-O02
70802-O03	8 August 2007	16 August 2007	Refer to 70808-O03
70802-O05	8 August 2007		Refer to 70808-O04
70802-O06	8 August 2007	16 August 2007	Refer to 70808-O05
70802-O07	8 August 2007		Refer to 70808-O06
70802-O09	8 August 2007	-	Refer to 70808-O07
70802-O10	8 August 2007	-	Refer to 70808-O10
70802-O11	8 August 2007		Refer to 70808-O11
70802-O12	8 August 2007		Refer to 70808-O12
70802-O13	8 August 2007		Refer to 70808-O13
70802-O14	8 August 2007		Refer to 70808-O14
70808-O01	16 August 2007		Refer to 70816-O01
70808-O02	16 August 2007		Refer to 70816-O02
70808-O03	16 August 2007	16 August 2007	
70808-O04	16 August 2007		Refer to 70816-O03
70808-O05	16 August 2007	16 August 2007	
70808-O06	16 August 2007		Refer to 70816-O04
70808-O07	16 August 2007	-	Considered inapplicable on 16 August 2007
70808-O08	16 August 2007	16 August 2007	
70808-O09	16 August 2007		Refer to 70816-O06
70808-O10	16 August 2007	-	Considered inapplicable on 16 August 2007
70808-O11	16 August 2007		Refer to 70816-O07
70808-O12	16 August 2007		Refer to 70816-O08
70808-O13	16 August 2007		Refer to 70816-O09
70808-O14	16 August 2007		Refer to 70816-O10
70808-O15	16 August 2007		Refer to 70816-O11
70808-O16	16 August 2007	16 August 2007	
70808-R17	16 August 2007	16 August 2007	
70808-R18	16 August 2007	-	Considered inapplicable on 16 August 2007
70816-O01	23 August 2007		
70816-O02	23 August 2007		
70816-O03	23 August 2007		
70816-O04	23 August 2007		
70816-O05	23 August 2007		
70816-O06	23 August 2007		
70816-O07	23 August 2007		
70816-O08	23 August 2007		
70816-O09	23 August 2007		
70816-O10	23 August 2007		
70816-O11	23 August 2007		
70816-O12	23 August 2007		
70816-O13	23 August 2007		
70816-O14	23 August 2007		
70816-R15	23 August 2007		

	Name	Signature	Date
Recorded by	Edmond Wu		16 August 2007
Checked by	Dr. Priscilla Choy		16 August 2007

Contract No. HY/2003/19**Improvement to Tung Chung Road Between Lung Tseng Tau and Cheung Sha****Weekly Site Inspection Record Summary****Inspection Information**

Checklist Reference Number	70823
Date	23 August 2007 (Thursday)
Time	09:00 – 11:45

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
70823-O01	• Exposed slope was observed near STR 9 . The Contractor was recommended to cover it.	B8
70823-O02	• Exposed slope was observed near RW02 . The Contractor was recommended to cover it.	B8
70823-O03	• Exposed slope was observed near RW22 . The Contractor was recommended to cover it.	B8
70823-O04	• Exposed slope was observed near RW27 . The Contractor was recommended to cover it.	B8
70823-O05	• Stockpile of soil without covering was observed near RW15 . The Contractor was recommended	B8
70823-O06	• Oil spillage was observed on the haul road near STR8 . The Contractor was recommended to clear the oil.	B22
70823-O07	• Exposed soil surface was observed on the platform near STR14 . The Contractor was recommended to provide shotcrete on it.	B8
70823-O08	• Exposed soil surface was observed on the platform near STR12(SA) . The Contractor was recommended to provide shotcrete on it.	B8
70823-O09	• Insufficient temporary drainage system was observed at STR 5 . The Contractor was recommended to improve it.	B1
70823-O10	• Insufficient temporary drainage system was observed at STR 10 (Pier) . The Contractor was recommended to improve it.	B1
70823-O11	• Insufficient temporary drainage system was observed at STR 14 (NA) . The Contractor was recommended to improve it.	B1
70823-O12	• Poor efficiency of sedimentation tank was observed near RW15 . The Contractor was recommended to add coagulant in the sedimentation tank to improve the silt removal efficiency.	B5iv
70823-O13	• Muddy haul road was observed near STR9 . The Contractor was recommended to clear the mud there.	B1
70823-O14	• Insufficient temporary drainage system was observed near Wong Ka Wai . The Contractor was recommended to improve it.	B1
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	E. Ecology	
	• No environmental deficiency was identified during site inspection.	
	F. Others	
	• All environmental deficiencies identified in previous audit session were improved/rectified by the Contractor except items (70823-O01, 70823-O03, 70823-O04, 70823-O02, 70823-O07, 70823-O08, 70823-O09, 70823-O11, 70823-O12 and 70823-O14). Follow-up action is needed for the outstanding items.	

Contract No. HY/2003/19**Improvement to Tung Chung Road Between Lung Tseng Tau and Cheung Sha****Weekly Site Inspection Record Summary**

Reminders		Related Item No.
70823-R15	The contractor was reminded to implement the following preventive measures: D. Waste / Chemical Management • Remove the C&D waste on Stream 34 .	E4ii

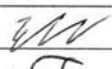

Ref. No.	Tentative Completion date Proposed by the Contractor for Reminders	Completion Date	Remarks
70531-O06	7 June 2007		Refer to 70613-O26
70613-O26	21 June 2007		Refer to 70621-O06
70613-R31	21 June 2007		Refer to 70621-R18
70621-O06	28 June 2007		Refer to 70628-O07
70621-R18	28 June 2007		Refer to 70628-O01
70628-O01	5 July 2007		Refer to 70705-O01
70628-O02	5 July 2007	23 August 2007	Refer to 70705-O02
70628-O07	5 July 2007		Refer to 70705-O07
70705-O01	11 July 2007		Refer to 70711-O01
70705-O02	11 July 2007	23 August 2007	Refer to 70711-O02
70705-O07	11 July 2007		Refer to 70711-O07
70705-O14	11 July 2007		Refer to 70711-O11
70711-O01	19 July 2007		Refer to 70719-O01
70711-O02	19 July 2007	23 August 2007	Refer to 70719-O02
70711-O07	19 July 2007		Refer to 70719-O07
70711-O11	19 July 2007		Refer to 70719-O11
70711-O14	19 July 2007		Refer to 70719-O14
70719-O01	26 July 2007		Refer to 70726-O01
70719-O02	26 July 2007	23 August 2007	Refer to 70726-O02
70719-O07	26 July 2007		Refer to 70726-O07
70719-O11	26 July 2007		Refer to 70726-O12
70719-O14	26 July 2007		Refer to 70726-O05
70719-R18	26 July 2007		Refer to 70726-O13
70726-O01	2 August 2007		Refer to 70802-O01
70726-O02	2 August 2007	23 August 2007	Refer to 70802-O02
70726-O05	2 August 2007		Refer to 70802-O05
70726-O07	2 August 2007		Refer to 70802-O07
70726-O11	2 August 2007		Refer to 70802-O11
70726-O12	2 August 2007		Refer to 70802-O12
70726-O13	2 August 2007		Refer to 70802-O13
70726-R19	2 August 2007		Refer to 70802-O17
70802-O01	8 August 2007		Refer to 70808-O15
70802-O02	8 August 2007	23 August 2007	Refer to 70808-O02
70802-O05	8 August 2007		Refer to 70808-O04
70802-O07	8 August 2007		Refer to 70808-O06
70802-O11	8 August 2007		Refer to 70808-O11
70802-O12	8 August 2007		Refer to 70808-O12
70802-O13	8 August 2007		Refer to 70808-O13
70802-O14	8 August 2007	23 August 2007	Refer to 70808-O14
70808-O01	16 August 2007		Refer to 70816-O01
70808-O02	16 August 2007	23 August 2007	Refer to 70816-O02
70808-O04	16 August 2007		Refer to 70816-O03
70808-O06	16 August 2007		Refer to 70816-O04
70808-O09	16 August 2007	23 August 2007	Refer to 70816-O06
70808-O11	16 August 2007		Refer to 70816-O07
70808-O12	16 August 2007		Refer to 70816-O08
70808-O13	16 August 2007		Refer to 70816-O09

Contract No. HY/2003/19

Improvement to Tung Chung Road Between Lung Tseng Tau and Cheung Sha

Weekly Site Inspection Record Summary

Ref. No.	Tentative Completion date Proposed by the Contractor for Reminders	Completion Date	Remarks
70808-O14	16 August 2007	23 August 2007	Refer to 70816-O10
70808-O15	16 August 2007		Refer to 70816-O11
70816-O01	23 August 2007		
70816-O02	23 August 2007	23 August 2007	
70816-O03	23 August 2007		
70816-O04	23 August 2007		
70816-O05	23 August 2007	23 August 2007	
70816-O06	23 August 2007	23 August 2007	
70816-O07	23 August 2007		
70816-O08	23 August 2007		
70816-O09	23 August 2007		
70816-O10	23 August 2007	23 August 2007	
70816-O11	23 August 2007		
70816-O12	23 August 2007		
70816-O13	23 August 2007	23 August 2007	
70816-O14	23 August 2007		
70816-R15	23 August 2007	23 August 2007	
70823-O01	30 August 2007		
70823-O02	30 August 2007		
70823-O03	30 August 2007		
70823-O04	30 August 2007		
70823-O05	30 August 2007		
70823-O06	30 August 2007		
70823-O07	30 August 2007		
70823-O08	30 August 2007		
70823-O09	30 August 2007		
70823-O10	30 August 2007		
70823-O11	30 August 2007		
70823-O12	30 August 2007		
70823-O13	30 August 2007		
70823-O14	30 August 2007		
70823-R15	30 August 2007		

	Name	Signature	Date
Recorded by	Edmond Wu		23 August 2007
Checked by	Dr. Priscilla Choy		23 August 2007

Contract No. HY/2003/19**Improvement to Tung Chung Road Between Lung Tseng Tau and Cheung Sha****Weekly Site Inspection Record Summary****Inspection Information**

Checklist Reference Number	70830
Date	30 August 2007 (Thursday)
Time	09:00 – 11:45

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
70830-001	A. Water Quality <ul style="list-style-type: none"> Insufficient temporary drainage system was observed near Wong Ka Wai. The Contractor was recommended to improve it. 	B1
70830-002	<ul style="list-style-type: none"> Exposed slope was observed near RW16. The Contractor was recommended to cover it. 	B8
70830-003	<ul style="list-style-type: none"> Stagnant water was observed near STR20. The Contractor was recommended to clear it. 	B11
70830-005	<ul style="list-style-type: none"> Stockpile without covering was observed near STR13 (SA). The Contractor was recommended to cover it 	B8
70830-004	B. Air Quality <ul style="list-style-type: none"> Rock breaking without watering was observed near CH3600 and Shek Mun Kap. The Contractor was recommended to provide watering for rock breaking activity. C. Noise <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. D. Waste / Chemical Management <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. E. Ecology <ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. F. Others <ul style="list-style-type: none"> All environmental deficiencies identified in previous audit session were improved/rectified by the Contractor except items (70823-O14). Follow-up action is needed for the outstanding items 	C6

Tentative Completion date Proposed



Ref. No.	by the Contractor for Reminders	Completion Date	Remarks
70531-O06	7 June 2007	30 August 2007	Refer to 70613-O26
70613-O26	21 June 2007	30 August 2007	Refer to 70621-O06
70613-R31	21 June 2007	30 August 2007	Refer to 70621-R18
70621-O06	28 June 2007	30 August 2007	Refer to 70628-O07
70621-R18	28 June 2007	30 August 2007	Refer to 70628-O01
70628-O01	5 July 2007	30 August 2007	Refer to 70705-O01
70628-O07	5 July 2007	30 August 2007	Refer to 70705-O07
70705-O01	11 July 2007	30 August 2007	Refer to 70711-O01
70705-O07	11 July 2007	30 August 2007	Refer to 70711-O07
70705-O14	11 July 2007	30 August 2007	Refer to 70711-O11
70711-O01	19 July 2007	30 August 2007	Refer to 70719-O01
70711-O07	19 July 2007	30 August 2007	Refer to 70719-O07
70711-O11	19 July 2007	30 August 2007	Refer to 70719-O11
70711-O14	19 July 2007	30 August 2007	Refer to 70719-O14
70719-O01	26 July 2007	30 August 2007	Refer to 70726-O01
70719-O07	26 July 2007	30 August 2007	Refer to 70726-O07
70719-O11	26 July 2007	30 August 2007	Refer to 70726-O12
70719-O14	26 July 2007	30 August 2007	Refer to 70726-O05
70719-R18	26 July 2007	30 August 2007	Refer to 70726-O13

Contract No. HY/2003/19

Improvement to Tung Chung Road Between Lung Tseng Tau and Cheung Sha

Weekly Site Inspection Record Summary

Ref. No.	Tentative Completion date Proposed by the Contractor for Reminders	Completion Date	Remarks
70726-O01	2 August 2007	30 August 2007	Refer to 70802-O01
70726-O05	2 August 2007	30 August 2007	Refer to 70802-O05
70726-O07	2 August 2007	30 August 2007	Refer to 70802-O07
70726-O11	2 August 2007	30 August 2007	Refer to 70802-O11
70726-O12	2 August 2007	30 August 2007	Refer to 70802-O12
70726-O13	2 August 2007	30 August 2007	Refer to 70802-O13
70726-R19	2 August 2007	30 August 2007	Refer to 70802-O17
70802-O01	8 August 2007	30 August 2007	Refer to 70808-O15
70802-O05	8 August 2007	30 August 2007	Refer to 70808-O04
70802-O07	8 August 2007	30 August 2007	Refer to 70808-O06
70802-O11	8 August 2007	30 August 2007	Refer to 70808-O11
70802-O12	8 August 2007	30 August 2007	Refer to 70808-O12
70802-O13	8 August 2007	30 August 2007	Refer to 70808-O13
70808-O01	16 August 2007	30 August 2007	Refer to 70816-O01
70808-O04	16 August 2007	30 August 2007	Refer to 70816-O03
70808-O06	16 August 2007	30 August 2007	Refer to 70816-O04
70808-O11	16 August 2007	30 August 2007	Refer to 70816-O07
70808-O12	16 August 2007	30 August 2007	Refer to 70816-O08
70808-O13	16 August 2007	30 August 2007	Refer to 70816-O09
70808-O15	16 August 2007	30 August 2007	Refer to 70816-O11
70816-O01	23 August 2007	30 August 2007	Refer to 70823-O01
70816-O03	23 August 2007	30 August 2007	Refer to 70823-O03
70816-O04	23 August 2007	30 August 2007	Refer to 70823-O04
70816-O07	23 August 2007	30 August 2007	Refer to 70823-O07
70816-O08	23 August 2007	30 August 2007	Refer to 70823-O08
70816-O09	23 August 2007	30 August 2007	Refer to 70823-O09
70816-O11	23 August 2007	30 August 2007	Refer to 70823-O10
70816-O12	23 August 2007	30 August 2007	Refer to 70823-O11
70816-O14	23 August 2007	30 August 2007	Refer to 70823-O12
70823-O01	30 August 2007	30 August 2007	
70823-O02	30 August 2007	30 August 2007	
70823-O03	30 August 2007	30 August 2007	
70823-O04	30 August 2007	30 August 2007	
70823-O05	30 August 2007	30 August 2007	
70823-O06	30 August 2007	30 August 2007	
70823-O07	30 August 2007	30 August 2007	
70823-O08	30 August 2007	30 August 2007	
70823-O09	30 August 2007	30 August 2007	
70823-O10	30 August 2007	30 August 2007	
70823-O11	30 August 2007	30 August 2007	
70823-O12	30 August 2007	30 August 2007	
70823-O13	30 August 2007	30 August 2007	
70823-O14	30 August 2007		Refer to 70830-O01
70823-R15	30 August 2007	30 August 2007	
70830-O01	6 September 2007		
70830-O02	6 September 2007		
70830-O03	6 September 2007		
70830-O04	6 September 2007		
70830-O05	6 September 2007		

	Name	Signature	Date
Recorded by	Edmond Wu		30 August 2007
Checked by	Dr. Priscilla Choy		30 August 2007

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

Appendix J - Summary of Environmental Mitigation Implementation Schedule

Types of Impacts	Mitigation Measures	Status
<p align="center">Construction Dust</p>	<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
Construction Noise	<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 quite plant and Working Method • Reduce the number of plant operating in critical areas close NSRs. • Construct temporary and movable noise barriers 	<p>^ ^ ^ ^ ^ ^ ^ N/A</p>
Water Quality	<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. • 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>* ^ * * ^ 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>*</p> <p>^</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>N/A</p> <p>N/A</p> <p>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>*</p> <p>^</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>^</p> <p>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>
	<i>General Refuse</i>	
	<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>
	<i>Oil and Fuel</i>	
	<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>
Landscape and Visual Impact	<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 K
EVENT ACTION PLANS

Appendix K – Event Action Plans

Event /Action Plan for Air Quality

EVENT	ACTION			
	ET	IEC	ER	Contractor
<i>Action Level</i>				
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Inform the IEC and the Contractor about the exceedance within 24 hours of identification of exceedance; 2. Identify the source, investigate the causes of exceedance and propose remedial measures; 3. Report the results of the investigation to the Contractor; 4. Prepare Notification of Exceedance (NOE) to inform the Contractor, the IEC, the ER and the EPD within 24 hours of identification of exceedance. 5. Repeat measurement to confirm finding. 6. If exceedance is indicated due to the Project construction works, increase 24-hour TSP monitoring frequency to 1-hour monitoring with 3 times every six days until no exceedance is recorded. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by the ET. 2. Confirm the ET assessment regarding the action and/or limit level exceedance during the impact monitoring; 3. Check Contractor's working method. 	<ol style="list-style-type: none"> 1. Confirm receipt of NOE in writing. 2. Notify EPD and other relevant Government departments within 24 hours of identification of exceedance. 	<ol style="list-style-type: none"> 1. Inform IEC and ER within 24 hours of identification of exceedance; 2. Submit proposals for remedial to ER within 3 working days of notification ET if exceedance is due to the Project construction works; 3. Rectify any unacceptable practice; 4. Amend working methods if appropriate and within reasonable time scale if exceedance is due to the Project construction works.

EVENT	ACTION			
	ET	IEC	ER	Contractor
<i>Action Level</i>				
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Inform the IEC and the Contractor about the exceedance within 24 hours of identification of exceedance; 2. Identify the source. 3. Supervise implementation of remedial measures; 4. Report the results of the investigation to the Contractor; 5. Advise the ER on the effectiveness of the proposed remedial measures; 6. Repeat measurements to confirm findings; 7. Increase monitoring frequency to daily; 8. Discuss with the IEC and the Contractor on remedial actions required; 9. If exceedance continues, arrange meeting with the IEC and the ER. 10. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by the ET; 2. Check the Contractor's working method; 3. Discuss with the ET and the Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of NOE in writing. 2. Notify the EPD and other relevant Government departments within 24 hours of identification of exceedance; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Inform IEC and ER within 24 hours of identification of exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.

EVENT	ACTION			
	ET	IEC	ER	Contractor
<i>Limit Level</i>				
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Notify the IEC and the Contractor within 24 hours of identification of exceedance; 2. Identify the source, investigate the causes of exceedance and propose remedial measures; 3. Prepare Notification of Exceedance (NOE) to inform the Contractor, the IEC, the ER and the EPD within 24 hours of identification of exceedance. 4. Repeat measurement to confirm finding. 5. If exceedance is indicated due to the Project construction works, increase 24-hour TSP monitoring frequency to 1-hour monitoring with 3 times every six days until no exceedance is recorded; 6. Assess effectiveness of Contractor's remedial actions and keep the IEC, the DEP and the ER informed of the results. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by the ET. 2. Check Contractor's working method. 3. Discuss with the ET, the Contractor and the ER on possible remedial measures. 4. Advise the ER on the effectiveness of the proposed remedial measures. 5. Supervise implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of exceedance in writing; 2. Notify EPD and other relevant Government departments within 24 hours of identification of exceedance; 3. Ensure remedial measures are properly implemented. 	<ol style="list-style-type: none"> 1. Inform ER and IEC within 24 hours of identification of exceedance; 2. Take immediate action to avoid further exceedance; 3. Submit proposals for remedial actions to ER and IEC within 3 working days of notification by ET; 4. Implement the agreed proposals; 5. Report effectiveness of remedial actions to IEC and ER; 6. Amend proposal if appropriate.

EVENT	ACTION			
	ET	IEC	ER	Contractor
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Notify the IEC and the Contractor within 24 hours of identification of exceedance; 2. Identify the source; 3. Repeat measurements to confirm findings if the exceedance is due to the Project construction works; 4. Increase monitoring frequency to daily; 5. Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with the IEC and the ER to discuss the remedial actions to be taken; 7. Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP and the ER informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst the ER, ET and the Contractor on the potential remedial actions; 2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify the EPD and other relevant Government departments within 24 hours of identification of exceedance; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures are properly implemented; 5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Inform ER and IEC within 24 hours of identification of exceedance; 2. Take immediate action to avoid further exceedance; 3. Submit proposals for remedial actions to IEC within 3 working days of notification by ET; 4. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 5. Implement the agreed proposals; 6. Resubmit proposals if problem still not under control; 7. Report effectiveness of remedial actions to IEC and ER; 8. Stop the relevant activity of works as determined by the ER until the exceedance is abated.

Note: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative

Event Action Plan for Construction Noise

EVENT	ACTION			
	ET	IEC	ER	Contractor
Action Level	<ol style="list-style-type: none"> 1. Notify the IEC and the Contractor within 24 hours of identification of exceedance. 2. Carry out investigation. 3. Report the results of investigation to the IEC and the Contractor. 4. Prepare Notification of Exceedance (NOE) to inform the Contractor, the IEC, the ER and the EPD within 24 hours of identification of exceedance. 5. Discuss with the Contractor and formulate remedial measures. 6. Increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Review the analysed results submitted by the ET. 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly. 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of NOE in writing. 2. Notify the EPD and other relevant Government departments within 24 hours of identification of exceedance. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC 2. Implement noise mitigation proposals

EVENT	ACTION			
	ET	IEC	ER	Contractor
Limit Level	<ol style="list-style-type: none"> 1. Notify the IEC and the Contractor within 24 hours of identification of exceedance. 2. Identify the source. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency. 5. Prepare Notification of Exceedance (NOE) to inform the Contractor, the IEC, the ER and the EPD within 24 hours of identification of exceedance. 6. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. 7. Inform the IEC, the ER and the DEP the causes & actions taken for the exceedances. 8. Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP and the ER informed of the results. 9. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst the ER, the ET and the Contractor on the potential remedial actions. 2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of NOE in writing. 2. Notify the EPD and other relevant Government departments within 24 hours of identification of exceedance. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to IEC within 3 working days of notification 3. Implement the agreed proposals 4. Resubmit proposals if problem still not under control 5. Stop the relevant activity of works as determined by the ER until the exceedance is abated.

Note: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative

Event / Action Plan for Water Quality

EVENT	ACTION			
	ET	IEC	ER	Contractor
Action Level being exceeded by one sampling day	<ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform the IEC and the Contractor; 4. Prepare Notification of Exceedance (NOE) to inform the Contractor, the IEC, the ER and the EPD with 24 hours of identification of exceedance. 5. Check monitoring data, all plant, equipment and the Contractor's working methods; 6. Discuss mitigation measures with the IEC and the Contractor; 7. Repeat measurement on next day of exceedance. 	<ol style="list-style-type: none"> 1. Discuss with the ET and the Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; 3. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> 1. Discuss with the IEC on the proposed mitigation measures; 2. Make agreement on the mitigation measures to be implemented. 	<ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with the ET and the IEC and propose mitigation measures to the IEC and the ER; 6. Implement the agreed mitigation measures.
Action Level being exceeded by more than one consecutive sampling days	<ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform the IEC and the Contractor; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with the IEC and the Contractor; 6. Ensure mitigation measures are implemented; 7. Prepare to increase the monitoring frequency to daily; 	<ol style="list-style-type: none"> 1. Discuss with the ET and the Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; 3. Assess the 	<p>Discuss with IEC on the proposed mitigation measures;</p> <p>Make agreement on the mitigation measures to be implemented;</p> <p>Access the effectiveness of the implemented mitigation measures.</p>	<ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with the ET and the IEC and propose mitigation measures to the IEC and ER within 3 working days; 6. Implement the agreed mitigation measures.

EVENT	ACTION			
	ET	IEC	ER	Contractor
	8. Repeat measurement on next day of exceedance.	effectiveness of the implemented mitigation measures.		
Limit Level being exceeded by one consecutive sampling day	<ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform the IEC and the Contractor; 4. Prepare Notification of Exceedance (NOE) to inform the Contractor, the IEC, the ER and the EPD with 24 hours of identification of exceedance. 5. Check monitoring data, all plant, equipment and the Contractor's working methods; 6. Discuss mitigation measures with the IEC, the ER and the Contractor; 7. Ensure mitigation measures are implemented; 8. Increase the monitoring frequency to daily until no exceedance of Limit Level. 	<ol style="list-style-type: none"> 1. Discuss with the ET and the Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; 3. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> 1. Discuss with the IEC, the ET and the Contractor on the proposed mitigation measures; 2. Request the Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> 1. Inform the Engineer and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with the ET, the IEC and the ER and propose mitigation measures to the IEC and the ER within 3 working days; 6. Implement the agreed mitigation measures.

EVENT	ACTION			
	ET	IEC	ER	Contractor
Limit Level being exceeded by more than one consecutive sampling days	<ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform the IEC, the Contractor and DEP; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with the IEC, the ER and the Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days. 	<ol style="list-style-type: none"> 1. Discuss with ET and Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; 3. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> 1. Discuss with the IEC, the ET and the Contractor on the proposed mitigation measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Assess the effectiveness of the implemented mitigation measures; 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the works until no exceedance of Limit Level. 	<ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with the ET, the IEC and the ER and propose mitigation measures to the IEC and the ER within 3 working days; 6. Implement the agreed mitigation measures; 7. As directed by the ER, slow down or stop all or part of the construction activities.

**APPENDIX 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	The complaint, which was referred by Resident Site Staff (RSS) to ET on 3 rd November 2006, was raised by a resident living Lantau Island on 17 th October 2006 concerning the Tung Chung Road condition on 16 th October 2006.	Based on the meteorological data extracted from HKO, the total rainfall between 0:45 and 6:45 hours in Lantau was 196 mm with an average intensity of 32.67 mm/hr on 16 th October. 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. 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.	Closed
S72	Lung Tseng Tau Village, Tung Chung	3 Nov 06	The public complaint, which was referred by RSS to ET on 3 rd November 2006, was received by the Integrated Complaint Centre (ICC) on 26 th October 2006 regarding dust nuisance generated from the Project.	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. During site inspections in the month, dust mitigation measures have been implemented by the Contractor; and no observation was recorded during the site inspections. 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.	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 Councilor, 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>	<p>The complaint investigation report was commented</p>

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	The complaint was lodged by Mr. Ho on 6 th August 2007 regarding soil and muddy water from construction site flowing to catchwater at Tung Chung Road and Ting Chung Au near AFCD's Office.		In progress

**APPENDIX M
SUMMARY OF WARNING / 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.

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

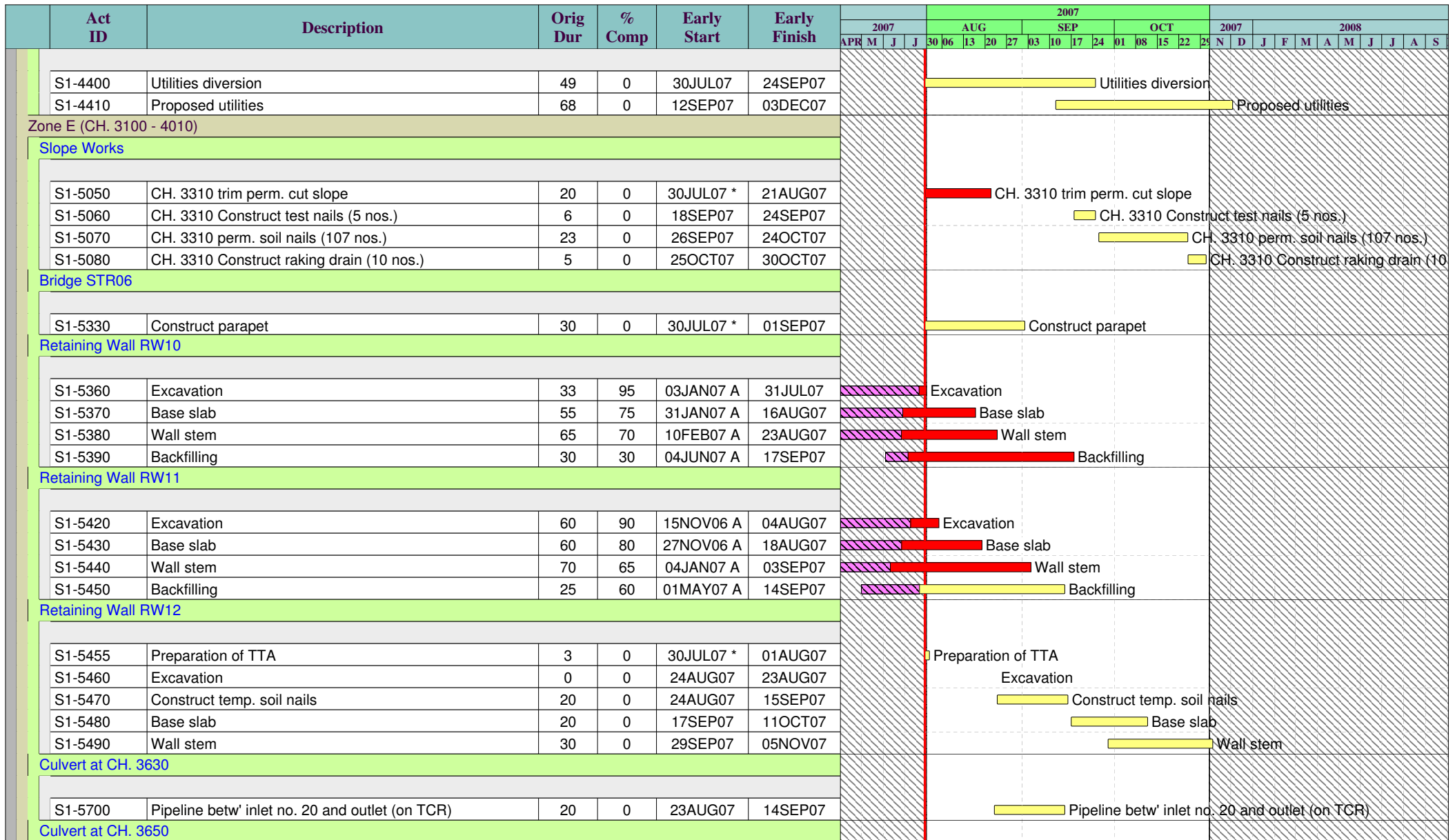
APPENDIX N
CONSTRUCTION PROGRAMME








Act ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2007																											
						2007				AUG				SEP				OCT				2007		2008									
						APR	M	J	J	30	06	13	20	27	03	10	17	24	01	08	15	22	29	N	D	J	F	M	A	M	J	J	A
General																																	
Monthly Monitoring Submission																																	
0470	Waste Management Plan	2364	42	04NOV04 A	25APR11	[Gantt bar: 04NOV04 A to 25APR11]																											
0480	Environment Monitoring and Audit	2364	42	04NOV04 A	25APR11	[Gantt bar: 04NOV04 A to 25APR11]																											
Section 1																																	
Maintenance Access Track																																	
Slope Works																																	
S1-1020	Slope works & toe drainage ch. 0-260	128	80	02APR07 A	28AUG07	[Gantt bar: 02APR07 A to 28AUG07]																											
Roadworks																																	
Road work																																	
S1-1122	Road formation Ch. 0-260	79	90	02APR07 A	06SEP07	[Gantt bar: 02APR07 A to 06SEP07]																											
Zone A (CH. 1000 - 1565)																																	
Water Works																																	
S1-1430	Irrigation pipe	52	80	06NOV06 A	09AUG07	[Gantt bar: 06NOV06 A to 09AUG07]																											
S1-1440	DO watermain	26	0	10AUG07	08SEP07	[Gantt bar: 10AUG07 to 08SEP07]																											
Drainage Works																																	
S1-1450	S19 -SM2	32	0	05SEP07	13OCT07	[Gantt bar: 05SEP07 to 13OCT07]																											
Roadworks																																	
Road work																																	
S1-1505	Road Paving CH0800-1050 (RFI 412)	52	0	20OCT07	19DEC07	[Gantt bar: 20OCT07 to 19DEC07]																											
S1-1525	Road Paving (CH1050-1560 uphill)	35	90	03JUL07 A	18OCT07	[Gantt bar: 03JUL07 A to 18OCT07]																											
S1-1530	Street Furniture	160	0	10SEP07	25MAR08	[Gantt bar: 10SEP07 to 25MAR08]																											
S1-1540	Proposed utilities	160	40	25JUN07 A	21NOV07	[Gantt bar: 25JUN07 A to 21NOV07]																											
Zone B (CH. 1565 - 2130)																																	
Slope Works																																	
S1-2080	Recompact and fill slope (CH. 1755 - 1945)	30	70	07MAY07 A	08AUG07	[Gantt bar: 07MAY07 A to 08AUG07]																											
S1-2090	Top drainage channel (CH. 1755 - 1850)	20	0	09AUG07	31AUG07	[Gantt bar: 09AUG07 to 31AUG07]																											
S1-2100	Bottom drainage channel (CH. 1745 - 1850)	14	0	01SEP07	17SEP07	[Gantt bar: 01SEP07 to 17SEP07]																											
Retaining Wall RW02																																	

Start date	28JUN04		Early bar
Finish date	21JUL15		Progress bar
Data date	30JUL07		Critical bar
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Page number	1A		Summary point
Project name	R1237		Start milestone point
			Finish milestone point
c Primavera Systems, Inc.			

Contract No. HY/2003/19
Improvement to Tung Chung Road
3M Rolling Programme 01.08.2007 to 31.10.2007

Date	Revision	Checked	Approved
30JUL07	3M rolling		



Start date	28JUN04	 Early bar
Finish date	21JUL15	 Progress bar
Data date	30JUL07	 Critical bar
Number/Version	Revision 12	 Summary bar
Page number	4A	 Summary point
Project name	R1237	 Start milestone point
		 Finish milestone point

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Act ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2007																											
						2007			AUG				SEP				OCT				2007		2008										
						APR	M	J	J	30	06	13	20	27	03	10	17	24	01	08	15	22	29	N	D	J	F	M	A	M	J	J	A
S1-6260	Excavation	8	25	04JUN07 A	15OCT07	[Gantt bar: yellow, from 04JUN07 to 15OCT07]																											
S1-6270	Base slab	25	20	28JUN07 A	08NOV07	[Gantt bar: yellow, from 28JUN07 to 08NOV07]																											
S1-6280	Wall stem	25	20	05JUL07 A	20NOV07	[Gantt bar: yellow, from 05JUL07 to 20NOV07]																											
Retaining Wall RW16																																	
S1-6340	Base slab	30	100	20NOV06 A	05JUL07 A	[Gantt bar: pink, from 20NOV06 to 05JUL07]																											
S1-6350	Wall stem	36	100	27NOV06 A	12JUL07 A	[Gantt bar: pink, from 27NOV06 to 12JUL07]																											
S1-6360	Backfilling	15	100	01JUN07 A	26JUL07 A	[Gantt bar: pink, from 01JUN07 to 26JUL07]																											
S1-6365	Proposed utilities installation	15	0	30JUL07	15AUG07	[Gantt bar: red, from 30JUL07 to 15AUG07]																											
Retaining Wall RW17																																	
S2-6390	Excavation	10	70	01JUN07 A	11AUG07	[Gantt bar: yellow, from 01JUN07 to 11AUG07]																											
S2-6400	Temporary works	10	70	01JUN07 A	15AUG07	[Gantt bar: yellow, from 01JUN07 to 15AUG07]																											
S2-6410	Base slab	24	75	01JUN07 A	22AUG07	[Gantt bar: yellow, from 01JUN07 to 22AUG07]																											
S2-6420	Wall stem	24	75	11JUN07 A	29AUG07	[Gantt bar: yellow, from 11JUN07 to 29AUG07]																											
S2-6430	Backfilling	20	0	30AUG07	21SEP07	[Gantt bar: yellow, from 30AUG07 to 21SEP07]																											
Retaining Wall RW39																																	
S1-6480	Trim temporary cut slope	20	100	14JUN07 A	24JUL07 A	[Gantt bar: pink, from 14JUN07 to 24JUL07]																											
S1-6490	Temporary soil nails (200 nos. approx.)	30	0	30JUL07	01SEP07	[Gantt bar: red, from 30JUL07 to 01SEP07]																											
S1-6500	Excavation and temporary lateral support	12	0	03SEP07	15SEP07	[Gantt bar: red, from 03SEP07 to 15SEP07]																											
S1-6510	Base slab	25	0	17SEP07	17OCT07	[Gantt bar: red, from 17SEP07 to 17OCT07]																											
S1-6520	Wall stem	34	0	04OCT07	13NOV07	[Gantt bar: red, from 04OCT07 to 13NOV07]																											
Culvert at CH. 4075																																	
S1-6580	CH. 4075	30	0	30JUL07	01SEP07	[Gantt bar: yellow, from 30JUL07 to 01SEP07]																											
Culvert at CH. 4133																																	
S1-6585	CH. 4133	28	0	03SEP07	06OCT07	[Gantt bar: yellow, from 03SEP07 to 06OCT07]																											
Culvert at CH. 4547 (Additional)																																	
S1-6605	1050 dia. pipe (stage1)	30	100	29JUN07 A	24JUL07 A	[Gantt bar: pink, from 29JUN07 to 24JUL07]																											
S1-6606	1050 dia. pipe (stage2) and inlet chamber	45	0	13OCT07	05DEC07	[Gantt bar: red, from 13OCT07 to 05DEC07]																											
Culvert at CH. 4631																																	
S1-6610	Extended section between RW14 & RW15	40	0	13OCT07	29NOV07	[Gantt bar: yellow, from 13OCT07 to 29NOV07]																											








Start date	28JUN04
Finish date	21JUL15
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c Primavera Systems, Inc.	

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

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30JUL07	3M rolling		

Act ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2007																											
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						APR	M	J	J	30	06	13	20	27	03	10	17	24	01	08	15	22	29	N	D	J	F	M	A	M	J	J	A
Drainage Works																																	
S1-6750	CH. 4500 to 4700	40	0	13OCT07	29NOV07	CH. 4500 to 4700																											
Pump House for Fire Hydrant @ CH. 4398																																	
S1-6890	Construct Pump House	40	50	04APR07 A	11OCT07	Construct Pump House																											
S1-6891	E&M works	30	0	12OCT07	16NOV07	E&M works																											
Transformer Room at CH. 4660																																	
S1-6902	Testing & Commissioning	25	0	09AUG07	06SEP07	Testing & Commissioning																											
Section 2																																	
Zone 1 (CH. 7013 - Outfall)																																	
Water Works																																	
S2-1205	Removal of asbeto cement pipe	128	0	30JUL07 *	31DEC07	Removal of asbeto cement pipe																											
S2-1210	Watermains	61	80	02JAN07 A	11AUG07	Watermains																											
Drainage Works																																	
S2-1225	SM195 - SM196 (additional works)	60	75	16APR07 A	29AUG07	SM195 - SM196 (additional works)																											
S2-1230	Drainage Works	147	100	01NOV06 A	30JUL07	Drainage Works																											
Roadworks																																	
S2-1260	Proposed utilities	162	82	19FEB07 A	31AUG07	Proposed utilities																											
S2-1275	Road paving (South Lantau Road)	73	30	25JUN07 A	05MAR08	Road paving (South Lantau Road)																											
S2-1280	Road Paving (except South Lantau Road)	11	0	30AUG07	11SEP07	Road Paving (except South Lantau Road)																											
Zone 2 (CH. 6595 - 7013)																																	
Bridge STR20																																	
S2-2190	Parapet	30	0	30JUL07 *	01SEP07	Parapet																											
Water Works																																	
S2-2355	Watermains	172	100	01DEC06 A	30JUN07 A	Watermains																											
Drainage Works																																	
S2-2360	Drainage Works	90	90	01NOV06 A	08AUG07	Drainage Works																											
Roadworks																																	

Start date	28JUN04	 Early bar
Finish date	21JUL15	 Progress bar
Data date	30JUL07	 Critical bar
Number/Version	Revision 12	 Summary bar
Page number	7A	 Summary point
Project name	R1237	 Start milestone point
		 Finish milestone point

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30JUL07	3M rolling		

Act ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2007																																																							
						2007				AUG				SEP				OCT				2007		2008																																					
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Road work																																																													
S2-2395	Road Paving (on structure)	10	0	03SEP07	13SEP07																													Road Paving (on structure)																											
S2-2370	Proposed utilities	40	0	09AUG07	24SEP07																													Proposed utilities																											
S2-2400	Street Furnitures	25	0	26SEP07	26OCT07	Street Furnitures																																																							
Zone 3 (CH. 6240 - 6595)																																																													
Bridge STR19																																		S2-3190 Parapet																											
S2-3190	Parapet	30	5	26JUL07 A	31AUG07																													Parapet																											
Bridge STR18																																																													
S2-3320	Parapet	30	0	01SEP07	08OCT07																													Parapet																											
Bridge STR17																																																													
S2-3520	Parapet	30	0	09OCT07	13NOV07																													Parapet																											
Retaining Wall RW30																																																													
S2-3665	Base slab	56	100	19APR07 A	23JUL07 A																													Base slab																											
S2-3670	Wall stem	56	100	21APR07 A	28JUL07 A																													Wall stem																											
S2-3675	Backfilling	30	50	03JUL07 A	15AUG07	Backfilling																																																							
Retaining Wall RW40																																																													
S2-3695	Base slab Bay 1	10	100	23JUL07 A	31JUL07 A																													Base slab Bay 1																											
S2-3700	Wall stem	30	80	23OCT06 A	09AUG07																													Wall stem																											
S2-3705	Backfilling	14	70	05FEB07 A	14AUG07	Backfilling																																																							
Water Works																																																													
S2-3720	Watermain & Firemain	45	0	16AUG07	09OCT07																													Watermain & Firemain																											
Drainage Works																																																													
S2-3725	Underground Drainage	60	0	16AUG07	27OCT07																													Underground Drainage																											
Zone 4 (CH. 5625 - 6240)																																																													
Bridge STR16																																		S2-4230 Bridge Deck																											
S2-4230	Bridge Deck	60	100	01MAY07 A	28JUL07 A																													Bridge Deck																											
S2-4240	Parapet	30	0	30JUL07 *	01SEP07	Parapet																																																							

Start date	28JUN04		Early bar
Finish date	21JUL15		Progress bar
Data date	30JUL07		Critical bar
Number/Version	Revision 12		Summary bar
Page number	8A		Summary point
Project name	R1237		Start milestone point
			Finish milestone point
c Primavera Systems, Inc.			

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Improvement to Tung Chung Road
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30JUL07	3M rolling		








Act ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2007																											
						2007				AUG				SEP				OCT				2007		2008									
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Bridge STR14																																	
S2-4410	Deck with bearing & prestressing	90	75	16APR07 A	12OCT07																												
S2-4420	Cantilever slab	8	0	13OCT07	23OCT07																												
S2-4421	Additional end walls (NS)	40	0	30JUL07	13SEP07																												
S2-4422	Additional end walls (SS)	30	0	24OCT07	27NOV07																												
S2-4430	Parapet	30	0	24OCT07	27NOV07																												
Bridge STR13																																	
S2-4590	North Abument	21	100	29MAY07 A	12JUL07 A																												
S2-4600	Bridge Deck with bearing & prestressing	90	10	16JUL07 A	03NOV07																												
S2-4612	Additional end walls (SS)	36	70	02MAY07 A	26NOV07																												
Bridge STR12																																	
S2-4685	North Abutment	21	100	16JUN07 A	04JUL07 A																												
S2-4700	Pile cap for South Abutment	14	10	09JUL07 A	13AUG07																												
S2-4705	South Abutment	21	0	14AUG07	06SEP07																												
S2-4710	Bridge Deck	65	0	07SEP07	24NOV07																												
Retaining Wall RW27																																	
S2-4765	Base slab	90	70	25SEP06 A	17OCT07																												
S2-4770	Wall stem	90	70	16OCT06 A	17OCT07																												
S2-4775	Backfilling	30	0	29SEP07	05NOV07																												
Retaining Wall RW29																																	
S2-4800	Excavation & temporary support	25	0	22AUG07	19SEP07																												
S2-4805	Base slab	35	0	13SEP07	26OCT07																												
S2-4810	Wall stem	35	0	09OCT07	19NOV07																												
Culvert at CH. 6100																																	
S2-4817	Inlet No. 35 & 1050 dia. pipe	20	0	30JUL07	21AUG07																												
Permanent Soil Nails																																	
S2-4825	East (AKA-AKC) uphill RW27 (53 nos.)	30	0	18OCT07	22NOV07																												
Rockfall Protection System at CH.6100 (RPS7)																																	

Start date	28JUN04	Early bar
Finish date	21JUL15	Progress bar
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Page number	9A	Summary point
Project name	R1237	Start milestone point
		Finish milestone point

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






Act ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2007																											
						2007				AUG				SEP				OCT				2007		2008									
						APR	M	J	J	30	06	13	20	27	03	10	17	24	01	08	15	22	29	N	D	J	F	M	A	M	J	J	A
S2-4930	Delivery of material	100	0	30JUL07	06NOV07	Delivery of material																											
Zone 5 (CH. 4922 - 5625)																																	
Bridge STR09																																	
S2-5230	Parapet	30	0	30JUL07	01SEP07	Parapet																											
Bridge STR09A																																	
S2-5261	Remove dangerous boulders (SI-36 outside S1)	90	70	01MAR07 A	29AUG07	Remove dangerous boulders (SI-36 outside S1)																											
S2-5330	North Abutment	21	100	26JUN07 A	12JUL07 A	North Abutment																											
S2-5360	Bridge Deck	35	0	10SEP07	23OCT07	Bridge Deck																											
S2-5361	Additional end walls (NS)	36	0	30JUL07	08SEP07	Additional end walls (NS)																											
S2-5370	Parapet	30	0	24OCT07	27NOV07	Parapet																											
Bridge STR10																																	
S2-5455	South Abument	21	59	20JUL07 A	08AUG07	South Abument																											
S2-5460	Bridge Deck	70	0	20SEP07	13DEC07	Bridge Deck																											
S2-5461	Additional end walls (NS)	36	0	30JUL07	08SEP07	Additional end walls (NS)																											
S2-5462	Additional end walls (SS)	36	0	09AUG07	19SEP07	Additional end walls (SS)																											
Bridge STR11																																	
S2-5530	Bridge Deck	35	100	01JUN07 A	20JUL07 A	Bridge Deck																											
S2-5531	Additional end walls (NS)	20	0	30JUL07	21AUG07	Additional end walls (NS)																											
S2-5535	Parapet	30	0	22AUG07	26SEP07	Parapet																											
Retaining Wall RW20																																	
S2-5565	Excavation	10	100	01JUN07 A	05JUL07 A	Excavation																											
S2-5570	Temporary works	10	100	01JUN07 A	05JUL07 A	Temporary works																											
S2-5575	Base slab	28	100	05JUN07 A	11JUL07 A	Base slab																											
S2-5580	Wall stem	28	100	11JUN07 A	17JUL07 A	Wall stem																											
S2-5585	Backfilling	14	100	27JUN07 A	30JUL07 A	Backfilling																											
Retaining Wall RW21																																	
S2-5590	Excavation	21	0	24OCT07	16NOV07	Excavation																											
Retaining Wall RW22																																	
S2-5615	Excavation	35	80	06NOV06 A	30AUG07	Excavation																											

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Data date	30JUL07	 Critical bar
Number/Version	Revision 12	 Summary bar
Page number	10A	 Summary point
Project name	R1237	 Start milestone point
		 Finish milestone point

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						2007				AUG				SEP				OCT				2007		2008																
						APR	M	J	J	30	06	13	20	27	03	10	17	24	01	08	15	22	29	N	D	J	F	M	A	M	J	J	A	S						
S2-5620	Temporary works	30	80	16NOV06 A	29AUG07	Temporary works																																		
S2-5625	Base slab	70	80	21NOV06 A	07SEP07	Base slab																																		
S2-5630	Wall stem	70	80	11DEC06 A	07SEP07	Wall stem																																		
S2-5635	Backfilling	30	0	28AUG07	03OCT07	Backfilling																																		
Retaining Wall RW23																																								
S2-5640	Excavation	7	0	22AUG07	29AUG07	Excavation																																		
S2-5645	Temporary work	5	0	30AUG07	04SEP07	Temporary work																																		
S2-5650	Base slab	28	0	05SEP07	09OCT07	Base slab																																		
S2-5655	Wall stem	28	0	10OCT07	12NOV07	Wall stem																																		
Retaining Wall RW24																																								
S2-5665	Excavation	30	0	22AUG07	26SEP07	Excavation																																		
S2-5670	Temporary works	30	0	28AUG07	03OCT07	Temporary works																																		
S2-5675	Base slab	70	0	08SEP07	01DEC07	Base slab																																		
S2-5680	Wall stem	70	0	26SEP07	18DEC07	Wall stem																																		
Culvert at CH. 5039																																								
S2-5710	Inlet No.31 & 1050 dia. pipe	20	0	30JUL07 *	21AUG07	Inlet No.31 & 1050 dia. pipe																																		
Culvert at CH. 5353																																								
S2-5714	Inlet No.33 & 1050 dia. pipe	20	0	08SEP07	03OCT07	Inlet No.33 & 1050 dia. pipe																																		
Permanent Soil Nails																																								
S2-5690	East (AEA-AEE) uphill RW20 (48 nos.)	24	0	30JUL07	25AUG07	East (AEA-AEE) uphill RW20 (48 nos.)																																		
Zone 6 (CH. 4686 - 4922)																																								
Bridge STR08																																								
S2-6236	Additional end walls (NS)	30	0	30JUL07	01SEP07	Additional end walls (NS)																																		
S2-6240	Parapet	30	0	30JUL07	01SEP07	Parapet																																		
Bridge STR07																																								
S2-6340	North Abutment	35	0	30JUL07	07SEP07	North Abutment																																		
S2-6350	Mid Pier	35	5	21JUL07 A	05SEP07	Mid Pier																																		
S2-6360	South Abutment	35	5	18JUL07 A	05SEP07	South Abutment																																		
S2-6371	Additional end walls (NS)	50	0	08SEP07	08NOV07	Additional end walls (NS)																																		

Start date	28JUN04	 Early bar
Finish date	21JUL15	 Progress bar
Data date	30JUL07	 Critical bar
Number/Version	Revision 12	 Summary bar
Page number	11A	 Summary point
Project name	R1237	 Start milestone point
		 Finish milestone point

Contract No. HY/2003/19
Improvement to Tung Chung Road
3M Rolling Programme 01.08.2007 to 31.10.2007

Date	Revision	Checked	Approved
30JUL07	3M rolling		

Act ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2007																																				
						2007							AUG							SEP							OCT							2007		2008						
						APR	M	J	J	30	06	13	20	27	03	10	17	24	01	08	15	22	29	N	D	J	F	M	A	M	J	J	A	S								
S2-6372	Additional end walls (SS)	36	0	06SEP07	20OCT07	Additional end walls (SS)																																				
Retaining Wall RW18																																										
S2-6440	Excavation	30	30	04JUN07 A	22AUG07	Excavation																																				
S2-6450	Temporary works	30	30	04JUN07 A	22AUG07	Temporary works																																				
S2-6460	Base slab	80	20	12JUN07 A	13OCT07	Base slab																																				
S2-6470	Wall stem	100	18	23JUN07 A	12NOV07	Wall stem																																				
S2-6480	Backfilling	90	0	20AUG07	05DEC07	Backfilling																																				
Undefined Section of Works																																										
Zone B (CH. 1565 - 2130)																																										
Straining & Deflection Structure SD 2-5																																										
S1-2410	Piling Works	60	0	23OCT07 *	03JAN08	Piling Works																																				
Straining & Deflection Structure SD 3-6																																										
S1-2445	Demobilization of piling plant	6	0	30JUL07	04AUG07	Demobilization of piling plant																																				
S1-2455	Remobilization of piling plant	6	0	02OCT07	08OCT07	Remobilization of piling plant																																				
S1-2460	Superstructure	50	0	23OCT07	19DEC07	Superstructure																																				
S1-2465	Piling Works (stage 2)	12	0	09OCT07	22OCT07	Piling Works (stage 2)																																				
Flexible Debris Barrier at CH. 1700 (OFB1)																																										
S1-2510	Design	45	0	30JUL07	19SEP07	Design																																				
S1-2520	Submission and approval by GEO	45	0	20SEP07	14NOV07	Submission and approval by GEO																																				
Flexible Debris Barrier at CH. 1800 (OFB2)																																										
S1-2590	Design	45	0	30JUL07	19SEP07	Design																																				
S1-2600	Submission and approval by GEO	45	0	20SEP07	14NOV07	Submission and approval by GEO																																				
Zone C (CH. 2130 - 2725)																																										
Flexible Debris Barrier at CH. 2700 (OFB3)																																										
S1-3720	Design	45	0	30JUL07	19SEP07	Design																																				
S1-3730	Submission and approval by GEO	45	0	20SEP07	14NOV07	Submission and approval by GEO																																				
Rockfall Protection System at CH. 2400 (RPS1)																																										
S1-3790	Design	45	0	30JUL07	19SEP07	Design																																				
S1-3800	Submission and approval by GEO	45	0	20SEP07	14NOV07	Submission and approval by GEO																																				

Start date	28JUN04	Early bar
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Number/Version	Revision 12	Summary bar
Page number	12A	Summary point
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		Finish milestone point

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Act ID	Description	Orig Dur	% Comp	Early Start	Early Finish	2007																																																							
						2007				AUG				SEP				OCT				2007		2008																																					
						APR	M	J	J	30	06	13	20	27	03	10	17	24	01	08	15	22	29	N	D	J	F	M	A	M	J	J	A	S																											
Zone D (CH. 2725 - 3100)																																																													
Flexible Debris Barrier at CH. 2800 (OFB4)																																																													
S1-4530	Design	45	0	30JUL07	19SEP07																													Design																											
S1-4540	Submission and approval by GEO	45	0	20SEP07	14NOV07	Submission and approval by GEO																																																							
Zone F (CH. 4010 - 4686)																																																													
Flexible Debris Barrier at CH. 4600 (OFB5)																																																													
S1-6820	Design	45	0	30JUL07	19SEP07																													Design																											
S1-6830	Submission and approval by GEO	45	0	20SEP07	14NOV07	Submission and approval by GEO																																																							
Zone 4 (CH. 5625 - 6240)																																																													
Permanent Soil Nails																																																													
S2-4830	East (AMA-AMF) uphill RW29 (107 nos.)	60	0	30JUL07	09OCT07																													East (AMA-AMF) uphill RW29 (107 nos.)																											
Zone 5 (CH. 4922 - 5625)																																																													
Permanent Soil Nails																																																													
S2-5695	West (AGA-AGD) downhill RW22 (136 nos.)	70	0	10OCT07	03JAN08																													West (AGA-AGD) downhill R																											
Rockfall Protection System at CH. 5320 (RPS3)																																																													
S2-5885	Design	45	0	30JUL07	19SEP07																													Design																											
S2-5890	Submission & approval by GEO	45	0	20SEP07	14NOV07																													Submission & approval by GEO																											

Start date	28JUN04		Early bar
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APPENDIX O
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 2007

Approved Project Cost: \$688.5 Million

Monthly Summary Waste Flow Table for Year 2007

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 Soil Fill (internal & external)	Reused Rock Fill (internal & external)	Disposed as Public Fill	Metals		Paper/cardboard packaging		Plastic ⁽²⁾		Chemical Waste	Site clearance waste ⁽³⁾	Others, e.g. general refuse
	(a)	(b)	(c)	(d)	(a)-(b)-(c)-(d)	Disposal	Recycle	Disposal	Recycle	Disposal	Recycle	Disposal	Disposal	Disposal
Jan	16.457	0	15.06	0	1.397	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	73.61	1.5
Feb	13.802	0	10.06	2.226	1.496	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	34.21	1.5
Mar	17.263	0	11.58	1.958	2.975	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	173.27	2.0
Apr	10.661	0	9.01	0	0.911	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	84.83	2.2
May	12.585	0	10.156	0	1.555	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	101.24	1.3
Jun	19.608	0	11.02	0	8.588	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	52.51	1.7
Sub-Total	90.376	0	66.89	4.184	16.922	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	519.67	10.2
July	33.497	0	32.21	0	1.287	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	85.11	1.2
Aug	#	0	#	0	1.335	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	50.57	1.8
Sept														
Oct														
Nov														
Dec														
Total	128.873#	0	99.10#	4.184	19.544	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	0	655.35	13.2

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.

to be updated in the next WFT.

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 2007

Approved Project Cost: \$688.5 Million

Summary Table for Work Processes or Activities Requiring Timber for Temporary Works (Year 2007)

Item No.	Description of Works Process or Activity	Justification for Using Timber in Temporary Construction Works	Estimate Quantities of Timber Used (m ³)	Actual Quantities Used (m ³)		Remarks
				Jan	Feb	
1	Formwork for drainage works	Workable – easy to cut, set-up, assemble, fix and dismantle. Flexible – suit different type / size of structure.	300	Jan	24	
				Feb	18	
				Mar	22	
2	Formwork for retaining construction	Reusable – can be reused many times for different structures.	300	Apr	15	
				May	20	
				Jun	17	
3	Formwork for bridge construction		300	Jul	13	
				Aug	11	
				Sep		
4	Formwork for temporary work		300	Oct		
				Nov		
				Dec		
Total Estimated Quantity of Timber Used			300	Total: 140		