



Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel

Monthly EM&A Report (December 2010)

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Maeda - CREC - SELI Joint Venture

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EXECUTIVE SUMMARY

- 1. Drainage Services Department (DSD) has awarded the contract for the Design and Construction of Tsuen Wan Drainage Tunnel (hereafter referred to as the "Project") to Maeda-CREC-SELI Joint Venture (MCSJV). MCSJV has appointed Hyder Consulting Limited (HCL) as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) works in accordance with the Environmental Monitoring and Audit Manual (EM&A Manual) and Environmental Permit (EP). Commencement of the construction work had been notified to the Environmental Protection Department (EPD) in January 2008. This Monthly EM&A Report summarises the EM&A works undertaken in December 2010.
- According to the EM&A Manual, there are four designated air quality monitoring locations, five designated noise monitoring locations and five water quality monitoring locations during the construction phase: (i) Sik Sik Yuen Ho Fung College (ASR 1, NSR 1 and Intake I-1); (ii) Hong Hoi Chee Hong Temple (ASR 3, NSR 3 and Intake I-2); (iii) Squatters (NSR 6 and Intake I-3); (iv) Beach Tower (Long Beach Gardens) (ASR 8, NSR 8 and Outfall O-1); and (v) Greenview Terrace (Block 1) (ASR 9, NSR 9 and Outfall O-1).
- 3. During the non restricted hours, major construction activities undertaken by the Contractor at Tsuen Wan Drainage Tunnel included site cleaning and tidying at I-1, I-2, I-3 and Outfall, drilling, excavation and rock splitting at spiral ramp at Outfall, pre-bored H-pile drilling and soil nailing for CPR box culvert construction at Outfall, TBM (Tunnel boring machine) drilling of the tunnel and mucking out of tunnel spoil at Outfall, removal of sea wall and amour rock for basin scheme at Portion E, drilling and excavation of vortex shaft at I-3, temporary rock dowel drilling and installation at I-3, construction of pre-bored H-Pile for PB Wall at I-3, construction of footing for erecting the tower crane at I-3, drilling, excavation and rock splitting of man access shaft and vortex drop shaft at I-2, preparation work for retaining wall at I-2, pipe jacking at Portion G at I-2, construction of approach channel structure at I-2, erection of temporary steel platform for H-pile wall at Portion G at I-2, cascade and channel modification concrete structure works at I-1, horizontal drilling at I-1, and backfilling of spiral ramp centre void at I-1 within the reporting month.
- 4. No exceedances have been recorded for air quality monitoring during the reporting month.
- 5. No exceedances have been recorded for noise monitoring during the reporting month.
- 6. Exceedances for river water quality monitoring are summarised in the following table:

Parameter	Action Level Exceedance	Limit Level Exceedance
DO	Nil	Nil
Turbidity	Nil	Nil
SS	One record at I-1 on 1 Dec 2010 and one record at I-2 on 31 Dec 2010.	Two records at I-2 on 6 and 24 Dec 2010 and one record at I-3 on 24 Dec 2010.

7. Exceedances for marine water quality monitoring are summarized in the following table:

Parameter	Action Level Exceedance	Limit Level Exceedance
DO	Nil	Nil

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Turbidity	Nil	Nil
SS	Two records at O-1(FT) on 3 and 22 Dec 2010 and one record at O-1(ET) on 24 Dec 2010.	Three records at O-1(FT) on 1, 15 and 29 Dec 2010 and three records at O-1(ET) on 13, 15 and 29 Dec 2010.

- 8. The status of waste generation in the reporting month are:
 - A total of 12,684.6 m³ C&D material was disposed of to public fill at Tuen Mun. A quantity of 595.0 m³ and 4955.0 m³ inert C&D materials were reused in the Contract and other Contracts respectively. Detail information could be referred to Section 5.1.1 of this report.
 - About 56.0 m³ general waste was disposed of to NENT Landfill;
 - About 400.0 kg paper/cardboard was recycled in the reporting month;
 - About 18 kg metal was generated in the reporting month;
 - About 20 kg plastic waste was disposed of in the reporting month; and
 - About 7450.2 kg chemical waste was disposed of in the reporting month.
- 9. In this reporting month, two site inspections and one monthly site audit were carried out by ET and Independent Environmental Checker (IEC) respectively, to ensure proper implementation of environmental mitigation measures specified in the EM&A Manual and compliance with environmental legislation. All observations, which were recorded on the site inspection checklists, were passed to the Contractor together with the ET's recommendations.
- 10. As advised by the Contractor and verified by ET:
 - No non-compliance regarding the site inspection was received in the reporting month;
 - No environmental noise complaint was received during the reporting month; and
 - No summons and prosecution was received in the reporting month.
- 11. The major construction works for the upcoming three months will be:
 - Site cleaning and tidying at I-1, I-2, I-3 and Outfall;
 - TBM drilling of the tunnel and mucking out of tunnel spoil at Outfall;
 - Drilling, excavation and rock splitting at spiral ramp at Outfall;
 - Pre-bored H-pile drilling, excavation and soil nailing for CPR box culvert construction at Outfall;
 - Removal of sea wall and armour rocks for basin scheme at Outfall Portion E;
 - Installation of marine sea wall block and amour rock for basin scheme at Portion E;
 - Construction of PB wall at I-3;
 - Erection of tower crane at I-3;
 - Drilling and excavation of vortex shaft at I-3;
 - Pipe jacking at Portion G at I-2;
 - Construction of retaining wall at I-2;



- Pre-bored H-pile construction for skin wall at Portion G at I-2;
- Construction for skin wall at Portion G at I-2;
- Drilling, excavation and rock splitting of man access shaft and vortex drop shaft at I-2;
- Construction of approach channel structure at I-2;
- Cascade and channel modification concrete structure works at I-1;
- Horizontal drilling at I-1; and
- Backfilling of spiral ramp centre void at I-1.



1 INTRODUCTION

- 1.1.1 The Drainage Services Department (DSD) proposed to construct a tunnel with an internal diameter of 6.5m and a length of 5.13km, with the purpose to alleviate the flooding risk in Tsuen Wan and Kwai Chung.
- 1.1.2 This project is a Designated Project under Schedule 2 Part I Category Q, of the Environmental Impact Assessment Ordinance (EIAO) as part of the proposed Tsuen Wan Drainage Tunnel (TWDT) passes underneath the existing Tai Mo Shan Country Park. An Environmental Impact Assessment (EIA) Study has therefore been undertaken to provide information on the nature and extent of environmental impacts arising from the construction and operation of the proposed designed project and related activities taking place concurrently. From the EIA, the recommendations for monitoring contained herein are made.
- 1.1.3 The Maeda-CREC-SELI Joint Venture (MCSJV) was awarded by DSD with the Contract Design and Construction of Tsuen Wan Drainage Tunnel.
- 1.1.4 Hyder was commissioned by the MCSJV as the Environmental Team (ET) to implement an EM&A programme in accordance with the EM&A Manual. The proposed tunnel section flows from the junction of Shing Mun Road and Wo Yi Hop Road and discharges to south of Yau Kom Tau underneath Castle Peak Road as shown in Appendix A.
- 1.1.5 The construction works of the Project was commenced in January 2008. This is the thirty-third monthly EM&A report summarising the impact monitoring results and audit findings of the EM&A program in December 2010.



2 PROJECT INFORMATION

2.1 Project Organization and Management Structure

2.1.1 The organization chart and lines of communication with respect to the on-site environmental management are shown in Appendix B.

2.2 Construction Progress

- 2.2.1 The overall project programme from the detail design to completion of all civil works shall take approximately 54 months. The construction programme is presented in Appendix C.
- 2.2.2 The major construction activities undertaken in the reporting month were:
 - Site cleaning and tidying at I-1, I-2, I-3 and Outfall;
 - Drilling, excavation and rock splitting at spiral ramp at Outfall;
 - Pre-bored H-pile drilling and soil nailing for CPR box culvert construction at Outfall;
 - TBM drilling of the tunnel and mucking out of tunnel spoil at Outfall;
 - Removal of sea wall and amour rock for basin scheme at Portion E;
 - Drilling and excavation of vortex shaft at I-3;
 - Temporary rock dowel drilling and installation at I-3;
 - Construction of pre-bored H-Pile for PB Wall at I-3;
 - Construction of footing for erecting the tower crane at I-3;
 - Drilling, excavation and rock splitting of man access shaft and vortex drop shaft at I-2;
 - Preparation work for retaining wall at I-2;
 - Pipe jacking at Portion G at I-2;
 - Construction of approach channel structure at I-2;
 - Erection of temporary steel platform for H-pile wall at Portion G at I-2;
 - Cascade and channel modification concrete structure works at I-1;
 - Horizontal drilling at I-1; and
 - Backfilling of spiral ramp centre void at I-1.



- 2.2.3 Marine dredging for basin scheme at Portion E was conducted in December 2010. The daily marine mud dredging rate, as confirmed by the Contractor, was from 104 to 276 m³.
- 2.2.4 No open construction activities were undertaken for TWDT during the restricted hours.

2.3 Mitigation Measures

2.3.1 The implemented environmental mitigation measures and their statuses are given in Appendix D.

2.4 Status of License and Permit

2.4.1 A summary of relevant permits and licences for the Project is given in Appendix E.



3 SUMMARY OF EM&A REQUIREMENT

3.1 Air Quality

Air Quality Parameters

3.1.1 One-hour total suspended particulates (TSP) levels were measured at the designated air monitoring locations in accordance with the EM&A Manual. Information such as date of monitoring, duration, weather condition, equipment used and monitoring results were recorded on the field data sheet developed for the Project. The monitoring results are presented in Section 4.

Monitoring Methodology

- 3.1.2 One-hour TSP monitoring was carried out under typical weather conditions (with no adverse weather such as typhoon signal or rain storm warning) three times every six days using High Volume Air Samplers (HVASs). Monitoring was conducted in accordance with the standard sampling method as set out in High Volume Method for Total Suspended Particulates, Part 50 Chapter 1 Appendix B, Title 40 of the Code of Federal Regulations of the USEPA.
- 3.1.3 After each sampling, the filter paper loaded with dust was kept in a clean and tightly sealed plastic bag. The filter paper was then re-conditioned in desiccators for 24 hours before obtaining the weight under laboratory conditions.
- 3.1.4 The average concentrations of the TSP were calculated based on the following information obtained from monitoring:
 - Flow rate;
 - Weight of the filter paper before and after sampling; and
 - Sampling period indicated by the elapsed-time meter.
- 3.1.5 All samples were kept in good condition (i.e. stored in sealed plastic bags, with brief description of the monitoring dates and locations) for a period of 6 months before disposal. Sample analysis was carried out by ALS Technichem (HK) Pty Limited (HOKLAS Registration Number 066).

Monitoring Equipment and Calibration

- 3.1.6 High Volume Air Samplers (HVASs) were used for 1-hour TSP monitoring to comply with the USEPA specifications in Appendix B Part 5 - Reference Method for the Determination of Suspended Particulate matter in the Atmosphere (High-Volume Method) of the Code of Federal Regulation dated June 1, 1991.
- 3.1.7 All HVASs were calibrated before commencement of monitoring using standard orifice 5points calibration method with orifice calibrator to determine the actual flow rate of each HVAS. This was used for the calculation of the TSP level. Calibration Kit Model -TE5025A was used for calibration of the HVAS. Recalibration of the HVAS was carried out after motor maintenance, at least once every six months, which was about the expected life of carbon brush. The air quality monitoring equipment used during the



reporting month is shown in Table 3-1 below. The calibration certificates are included in Appendix F.

Equipment Type	Model	Serial Number	Calibration Orifice Number	Location
HVAS	BM2000HX	4994	1785	ASR 1
HVAS	BM2000HX	5875	1785	ASR 3
HVAS	TE5005X	1059	1785	ASR 8
HVAS	TE5005X	1713	1785	ASR 9

 Table 3-1
 Air Quality Monitoring Equipment

Monitoring Location

3.1.8 Four designated air quality-monitoring locations were identified in the contract specific EM&A manual. They are listed in Table 3-2 below and shown in Appendix G.

Monitoring Station ID	Name of Premises	Floor Level
ASR1	Sik Sik Yuen Ho Fung College	G/F
ASR3	Hong Hoi Chee Hong Temple	Podium
ASR8	Beach Tower (Long Beach Gardens)	G/F
ASR9	Greenview Terrace (Block 1)	G/F

 Table 3-2
 Air Quality Monitoring Locations

Action and Limit Levels

3.1.9 The Action and Limit Levels for the 1-hour TSP monitoring is shown in Table 3-3. In case exceedances of Action and/or Limit levels for air quality occur, Event Contingency Plans (ECPs) would be implemented. The ECPs for Action and Limit levels exceedances are shown in Table 3-4.

Station	1-hour TSP Level in µg/n	1-hour TSP Level in μg/m ³		
	Action Level	Limit Level		
ASR 1	307	500		
ASR 3	327	500		
ASR 8	337	500		
ASR 9	329	500		

Table 3-3 Action & Limit Levels for Air Quality



	ACTION				
EVENT	ET	IEC	SOR	CONTRACTOR	
ACTION LEVEL					
Exceedance for one sample	investigate the causes of	 Check monitoring data submitted by ET; Check Contractor's working method. 	• Notify Contractor.	 Rectify any unacceptable practice; Amend working methods if appropriate. 	
Exceedance for two or more consecutive samples	 Inform IEC and SOR; Advise SOR on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial to SOR within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. 	
Exceedance for o sample	ne • Identify source, investigate the causes of exceedance and propose remedial measures;	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working 	

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	ACTION			
EVENT	ET	IEC	SOR	CONTRACTOR
	 Inform IEC, SOR, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SOR informed of the results. 	 measures; Advise SOR on the effectiveness of the proposed remedial measures; 	measures properly implemented.	 days of notification; Implement the agreed proposals; Amend proposal if appropriate.
	 Notify IEC, SOR, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and SOR to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SOR informed of the results; If exceedance stops, cease additional 	Contractor on the potential remedial actions; • Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise SOR accordingly; • Supervise the implementation of remedial measures.	 Confirm receipt of notification of exceedance in writing; Notify Contractor; In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by SOR until the exceedance is abated.

Table 3-4 Event/Action Plan for Air Quality



3.2 Noise

Noise Parameters

- 3.2.1 The construction noise level was measured in terms of equivalent A-weighted sound pressure level (L_{eq}) measured in decibels (dB(A)). Monitoring of L_{eq(30 min)} was carried out at the noise monitoring locations on a weekly basis during normal construction working hours (0700-1900 hours from Monday to Saturday except public holidays). For all other time periods (i.e. restricted hours), L_{eq(5 min)} would be employed for comparison with the Noise Control Ordinance (NCO) criteria if necessary.
- 3.2.2 The two statistical sound levels L₁₀ and L₉₀, the level exceeded for 10 and 90 percent of the time respectively, were also recorded during monitoring. Major noise sources observed, both on-site and off-site, were recorded on the field data sheet. All measurements were recorded to the nearest 0.1 dB(A) and presented in round numbers in this report. Results are presented in Section 4.

Monitoring Methodology

- 3.2.3 Sound level meters, which comply with the International Electrotechnical Commission Publication 651:1979 (Type 1) and 804:1985 (Type 1) specifications as referred to the Technical Memorandum (TM) issued under the Noise Control Ordinance, were used. Noise levels for the A-weighted levels $L_{eq(30 min)}$, L_{10} and L_{90} were measured throughout the impact monitoring. An average, by sound power, of six consecutive 5 minutes readings was used to provide $L_{eq(30 min)}$ for non-restricted hours (07:00-19:00 hours from Monday to Saturday except public holidays). A facade correction of 3dB(A) was applied to the measurements that were carried out under free field conditions.
- 3.2.4 During the impact monitoring, parameters such as dates, weather condition, equipment used, measurement results and major noise sources were recorded on the field data record sheet. Monitoring would not be carried out in the presence of fog, rain or strong wind with a steady speed exceeding 5 m/s. In relation to the monitored noise levels, other noise sources such as road traffic might make a significant contribution to the overall noise environment. Therefore, noise monitoring activities would take into account such influencing factors, which were not present during the baseline monitoring period.

Monitoring Equipment and Calibration

- 3.2.5 Rion Precision Sound Level Meters of Type NL-31 and B&K Integrating Sound Level Meter of Type 2238 in compliance with the International Electrotechnical Commission Publication specifications (Paragraph 3.2.3) were used for noise monitoring in this reporting month.
- 3.2.6 Prior to and following each noise measurement, the accuracy of the sound level meters was checked using an acoustic calibrator (B&K 4231) generating a known sound pressure level at a known frequency. Measurements were considered as valid only if the calibration levels from before and after the noise measurement agreed to within 1.0 dB(A). Sound level meters and calibrators were calibrated annually to ensure they performed to the same level of accuracy as stated in the manufacturer's specifications.



The noise monitoring equipments used during the reporting month are shown in Table 3-5 below. The calibration certificates are included in Appendix F.

Equipment Type	Manufacturer	Type Number	Serial Number	Location
Sound Level Meter	Rion	NL-31	00410224	NSR1, NSR3,
Sound Level Meter	B&K	2238	2562782	NSR6, NSR8 and NSR9
Sound Level Meter	B&K	2238	2448529	
Sound Level Calibrator	B&K	4231	2699361	

Table 3-5 Noise Monitoring Equipment

Monitoring Location

3.2.7 Five designated noise monitoring locations were identified in the contract specific EM&A manual. They are listed in Table 3-6 below and shown in Appendix G. All the locations below are in façade measurement.

Monitoring Station ID	Name of Premises	Floor Level
NSR1	Sik Sik Yuen Ho Fung College	G/F
NSR3	Hong Hoi Chee Hong Temple	Podium
NSR6	Squatters	G/F
NSR8	Beach Tower (Long Beach Gardens)	G/F
NSR9		Podium (up to 6 July2009)
	Greenview Terrace (Block 1)	Roof* (since 16 July 2009)

* The noise monitoring location of NSR9 had been adjusted to rooftop since 16 July 2009.

Table 3-6 Noise Monitoring Locations

Construction Groundborne Noise

- 3.2.8 Prediction of construction groundborne noise indicates the criteria will be achieved at most NSRs except exceedances are predicted at Hong Hoi Chee Hong Temple (NSR3) and Squatters (NSR6). It is recommended to restrict the TBM operation in non-restricted period (i.e. 0700 1900 hours) at these NSRs. In order to ensure proper control of groundborne noise is executed by the contractor, a monitoring requirement is recommended at the Hong Hoi Chee Hong Temple at Intake 2 and Squatters at Intake 3 for compliance checking. According to the monitoring schedule, TBM operation will be carried out for about 3 months in the vicinity of Hong Hoi Chee Hong Temple at Intake 2 and Squatters at Intake 3. If groundborne noise criterion is exceeded, the monitoring shall continue daily until acceptance has been restored against the criterion. Otherwise the monitoring can be discontinued.
- 3.2.9 The criteria including Technical Memorandum for the Assessment of Noise from Places other than Domestic Premises, Public Places or Construction Sites (TM-Places) under



the NCO stipulates that noise transmitted primarily through the structural elements of building, or buildings, shall be 10 dB(A) less than the relevant ANLs. Daytime groundborne construction noise criterion of 60 dB(A) therefore applies with reference to TM-EIAO 70 dB(A) criterion for schools and taking account of the minus 10 dB(A) requirement under the NCO TM-Places. Following the same principle for groundborne noise criteria, groundborne construction noise levels inside domestic premises relying on opened window for ventilation will be limited to 65 dB(A), with reference to the daytime airborne noise criterion of 75 dB(A) in accordance with TM-EIAO.

Action and Limit Levels

3.2.10 The Action and Limit levels for construction noise are defined in Table 3-7. If noncompliance of the criteria occurs, actions in accordance with the Action Plan in Table 3-8 would be carried out.

Time Period	Action	Limit
0700 – 1900 hours on normal weekdays	When one documented complaint is received	75 dB(A)*
For educational establishments the limit	level shall be 70 dB(A) and reduced to	h = 65 dB(A) during

For educational establishments the limit level shall be 70 dB(A) and reduced to 65 dB(A) during examination periods between 0700-1900 hours on normal weekdays.

Friend	Action			
Event	ET Leader	IEC	SOR	Contractor
Action Level	 Notify IEC and the Contractor. Carry out investigation. Report the results of investigation to IEC and the Contractor. Discuss with the Contractor and formulate remedial measures. Increase monitoring frequency to check mitigation measures. 	 Review with analysed results submitted by ET. Review the proposed remedial measures by the Contractor and advise SOR accordingly. Supervise the implement of remedial measures. 	 notification of exceedance in writing. Notify the Contractor. Require the Contracto to propose remedial measures for the analysed noise problem. 	• Implement noise r mitigation proposals.
Limit Level	 Identify the source. Notify IEC, SOR, EPD and the Contractor. Repeat measurement to confirm findings. Increase monitoring 	 Discuss amongst SOR, ET Leader and the Contractor on the potential remedial actions. Review the Contractor's remedial 	 Confirm receipt of notification of exceedance in writing. Notify the Contractor. Require the Contracto to propose remedial measures for the 	Submit proposals for

Table 3-7 Action & Limit Levels for Noise

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Ennet	Action				
Event	ET Leader	IEC	SOR	Contractor	
	frequency. • Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented.	actions whenever necessary to assure their effectiveness and advise SOR accordingly. • Supervise the implementation of	 analysed noise problem. Ensure remedial measures are properly implemented. If exceedance continues, consider 	 Implement the agreed proposals. Resubmit proposals if problem still not under control. Stop the relevant activity of works as 	
	 Inform IEC, SOR, and EPD the causes and actions taken for the exceedances. Assess effectiveness 	remedial measures.	what activity of the work is responsible and instruct the Contractor to stop that activity of work until	determined by the SOR until the exceedance is abated at	
	of the Contractor's remedial actions and keep IEC, EPD and SOR informed of the results.		remedial actions and abated. keep IEC, EPD and SOR informed of the	the exceedance is abated.	
	 If exceedance stops, cease additional monitoring. 				

 Table 3-8
 Event/Action Plan for Noise

Action

3.3 Water Quality

3.3.1 The water quality impact would be insignificant with the protection measures recommended in Section 5.6 of the EIA report. However in view of the sensitive nature of the rivers/streams and bathing beaches in the Study Area, it is suggested that a programme of monitoring should be established to confirm the mitigation measures are protecting these water bodies.

Water Quality Parameters

- 3.3.2 Monitoring for Dissolved Oxygen (DO), temperature, turbidity, pH and suspended solids (SS) should be undertaken at designated monitoring locations. It should be noted that DO, temperature, turbidity and pH should be measured in-situ whereas SS is assayed in a laboratory.
- 3.3.3 In association with the water quality parameters, other relevant data should also be measured, such as monitoring location/position, time, weather conditions, and any special phenomena and description of work underway at the construction site etc.



Monitoring Methodology

- 3.3.4 In accordance with the EM&A Manual, the water quality monitoring for all specified parameters were measured at all designated monitoring locations including control points at an interval of 3 days per week. DO, temperature, turbidity, pH and SS measurements were undertaken at designated monitoring locations.
- 3.3.5 It should be noted that water samples for all monitoring parameters were collected, stored, preserved and analysed according to Standard Methods, APHA 17 ed. and/or methods agreed by the Director of Environmental Protection.
- 3.3.6 Each sample was analysed in accordance with the APHA Standard Methods for the Examination of Water and Wastewater, 18th edition, or an equivalent method approved by the EPD. In any circumstance, the sample testing should comply with a comprehensive quality assurance and quality control programme. The laboratory should be prepared to demonstrate the quality programmes to the EPD when requested.

Monitoring Equipment and Calibration

3.3.7 All the water samples collected were transferred to clearly labelled and pre-cleaned sample containers with necessary preservatives immediately after collection. The sample containers were provided by a HOKLAS accredited laboratory. About 1 L of samples was collected for all laboratory analysis. Following sampling, samples should be stored in a cool box at temperature between 0 and 4 °C, and transported to the laboratory within the sample retention time as advised by the laboratory under proper chain-of-custody system. The water quality monitoring equipment used during the reporting month is shown in Table 3-9 below.

Equipment Type	Manufacturer	Model	Quantity
pH Meter / DO / Temperature Meter	WTW	PH/Oxi 340i	1
Turbidimeter	EUTECH	TN-100	1

Table 3-9 Water Quality Monitoring Equipment

3.3.8 All pH meters, DO meters and turbidimeters were checked and calibrated prior to use. DO meters and turbidimeters were calibrated by a laboratory accredited under HOKLAS or any other international accreditation scheme, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes were checked with certified standard solutions before each use. Wet bulb calibrations for all DO meters were carried out before measurement at each monitoring location. For the on-site calibration of field equipment, BS 127:1993, "Guide to field and on-site test methods for the analysis of waters" was observed. The calibration certificates are included in Appendix F.

Monitoring Location

3.3.9 Five designated impact monitoring locations (three river stations and two marine stations) and five control locations (three river control stations and two marine stations) were



identified in the contract specific EM&A Manual for river and marine water quality monitoring. These monitoring stations are listed in Table 3-10 below and shown in Appendix G.

Monitoring Station ID Name of Premises

River	
I-1	Intake I-1
I-1-C	Control of Intake I-1
I-2	Intake I-2
I-2-C	Control of Intake I-2
I-3	Intake I-3
I-3-C*	Control of Intake I-3
Marine	
O-1 (FT) and (ET)	Outfall 1During Flood Tide and Ebb Tide
O-1-C (FT)	Control of Outfall O-1 During Flood Tide
O-1-C (ET)	Control of Outfall O-1 During Ebb Tide

The upper stream location (I-3-C) had been relocated from end of February 2009 due to coarse stone blockage.

Table 3-10 Water Quality Monitoring Locations

3.3.10 Note that there were two control stations for Outfall O-1, one for sampling during flood tide and one for sampling during ebb tide. Only one of those control stations for Outfall O-1 was sampled during each sampling. Control station to be sampled was determined based on the tidal information provided by the Hong Kong Observatory.

Action and Limit Levels

3.3.11 The Action and Limit levels for water quality monitoring parameters are defined in Table 3-11. In case of any exceedance, appropriate actions would be undertaken in accordance with the Event and Action Plan as described in Table 3-12.



Parameters	Action	Limit
DO in mg/l	Surface and Middle	Surface and Middle
(Surface, Middle and	5%-ile of baseline data for surface	4mg/l except 5mg/l for FCZ or
Bottom)	and middle layer.	1%-ile of baseline data for surface and middle layer
	Bottom	Bottom
	5%-ile of baseline data for bottom layer.	2mg/l or 1%-ile of baseline data for bottom layer
SS in mg/l	95%-ile of baseline data or 120% of	99%-ile of baseline or 130% of
(depth-averaged)	upstream control station's SS at the same tide of the same day	upstream control station's SS at the same tide of the same day and specific sensitive receiver water quality requirements (e.g. required suspended solids levels for concerned sea water intakes)
Turbidity (Tby) in NTU	95%-ile of baseline data or 120% of	99%-ile of baseline or 130% of
(depth-averaged)	upstream control station's Tby at the same tide of the same day	upstream control station's Tby at the same tide of the same day

Notes:

- For DO, non-compliance of the water quality limits occurs when monitoring result is lower than • the limit.
- For SS and Tby, non-compliance of the water quality limits occurs when monitoring result is • higher than the limits.
- All the figures given in the table are used for reference only and the EPD may amend the figures ٠ whenever it is considered necessary.

Table 3-11 Action/Limit Levels for Water Quality



Event	ET Leader	IEC	SOR	Contractor
Action Level being exceeded by one sampling day	 Repeat in-situ measurement to confirm finding; Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; and Repeat measurement on next day of exceedance. 	Contractor on the mitigation measures • Review proposals on mitigation measures submitted by Contractor and advise the SOR accordingly; and • Assess the	and • Make agreement on the mitigation measures to be implemented.	confirm notification
Action Level being exceeded by more than one consecutive sampling day	 Repeat in-situ measurement to confirm finding; Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; and Repeat 	 Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SOR accordingly; and Assess the effectiveness of the implemented mitigation measures. 	 Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; and Assess the effectiveness of the implemented mitigation measures. 	 Inform the Engineer and confirm notification of the non- compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and SOR within 3 working days; and Implement the agreed mitigation measures.

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Event	ET Leader	IEC	SOR	Contractor
	measurement on next day of exceedance.			
Limit Level being exceeded by one sampling day	 Repeat in-situ measurement to confirm finding; Identify source(s) of impact; Inform IEC, Contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, SOR and Contractor; Ensure mitigation measures are implemented; and Increase the monitoring frequency to daily until no exceedance of Limit level. 	 Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SOR accordingly; and Assess the effectiveness of the implemented mitigation measures. 	 Discuss with IEC, ET and Contractor on the proposed mitigation measures; and Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; and Assess the effectiveness of the implemented mitigation measures. 	 Inform the Engineer and confirm notification of the non- compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and SOR and propose mitigation measures to IEC and SOR within 3 working days; and Implement the agreed mitigation measures.
Limit Level being exceeded by more than one consecutive sampling day	 Repeat in-situ measurement to confirm finding; Identify source(s) of impact; Inform IEC, Contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with 	 Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SOR accordingly; and Assess the effectiveness of the implemented mitigation 	 Discuss with IEC, ET and Contractor on the proposed mitigation measures; and Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of 	 Inform the SOR and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and SOR

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Event	ET Leader	IEC	SOR	Contractor
	 IEC, SOR and Contractor; Ensure mitigation measures are implemented; and Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. 	measures.	the implemented mitigation measures; and • Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit Level.	 and propose mitigation measures to IEC and SOR within 3 working days; Implement the agreed mitigation measures; and As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities.

Table 3-12 Event/Action Plan for Water Quality



4 MONITORING RESULT

4.1 Air Quality

4.1.1 The air quality monitoring schedule of the reporting period is given in Appendix H.

1-hour TSP Monitoring

4.1.2 Results of 1-hours TSP level are shown in Table 4-1. All measurements were recorded to the nearest 0.1 μ g/m³ and presented in round numbers in this report. Detail results including weather conditions, and graphical presentations are presented in Appendix I.

Station	Monitoring Date	Monitoring Result (μg/m³)	Action/Limit Levels (μg/m³)
		200.5	
	01-Dec-10	177.7	_
		195.4	_
		241.1	
	07-Dec-10	144.7	
		218.3	
		253.8	
	13-Dec-10	152.3	
ASR 1		176.4	
AGITT		73.6	
	17-Dec-10	99.0	_
		86.3	
		116.8	
	23-Dec-10	109.1	_
		92.6	
		43.2	
	29-Dec-10	35.5	_
		35.5	
		114.3	
	01-Dec-10	117.9	
		134.7	
		179.2	
ASR 3	07-Dec-10	145.5	327/500
AOK 3		230.9	
		194.8	
	13-Dec-10	193.6	
		205.7	
	17-Dec-10	114.3	

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Station	Monitoring Date	Monitoring Result (μg/m³)	Action/Limit Levels (µg/m ³)
		98.6	
		77.0	_
		122.7	
	23-Dec-10	120.3	_
		89.0	_
		26.5	
	29-Dec-10	34.9	
		49.3	_
		202.3	
	01-Dec-10	198.4	
		227.4	
		190.4	
	07-Dec-10	167.9	
		235.4	_
		109.8	
	13-Dec-10	197.0	_
		197.0	
ASR 8	17-Dec-10	144.1	- 337/500
		84.6	_
		138.8	—
		153.4	
	23-Dec-10	141.5	_
		125.6	
		30.4	
	29-Dec-10	47.6	_
		194.4	
		166.9	
	01-Dec-10	219.9	
		238.9	
		237.5	
	07-Dec-10	195.4	_
		263.3	—
		176.4	_
ASR 9	13-Dec-10	215.8	329/500
		194.1	
		223.9	
	17-Dec-10	118.1	_
	17 200 10	115.4	_
		218.5	_
	23-Dec-10		
		<u> </u>	

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Station	Monitoring Date	Monitoring Result (μg/m³)	Action/Limit Levels (μg/m ³)
		49.8	
	29-Dec-10	166.9	
		48.9	
Note: Italic indicates t	the occurrence of exceedance of A	ction level	

Bold indicates the occurrence of exceedance of Limit Level

Table 4-1 Air Quality Monitoring Results

4.1.3 No project related air quality exceedance was recorded in the reporting month.

4.2 Noise

4.2.1 The noise monitoring schedule of the reporting period is given in Appendix H. In response to the two complaints on construction noise received on 17 November 2010, additional noise measurements were conducted at NSR 9 on 9 and 15 December 2010. Results of measured noise level, in terms of $L_{eq (30min)}$, during the construction are shown in Table 4-2. All measurements including L_{10} and L_{90} are recorded to the nearest 0.1 dB(A) and presented in round numbers in this report. Detailed results including weather conditions and graphical presentation are presented in Appendix I.

Station	Monitoring Date	L _{eq (30 min)} dB(A)	Limit Levels dB(A)
	01-Dec-10	64.2	70
	07-Dec-10	63.8	- 05
NSR 1	13-Dec-10	63.4	- 65
	23-Dec-10	64.8	- 70
	29-Dec-10	64.7	- 70
	01-Dec-10	60.1	_
	07-Dec-10	65.2	_
NSR 3	13-Dec-10	70.5	_
	23-Dec-10	61.5	_
	29-Dec-10	58.5	_
	01-Dec-10	67.1	_
	07-Dec-10	69.4	_
-	13-Dec-10	61.8	_
	23-Dec-10	64.4	75
	29-Dec-10	64.6	_
	01-Dec-10	66.7	_
	07-Dec-10	67.8	_
	13-Dec-10	62.1	_
	23-Dec-10	63.6	_
	29-Dec-10	62.8	_
	01-Dec-10	73.4	_
NSK 9	07-Dec-10	71.4	_

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Station	Monitoring Date	L _{eq (30 min)} dB(A)	Limit Levels dB(A)
	09-Dec-10*	73.0	
	13-Dec-10	68.6	_
	15-Dec-10*	73.1	_
	23-Dec-10	71.0	_
	29-Dec-10	72.4	

Note: * means additional noise monitoring

Table 4-2 Noise Monitoring Results

4.2.2 No exceedances of Action and Limit Levels were recorded in our noise monitoring during the reporting month.

4.3 Water Quality Monitoring

4.3.1 The water quality monitoring schedule of the reporting period is given in Appendix H. Summaries of exceedances for water quality monitoring are provided in Table 4-3 to Table 4-7.

Parameter	Action Level Exceedance	Limit Level Exceedance
DO	Nil	Nil
Turbidity	Nil	Nil
SS	One record on 1 Dec 2010	Nil
Total	1	0

Table 4-3 Summary of Exceedances for I-1

Parameter	Action Level Exceedance	Limit Level Exceedance
DO	Nil	Nil
Turbidity	Nil	Nil
SS	One record on 31 Dec 2010	Two records on 6 and 24 Dec 2010
Total	1	2

Table 4-4Summary of Exceedances for I-2

Parameter	Action Level Exceedance	Limit Level Exceedance
DO	Nil	Nil
Turbidity	Nil	Nil
SS	Nil	One record on 24 Dec 2010
Total	0	1



Table 4-5 Summary of Exceedances for I-3

Parameter	Action Level Exceedance	Limit Level Exceedance
DO	Nil	Nil
Turbidity	Nil	Nil
SS	Two records on 3 and 22 Dec 2010	Three records on 1, 15 and 29 Dec 2010
Total	2	3

Table 4-6 Summary of Exceedances for O-1(FT)

Parameter	Action Level Exceedance	Limit Level Exceedance
DO	Nil	Nil
Turbidity	Nil	Nil
SS	One record on 24 Dec 2010	Three records on 13, 15 and 29 Dec 2010
Total	1	3

Table 4-7Summary of Exceedances for O-1(ET)

4.3.2 Results of measured water quality parameters during the reporting month are shown in Table 4-8. Detailed results including weather conditions and graphical presentations are enclosed in Appendix I.

River Water Quality Monitoring

4.3.3 Five non-project related exceedances were recorded for the river water quality monitoring within the reporting month.

Exceedances of Suspended Solids Level

Action Level at I-1 on 1 December 2010

4.3.4 An exceedance of SS Action Level was recorded at I-1 on 1 December 2010. The measured SS level (2.70 mg/L) was below the baseline Action / Limit Level and was within the range of baseline SS concentration (1 – 10.5 mg/L). It was higher than the SS level measured at upstream control station I-1-C (2.20 mg/L). General site cleaning and housekeeping, rebar fixing at Bay 23, formwork at Bay 23, horizontal drilling and GI monitoring were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance was considered to be contributed by natural variation and no action was required.

Limit Level at I-2 on 6 December 2010

4.3.5 An exceedance of SS Limit Level was recorded at I-2 on 6 December 2010 The measured SS level (3.20 mg/L) was below baseline Action / Limit Level and within the

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range of baseline SS concentration (1 - 8.5 mg/L) but was more than 130% of the SS level measured at the upstream control station (I-2-C)(2.00 mg/L). General site cleaning and housekeeping, excavation (drilling holes) at vortex drop shaft, excavation (drilling holes) at man access shaft, rock breaking for jacking pipe at Portion G and erection of 60 ton temporary steel platform at Portion G were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance was considered to be contributed by natural variation and no action was required.

Limit Level at I-2 on 24 December 2010

4.3.6 An exceedance of SS Limit Level was recorded at I-2 on 24 December 2010. The measured SS level (3.05 mg/L) was below baseline Action / Limit Level and within the range of baseline SS concentration (1 - 8.5 mg/L) but was more than 130% of the SS level measured at the upstream control station (I-2-C) (2.10 mg/L). General site cleaning and housekeeping, excavation (drilling holes) at vortex drop shaft and excavation (drilling holes) at man access shaft, rock breaking for 16th jacking pipe at Portion G, erection of 60 ton temporary steel platform at Portion G and excavation for 750 step channel (SC) and catchpit were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance was considered to be contributed by natural variation and no action was required.

Limit Level at I-3 on 24 December 2010

4.3.7 An exceedance of SS Limit Level was recorded at I-3 on 24 December 2010. The measured SS level (4.15 mg/L) was below baseline Action / Limit Level and within the range of baseline SS concentration (1 - 7.5 mg/L) but was more than 130% of the SS level measured at the upstream control station (I-3-C) (2.00 mg/L). General site cleaning and housekeeping, PB wall H-pile extension, approach channel extension, and shaft excavation were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance was considered to be contributed by natural variation and no action was required.

Action Level at I-2 on 31 December 2010

4.3.8 An exceedance of SS Action Level was recorded at I-2 on 31 December 2010. The measured SS level (2.45 mg/L) was below baseline Action / Limit Level and within the range of baseline SS concentration (1 - 8.5 mg/L) but was more than 120% of the SS level measured at the upstream control station (I-2-C) (2.00 mg/L). General site cleaning, housekeeping and temporary traffic arrangement (TTA), excavation (drilling holes) at vortex drop shaft, excavation (drilling holes and rock spilling) at man access shaft, closed formwork for dry flow channel, rock breaking for 16th jacking pipe at Portion G, erection of 60 ton temporary steel platform at Portion G and excavation for 750 SC and catchpit were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance was considered to be contributed by natural variation and no action was required.

Marine Water Quality Monitoring

4.3.9 Nine non-project related exceedances were recorded for the marine water quality monitoring within the reporting month.

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Exceedances of Suspended Solids Level

Action Level at O-1(FT) on 3 and 22 December 2010

4.3.10 Two exceedances of SS Action Level were recorded on 3 and 22 December 2010 at O-1(FT). The measured SS levels (7.38 and 12.95 mg/L respectively) were below the baseline Action/Limit Level but was higher than 120% of the control station's SS level (O-1-C(FT)) (6.13 and 10.40 mg/L respectively) at the same tide of the same day. Only rock removal at Portion E on 3 December 2010 and amour rock removal from the sea wall to the derrick barge at Portion E on 22 December 2010 were undertaken during measurement. Silt curtains had been provided along Portion E boundary line and extended from seawater level to the bottom of seabed during the marine works. Frame / floating type silt curtains had also been employed at the derrick barge, and rock removal operation was confined in the inner (frame / floating type) silt curtain. As such, the exceedances were considered to be contributed by natural variation and no further action was required.

Limit Level at O-1(FT) on 1, 15 and 29 December 2010

4.3.11 Three exceedances of SS Limit Level were recorded on 1, 15 and 29 December 2010 at O-1(FT). The measured SS levels (varied from 3.20 to 7.83 mg/L) were below the baseline Action / Limit Level but higher than 130% of the control station's SS level (O-1-C(FT)) (varied from 2.37 to 5.28 mg/L) at the same tide of the same day. Only rock-fill removal from sea bed was undertaken on 1 December 2010 and no marine dredging activities were undertaken on 15 and 29 December 2010. As silt curtains were provided along Portion E boundary line and extended from seawater level to the bottom of seabed, frame / floating type silt curtains were deployed at the derrick barge, and dredging / rock removal operation were confined in the inner (frame / floating type) silt curtain. As such, the exceedances were considered to be contributed by natural variation and no further action was required.

Action Level at O-1(ET) on 24 December 2010

4.3.12 An exceedance of SS Action Level was recorded on 24 December 2010. The measured SS level (depth-averaged) (9.82 mg/L) at O-1(ET) was below the baseline Action/Limit Level but higher than 120% of the control station's SS level (O-1-C(ET)) (7.87 mg/L) at the same tide of the same day. No marine works was undertaken during measurement. As silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed and floating type silt curtain had been employed at the inner side, the exceedance was considered to be contributed by natural variation and no further action was required.

Limit Level at O-1(ET) on 13, 15 and 29 December 2010

4.3.13 Three exceedances of SS Limit Level were recorded on 13, 15 and 29 December 2010. The measured SS levels (depth-averaged) (9.20, 5.53 and 9.07 mg/L respectively) were below the baseline Action and Limit Level but higher than 130% of the control station's SS level (O-1-C(ET)) (5.18, 3.97 and 6.03 mg/L respectively) at the same tide of the same day. No marine works were undertaken on 13, 15 and 29 December 2010. As such, the exceedances were considered to be contributed by natural variation and no further action was required.



Station	Date	Temperature	DO (mg/L)	Action/Limit Level for DO (mg/L)	рН	Turbidity (NTU	J) Action/Limit Level for Turbidity (NTU	SS (mg/L) I)	Action/Limit Level for SS (mg/L)
I-1	01-Dec-10	23.50	7.01	3.42 / 3.34	7.92	3.21	9.75 / 12.47	2.70	8.85 / 10.17
	03-Dec-10	22.70	7.71		7.95	3.48		2.50	
	06-Dec-10	25.00	6.99		7.96	6.39		4.25	
	08-Dec-10	21.70	7.22		7.98	5.10		4.30	
	10-Dec-10	21.70	7.05		8.06	4.76		4.15	
	13-Dec-10	21.50	6.95		8.02	5.60		4.65	
	15-Dec-10	21.20	7.11		7.98	6.59		2.75	
	17-Dec-10	17.20	7.58		8.08	6.68		2.00	
	20-Dec-10	21.70	7.37		8.05	3.12		2.00	
	22-Dec-10	21.55	6.97		8.14	2.98		2.00	
	24-Dec-10	20.10	7.19		8.09	4.39		2.00	
	29-Dec-10	18.60	7.62		8.91	2.39		2.00	
	31-Dec-10	18.80	7.32		8.09	3.23		2.00	

Note: *Italic* indicates the occurrence of exceedance of *Action level*. **Bold** indicates the occurrence of exceedance of **Limit level**.



Station	Date	Temperature	DO (mg/L)	Action/Limit Level for DO (mg/L)	рН	Turbidity (NT	U)Action/Limit Level for Turbidity (NTU		Action/Limit Level for SS (mg/L)
I-1-C	01-Dec-10	23.30	7.25	- / -	7.90	3.42	- / -	2.20	- / -
	03-Dec-10	22.50	7.64		7.96	3.67		2.60	
	06-Dec-10	25.00	7.14		7.95	6.48		5.15	
	08-Dec-10	21.80	7.37		8.01	5.21		3.80	
	10-Dec-10	21.50	7.36		8.07	4.82		3.80	
	13-Dec-10	21.20	7.21		8.03	5.82		5.20	
	15-Dec-10	21.00	7.34		7.96	6.81		4.05	
	17-Dec-10	17.40	8.50		8.10	6.80		2.00	
	20-Dec-10	21.60	7.50		8.03	3.23		2.30	
	22-Dec-10	21.20	7.18	_	8.15	3.12		2.10	
	24-Dec-10	20.00	7.48		8.10	4.46		2.00	
	29-Dec-10	18.80	7.86		8.90	2.48		2.00	
	31-Dec-10	18.80	7.24		8.10	3.22		2.00	

Note: *Italic* indicates the occurrence of exceedance of *Action level*. Bold indicates the occurrence of exceedance of Limit level.



Station	Date	Temperature	DO (mg/L)	Action/Limit Level for DO (mg/L)	рН		Turbidity (NTU)Action/Limit Level for Turbidity (NTU		Action/Limit Level for SS (mg/L)
I-2	01-Dec-10	23.40	7.23	3.66 / 3.63	7.9	96	1.54	6.63 / 6.99	2.00	7.68 / 8.34
	03-Dec-10	22.70	7.47		7.9	91	1.70	_	2.00	
	06-Dec-10	24.90	6.78		7.9	97	1.86	_	3.20	
	08-Dec-10	21.50	7.10		8.0)2	1.80	_	2.00	
	10-Dec-10	21.45	6.91		8.0)3	1.32	_	2.00	
	13-Dec-10	21.00	7.14		8.0)1	1.70		2.00	
	15-Dec-10	21.00	7.27		7.9	96	2.38		2.00	
	17-Dec-10	17.00	7.71		8.0)4	1.84		2.00	
	20-Dec-10	21.50	7.16		8.0)5	2.12		2.00	
	22-Dec-10	21.50	7.20		8.	15	1.99		2.20	
	24-Dec-10	20.00	7.54		8.1	0	1.59		3.05	
	29-Dec-10	18.90	7.62		8.8	37	3.02	_	2.00	
	31-Dec-10	19.20	7.44		8.0)8	2.52	_	2.45	

Note: *Italic* indicates the occurrence of exceedance of *Action level*. Bold indicates the occurrence of exceedance of Limit level.



Station	Date	Temperature	DO (mg/L)	Action/Limit Level for DO (mg/L)	рН	Turbidity (NT	U)Action/Limit Level for Turbidity (NT		Action/Limit Level for SS (mg/L)
I-2-C	01-Dec-10	23.30	6.84	- / -	7.92	1.57	- / -	3.15	- / -
	03-Dec-10	22.55	7.42		7.98	1.68		2.00	
	06-Dec-10	25.20	6.85		7.95	1.85		2.00	
	08-Dec-10	21.80	7.19		8.01	1.86		2.00	
	10-Dec-10	21.20	7.15		8.02	1.32		2.05	
	13-Dec-10	21.10	6.98		8.00	1.76		2.00	
	15-Dec-10	21.20	7.30		7.99	2.51		11.20	
	17-Dec-10	17.10	7.97		8.06	1.92		2.00	
	20-Dec-10	21.90	7.32		8.06	2.21		2.00	
	22-Dec-10	21.30	7.31		8.13	1.94		3.55	
	24-Dec-10	20.20	7.32		8.08	1.74		2.10	
	29-Dec-10	18.90	8.27		8.88	3.68		2.00	
	31-Dec-10	19.00	7.56		8.06	2.62		2.00	

Note: *Italic* indicates the occurrence of exceedance of *Action level*. Bold indicates the occurrence of exceedance of Limit level.



Station	Date	Temperature	DO (mg/L)	Action/Limit Level for DO (mg/L)	рН	Turbidity (NT	U)Action/Limit Level for Turbidity (NTU	SS (mg/L) J)	Action/Limit Level for SS (mg/L)
I-3	01-Dec-10	23.60	7.03	3.65 / 3.51	7.99	1.90	3.99 / 4.18	2.00	6.13 / 7.23
	03-Dec-10	22.70	7.54		8.00	2.89		2.20	
	06-Dec-10	25.20	6.81		7.98	1.88		2.00	
	08-Dec-10	22.00	6.94		7.97	2.03		2.00	
	10-Dec-10	21.60	6.89		8.02	1.85		2.25	
	13-Dec-10	21.40	6.98		8.00	1.98		2.00	
	15-Dec-10	20.90	7.28		8.01	2.28		2.00	
	17-Dec-10	17.00	7.33		8.10	1.92		2.00	
	20-Dec-10	21.60	7.38		8.06	2.28		2.00	
	22-Dec-10	21.20	6.97		8.19	1.80		2.00	
	24-Dec-10	20.20	7.32		8.07	1.68		4.15	
	29-Dec-10	18.80	7.48		8.90	1.45		2.00	
	31-Dec-10	19.00	7.28		8.08	1.83		2.00	



Station	Date	Temperature	DO (mg/L)	Action/Limit Level for DO (mg/L)	рН	Turbidity (N	TU) Action/Limit Level for Turbidity (NTU)	SS (mg/L)	Action/Limit Level for SS (mg/L)
I-3-C	01-Dec-10	23.70	7.26	- / -	7.9	7 1.88	- / -	2.00	- / -
	03-Dec-10	22.80	7.70		8.0) 2.89		2.00	
	06-Dec-10	25.10	6.78		7.9	9 1.95		2.00	
	08-Dec-10	21.70	6.88		7.9	6 2.08		2.00	
	10-Dec-10	21.30	7.04		8.04	4 1.89		2.20	
	13-Dec-10	21.60	7.05		8.0) 2.01		2.00	
	15-Dec-10	21.30	7.16		8.0) 2.30		2.00	
	17-Dec-10	16.90	7.62		8.0	5 2.01		2.00	
	20-Dec-10	21.80	7.24		8.0	3 2.17		2.00	
	22-Dec-10	21.50	7.11		8.1	6 1.90		2.00	
	24-Dec-10	20.40	7.77		8.0	6 1.71		2.00	
	29-Dec-10	19.00	7.56		8.9	I 1.47		2.00	
	31-Dec-10	19.00	7.53		8.08	3 1.88		2.00	

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Station	Date	Depth	Temperature (℃) (depth- averaged)	DO (mg/L)	Action / Limit Level for DO (mg/L)	pH (depth- averaged)	Turbidity (NTU) (depth averaged)		SS (mg/L) (depth- averaged)	Action / Limit Level for SS (mg/L)
O-1(FT)	01-Dec-10	Surface		7.28	6.84 / 6.81			10.35 / 13.15		14.1 / 18.08
		Middle	22.95	7.17	0.04 / 0.01	8.27	4.15		7.83	
		Bottom	_	7.15	6.99 / 6.96	_				
	03-Dec-10	Surface		7.23	0.04/0.04					_
		Middle	22.70	7.43	6.84 / 6.81	8.19	3.92		7.38	
		Bottom	_	7.16	6.99 / 6.96	_				
	06-Dec-10	Surface		7.23	0.04/0.04					
		Middle	23.70	7.04	6.84 / 6.81	8.32	8.26		10.60	
		Bottom	_	7.17	6.99 / 6.96	_				
	08-Dec-10	Surface		7.32	0.04/0.04					
		Middle	21.73	7.13	6.84 / 6.81	8.31	8.67		9.68	
		Bottom	_	7.21	6.99 / 6.96	_				
	10-Dec-10	Surface		7.20	0.04/0.04					
		Middle	21.77	7.12	6.84 / 6.81	8.28	6.78		4.70	
		Bottom	_	7.40	6.99 / 6.96	_				
	13-Dec-10	Surface		7.09	0.04/0.04					
		Middle	21.50	7.22	6.84 / 6.81	8.29	7.19		7.83	
		Bottom	_	7.42	6.99 / 6.96	_				
	15-Dec-10	Surface		7.19	0.04/0.01					
		Middle	21.00	7.27	6.84 / 6.81	8.30	3.87		5.82	
		Bottom	_	7.22	6.99 / 6.96	_				

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Station	Date	Depth	Temperature (°C) (depth- averaged)	DO (mg/L)	Action / Limit Level for DO (mg/L)	pH (depth- averaged)	Turbidity (NTU) (depth averaged)	Action / Limit - Level for Turbidity (NTU)	SS (mg/L) (depth- averaged)	Action / Limit Level for SS (mg/L)
O-1(FT)	17-Dec-10	Surface		7.44	6.84 / 6.81			10.35 / 13.15		14.1 / 18.08
		Middle	17.67	7.48		8.20	5.09		6.83	
		Bottom	—	7.89	6.99 / 6.96	_				
	20-Dec-10	Surface		7.36	6.84 / 6.81					
		Middle	21.80	7.42	0.04 / 0.01	8.29	3.18		2.67	
		Bottom	_	7.26	6.99 / 6.96	_				
	22-Dec-10	Surface		7.63	6.94 / 6.91					_
		Middle	20.07	7.42	6.84 / 6.81	8.31	8.24		12.95	
		Bottom	_	7.36	6.99 / 6.96	_				
	24-Dec-10	Surface		7.50	6.94 / 6.91					_
		Middle	20.23	7.48	6.84 / 6.81	8.09	7.68		9.45	
		Bottom		7.55	6.99 / 6.96	_				
	29-Dec-10	Surface		7.39	0.04/0.01					_
		Middle	20.10	7.44	6.84 / 6.81	8.18	3.41		3.20	
		Bottom		7.51	6.99 / 6.96	_				
	31-Dec-10	Surface		7.40	6.94 / 6.91					
		Middle	19.20	7.37	6.84 / 6.81	8.26	4.80		5.68	
		Bottom		7.65	6.99 / 6.96	_				

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Station	Date	Depth	Temperature (℃) (depth- averaged)	DO (mg/L)	Action / Limit Level for DO (mg/L)	pH (depth- averaged)	(NTU) (depth	Action / Limit - Level for Turbidity (NTU)	SS (mg/L) (depth- averaged)	Action / Limit Level for SS (mg/L)
O-1-C(FT)	01-Dec-10	Surface		7.25	- / -			- / -		- / -
		Middle	22.83	7.12	- / -	8.27	3.94		5.28	
		Bottom	_	7.03	- / -	_				
-	03-Dec-10	Surface		7.40	- / -					_
		Middle	22.63	7.12	- / -	8.19	3.78		6.13	
		Bottom	_	7.44	- / -	_				
-	06-Dec-10	Surface		7.18	,					_
		Middle	23.65	7.33	- / -	8.33	8.42		10.63	
		Bottom	_	7.08	- / -	_				
-	08-Dec-10	Surface		7.24	,					_
		Middle	21.68	7.43	- / -	8.31	9.63		11.27	
		Bottom	_	7.11	- / -	_				
-	10-Dec-10	Surface		7.24	,					—
		Middle	21.70	7.16	- / -	8.28	7.59		6.13	
		Bottom	_	7.29	- / -	_				
-	13-Dec-10	Surface		7.33	,					_
		Middle	21.38	7.19	- / -	8.30	8.78		12.57	
		Bottom	_	7.26	- / -	_				
_	15-Dec-10	Surface		7.31						_
		Middle	21.00	7.28	- / -	8.30	3.99		3.67	
		Bottom	_	7.17	- / -	_				

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Station	Date	Depth	Temperature (℃) (depth- averaged)	DO (mg/L)	Action / Limit Level for DO (mg/L)	pH (depth- averaged)	Turbidity (NTU) (depth- averaged)	Action / Limit Level for Turbidity (NTU)	SS (mg/L) (depth- averaged)	Action / Limit Level for SS (mg/L)
O-1-C(FT)	17-Dec-10	Surface		7.66	- / -			- / -		- / -
		Middle	17.58	7.62	,	8.21	5.34		5.98	
		Bottom	_	7.66	- / -	_				
-	20-Dec-10	Surface		7.25	- / -					
		Middle	21.78	7.38	- / -	8.29	3.29		2.33	
		Bottom	_	7.20	- / -	_				
-	22-Dec-10	Surface		7.66	- / -					_
		Middle	20.35	7.53	- / -	8.30	8.37		10.40	
		Bottom	_	7.41	- / -	_				
-	24-Dec-10	Surface		7.67	1					_
		Middle	20.18	7.56	- / -	8.09	9.09		17.93	
		Bottom	_	7.50	- / -	_				
-	29-Dec-10	Surface		7.39	1					
		Middle	20.08	7.28	- / -	8.16	3.64		2.37	
		Bottom	_	7.34	- / -	_				
-	31-Dec-10	Surface		7.54	1					
		Middle	19.18	7.45	- / -	8.26	5.41		5.77	
		Bottom	_	7.40	- / -	_				

Note: Italic indicates the occurrence of exceedance of Action level.

Bold indicates the occurrence of exceedance of Limit level.

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Station	Date	Depth	Temperature (℃) (depth- averaged)	DO (mg/L)	Action / Limit Level for DO (mg/L)	pH (depth- averaged)	Turbidity (NTU) (depthe averaged)	Action / Limit Level for Turbidity (NTU)	SS (mg/L) (depth- averaged)	Action / Limit Level for SS (mg/L)
O-1(ET)	01-Dec-10	Surface		7.17	7.02 / 6.94			11.87/13.44		13.25/14.39
		Middle	22.97	7.31	7.02 / 0.94	8.24	3.37		5.22	
		Bottom	_	7.19	6.7 / 6.48	_				
	03-Dec-10	Surface		7.55	7.00/0.04					_
		Middle	22.25	7.21	7.02 / 6.94	8.19	2.92		6.93	
		Bottom	_	7.31	6.7 / 6.48	_				
	06-Dec-10	Surface		7.26	7.00/0.04					_
		Middle	24.00	7.32	7.02 / 6.94	8.32	4.05		7.95	
		Bottom	_	7.12	6.7 / 6.48	_				
	08-Dec-10	Surface		7.30	7.00/0.04					_
		Middle	21.98	7.16	7.02 / 6.94	8.31	5.74		5.80	
		Bottom	_	7.30	6.7 / 6.48	_				
	10-Dec-10	Surface		7.14	7.00 / 0.04					_
		Middle	22.17	7.31	7.02 / 6.94	8.30	5.07		5.67	
		Bottom	_	7.33	6.7 / 6.48	_				
	13-Dec-10	Surface		7.29	7.00/0.04					_
		Middle	21.45	7.14	7.02 / 6.94	8.30	6.24		9.20	
		Bottom	_	7.09	6.7 / 6.48	_				
	15-Dec-10	Surface		7.42	7.00/0.04					
		Middle	21.03	7.50	7.02 / 6.94	8.30	3.11		5.53	
		Bottom	_	7.35	6.7 / 6.48	_				

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Station	Date	Depth	Temperature (℃) (depth- averaged)	DO (mg/L)	Action / Limit Level for DO (mg/L)	pH (depth- averaged)	Turbidity (NTU) (depthe averaged)	Action / Limit Level for Turbidity (NTU)	SS (mg/L) (depth- averaged)	Action / Limit Level for SS (mg/L)
O-1(ET)	17-Dec-10	Surface		7.72	7.02 / 6.94			11.87/13.44		13.25/14.39
		Middle	17.45	7.52		8.21	5.99		5.28	
		Bottom	_	7.70	6.7 / 6.48	_				
	20-Dec-10	Surface		7.25	7.02 / 6.94					_
		Middle	21.60	7.38	7.02 / 0.94	8.29	4.32		5.93	
		Bottom	_	7.38	6.7 / 6.48	_				
	22-Dec-10	Surface		7.56	7.02/6.04					_
		Middle	20.33	7.57	7.02 / 6.94	8.31	5.06		5.07	
		Bottom	_	7.35	6.7 / 6.48	_				
	24-Dec-10	Surface		7.46	7.02/6.04					_
		Middle	20.50	7.59	7.02 / 6.94	8.10	6.16		9.82	
		Bottom		7.37	6.7 / 6.48	_				
	29-Dec-10	Surface		7.43	7.02/6.04					_
		Middle	20.13	7.55	7.02 / 6.94	8.19	5.85		9.07	
		Bottom		7.52	6.7 / 6.48	_				
	31-Dec-10	Surface		7.26	7.02/6.04					_
		Middle	19.03	7.49	7.02 / 6.94	8.24	5.50		7.17	
		Bottom	_	7.46	6.7 / 6.48	_				

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Station	Date	Depth	Temperature (℃) (depth- averaged)	DO (mg/L)	Action / Limit Level for DO (mg/L)	pH (depth- averaged)	(NTU) (depth-	Action / Limit Level for Turbidity (NTU)	SS (mg/L) (depth- averaged)	Action / Limit Level for SS (mg/L)
O-1-C(ET)	01-Dec-10	Surface		7.13	- / -			- / -		- / -
		Middle	22.83	7.05	- / -	8.24	3.39		9.72	
		Bottom	_	7.09	- / -	_				
-	03-Dec-10	Surface		7.69	1					_
		Middle	22.30	7.39	- / -	8.19	3.10		8.08	
		Bottom	_	7.31	- / -	_				
-	06-Dec-10	Surface		7.13	,					_
		Middle	23.87	7.20	- / -	8.32	4.11		7.02	
		Bottom	_	7.10	- / -	_				
-	08-Dec-10	Surface		7.32	,					
		Middle	21.90	7.20	- / -	8.32	6.55		5.58	
		Bottom	_	7.34	- / -	_				
-	10-Dec-10	Surface		7.22	,					
		Middle	22.07	7.50	- / -	8.29	5.24		6.47	
		Bottom	_	7.40	- / -	_				
-	13-Dec-10	Surface		7.21	,					_
		Middle	21.37	7.27	- / -	8.30	6.42		5.18	
		Bottom	_	7.15	- / -	_				
-	15-Dec-10	Surface		7.34	,					
		Middle	21.00	7.26	- / -	8.30	3.03		3.97	
		Bottom	_	7.34	- / -	_				

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Station	Date	Depth	Temperature (℃) (depth- averaged)	DO (mg/L)	Action / Limit Level for DO (mg/L)	pH (depth- averaged)	Turbidity (NTU) (depth- averaged)	Action / Limit Level for Turbidity (NTU)	SS (mg/L) (depth- averaged)	Action / Limit Level for SS (mg/L)
O-1-C(ET)	17-Dec-10	Surface		7.47	- / -			- / -		- / -
		Middle	16.92	7.76	,	8.21	6.31		5.55	
		Bottom	_	7.57	- / -	_				
-	20-Dec-10	Surface		7.15	- / -					_
		Middle	21.53	7.48	- / -	8.30	5.58		6.08	
		Bottom	_	7.59	- / -	_				
-	22-Dec-10	Surface		7.42	1					_
		Middle	20.25	7.36	- / -	8.30	5.21		5.60	
		Bottom	_	7.53	- / -	_				
-	24-Dec-10	Surface		7.38	1					_
		Middle	20.42	7.43	- / -	3.97	7.19		7.87	
		Bottom	_	7.35	- / -	_				
-	29-Dec-10	Surface		7.33	1					_
		Middle	20.05	7.42	- / -	8.19	5.99		6.03	
		Bottom	_	7.32	- / -	_				
-	31-Dec-10	Surface		7.30	1					_
		Middle	19.02	7.47	- / -	8.24	6.06		8.62	
		Bottom	_	7.35	- / -	_				

Table 4-8 Water Quality Monitoring Results

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4.4 DO, Temperature and pH Data Monitored on 1 December 2010

The previous calibration certificate for the multimeter (for pH, temperature and DO 4.4.1 measurements) was expired on 27 November 2010 and the multimeter was recalibrated on 3 December 2010. Therefore, the water quality data (pH, temperature and DO) collected on 1 December were not covered under a valid calibration certificate of the multimeter. Although the recalibration of the multimeter on 3 December 2010 indicated that the multimeter was functioning normally within acceptable deviations, it is considered that the water quality data (pH, temperature and DO) measured on 1 December 2010 should be considered for reference only. Nevertheless, it is noted that the pH, temperature and DO data monitored at various stations on 1 December 2010 are similar to the values measured on 3 December 2010. Effluent discharges from the construction sites at I-1, I-2 and I-3 have been controlled under the wastewater discharge licenses. Mitigation measures were deployed at various construction sites during monitoring. These included: (1) silt curtains for marine works (rock removal) at the marine basin of Outfall; (2) wastewater treatment plants at I-1, I-2 and I-3; (3) diversion of existing streams that were bunded by sealed concrete block walls at I-1, I-2 and I-3; and (4) bunded off the existing stream by sand bag to prevent washing out of excavated material from the working area at I-2. Thus, adverse water quality impact on DO at various stations due to the Project on 1 December was not anticipated.

4.5 Turbidity Data Monitored on 24 December 2010

- 4.5.1 The previous calibration certificate for the turbidimeter (serial no. 215619) was expired on 24 December 2010 and the turbidimeter was recalibrated on 28 December 2010. Therefore, the turbidity data collected on 24 December were not covered under a valid calibration certificate of the turbidimeter. The recalibration of the turbidimeter on 28 December 2010 indicated that the turbidimeter was functioning normally within acceptable deviations. However, the turbidity data measured on 24 December 2010 should be considered for reference only.
- 4.5.2 As shown in Table 4.8, the turbidity levels measured at various control stations were higher than the turbidity level of the corresponding impact stations on 24 December 2010. Four-point on-site calibration of the turbidimeter was conducted before subsequent measurements and, thus, all measurements on 24 December 2010 were based on same calibration curve. The higher turbidity levels at control stations (where the water qualities were not affected by the project) and the relatively lower turbidity levels of the impact stations (where water qualities were or were not affected by the Project) showed that the Project did not contribute any significant adverse impact on the turbidity levels at the various impact monitoring stations.
- 4.5.3 In addition, effluent discharges from the construction sites at I-1, I-2 and I-3 have been controlled under the wastewater discharge licenses and mitigation measures were deployed at various construction sites during monitoring, including: (1) silt curtains for marine works (rock removal) at the marine basin of Outfall; (2) wastewater treatment plants at I-1, I-2 and I-3; and (3) diversion of existing streams that were bunded by sealed concrete block walls at I-1, I-2 and I-3, so the water quality of various locations are under sufficient protection. Therefore, adverse water quality impact on turbidity at various monitoring stations due to the Project on 24 December 2010 was not anticipated.



4.6 Summary of Project-Related Exceedances

4.6.1 Table 4-9 summarises the project-related exceedance results recorded in December 2010. Note that exceedances that are considered not related to the construction activities are not included in this table.

Environmental Monitoring	Total No. of Measurement	Action Level Exceedance	% of Action Level Exceedance	Limit Level Exceedance	% of Limit Level Exceedance
Air Quality	72	0	0	0	0
Noise	27	0	0	0	0
Water	130	0	0	0	0

Note: Exceedances that are considered not related to the construction activities are not included in this table.

Table 4-9 Summary of Project-Related Exceedances



5 WASTE MANAGEMENT

5.1.1 The status of waste management is summarised in Table 5-1.

Status of waste management	Quantity
Inert C&D Material Disposed of to Public Fill at Tuen Mun (m ³)	12,684.6
Inert C&D Material Reused in this Contracts (m ³)	595.0
Inert C&D Material Reused in other Contracts* (m ³)	4,955.0
Metals Generated (kg)	18.0
Paper / Cardboard Packaging (kg)	400.0
Plastics (kg)	20.0
Chemical Waste (kg)	7,450.2
General Waste Disposed of to NENT Landfill (m ³)	56.0

* Other Contract includes DC/2007/08, YL/2009/01, HY/2007/10, DC/2007/17 and Wo Shang Wai.

Table 5-1 Waste Generated in December 2010



6 NON-COMPLIANCE AND DEFICIENCY

6.1 Site Audit by ET

6.1.1 ET has carried out two site inspections in the reporting month. All observations together with the appropriate recommended mitigation measures where necessary were recorded in the audit checklists that were passed to the Contractor. Major environmental deficiencies observed during site inspection/audits and recommendation, which were made by the ET, are summarised in Table 6-1 below. No non-compliance was observed.

Inspection Date	Observation	Recommendation	Status
	 Air compressor without side panel cover was observed at Intake I-3. 	1. The Contractor was reminded to repair the side panel cover.	 The side panel cover was repaired on 4 December 2010. (Closed)
2 December 2010	 Air compressor without emission noise label was observed at Intake I- 3. 	2. The Contractor was reminded to stick the emission noise label at the air compressor.	 Noise emission label was stuck on the air compressor on 3 December 2010. (Closed)
	 Rock breaker without noise insulation wrapping was found at Intake I-3. 	 The Contractor was reminded to apply noise insulation wrapping for the rock breaker. 	 Noise insulation wrapping was applied on the rock breaker on 3 December 2010. (Closed)
17 December 2010	 Stagnant water accumulated on the tarpaulin was found at Castle Peak Road works area. 	 The Contractor was reminded to remove accumulated water after each rainy day 	 Accumulated water was removed on 17 December 2010. (Closed)

Table 6-1 Site Inspection by ET



7 COMPLAINT

- 7.1.1 A complaint hotline at <u>9850 3241</u> of the Contractor has been established for the Project.
- 7.1.2 No environmental complaint was received during the reporting month.
- 7.1.3 EPD received two public complaints regarding daytime construction noise from outfall construction site on 17 November 2010. The complaints were about barge squeaking and rock breaking. The ET have conducted site inspection at the Outfall construction site and the Greenview Terrace (NSR 9) on 2 and 17 December 2010 to review and audit the site setting, noise mitigation measures implemented on-site and the environmental performance of the contractor. Enhanced on-site noise mitigation measures have been implemented by the contractor. A noise investigation report was submitted to the EPD on 24 December 2010. The issue of noise complaints was considered closed. Details of the past complaint investigation and observations can be referred to Appendix K.
- 7.1.4 Cumulative statistics of environmental complaints are shown in Table 7-1.

Complaints Received in the Reporting Month	Cumulative Number of Complaints
0	20

 Table 7-1
 Cumulative Statistics of Environmental Complaints



8 SUMMARY OF NOTIFICATION OF SUMMONS, SUCCESSFUL PROSECUTIONS AND CORRECTIVE ACTIONS

- 8.1.1 No summons and successful prosecution was received during the reporting month.
- 8.1.2 Cumulative statistics of notification of summons, successful prosecutions and convictions are shown in Table 8-1.

Notification of Summons		Successful Prosecution a	and conviction
December 2010	Cumulative	December 2010	Cumulative
0	0	0	0

 Table 8-1
 Cumulative Statistics of Notification of Summons and Successful Prosecutions and Convictions



9 FUTURE KEY ISSUE

9.1.1

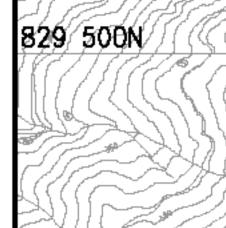
The forecast of construction works for the upcoming three months are:

- Site Cleaning and tidying at I-1, I-2, I-3 and Outfall;
- TBM drilling of the tunnel and mucking out of tunnel spoil at Outfall;
- Drilling, excavation and rock splitting at spiral ramp at Outfall;
- Pre-bored H-pile drilling, excavation and soil nailing for CPR box culvert construction at Outfall;
- Removal of sea wall and amour rocks for basin scheme at Outfall Portion E;
- Installation of marine sea wall block and amour rock for basin scheme at Portion E;
- Construction of PB wall at I-3;
- Erection of tower crane at I-3;
- Drilling and excavation of vortex shaft at I-3;
- Pipe jacking at Portion G at I-2;
- Construction of retaining wall at I-2;
- Pre-bored H-pile construction for skin wall at Portion G at I-2;
- Construction for skin wall at Portion G at I-2;
- Drilling, excavation and rock splitting of man access shaft and vortex drop shaft at I-2;
- Construction of approach channel structure at I-2;
- Cascade and channel modification concrete structure works at I-1;
- Horizontal drilling at I-1; and
- Backfilling of spiral ramp centre void at I-1.



Appendix A

Site Map and Works Area



829 000N

828 500N

828 000N

827 500N

827 000N

826 500N

826 000N

825 500N

APPROACH BEATH

825 000N

824 500N

SHEK LUNG KUNG

YAU KOM TAU

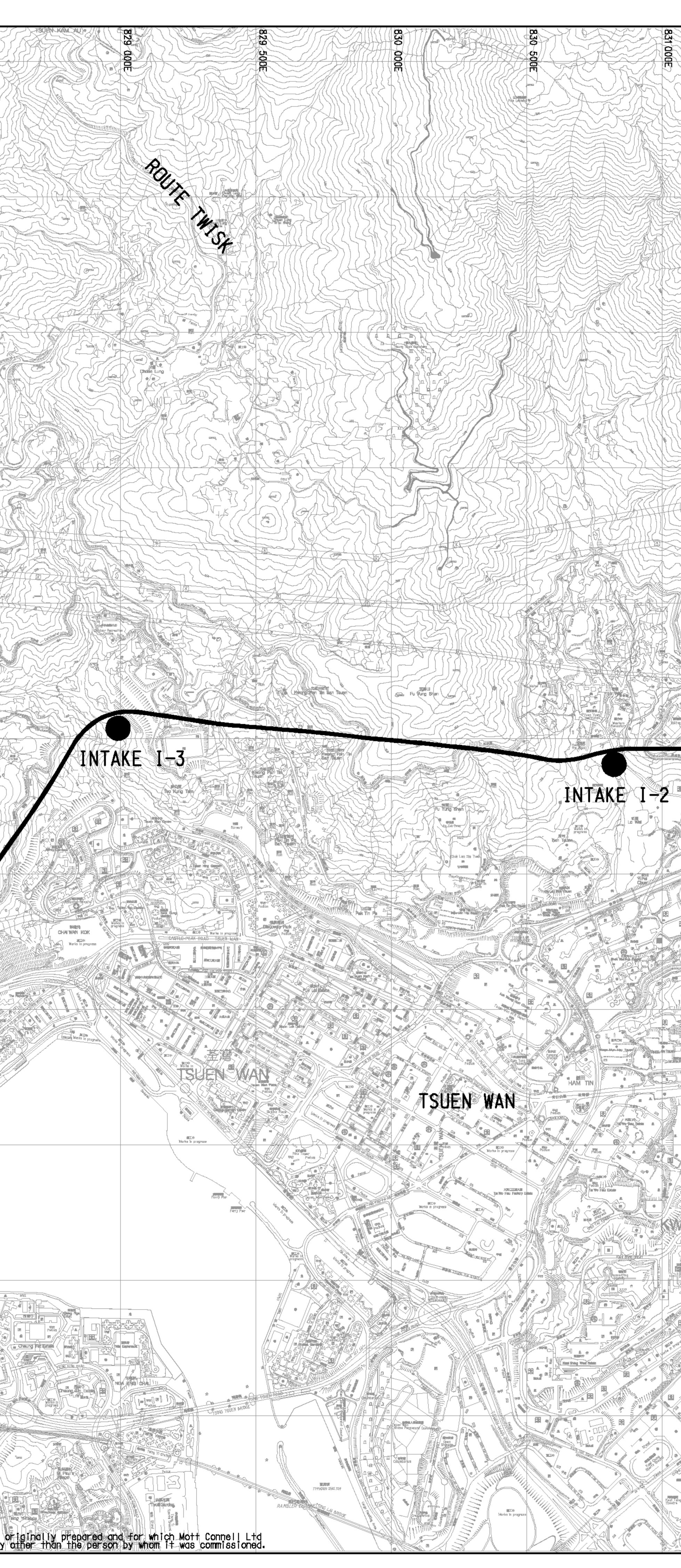
Pak Shek 194

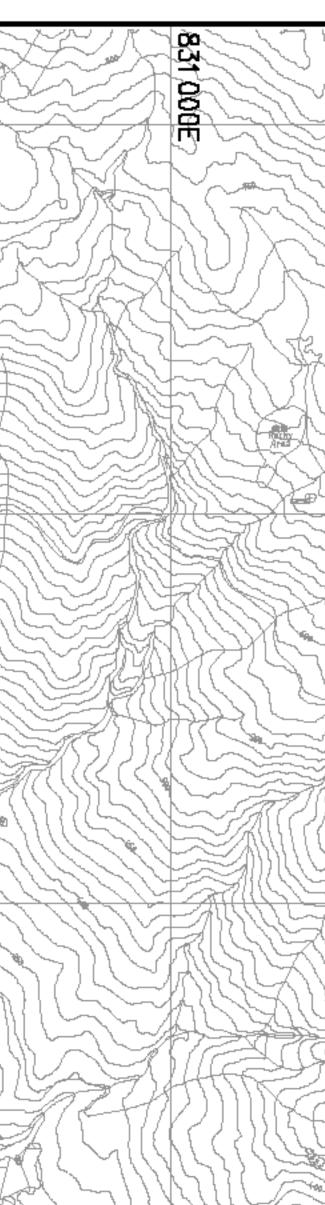
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OUTFALL 0-1





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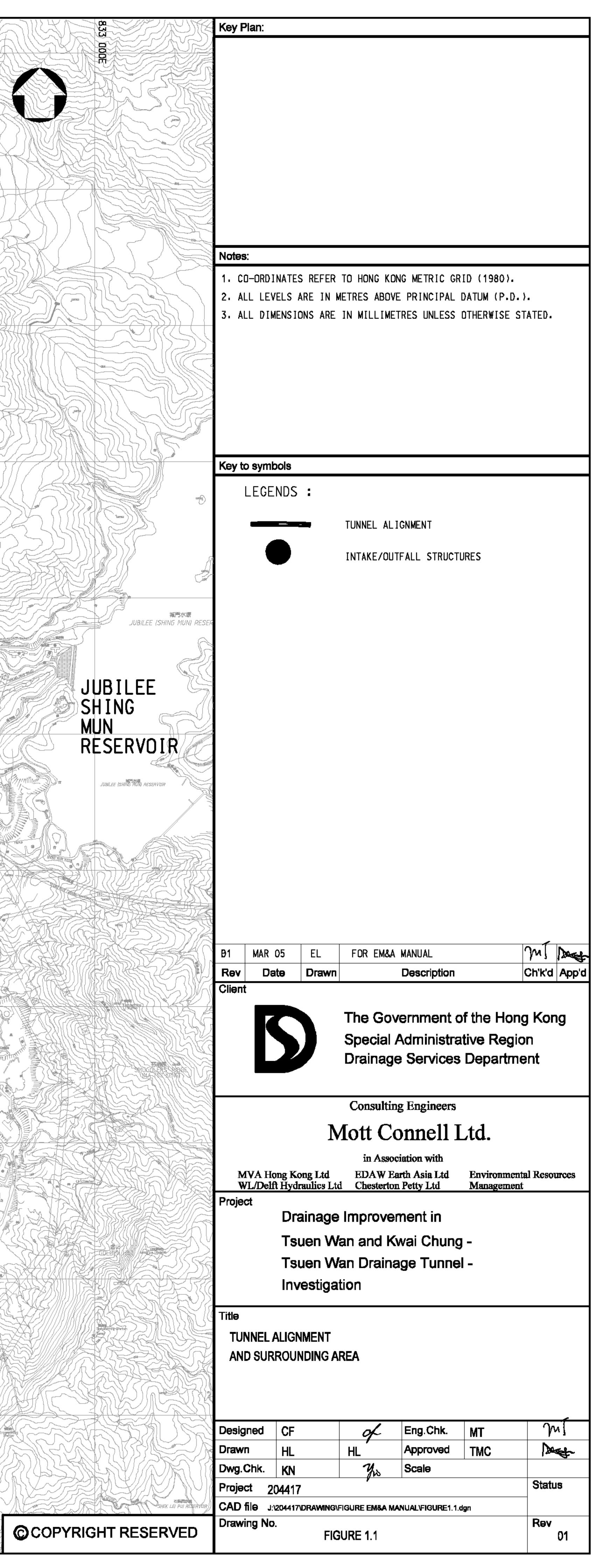
SHEUNG KIWA CHUNG





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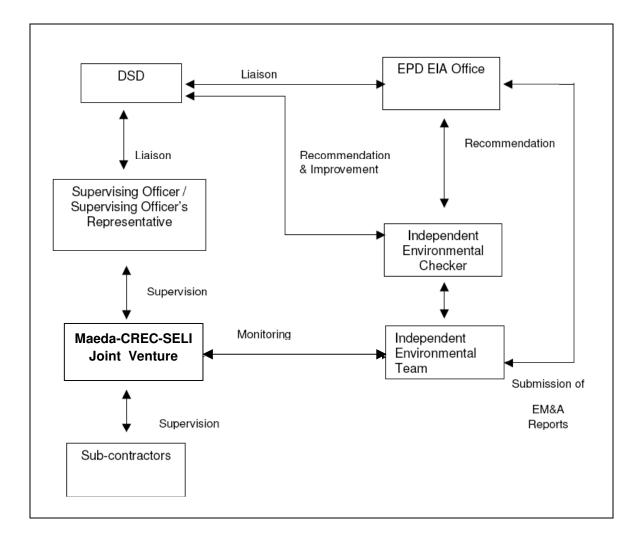
KWAI CHUNG





Appendix B

Organization Chart





Appendix C

Construction Programme

٥	Activity Description		Dur Dur	WP3D AD04 Dur Start	Finish	Star	Finish		Float			THE R
Preliminaries	S											-
Project Dates	9											
01R0000002	Tender Issue Date		0	0 26JUN07A	K	26JUN07A		2	T			
01R000004	Tender Closing Date		10	0 05OCT07A	٩	050CT07A		~	-			
01R0000006	Letter of Acceptance Issued Date	te	01	0 14DEC07A	٩	14DEC07A		2	•			-
01R000008	Contract Commencement Date		0	0 28DEC07A	4	28DEC07A		N		*14 days after LOA		
01R0000010	Completion of Section 1 of the Works	Norks	0	0	07DEC12	2	18JAN13	2	-462	Contract completion date on 02/09/11	le on 02/09/11 🔶	
01R0000012	Completion of Section 2 of the Works	Norks	0	0	22MAR12	12	22MAR12	N	-239	Con ract completion date on 27/07/11	07/11 +	
01R0000014	Completion of Section 3 of the Works	Norks	0	0	23MAR12	2	23MAR12	N	-240	Concract completion date on 27/07/11	◆11/20	
01R0000016	Completion of Section 4 of the Works	Norks	0	0	04FEB12	2	04FEB12	N	-192	Contract completion date on 27/07/11	◆ F E/2	
01R0000018	Completion of Section 5 of the Works	Norks	0	0	07DEC12	2	18JAN13	N	-485	Contract completion date on 10/08/11	e on 10/08/11	
01R0000020	Completion of Section 6 of the Works	Norks	0	0	27JUL11	-	27JUL11	N	0	Contract completion date on 27/07/11		
01R0000022	Completion of Section 7 of the Works	Norks	0	0	07DEC13	3	18JAN14	2	-462	Contract co	Contract completion date on 01/09/12 .	12.
Possession of Area	of Area											
01R00A0102	Possession Portion A - 90d of DOC	00	0	0 27FEB08A		27FEB08A		2	T	Permanent land allocation area was possessed on 19/03/08	ssed on 19/03/08	-
01R00A0104	Handover of Section 1 of Works at Portion A	s at Portion A	0	0	22MAR12	1	22MAR12	N	-239		•	-
01R00B0102	Possession of Portion B - 90d of DOC	fDOC	0	0 07MAR08A	A	07MAR08A		~	T	•		
01R00B0104	Handover of Portion B		0	0	23MAR12	2	23MAR12	N	-240		•	
01R00C0102	Possession of Portion C - 90d of DOC	f DOC	0	0 26MAR08A	A	26MAR08A		N	1	+	500	
01R00C0104	Handover of Portion C		0	0	04FEB12		04FEB12	N	-192		•	
01R00D0102	Possession of Portion D on DOC	0	0	0 28DEC07A	A	28DEC07A		2				
01R00D0104	Handover of Portion D		0	0	07DEC12	N	18JAN13	2	-485		*	
01R00E0102	Possession of Portion E - 650d of DOC	of DOC	0	0 070CT09		070CT09		3	0	*		
01R00E0104	Handover of Portion E		0	0	07DEC12	5	18JAN13	2	-462		*	
01R00F0102	Possession of Portion F on DOC	0	0	0 28DEC07A	8	28DEC07A		2				
01R00F0104	Handover of Portion F		o	0	07DEC12	2	18JAN13	N	-462		•	
01R00G0102	Possession of Portion G - 700d of DOC	of DOC	0	0 26NOV09		26NOV09		2	0	*		
01R00G0104	Handover of Portion G		0	0	11MAR1	1	11MAR11	N	175	•		
01R0010102	Possession of Portion I on DOC		0	0 28DEC07A	A	28DEC07A		2				
01R0010104	Handover of Portion I		0	o	07DEC12	2	18JAN13	8	-462		*	
01R00J0102	Possession of Portion J		0	0: 15MAR10	-	15MAR10		2	-268	•		-
01R00J0104	Handover of Portion J		0	0	03SEP10	-	03SEP10	~	0	•		
01R0H10102	Possession of Portion H1 on DOC	C	0	0 28DEC07A	A	28DEC07A		2				-
01R0H10104	Handover of Portion H1		0	0	30DEC13	3	10FEB14	N	0			٠
01R0H20102	Possession of Portion H2 - 300d of DOC	1 of DOC	0	0 04NOV08A	۷	04NOV08A		2		*		
Start Date	29JUN07		AD04	2	Maeda-CREC-SELI JV	C-SELI JV	Sheet 1 of 58	f 58		Addendum to Works Programma "WP04"		
Finish Date	30DEC13	Tarnet Bar		CON	TRACT NC	CONTRACT NO. DC/2007/12 Design and Construction of		22JUN09		Works Program Revision "WP02"	Checked Approved	pen
Data Date	28MAY09	Profress Bar		Tsue	in Wan Dra	Tsuen Wan Drainage Tunnel		10AUG09		Works Program Revision "WP3D" WPort TeM Halk Second of WED Transled		1
Run Date	220C109 10:37	Critical Activity	_	Addendum	to Works I	Addendum to Works Programme "WP04"	WP04"	010		WP3CHI DIM Mail Speed at WSU I Unrelfas		11
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01R0H20104	nescription	Dur	Dur	Start	Finish S	Start	Finish	9	Float		
	Handover of Portion H2	0	0		30DEC13	-	10FEB14	N	0		
Section of	Section of Works - DOP to Completion								1		
01R1000202	S1-Works in Portions A to F except works in S2-7	1,308 1,308	2.2.1	28DEC07A		1	18JAN13		462		
01R1000204	S1-Maintenance Period (365 days)	365	365	08DEC12	07DEC13 19JAN13		18JAN14	N	-462		
01R20A0206	S2-Slope Stabilization works within Portion A	1,247	1,247	27FEB08A	22MAR12 27FE	27FEB08A 2	22MAR12	~	-239		
01R20A0208	S2-Maintenance Period (365 days)	365	365	23MAR12	22MAR13 23M	23MAR12 2	22MAR13		-202		
01R30B0210	S3-Slope Stabilization works within Portion B	1,238	1,238	07MAR08A	23MAR12 07M	07MAR08A 2	23MAR12	2	-240		
01R30B0212	S3-Maintenance Period (365 days)	365	365	24MAR12	23MAR13 24M	24MAR12 2	23MAR13	2	-203		
01R40C0214	S4-Slope Stabilization works within Portion C	1,219 1,219	-	26MAR08A	04FEB12 26M	26MAR08A 0	04FEB12	2	-192		1
01R40C0216	S4-Maintenance Period (365 days)	365	365	05FEB12	03FEB13 05FEB12	-	03FEB13	2	-155		
01R50D0218	S5-Slope Stabilization works within Portion D	1,308	1,308	28DEC07A	07DEC12 28DE	28DEC07A 1	18JAN13	3	-485		
01R50D0220	S5-Maintenance Period (365 days)	365	365	08DEC12	07DEC13 19JAN13		18JAN14	2	-462		
01R60G0222	S6-Works within Portion G	609	609	26NOV09	27JUL11 126NG	26NOV09	27JUL11	3	0		
01R60G0224	S6-Maintenance Period (365 days)	365	365	28JUL11	26JUL12 28JUL11		26JUL12	2	37		
0187000226	S7-Ladscape softworks & establishment works	1,673	1,673	28DEC07A	30NOV13 28DE	28DEC07A 1	11JAN14	N	-455		
01R7000228	S7-Maintenance Period (30 days)			01DEC13	30DEC13 12JAN14		10FEB14	1	-455		
Eacilities fo	Gacilittiae for the SO as ber FR 19										
NI CONTINAD I											
0180000302	Provide temporary accommodation	2	1	28DEC07A	15JAN08A 28DEC07A		15JAN08A	2		to the satisfaction of the SO ER 12.3.1 refers	ut refers
01R0000304	Desian the SO's principle office	95	95	28DEC07A	28AUG08A 28DEC07A	1	28AUG08A	2		1	
010000306	Fract Hoarding/Simhoard/Gate/Fencing	35	35	28MAR08A	16MAR09A 28MAR08A	-	16MAR09A	-	Ì	at Potions H & I	
018000305	Fred SO's minciple office in Portion H1/H2	100	100	19MAY08A	13SEP08A 19MAY08A		13SEP08A	-	T		-
0180000308	Provide secondary offices directed by SO	28	2	14SEP08A	13JUN09 14SE	14SEP08A	13JUN09	2	276	more than 2 mo	not more than 2 months after the instruction.
01R0000310	Provide transport for the SO as per App. ER.M	06	06	28DEC07A	02MAY08A 28DEC07A	1	02MAY08A	3	O	ER 12.4; 3 nps. vehicles within 14 days of DOC	t days of DOC
01R0000311	Provide survey equipments as per App. ER,M	30	30	28DEC07A	19AUG08A 28DEC07A	1	19AUG08A	N		within 1 month of DOCtempor	onth of DOCtemporary equipment provied on 18/02/08
01R0000314	Maintain & Service the Principle Office	1,539	1,539 1,539	14SEP08A	30NOV13 14SEP08A	1	11JAN14	3	0		
01R0000316	Maintain & Service the Secondary Office	1,495	1,495	1,495 1,495 280CT08A	30NOV13 280	280CT08A	11JAN14	2	0		
01R0000318	Maintain & Service the transportation	1,785	1,785	1,785 1,785 12JAN08A	30NOV13 12JAN08A		11JAN14	2	0		
01R0000319	Maintain & Service the survey equipments	1,748	1,748 1,748	18FEB08A	30NOV13 18FEB08A		11JAN14	~	0		
01R0000372	Demolish & removal of Principle Office	30	30	01DEC13	30DEC13 12JAN14		10FEB14	2	0		
Contractor	Contractor's Accommodation as per ER.B										
0120001402	Desinn Contractor's main office	30	30	01FEB08A	19MAY08A 01FEB08A		19MAY08A	2	1	to the satisfaction of SO	
010001406	Maintain & service Contractor's office	1.597		18JUL08A	30NOV13 18JUL08A		11JAN14	~	0		
0180001408	Demolish & removal of Contractor's main office	30		01DEC13	30DEC13 12JAN14	1	10FEB14	2	0		
018000141	Frect Contractor's main office in Portion H1	50*	50.	50" 19MAY08A	17JUL08A 19MAY08A	1	17JUL08A	-		to the satisfaction of the SO	
01R0001412	Construct base slab	10	10	10 19MAY08A	30MAY08A 19MAY08A	1	30MAY08A	-			
01R0001413	Install steel frames	12	12	31MAY08A	21JUN08A 31MAY08A	1	21JUN08A	+			
01R0001414	Install wall/roof panels, windows etc	9	9	23JUN08A	30JUN08A 23JUN08A	1	30JUN08A	-		1	
01R0001415	Install & E& M/ceiling/floor panels	00	80	02JUL08A	12JUL08A 02JUL08A		12JUL08A	-		•7	
01R0001416	Site clearance	*	F	14JUL08A	17JUL08A 14JUL08A		17JUL08A	•			

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By organizia: Chart monthly 1,747 1,747 1,747 1,747 1,747 20MAR08A 31DEC12 20MAR08A 18JAN13 2 364 4 ety obligation 1,830 1,830 1,830 1,830 1,830 28DEC07A 18JAN13 2 364 4 or all insurances are effected 21 21 21 21 21 21 21 21 2 364 4 4 or all insurances are effected 21 21 21 21 21 21 21 2 364 4<	Submit updated safety orgainiza. chart monthly Fulfill all relevant safety obligation Sall Insurances Submit documents for all insurances are effected stem as per ER 9.3 Appoint a Quality Manager Submit proposed Quality System for SO's consent Submit QSSP for approval of the SO Maintain & update Quality System	1,7	140		1	-	2	within 35 days of LOA
Number of the SD state	Fuffill all relevant safety obligation S All Insurances Submit documents for all insurances are effected stem as per ER 9.3 Appoint a Quality Manager Submit proposed Quality System for SO's consent Submit QSP for approval of the SO Maintain & update Quality System	1,830 1,8	20M	31DEC12 2	_	-	ŀ	
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anager 14 14 28 201A008A 28 202A008A 28 28 4000000000000000000000000000000000000	Appoint a Quality Manager Submit proposed Quality System for SO's consent Submit QSSP for approval of the SO Maintain & update Quality System							
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Submit proposed Quality System for SO's consent 28 24 4EC07A 2JAN08A 14DEC07A 2JAN08A 2 Within 28 days Submit OSSP for approval of the SO 28	Submit proposed Quality System for SO's consent Submit QSSP for approval of the SO Maintain & update Quality System	14	280		8DEC07A 02J	ANOBA	2	as per SCC 74 within 14 days of DOC
Submit GSFP for approval of the SO 28 28 BEC07A 14MAR08A 2 34Mit avoid the SO Maintain & update Quality System 1,802 1,802 1,802 25JAN08A 31DEC12 25JAN08A 15JAN13 2 364 Maintain & update Quality System 1,802 1,802 25JAN08A 31DEC12 25JAN08A 15JAN13 2 364 Maintain & update Duality System 1,802 1,802 21,802 21,802 25JAN08A 15JAN13 2 364 444 Nominate Environmental Officer 14 </td <td>Submit QSSP for approval of the SO Maintain & update Quality System</td> <td>-</td> <td>140</td> <td></td> <td></td> <td>ANOBA</td> <td>2</td> <td>Ewithin 28 days of LOA</td>	Submit QSSP for approval of the SO Maintain & update Quality System	-	140			ANOBA	2	Ewithin 28 days of LOA
Maintain & update Quality System 1,802 1,802 1,802 1,802 1,802 1,802 1,802 1,802 1,802 1,802 1,802 1,802 25JAN08A 31DEC12 25JAN08A 18JAN13 2 364 Pertor Nominate Environmental Officer 14 14 14DEC07A 21DEC07A 21DEC07A 2 Pertor Peror Pertor Peror <td>Maintain & update Quality System</td> <td>╞</td> <td>28D</td> <td>-</td> <td>-</td> <td>AR08A</td> <td>2</td> <td>Ewithin 28 days of DOC</td>	Maintain & update Quality System	╞	28D	-	-	AR08A	2	Ewithin 28 days of DOC
Mominate Environmental Officer 14 14 14 BCO7A 21DEC07A 21DEC07A 21DEC07A 22 Peer Notes to Ten Establish a billing account for disposal 21 21 21 21 21 21AN08A 14DEC07A 21AN08A 2 Peer Notes to Ten Submit draft EMP 21 21 21 21 14DEC07A 02JAN08A 2 Peer Notes to Ten Submit draft EMP 21 21 21 21 21 22 2 Peer Notes to Ten Revise draft EMP within 7 days of SO's notice 21 14 04 04JAN08A 21FEB08A 04JAN08A 21FEB08A 2 Peer Notes to Ten Revise draft EMP within 7 days of SO's notice 14 0 04JAN08A 21FEB08A 21FEB08A 2 2 Peer Notes to Ten Revise draft EMP monthly 1,768 1,768 28JAN08A 31DEC12 28JAN08A 2 2 2 2 2 2 2 2 2 2 2 2 2		+	25.1		-	AN13	+-	
Nominate Environmental Officer141414 DEC07A21DEC07A21DEC07A21DEC07A221DEC07A22 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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21 21 14DEC07A 02JAN08A 14DEC07A 02JAN08A 14DEC07A 02JAN08A 21FEB08A 2 SCC69, within 21 14 14 14 04JAN08A 21FEB08A 21FEB08A 2 2 SCC69, within 21 45 45 14DEC07A 21FEB08A 14DEC07A 21FEB08A 2 as per SCC69 1,769 1,769 28JAN08A 31DEC12 28JAN08A 14DEC07A 21FEB08A 2 as per SCC69 21 21 14DEC07A 21FEB08A 14DEC07A 21FEB08A 18JAN13 2 364 21 21 21 14DEC07A 02JAN08A 14JAN08A 2 364 21 21 14DEC07A 02JAN08A 14JAN08A 2 364 365 21 21 21 14DEC07A 02JAN08A 14JAN08A 2 364 365 21 21 21 18JAN08A 02JAN08A 2 364 367 367 364	Establish a billing account for disposal	21	140	-		AND8A	2	ther Notes to Tenderer (AA)
14 14 04JAN08A 21FEB08A 04JAN08A 21FEB08A 21FEB08A 2 = as per SCC69 45 45 45 14DEC07A 21FEB08A 14DEC07A 21FEB08A 12 = as per SCC69 1,769 1,769 1,769 23JAN08A 31DEC12 28JAN08A 14DEC07A 21FEB08A 12 364 21 21 21 14DEC07A 02JAN08A 14DEC07A 02JAN08A 136 = as per SCC69 21 21 21 14DEC07A 02JAN08A 14DEC07A 02JAN08A 2 364 21 21 21 14DEC07A 02JAN08A 18JAN08A 2 364 21 21 21 18JAN08A 2 40 the approval of the approval o	Submit draft EMP	21	14[+		ANO8A	0	
45 45 14DEC07A 21FEB08A 14DEC07A 21FEB08A 2 Case per SCC69, 1,769 1,769 1,769 23JAN08A 31DEC12 28JAN08A 13DEC07A 21FEB08A 2 364 21 21 14DEC07A 02JAN08A 14DEC07A 02JAN08A 13DAN133 2 364 21 21 21 14DEC07A 02JAN08A 14DEC07A 02JAN08A 2 364 21 21 21 14DEC07A 02JAN08A 14DEC07A 02JAN08A 2 364 21 21 21 14DEC07A 14DEC07A 13JAN08A 2 364 21 21 21 18JAN08A 28DEC07A 18JAN08A 2 160 approval of 1 31 31 31JAN08A 31JAN08A 2 160 approval of 1 37 37 31 18JAN08A 20MAR08A 2 160 approval of 1 37 37 11FEB08A 20MAR08A 2 1	Bevice draft EMP within 7 days of SO's notice	14	04.			FBD8A	0	
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21 21 14DEC07A 02JAN08A 14DEC07A 02JAN08A 2 to the approval of the spinoval of the spi	Review/update/submit EMP monthly					AN13	-	
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ule 21 21 18JAN08A 31JAN08A 31JAN08A 21AN08A 21AN08A 2 37 37 11FEB08A 20MAR08A 11FEB08A 20MAR08A 2 2 20 20 20 210 21MAR08A 28MAR08A 21MAR08A 2 2 2	Submit Baseline Monitoring Plan	21	28L			AN08A	2	the SO
37 37 11FEB08A 20MAR08A 11FEB08A 20MAR08A 2 20 20 20 21MAR08A 28MAR08A 2 2	Seek for EPD's Agreement on WQML & schedule	21	21 18JAN08A	31JAN08A 1		AN08A	2	
20 20 21MAR08A 28MAR08A 21MAR08A 28MAR08A 2	Carry out baseline monitoring	-	37 11FEB08A	20MAR08A 1		IAR08A	2	
	Prenare/submit reports for baseline monitoring	-	20 21MAR08A	-		IAROBA	2	for approval of the SO
Linned multiplies 9 condition						AN13	÷	

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	And and and and and	and a	PAres -	the second	Extender .	Shart	Cinich .	-	Elane						
	Entropy of the second of the s	1 200	1 BOO	4 DOD 4 DOD 2016C07A	31DEC12 28DEC07A		18 IAN13		364						
1/K0000802	Fulfill all relevant environmental obligation	nno'i	nno'i	VINDER07	SIDECIE		CINNODI	v	5						
Excavation	Excavation Permit/Utilities per SCC 54 & SCC 83														- 24
								1	1						_
01R0001002	Nominate IIUMS co-ordinator	7	2		15JAN08A 14DEC07A		15JAN08A	2	E	as per SCC83; within / days of LUA	within / days	S OT LUA			
01R0001004	SO approve IIUMS co-ordinator	14	14	16JAN08A	29FEB08A 16JAN08A	16JAN08A	29FEB08A	2							-
01R0001006	Submit brand name of UGS detection equipment	~	7	28DEC07A	18FEB08A 28DEC07A	28DEC07A	18FEB08A	2		as per ER.B1	1.59; within 7	59; within 7 days of DOC	SC		
01R0001008	Utilities detection & report to the SO	21	21	29FEB08A	05APR08A 29FEB08A	29FEB08A	05APR08A	2		11					2
01R0001010	Liaison with UUs	21	21	04JAN08A	29FEB08A 04JAN08A	04JAN08A	29FEB08A	8		n		-			
01R0001012	Apply XP for site entrance construction	2	2	21JAN08A	08MAR08A 21JAN08A	21JAN08A	08MAR08A	2	T	0			-		5.7
01R0001014	HvD process XP for site entrance construction	20	20	10MAR08A	28MAY08A 10MAR08A	10MAR08A	28MAY08A	N	ğ	ces ER.B1 1.1	ER.B1 1.18A3(1), not less than 17 working days	ess than 17	working da	ys	
01R0001016	HyD issue XP for site entrance construction	0			28MAY08A		28MAY08A	8		•			14		2
01R0001018	Apply XP for GI works at I-1 & I-2	-	-	22APR08A	20MAY08A 22APR08A	22APR08A	20MAY08A	N		8	_				1-
01R0001020	HyD process XP for GI works at I-1 & I-2	30	30	23APR08A	26SEP08A 23APR08A	23APR08A	26SEP08A	8							2
01R0001022	HyD issue XP for GI works at I-1 & I-2	0	0		26SEP08A		26SEP08A	-		•					15
01R0001024	Apply XP for trial grout at Fault F1	÷	+	22APR08A	20MAY08A 22APR08A	22APR08A	20MAY08A	2							
01R0001026	HyD process XP for trial grout at Fault F1	30	30	23APR08A	22JUL08A 23APR08A	23APR08A	22JUL08A	2		1	-				
01R0001028	HyD issue XP for trial grout at Fault F1	0	0		22JUL08A		22JUL08A			•			10	-	
Pre-constru	Pre-construction Condition Survey														
Preliminaries															2
01R0001102	Appoint a Qualified Structural Engineer	30	30	28DEC07A	COTA 19MAR08A 28DEC07A 19MAR08A	28DEC07A	19MAR08A	2		as per ER. B	B1 1.61;				3
01R0001104	Submit nos. & extent of the affected EBS	30	30	28DEC07A	COTA 19MAR08A 28DEC07A 19MAR08A	28DEC07A	19MAR08A	5		as per ER. E	B1 1.61; within 30 days of DOC	1 30 days of	DOC		0
PCS Stage 1 b	between I-1 & I-2									-					22
	Carry out stg 1 PCS between I-1 & I-2	9	9	22APR08A	23APR08A 22APR08A	22APR08A	23APR08A	2				-			-
01R0001120	Prepare/submit reports for stg 1 PCS bet I-1&I-2	60	60	24APR08A	22SEP08A 24APR08A	24APR08A	22SEP08A	2							
01R0001122	Review/accept reports for stg 1 PCS bet I-1&I-2	60	60	31MAY08A	20JAN09A	20JAN09A 31MAY08A 20JAN09A	20JAN09A	2			-				
-	between H2 & H3											1			
	Carry out stg 1 PCS between I-2 & I-3	ß	ŝ	25MAR08A	30APR08A 25MAR08A 30APR08A	25MAR08A	30APR08A	2							-
01R0001132	Prepare/submit reports for stg 1 PCS bet I-2&I-3	60	60	24APR08A	22SEP08A 24APR08A	24APR08A	22SEP08A	3							
01R0001134	Review/accept reports for stg 1 PCS bet I-2&I-3	60	60	24MAY08A	04FEB09A 24MAY08A	24MAY08A	04FEB09A	3							
PCS Stage 1 b	between I-3 & O-1											-			22
01R0001142	Carry out stg 1 PCS between I-3 & 0-1	5	S	25MAR08A	26MAR08A	25MAR08A	26MAR08A 25MAR08A 26MAR08A	10			-				_
01R0001144	Prepare/submit reports for stg 1 PCS bet I-3&0-1	60	60	26MAR08A	11SEP08A	11SEP08A 26MAR08A		2						_	22
01R0001146	Review/accept reports for stg 1 PCS bet I-3&O-1	60	60	60 31MAY08A	04FEB09A 31MAY08A	31MAY08A	04FEB09A	2					-		
PCS Stage 1 a	at vicinity of O-1														
01R0001106	Carry out stg 1 PCS at vicinity of O-1	ω.	ŝ	25MAR08A 29MAR08A 25MAR08A 29MAR08A	29MAR08A	25MAR08A	29MAR08A	8							-
01R0001108	Prepare/submit reports for stg 1 PCS at 0-1	60	60	60 31MAR08A	10SEP08A 31MAR08A	31MAR08A	10SEP08A	2		1					
01R0001110	Review/accept reports for stg 1 PCS at O-1	60	60	60 27MAY08A 09FEB09A 27MAY08A	09FEB09A	27MAY08A	09FEB09A	~							
PCS Stage 2 b	between I-1 & I-2												-		
	Carry out stg 2 PCS between I-1 & I-2	22	S	22APR08A	02JUN08A	02JUN08A 22APR08A	02JUN08A	2							
01R0001126	Prepare/submit reports for stg 2 PCS bet I-1&I-2	60	60	24APR08A 10JUN08A 24APR08A	10JUN08A	24APR08A	10JUN08A	2		n					- 47
01R0001128	Review/accept reports for stg 2 PCS bet I-18I-2	60	60	11JUN08A	11JUN08A 09FEB09A 11JUN08A	11JUN08A	09FEB09A	2							

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		11								1																					This TMI Connectuted on 11/03/081st TMI G use held on 12/02/08	"HvD & Police ER.B1 1.15 (9) refers	HyD & Police ER.B1 1.15 (9) refers		ewithin 30 days of LOA	Per SCC 44 (Area Within Sul Ho Wan Sewage Treatment Works
Float																											-16						F			364			
Finish		07JUN08A 2	12JUN08A 2	09FEB09A 2		13JUN08A 2	18JUN08A 2	09FEB09A 2		06JUN08A 2	16JUN08A 2	09FEB09A 2		2 AGONALO	24MAR09A 2		10JAN09A 2	24MAR09A 2		10JAN09A 2	24MAR09A 2			24MAR09A 2		ISJAN09A 2	10JUN09 2		USJANUSA 2	+						18JAN13 2			16AUG08A 1
Start		07JUN08A 30APR08A 0	12JUN08A 02MAY08A 1	09FEB09A 13JUN08A 0		13JUN08A 09MAY08A	18JUN08A 04JUN08A 1	19JUN08A 09FEB09A 19JUN08A 0		06JUN08A 01APR08A 0				28AUG08A 10JAN09A 28AUG08A 10JAN09A	12JAN09A 24MAR09A 12JAN09A 2		28AUG08A 10JAN09A 28AUG08A	24MAR09A 12JAN09A		10JAN09A 28AUG08A	24MAR09A 12JAN09A		28AUG08A 10JAN09A 28AUG08A 10JAN09A	12JAN09A 24MAR09A 12JAN09A 12		28AUG08A 15JAN09A 28AUG08A 15JAN09A	10JUN09 16JAN094		03JAN08A 14DECU/A	-		1.1	1		EC07A 12JAN08A 14DEC07A 12JAN08A	31DEC12 03JUL08A			
Fluish		07JUN08A	12JUN08A	OGFEBOSA		13JUN08A	18JUN08A	09FEB09A		06JUN08A	16JUN08A	09FEB09A		10JAN09A	24MAR094		10JAN09A	24MAR09/		10JAN09A	24MAR09/		10JAN09A	24MAR09/		15JAN09A	10JUN09		03JANU8P	ZOLEDUOA	VOUDER FO	19APROR	19APR08/		12JAN084				16AUG08A
Ir Start		5 30APR08A	60 02MAY08A	60 13JUN08A	-	5 09MAY08A	60 04JUN08A	60 19JUN08A		12 01APR08A	60 02JUN08A 16JUN08A 02JUN08A	60 17JUN08A 09FEB09A 17JUN08A			28 12JAN09A		28 28AUG08A	28 12JAN09A		28 28AUG08A	12JAN09A		28 28AUG08A	28 12JAN09A			28 16JAN09A		14 14DECU/A		Vacanto to	14 02APR08A			30 14DEC07A	342 03JUL08A			O
bur bur		2	60	60		ŝ	60	60		12	60	60		28	28		28	28		28	28		28	28		28	28		4	-	± 3	14	14		30	1,642 1,642			0
Description	stween H2 & H3	Carry out stg 2 PCS between I-2 & I-3	Prepare/submit reports for stg 2 PCS bet I-2&I-3	Review/accept reports for stg 2 PCS bet I-2&I-3	between H3 & O-1	Carry out stg 2 PCS between I-3 & O-1	Prepare/submit reports for stg 2 PCS bet I-3&O-1	Review/accept reports for stg 2 PCS bet I-3&O-1	Vicinity of O-1	Carry out stg 2 PCS at vicinity of 0-1	Prepare/submit reports for stg 2 PCS at 0-1	Review/accept reports for stg 2 PCS at 0-1	Pre-const. condition structural survey; I-1	Prepare/submit reports for EBS at I-1	Review/accept reports for EBS at I-1	Pre-const. condition structural survey; I-2	Prepare/submit reports for EBS at I-2	Review/accept reports for EBS at I-2	Pre-const. condition structural survey; I-3	Prepare/submit reports for EBS at I-3	Review/accept reports for EBS at I-3	Pre-const. condition structural survey; 0-1	Prepare/submit reports for EBS at O-1	Review/accept reports for EBS at O-1	Pre-const. condition structural survey; Tunnel	Prepare/submit reports for EBS along Tunnel alig	Review/accept reports for EBS along Tunnel align		Appoint Traffic Consultant/Traffic Engineer		Prepare/submit 11A Schemes (ingress & egress)	Obtain endorsement or LLA schemes inorn Tixico Anomical of TTA schemes by the Authorities	Approval of TTA schemes by the Authorities	0	Submit a Sub-contractor Management Plan	Submit Quarterly the Updated SMP		Siu Ho Wan as a New Tree Transplanting Area	Receive VO28 for new tree transplanting area
ŀ	PCS Stage 2 between H2 & H3	01R0001136	01R0001138	01R0001140	PCS Stade 2 be	01R0001148	01R0001150	01R0001152	PCS Stage 2 at Vicinity of O-1	01R0001112	01R0001114	01R0001116	Pre-const. cont	01R0001154	01R0001156	Pre-const. con	01R0001158	01R0001160	Pre-const. con	01R0001162	01R0001164	Pre-const. con	01R0001166	01R0001168	Pre-const. con	01R0001170	01R0001172	Traffic	01R0001202	01K0001204	01K0001200	01E0001234	01R0001236	Management	01R0001302	01R0001304	Trees	Siu Ho Wan as	V0028-02

	Description	Dur	Dur	Start	Finish Start	Finish	9	Float					
V0028-04	Preparation works for new T.T. area	20	20 18	AUG08A	20 18AUG08A 07SEP08A 18AUG08A 07SEP08A	18A 07SEP0	3A 2						
01R0001502	Appoint Landscape Specialist Contractor	14	14 14	14 14DEC07A	14JAN08A 14DEC07A	14JAN08A	2		n				
01R0001504	SO's Approval of Landscape Contractor	7	7: 15	15JAN08A	28FEB08A 15JAN08A	8A 28FEB08A	+		0				-
01R0001506	Nominate competent person to oversee tree works	45	45: 14	14DEC07A	29JAN08A 14DEC07A	TA 29JAN08A	A 2		ERB 26.02A. wihin 45 dyas of LOA	within 45 dya	IS OF LOA		-
01R0001510	Obtain Tree Removal Permit by Others	90	90 28	28DEC07A	06MAR08A 28DEC07A	17A DEMAROBA	8A 2		ER 1.5.3 (2); within 3 mths from DOC	within 3 mth	s from DOC		-
01R0001512	Remove / Transplant Trees start	0	0 08	08SEP08A	08SEP08A	8A	2		♦ER 1	.5.3(2) within	CER 1.5.3(2) within 3 months from DOC	DOC	
Survey									7				-
											-1-		-
01R0001602	Appoint Surveyors	14	14 28	28DEC07A	10JAN08A 28DEC07A	10JAN08A	A 2					-	-
01R0001604	SO's Approval of Surveyor	7	7 11	11JAN08A	16APR08A 11JAN08A	8A 16APR08A	3A 2		1				-
01R0001608	Initial Survey	28	28 18	18JAN08A	10MAR08A 18JAN08A	8A 10MAR08A	8A 1		11				
01R0001610	Maintain & carry out survey works	1,378	1,378	23FEB08A	07DEC12 23FEB08A	8A 18JAN13	2 2	0					1
Smart Card	S												-
													-
01R0001802	Submit Smart Card Sys for SO's Approval	2	7 28	DEC07A	28DEC07A 15JAN08A 28DEC07A		8A 2		As per ER.B3	0 30.06(2)SO	As per ER.B30 30.06(2)SOR.s approval obtained on 13/02/08	tained on 13/02	2/08
01R0001804	Install & start Operating Smart-Card System	60	60 28	28DEC07A	23FEB08A 28DEC07A	7A 23FEB08A	8A 2						
01R0001806	Operate & Maintain Smart-Card System	1,771	1,771 1,771 25	25FEB08A	30NOV13 25FEB08A	8A 11JAN14	2	0					
ureme	Procurement of Sub-contractor			į.									-
01R0001904	Spoil Disposal	60	60 28	28AUG08A	27MAR09A 28AUG08A	18A 27MAR09A	9A 2				-		
01R0001906	Earthwork for Outfall O-1	60	60 14	-	05JUN08A 14DEC07A	7A 05JUN08A	3A 2		awarded to	to Kin Lee		-	
01R0001910	Re-bar Supply	90	90 14	14DEC07A	30MAY08A 14DEC07A	7A 30MAY08A	8A 2		awarded to	_	/SC Steel Co. Ltd by PR		_
01R0001912	Soil Nailing	60	60 28	28DEC07A	02APR08A 28DEC07A	77A 02APR08A	8A 2		Geotech Eng	1g Ltd			
01R0001914	H-piling Works	90	90 14	14DEC07A	09MAY08A 14DEC07A	A 09MAY08A	8A 2		awarded to h	o Kin Wing		-	_
01R0001916	Fabrication of Pre-cast Lining	80	80 02	02JUN08A	05JAN09A 02JUN08A	8A 05JAN09A	8A 2				_		_
01R0001920	Drainage/Road Works for Access Road at I-3	60	60 08	08AUG08A	03NOV08A 08AUG08A	DBA D3NOV08A	8A 2		King S	Shing			-
01R0001922	Temp. steel decking over Shing Mun Nullah at I-1	30	90 14	14DEC07A	25APR08A 14DEC07A	17A 25APR08A	8A 2		awarded to L	o Long Faith			2
01R0001924	Design/Install Communication System	344	344 26	28JUN08A	26JUN09 28JUN08A	8A 26JUN09	9 2	356		11-			2
01R0001925	Design/install Flow Monitoring Devices	78	78 14	14JUL08A	01AUG08A 14JUL08A	8A 01AUG08A			^c awarded 1	d to Soldata	_		-
01R0001936	Procurement & delivery of Communication System	180	180 0	06DEC09	03JUN10 06DEC09	01NULE0 60	0 2	356		1			2
01R0001938	Procurement/delivery of Flow Measurement Devices	120	120 1	110CT09	07FEB10 110CT09	00 07FEB10	0 2	501		1			-
01R0018A02	Supply TBM/Main Tunnel Construction	2	7 14	14DEC07A	21DEC07A 14DEC07A	17A 21DEC07A	7A 2		awaded to Seli				-
01R0018A04	Security	17	17 17	17 17DEC07A	02JAN08A 17DEC07A	17A 02JAN08A	3A 2						_
01R0018A06	Progress Photo/Vedio	25	25 29	29DEC07A	22JAN08A 29DEC07A	77A 22JAN08A	3A 2	-1					-
01R0018A08	Webpage/Physical Model/3D Animation	48	48 14	48 14DEC07A	14FEB08A 14DEC07A	77A 14FEB08A	3A 2		awarded to Inte				-
01R0018A10	Hoarding/Fencing Erection	60	60 04	04JAN08A	03MAR08A 04JAN08A	8A 03MAR08A	8A 2		-awarded to Ch	Ch Yau			-
01R0018A12	Erection of Contractor's Office	67	67 28	28DEC07A	03MAR08A 28DEC07A	17A D3MAR08A	8A 2		-awarded to Mir	Wing Kee		-	
01R0018A14	Remote Control CCTV	60	60 04	60 04JAN08A	03MAR08A 04JAN08A	8A 03MAR08A	8A 2		awarded to F	Pilot Electronic	ų		
01R0018A16	Concrete Supply	45	45 14	14DEC07A	11MAR08A 14DEC07A	17A 11MAR08A	8A 2		Anderson				2
01R0018A18	Geotechnical Instrumentation	60	60 15	15JAN08A	14MAR08A 15JAN08A	8A 14MAR08A	8A 2		awarded to So data	Sodata	-		
			10.100	A COLORADOR	and the second second	The second second							-

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Internet (2) Internet (2)<	٩	Activity Description	Dod	Dur Dur	AD04 Start	AD04 Finish	Clean	WP3D Finish		Float	8	6002	2010	011	012 2013
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	018A22	Site Clearance	60	60		25MAR08A 26	SJAN08A	25MAR08A	N		awarded to	King Shing			
63 Carry for fail fail fail fail fail fail fail fail	018A24	Erection of SOR's Office	95	95		05APR08A 02	2JAN08A	05APR08A	2		awarded to				
Busine Sympositic Symposint Sympositi Sympositic Sympositic Sympositic Symp	018A26	Carry out Grout Trial at Fault F1	6	06	02APR08A	30JUN08A 02	2APR08A	30JUN08A	2		awarded				
000 Destruction (Sin Wild) 0 0 0.10000000 0.100000 0.100000 0.100000 0.100000 0.100000 0.100000 0.100000 0.100000 0.100000 0.100000 0.100000 0.100000 0.100000 0.100000 0.100000 0.100000 0.1000000 0.1000000 0.1000000	018A28	Design/Fabricate Segmental Lining Mould	6	06		21JUL08A 23	3APR08A	21JUL08A	10		awarded	I to Korea M	ould		
0.00 Support (according and (according according a	018A30	Construction of Skin Walls	66	06		03JAN09A 2	1JUL08A	03JAN09A	2		M		ction	82	
64 5800 01 Chromone 50 61 Chromone 21 Chromone 22 Chr	018A32	Design/Fabricate/Supply/Install Conveyor Belt	06	06		05JAN09A 14	4JUL08A	05JAN09A	2						100
0.00 Control of Super Pinform 0.00 Control Pinform 0.00 Control Pinform 0.00 Control Oper Pinform 0.00 Control Pinform Control Pinform	018A34	Supply of Locomotive	6	06	14JUL08A	100CT08A 14	4JUL08A	100CT08A	7		Scho	na			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	018A36	Excavation Works at I-1	60	60		21JAN09A 28	BAUG08A	21JAN09A	6		a	ded to C			
0 Controller of Self Internet 2 3<	018A38	Construction of Steel Platform at O-1	5	50		14MAR09A 28	BAUG08A	14MAR09A	7		1				100
According Construction of Tex National Control Display of Tex National Control <th< td=""><td>018A40</td><td>Construction of Steel Platform at I-2</td><td>20</td><td>50</td><td></td><td>27DEC08A 28</td><td>SAUG08A</td><td>27DEC08A</td><td>~</td><td></td><td>Ch</td><td>~</td><td></td><td></td><td></td></th<>	018A40	Construction of Steel Platform at I-2	20	50		27DEC08A 28	SAUG08A	27DEC08A	~		Ch	~			
444 Communication of Subgrade Structures 70 7 7 7 7 2 <td>018A42</td> <td>Pre-excavation Grouting for Shaft Excavation</td> <td>60</td> <td>60</td> <td></td> <td>11MAR09A 28</td> <td>SAUG08A</td> <td>11MAR09A</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	018A42	Pre-excavation Grouting for Shaft Excavation	60	60		11MAR09A 28	SAUG08A	11MAR09A	2						
4000 Communication by (COD 81-2) 233 240/050h 260/050h 260/050h <td>018A46</td> <td>Excavation/Construction of TBM Launching Chamber</td> <td>20</td> <td>70</td> <td></td> <td>18DEC08A 28</td> <td>SAUG08A</td> <td>18DEC08A</td> <td>2</td> <td></td> <td>US</td> <td>-</td> <td></td> <td></td> <td></td>	018A46	Excavation/Construction of TBM Launching Chamber	20	70		18DEC08A 28	SAUG08A	18DEC08A	2		US	-			
0.00 Dearling formation by RCD at 1,3 D	018A48	Construction of Subgrade Structure at I-1	333	333		-	BAUG08A	26JUL09	2	186					
6.25 Decondent/Construction of Shaftwork (Channelss) 90 91 24.0000A SMMMORD A 2 MMMORD A MMMORD A <t< td=""><td>018A50</td><td>Shaft Excavation by RCD at I-2</td><td>6</td><td>06</td><td></td><td>26NOV08A 28</td><td>3AUG08A</td><td>26NOV08A</td><td>2</td><td></td><td>Include</td><td>go Piling</td><td></td><td></td><td>2002 2004</td></t<>	018A50	Shaft Excavation by RCD at I-2	6	06		26NOV08A 28	3AUG08A	26NOV08A	2		Include	go Piling			2002 2004
646 Construction of Hopper et C.1 90 91 24M/GGA 3-M/MGA	018A52	Excavation/Construction of Shafts/Adits/Chambers	06	06	28AUG08A	26MAR09A 28	3AUG08A	26MAR09A	N			5			
66.6 3 autoria di Sjata Ramp	018A54	Construction of Hopper at O-1	6	06		31JAN09A 28	BAUG08A	31JAN09A	2		in a	warded to Mi	littech	-	
636 Open Cut Ecconation 6 Construction at 13 0 3 2 AUOG0A 5 AUOG0A 5 AUOG0A 5 AUOG0A 5 AUOG0A 5 AU 5 AU 640 1 Image 7 Au 7 Au 7 Au 7 Au 7 Au 7 Au 641 1 Unred Class Management System (TMS) 90 90 2 AUOG0A 2 AUNC0A 2 AUNC0A 2 AU 7 Au 642 Supply of Ral Treex. 90 90 2 AUOG0A 2 AUNC0A 2 AUNC0A 2 AU 643 2 AUO 2 AU 2 AUOG0A 2 AUNC0A 2 AUNC0A 2 AU 2 AU 644 6400 V 2 AUNC0A 2 AUNC0A 2 AUNC0A 2 AUNC0A 2 AUNC0A 2 AUNC0A 7 AU Maal Vicina 2 AU 2 AUNC0A 7 AU Aunt AUNC0A 2 AUNC0A	018A56	Suttering of Spiral Ramp	233				BAUG08A	26JUL09	6	200		-			
0000 Image frames/and system (TUMS) 23 23 234U0034 534U0034 534U0034 534U0034 534U0034 534U0034 534U0334 534U0334 534U0334 534U0334 534U0334 534U0334 534U0334 534U033 534U0334 534U033 534U0334 534U033 534U133 5 545 61 0 0 0 0 234U03 265E903 104 2 166 74 Finaling Works 2	18A58	Open Cut Excavation & Construction at I-3	90	06		02MAY09A 28		02MAY09A	0			-			
off Turnel Data Management System (TDMS) 90 02 24MC06A 50AFF06A 23ML06AB 23ML06AB <td>118A60</td> <td>Lining Formworks for Underground Structures</td> <td>233</td> <td>233</td> <td></td> <td></td> <td></td> <td>05AUG09</td> <td>2</td> <td>137</td> <td></td> <td>1</td> <td></td> <td></td> <td>5.03</td>	118A60	Lining Formworks for Underground Structures	233	233				05AUG09	2	137		1			5.03
AB2 Supply of Fail Tack. 500 27000000000000000000000000000000000000	18A61	Tunnel Data Management System (TDMS)	66	90		03APR09A 28		03APR09A	N						
646 Supply of Agregata 720 275 285 3.41U03 254.1013 254.1013 254.10	118A62	Supply of Rail Track	66	06		26MAR09A 28	8AUG08A	26MAR09A	7						
6000000000000000000000000000000000000	18A64	Supply of Aggregate	120				SFEB09A	28JUL09	N	-64		₽			
AT0 Meal Works Meal Works <td>18A68</td> <td>Construct Box Culvert/Cascade/Spiral Ramp at O-1</td> <td>200</td> <td></td> <td></td> <td></td> <td>SFEB09A</td> <td>16SEP09</td> <td></td> <td>566</td> <td></td> <td>ŀ</td> <td></td> <td></td> <td></td>	18A68	Construct Box Culvert/Cascade/Spiral Ramp at O-1	200				SFEB09A	16SEP09		566		ŀ			
472 Preparation from the Undained from the U	18A70	Metal Works	200	200				160CT09	N	593					
474 Finishing Works 250 250 251	18A72	Pipe Jacking Works at Lo Wai	250					16OCT09	ы	301					
Submit Contractor's Management Team 0 0 10JAN0BA 10JAN0BA 2 Per SCC 74 383 Submit Photographer for Monthly Progress Photo 0 0 2JAN0BA 2JAN0BA 2 APPer SCC 74 383 Insult Photographer for Monthly Progress Photo 0 0 2JAN0BA 2JAN0BA 2 APPer SCC 74 383 Insult PhotoGrapher for Monthly Progress Photo 0 2JAN0BA 2BIAN0BA 2 APPer SCC 74 383 Insult PhotoGrapher for Monthly Progress Photo 0 0 2JAN0BA 2BIAN0BA 2 APPer SCC 74 383 Presentation of TDMS to SOR/Employer, ER 4.4.6 6 0 0 1NOV11 0FEB12 2DEC11 2 MAY0B 2 MAY0BA	18A74	Finishing Works	250	-	28FEB09A	_		05DEC09	3	549					200
0 0 0 23JAN08A 10JAN08A 2 0 Per SCC 74 0 0 23JAN08A 23JAN08A 10JAN08A 2 Per FEC 74 0 0 23JAN08A 23JAN08A 28JAN092 28JAN192	so S				in the second										2000
0 0 0 0 10JAN08A 10JAN08A 10JAN08A 10JAN08A 10JAN08A 2 Per EX C74 0 0 0 28JAN08A 28JAN08A 10JAN08A 2 Per EX 01 2 Per EX 01 1 30 28FEB09A 28MAY09A 28MAY09A </td <td></td>															
Ito 0 28JAN03A 28JAN13A 28JAN13 27JAN13	01928	Submit Contractor's Management Team	0	0				10JAN08A	N	•	er SCC 74				
0 30 30 28FEB09A 29MAY09 28FEB09A 29MAY09 28FEB09A 29MAY09 20MAY09A 20MAY08A 20MAY08A 20MAY08A 17FEB13 2 29B 20MA 20MA <t< td=""><td>01930</td><td>Submit Photographer for Monthly Progress Photo</td><td>0</td><td>0</td><td>28JAN08A</td><td></td><td>SJANOBA</td><td></td><td>2</td><td></td><td>er ER10.7</td><td></td><td></td><td>8</td><td>1000</td></t<>	01930	Submit Photographer for Monthly Progress Photo	0	0	28JAN08A		SJANOBA		2		er ER10.7			8	1000
I.4.6 6 5 77MAR09A 06MAY09A 27MAR09A 06MAY09A 2 unnel excavation-fresentation of the TDMS to the S0 & DSD bero Jal 90 90 11NOV11 08FEB12 23DEC11 21MAR12 2 691 most excavation-fresentation of the TDMS to the S0 & DSD bero 90 90 90 11NOV11 08FEB12 23DEC11 21MAR13 13JAN13 18APR13 2 289 ER4.4.12 30 90 90 08DEC12 06JAN13 13JAN13 17FEB13 2 358 ER4.4.12 as per ER4.4.12 7 30 08DEC12 06JAN13 13JAN13 17FEB13 2 358 ER4.4.12 as per ER4.4.12 7 7 7 7 7 2 358 ER4.4.12 as per ER4.4.12 6 6 12APR08A 17FEB13 2 358 ER4.4.12 as per ER4.4.12 7 2 2 3 2 3 2 2 2 2 2	01932	Install Project Signboards at Potions A,B,C & D	30	30	28FEB09A	29MAY09 28	SFEB09A	29MAY09	N						
Jal 30 90 11NOV11 08FEB12 23DEC11 21MAR12 2 691 90 90 90 91NOV11 08FEB12 23DEC11 21MAR13 13JAN13 18APR13 2 293 as per ER4.4.12m 30 30 08DEC12 07/MAR13 13JAN13 13APR13 2 358 as per FR4.4.12m 7 7 30 08DEC12 06JAN13 13JAN13 17FEB13 2 358 And As per FR4.4.12m 7 7 2 06 DEC12 06JAN13 13JAN13 17FEB13 2 358 And	01934	Presentation of TDMS to SOR/ Employer, ER 4.4.6	Q	Ø	27MAR09A	D6MAYD9A 27	7MAR09A	06MAY09A	2	auun	l excavation		n of the TDMS	to the SO &	DSD before
90 90 08DEC12 07MAR13 19JAN13 18APR13 2 298 as per ER4.4.12m 30 30 08DEC12 06JAN13 19JAN13 17FEB13 2 358 as per ER4.4.12m 7 7 7 7 7 7 7 7 21 21 07APR08A 20AUG08A 07APR08A 20AUG08A	01940	Prepare/submit Operation & Maintenance Manual	6	6	11NOV11		3DEC11	21MAR12	N	691				Sa	er ER4.4.11
30 30 08DEC12 06JM13 19JM13 17FEB13 2 368 1 1 21 21 07AP08A 20AUG08A 07APR08A 20AUG08A 20AUG08A 2 adlP adlP adlP adlP 60 60 22MAY08A 130CT08A 20AUG08A 2 adlP	01942	Prepare/submit As-built Drawings	6	06	08DEC12	07MAR13 19	9JAN13	18APR13	N	298					4.4.12
7 21 21 07APR08A 20AUG08A 07APR08A 20AUG08A 2 2 7 <th7< th=""> 7 1 <th< td=""><td>01944</td><td>Produce 2 documentary video for tunnel</td><td>30</td><td>30</td><td>08DEC12</td><td>06JAN13 19</td><td>9JAN13</td><td>17FEB13</td><td>3</td><td>358</td><td></td><td></td><td></td><td></td><td>BER 4.4.13</td></th<></th7<>	01944	Produce 2 documentary video for tunnel	30	30	08DEC12	06JAN13 19	9JAN13	17FEB13	3	358					BER 4.4.13
offs at Portion A (I-1) Z1 Z1 Z1 Z1 Z1 Z1 Z2 Z2 <td>struction</td> <td>Risk Assessment (CRA) as per ER 7</td> <td></td>	struction	Risk Assessment (CRA) as per ER 7													
Prepare/submit PCRA for works at I-1 21 21 07APR08A 20AUG08A 20AUG08A 2 Temperely submit DC review & certify PCRA for works at I-1 60 60 22MAY08A 13OCT08A 20AUG08A 2 TemPerely submit SOR review & accept PCRA at works at I-1 60 60 22MAY08A 13OCT08A 25SEP08A 2 2 TemPerely submit GEO review & accept PCRA at works at I-1 60 60 12MAY08A 25SEP08A 2 2 TemPerely submit GEO reviewlagree PCRA 28 210CT08A 03DEC08A 2 2 2 TemPerely submit orks at Portion B (I-2) 2 2 14APR08A 20AUG08A 14APR08A 2 2 2 TemPerely submit	A for Works	s at Portion A (I-1)													
DC review & certify PCRA for works at I-1 60 60 22MAY08A 13OCT08A 23MAY08A 13OCT08A 2 ************************************	PCRA2	Prepare/submit PCRA for works at I-1	21	21	07APR08A	20AUG08A 07		20AUG08A	2		Ins AIP sul	nuission			
SOR review & accept PCRA at works at I-1 60 60 12MAY08A 25SEP08A 12MAY08A 2 7 7 GEO review/agree PCRA 28 310CT08A 09DEC08A 310CT08A 09DEC08A 2 7 7 orks at Portion B (I-2) 21 21 14APR08A 20AUG08A 14APR08A 20AUG08A 2 7 7	PCRA4	DC review & certify PCRA for works at I-1	60	60	22MAY08A	13OCT08A 22	2MAY08A	130CT08A	N		I				
GEO review/agree PCRA 28 28 310CT08A 09DEC08A 310CT08A 09DEC08A 2	PCRA6	SOR review & accept PCRA at works at I-1	60	60	12MAY08A		2MAY08A	25SEP08A	2		1		3	-	
orks at Portion B (I-2) Prepare/submit PCRA for works at I-2 21 21 14APR08A 20AUG08A 14APR08A 20AUG08A 2	PCRA8	GEO review/agree PCRA	28	28				09DEC08A	2		ER.				(55) A 1
Prepare/submit PCRA for works at I-2 21 21 14APR08A 20AUG08A 14APR08A 20AUG08A 20AUG08A 2	A for Works	s at Portion B (I-2)													
	DPCRB2	Prepare/submit PCRA for works at I-2	21	21	14APR08A	20AUG08A 14	4APR08A	20AUG08A	2		Ins AIP sul	mission		ER .	13/34

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Ę	Acuvity Describition	Dur Dur	Dur Start	Finish	Start	Finish	ID Float			
01R00PCRB4	DC review & certify PCRA for works at I-2	-	22	5	22MAY08A	130CT08A		0		
01R00PCRB6	SOR review & accept PCRA at works at I-2	60		-	22MAY08A	25SEP08A	2	1	•	
01R00PCRB8	GEO review/agree PCRA	28	28 310CT0	310CT08A 09DEC08A 310CT08A		09DEC08A	2	ER C. 7.6.4		
PCRA for Won	PCRA for Works at Portion C (I-3)									
01R00PCRC2	Prepare/submit PCRA for works at I-3	21	21 01APR08A	3A 20AUG08A 01APR08A	1	20AUG08A	2	AIP submission		
01R00PCRC4	DC review & certify PCRA for works at I-3	60	60 21MAY08A		130CT08A 21MAY08A	13OCT08A	2	1		
01R00PCRC6	SOR review & accept PCRA at works at I-3	60	60 21MAY08A	3A 25SEP08A 21MAY08A		25SEP08A	2			
01R00PCRC8	GEO review/agree PCRA	28	28 31OCT0	310CT08A 09DEC08A 310CT08A	310CT08A	09DEC08A	И	ER C. 7.6.4		
PCRA for Won	PCRA for Works at Portion D/E (0-1)									
01R00PCRD2	Prepare/submit PCRA for works at O-1	21	21 01APR08A	3A 20AUG08A 01APR08A	1.1	20AUG08A	2	AIP submission	-	
01R00PCRD4	DC review & certify PCRA for works at O-1	60	60 21MAY08A		130CT08A 21MAY08A	130CT08A	5	1		
01R00PCRD6	SOR review & accept PCRA at works at 0-1	. 09	60 12MAY08A		25SEP08A 12MAY08A	25SEP08A	10	1		
01R00PCRD8	GEO review/agree PCRA	78	28 31OCT0	28 310CT08A 09DEC08A 310CT08A 09DEC08A	310CT08A	09DEC08A	10	EER C. 7.6.4		
PCRA for Won	PCRA for Works at Portion F/J (Main Tunnel)									
01R00PCRF2	Prepare/submit PCRA for main tunnel works	21	21 09JUN08A	3A 23APR09A 09JUN08A	1.1	23APR09A	2	AIP submission	lission	
01R00PCRF4	DC review & certify PCRA for main tunnel works	60	60 14JUL08A	60NUL80	14JUL08A	60NUL80	2 -77	1		
01R00PCRF6	SOR review & accept PCRA for main tunnel works	60	60 16JUL08A	A 16JUN09 16JUL08A		16JUN09	2 -78			
01R00PCRF8	GEO review/agree PCRA	28	28 28FEB09A	-	09JUN09 28FEB09A	60NNF60	2 0	ER CI. 7.6.4	7.6.4	
DCRA for Wor	DCRA for Works at Portion A (I-1)									
01R00DCRA2	Prepare/submit DCRA for works at I-1	14	14 020CT08A	3A 270CT08A 020CT08A		270CT08A	2	DDA submission	c	
01R00DCRA4	DC review & certify DCRA for works at I-1	21	280	1	1.1	17FEB09A	2	1		
01R00DCRA6	SOR review & accept DCRA at works at I-1	49	49 05NOV0	49 05NOV08A 26MAR09A 05NOV08A	100	26MAR09A	2	1		
01R00DCRA8	GEO review/agree DCRA	28	28. 28FEB09A	3A 27MAR09A 28FEB09A	1	27MAR09A	2	EER CI. 7.6.4	4	
DCRA for Wor	DCRA for Works at Portion B (1-2)									
01R00DCRB2	Prepare/submit DCRA for works at I-2	14	14 14OCT08A		02JUN09 14OCT08A	02JUN09	2 0	The DDA sut	DDA submission	
01R00DCRB4	DC review & certify DCRA for works at I-2	21	21 05DEC08A		09JUN09 05DEC08A	60N/160	2 0	1		
01R00DCRB6	SOR review & accept DCRA at works at I-2	49	49 10DEC08A	16JUN09	10DEC08A	16JUN09	2 7	1		252
01R00DCRB8	GEO review/agree DCRA	28	28 10JUN09	6 07JUL09 10JUN09		07JUL09	2 0	BER CI. 7.6.4	7.6.4	
DCRA for Wor	DCRA for Works at Portion C (I-3)									
01R00DCRC2	Prepare/submit DCRA for works at I-3	14	14 14OCT08A	-	03JUN09 14OCT08A	60NNCE0	2 -59	DDA sut	DDA submission	
01R00DCRC4	DC review & certify DCRA for works at I-3	21	21 310CT08A	10JUN09	310CT08A	10JUN09	2 -59	1		
01R00DCRC6	SOR review & accept DCRA at works at I-3	49	49 07NOV08A	17JUN09	07NOV08A	17JUN09	2 -59	1		
01R00DCRC8	GEO review/agree DCRA	28	28 11JUN09	08JUL09	11JUN09	08JUL09	2 0	BER CI. 7.6.4	7.6.4	
DCRA for Wor	DCRA for Works at Portion D/E (0-1)									
01R00DCRD2	Prepare/submit DCRA for works at 0-1	14	14 03NOV08A		03JUN09 03NOV08A	60NULEO	2 -157	DDA sui	DDA submission	
01R00DCRD4	DC review & certify DCRA for works at O-1	21	21 15NOV08A	10JUN09	15NOV08A	10JUN09	2 -157	1		
01R00DCRD6	SOR review & accept DCRA at works at O-1	49	49 15NOV08A	60NULT1	15NOV08A	17JUN09	2 -157	1		
01R00DCRD8	GEO review/agree DCRA	28	28 11JUN09	9 08JUL09 11JUN09		08JUL09	2 0	ER CI, 7.6.4	7.6.4	
DCRA for Wor	DCRA for Works at Portion F/J (Main Tunnel)									
01R00DCRF2	Prepare/submit DCRA for main tunnel works	21	21 14MAR09A		23JUN09 14MAR09A	23JUN09	2 -78	PDDA su	DDA submission	
01R00DCRF4	DC review & certify DCRA for main tunnel works	21	21 24JUN09	14JUL09	24JUN09	14JUL09	2 -78	-		
01R00DCRF6	SOR review & accept DCRA for main tunnel works	49	1	9 11AUG09	24JUN09	11AUG09				
	GEO review/serree DCDA			Commun contract of	Ī					

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WP3D C Foat		V08A 2 the acceptance of the SO	2			R0A 2 Ewithin 1 month from DOC	4 0	N		V14 2 30		P08A 2 Aaccommodation for accupation as per App. ER.M	V08A 2 Acare of the works insurance has been effected	V08A 2 Isoto party insurance has been effected	V08A 2 I hisurance has been effected.	Y08A 2 Intersphert delivered for use of the SO	2 Octombrier	2 1,602	2 Pphys	2 43	2 11,657 p as per ER 4,4,10	2 691 O&MM o	2 298	2 358 tu	2	• •	2 Ootall o	2 O of a	N N	2 1,163	2 1,072	2 980	2 889	2 798 🔶 Of	P10 2 707 P10 2 707	C10 2 615 C10 2 615	2 524	2 433	2 342 of all obligations by this CS 45	2 360	R13 2 297 of all obligations 3 mths frm DOM excl. Sec. 7 Im
AD04 WP3D WP Finish Start Fin		27NOV08A 15FFB08A 27NOV08A	1			ECOTA DEFERORA 28DECOTA DEFERORA		IFEBUSA TUMAKUSA TSFEE		30NOV13 25FEB09A 11JAN14		13SEP08A 13SEP08A	03JAN08A 03JAN08A	03JAN08A 03JAN08A	03JAN08A 03JAN08A	02MAY08A 02MAY08A	13SEP08A 13SEP08A	11AUG09 11AUG09	27NOV08A 27NOV08A	27FEB09A 27FEB09A	60NULT1 60NULT1	08FEB12 21MAR12	07MAR13 18APR13										27MAR10 27MAR10	26JUN10 26JUN10	25SEP10 25SEP10	26DEC10 26DEC10	27MAR11 27MAR11	26JUN11 26JUN11	25SEP11 25SEP11	04JAN13 15FEB13	08MAR13 19APR13
Start		255 15FFR08A 271	15F			30 JRDEC07A 00	ZOUCCUT	TUMARUSA	02JUN08A	25FEB09A		0 13	0 03	0 03	0 03			11			0							0 27						0 20	0 21				0		-
DO4 WP3D		255		- 11		90	+	+	30	1,433 1,433		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Activity Description	Physical Models & Other Material Display	· Dranasce/stytemist a schweized modele	Prenare/submit a 3-D animation model		nternet Website as per EK 4.4./	Descent the design of units seen	Propose the design of web page	Produce the web page for approval of SO	SO's approval of web page	Submit updated web pages monthly	Schedule of Milestones for Cost Centre No. 1R	1R 1; On provision of SO's Accommodation	1R 2; On providing documents of effected CWI	1R 3; On providing documents of effected TPI	1R 4; On Pproviding documents of effected PII	1R 5; On delivery of all Land Transport for SO	1R 6; On install. of computer facilities for SO	1R 7; On accept of detailed CRA ind. PCS	1R 8; On acceptance of Physical Model by the SO	1R 9; On acceptance of 3-D Animation Model	- IR 10; On satisf. operation of CCTV for 3 mth	1R 11; On acceptance of O&MM	1R 12; On acceptance of as-built drwgs.	1R 13; On acceptance of T.R/Video/Brouchure	1R 14; On complete all wks for 3 mth frm DOC	1R 15; On complete all wks for 6 mth frm DOC	1R 16; On complete all wks for 9 mth frm DOC	1R 17; On complete all wks for 12 mth frm DOC	1R 18; On complete all wks for 15 mth fm DOC	1R 19; On complete all wks for 18 mth frm DOC	1R 20; On complete all wks for 21 mth frm DOC	1R 21; On complete all wks for 24 mth frm DOC	1R 22; On complete all wks for 27 mth frm DOC	1R 23; On complete all wks for 30 mth frm DOC	1R 24; On complete all wks for 33 mth fm DOC	1R 25; On complete all wks for 36 mth frm DOC	1R 26; On complete all wks for 39 mth frm DOC	1R 27; On complete all wks for 42 mth frm DOC	1R 28; On complete all wks for 45 mth frm DOC	1R 29; On issuance of completion certificates	1R 30; On complete all wks for 3 mth frm CMP
9	Physical Mo	000000000000000000000000000000000000000	018000304	LOCZODNI D	Internet Wei	COLOCOLLO	01H0002402	01R0002404	01R0002406	01R0002408	Schedule of	01R0002501	01R0002502	01R0002503	01R0002504	01R0002505	01R0002506	01R0002507	01R0002508	01R0002509	01R0002510	01R0002511	01R0002512	01R0002513	01R0002514	01R0002515	01R0002516	01R0002517	01R0002518	01R0002519	01R0002520	01R0002521	01R0002522	01R0002523	01R0002524	01R0002525	01R0002526	01R0002527	01R0002528	01R0002529	01R0002530

		2 206 of all obligations 6 mths frm DOM excl. Sec. 7	2 115 of all obligations 9 mths fm DOM excl. Sec. 7	2 0 certificate		2 669	1			2 395	2 304	2 289	2 337	2 30		2 • • • of all safety & env, obligations 3 mths frm DOC	2 • of all safely & env. obligations 6 mths frm DOC	2 Of all safey & env. obligations 9 mths fim DOC	2 Oct al safety & env. obligations 12 miths frm DOC	2 I oligations 15 mths frm DOC	2 1,647 I Sof all safety & env. obligations 18 mths firm DOC	2 1,556 On all safety & env. obligations 21 mths frm DOC	2 1,465 Interest of all safety & env. obligations 24 mths frm DOC	2 1,373 Contractions 27 miths frm DO	¢ot	1,191	1,100	1,008	917	826	735 or all sarety & env	2 29/ Or all safety & entry obligations 5 mins tinit DOMEXAL Section 7	114 of all safety & e	0					2 Eper ER 5.4.1. within 28 days of LOA		
Activity		19JUL13	180CT13	10FEB14		01MAR12	16MAR12	ZIVINIAN	Z8JAN12	11JAN13	01MAR13	16MAR13	27JAN13	11JAN14		27MAR08A	27JUN08A	26SEP08A	27DEC08A	27MAR09A	15JUL09	14OCT09	13JAN10	15APR10	15JUL10	140CT10	13JAN11	15APR11	15JUL11	140CT11	13JAN12	194PK13	190CT13	10FEB14				-	1		
Activity		113	13	213		212	212	217	112	/12	313	213	113	/13		08A	OBA	08A	08A	A90	109	600	600	310	410	010	C10	R11	411	011	011	213	013	C13				07A 14DEC07A	08A 14DEC07A	R08A 27FEB08A	
Description Dur Not any the construction te all wks for 6 mth frm CMP 0 0 te all wks for 8 mth frm CMP 0 0 e of maintenance certificate 0 0 Cost Centre No. 16R 0 0 tion of landscape wks; Portion A 0 0 tion of landscape wks; Portion B 0 0 tion of landscape wks; Portion B 0 0 tion of establish wks; Portion C 0 0 tion of establish wks; Portion B 0 0 tion of establish wks; Portion C 0 0 tion of establish wks; Portion	Finis	NNF20	06SEP	30DEC		01MAF	16MAF		28JAN	30NOV	01MAF	16MAF	27JAN	SONOV		27MAR	NUL72	26SEP	27DEC	27MAR	27JUN	26SEF	26DEC	28MAF	27JUN	26SEF	26DEC	28MAF	27JUN	26SEF	26DEC			30DEC				-		-	1
Description Dur Dur te all wks for 6 mth frm CMP 0 te all wks for 6 mth frm CMP 0 e of maintenance certificate 0 Cost Centre No. 16R 0 tion of landscape wks; Portion A 0 tion of landscape wks; Portion B 0 tion of andscape wks; Portion B 0 tion of andscape wks; Portion B 0 tion of establish wks; Portion C 0 tion of establish wks; Portion C 0 tion of establish wks; Portion B 0 tion of establish wks; Portion B 0 tion of establish wks; Portion C 0 tion of establish wks for 3 mth frm DOC 0 to all wks for 33 mth frm DOC 0 to all wks for 33 mth frm DOC 0 to all wks for 33 mth frm DOC 0 to all w		0	0	0					0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0				-	1		
Description Te all wks for 6 mth frm CMP te all wks for 9 mth frm CMP as of maintenance certificate Cost Centre No. 16R Cost Centre No. 16R Cost Centre No. 16R Cost Centre No. 16R Tion of landscape wks; Portion B tion of landscape wks; Portion D tion of establish wks; Portion D to all wks for 18 mth frm DOC to f all wks for 18 mth frm DOC to f all wks for 21 mth frm DOC to f all wks for 23 mth frm DOC to f all wks for 23 mth frm DOC to f all wks for 33 mth frm DOC to f all wks for 33 mth frm DOC to f all wks for 33 mth frm DOC to f all wks for 30 mth frm DOC te all wks for 30 mth frm DOC te f all wks for 5 mth frm DOC te f all wks for 6 mth frm DOC te f all wks for 7 mth frm DOC te f all wks for 6 mth frm DOC te f all wks for 7 mth frm DOC te f all wks for 7 mth frm DOC te f all wks for 6 mth frm DOC te f all wks for 6 mth frm DOC te f all wks for 7 mth frm DOC te f all wks for 6 mth frm DOC te f all wks for 6 mth frm DOC te f all wks for 6 mth frm DOC te f all wks for 7 mth frm DOC te f all wks for 7 mth frm DOC te f all wks for 6 mth frm DOC te f all wks for 7 mth frm D	DUG WF3			-		-	-	+	-	_		-		-		-	-	-					-	-						-	0								_	-	
		Ī			Milactonac for Cost Centre No. 16R							establish wks; Portion B	establish wks; Portion C		Schedule of Milestones for Cost Centre No. 17R	17R 1: On complet of all wks for 3 mth fm DOC	17R 2: On complet of all wks for 6 mth frm DOC	17R 3; On complet of all wks for 9 mth fm DOC	17R 4; On complet of all wks for 12 mth fm DOC	17R 5; On complet of all wks for 15 mth frm DOC	17R 6; On complet of all wks for 18 mth frm DOC	17R 7; On complet of all wks for 21 mth frm DOC	17R 8; On complet of all wks for 24 mth frm DOC	17R 9; On complet of all wks for 27 mth frm DOC	17R 10; On complet all wks for 30 mth frm DOC	17R 11; On complet all wks for 33 mth frm DOC	17R 12; On complet all wks for 36 mth fm DOC	17R 13; On complet all wks for 39 mth frm DOC	17R 14; On complet all wks for 42 mth frm DOC	17R 15; On complet all wks for 45 mth frm DOC	17R 16; On complet all wks for 48 mth frm DOC	17R 17; On complet of all wks for 3 mth frm CMP	1/R 18; On complet of all wks for 6 mth firm CMP 476 10: On community of all wks for 6 mth firm CMP	17R 20: On issuance of maintenance certificate	sign Check for Permanent Works	de Packages	in Plan (PDP)	Employ Independent Designer			

9	Activity Description	bad	Dur Dur	AD04 Start	ADDA	Start	WP3D Finish	D	Total Float					
02L10D0110	SO approves PDP	14	14		14MAY08A 04SEP08A 14MAY08A		04SEP08A	2	0					
02L10D0112	Employ Independent Design Checker	14	14	28DEC07A	01FEB08A 28DEC07A	28DEC07A	01FEB08A	2	0	-				
02L10D0114	Approval of Design Checker by the SO	28	28	02FEB08A	28FEB08A 02FEB08A	D2FEB08A	28FEB08A	2	13					
Design for Con	Design for Communication System												-	
02L1FE0102	Design preparation for the AIP submission	15	15	27JUN09	11JUL09 2	27JUN09	1110109	3	356					
02L1FE0103	Design (AIP) submission for the DC's approval	-	1	13JUL09	13JUL09 1	13JUL09	13JUL09	1	288	-			_	
02L1FE0104	Design (AIP) certification by the Design Checker	28	28	14JUL09	10AUG09 14JUL09	14JUL09	10AUG09	2	356	u			-	
02L1FE0106	Design (AIP) submission for the SO's approval	-	+	13JUL09	13JUL09 1	13JUL09	13JUL09	÷	294	4			_	
02L1FE0108	Design (AIP) review by the SO	60	60	21JUL09	18SEP09 2	21JUL09	18SEP09	2	356	11			_	
02L1FE0110	AIP submission for rel. authorities' approval	Ŧ	-	13JUL09	13JUL09 1	13JUL09	13JUL09	-	321	-			-	
02L1FE0112	Design (AiP) review by the rel. authorities	28	28	21JUL09	17AUG09 2	21JUL09	17AUG09	2	387	8			_	
02L1FE0114	Obtain rel. authorities's approval for AIP		+	18AUG09	18AUG09 18AUG09	ISAUG09	18AUG09		315	-			_	
02L1FE0116	Obtain SO's consent for design (AIP)	0	0		19SEP09		19SEP09	~	356	•			_	
02L1FE0118	Design preparation for the DDA submission	30	30	28AUG09	26SEP09 2	28AUG09	26SEP09	2	356					
02L1FE0119	Design (DDA) submission for the DC's approval	-	4	28SEP09	28SEP09 2	28SEP09	28SEP09	-	288	-			-	-
02L1FE0120	Design (DDA) certification by the Design Checker	28	28	29SEP09	260CT09 2	29SEP09	260CT09	2	356	8			_	-
02L1FE0122	Design (DDA) submission for the SO's approval	+		28SEP09	28SEP09 2	28SEP09	28SEP09	-	293	1	_		_	-
02L1FE0124	Design (DDA) review by the SO	60	60	06OCT09	04DEC09 06OCT09	DEOCT09	04DEC09	~	356	H			_	
02L1FE0126	DDA submission for rel. authorities' approval	+		28SEP09	28SEP09 2	28SEP09	28SEP09	•	319				_	
02L1FE0128	Design (DDA) review by the rel. authorities	28	28	06OCT09	02NOV09 06OCT09	060CT09	02NOV09	2	388	u			_	
02L1FE0130	Obtain rel. authorities's approval for DDA	*		03NOV09	03NOV09 03NOV09	BOVONEC	03NOV09		316					
02L1FE0132	Obtain SO's consent for design (DDA)	0	0		05DEC09		05DEC09	N	356	•				
Design for Flow	Design for Flow Measurement System								1					
02L1FE0202	Design preparation for the AIP submission	0	0		11MAY09A		11MAY09A	2						
02L1FE0203	Design (AIP) submission for the DC's approval	-	F	29MAY09	29MAY09 2	29MAY09	29MAY09	-	410					
02L1FE0204	Design (AIP) certification by the Design Checker	28	28	30MAY09	26JUN09 30MAY09	BOMAY09	26JUN09	~	502	11				
02L1FE0206	Design (AIP) submission for the SO's approval	-	-	12MAY09A	12MAY09A 12MAY09A	12MAY09A	12MAY09A	-		-				
02L1FE0208	Design (AIP) review by the SO	60	60	13MAY09A	24JUL09	13MAY09A	24JUL09	~	502	ņ				
02L1FE0210	AIP submission for rel. authorities' approval	-		29MAY09	29MAY09 29MAY09	29MAY09	29MAY09	-	432					
02L1FE0212	Design (AIP) review by the rel. authorities	28	28	06JUN09		06JUN09	0370209	2	522					
02L1FE0214	Obtain rel. authorities's approval for AIP	-	٢	04JUL09	04JUL09 (04JUL09	04JUL09	-	427	_		_		
02L1FE0216	Obtain SO's consent for design (AIP)	0	0		25JUL09		25JUL09	2	502	•				
02L1FE0218	Design preparation for the DDA submission	30	30	0370109	01AUG09 03JUL09	03JUL09	01AUG09	2	502	u			_	
02L1FE0219	Design (DDA) submission for the DC's approval	-	1	03AUG09	03AUG09 (03AUG09	03AUG09	-	410	-				-
02L1FE0220	Design (DDA) certification by the Design Checker	28	28	04AUG09	31AUG09 04AUG09	04AUG09	31AUG09	3	501	n				
02L1FE0222	Design (DDA) submission for the SO's approval	-	٣	03AUG09	03AUG09 03AUG09	03AUG09	03AUG09		416	-				
02L1FE0224	Design (DDA) review by the SO	60	60	11AUG09	090CT09 11AUG09	11AUG09	090CT09	3	501	0			_	
02L1FE0226	DDA submission for rel. authorities' approval	-	-	03AUG09	03AUG09 03AUG09	03AUG09	03AUG09	-	440	-			_	
02L1FE0228	Design (DDA) review by the rel. authorities	28	28	11AUG09	07SEP09 11AUG09	11AUG09	07SEP09	8	533	U			_	
02L1FE0230	Obtain rel. authorities's approval for DDA	-	-	08SEP09	08SEP09 08SEP09	08SEP09	08SEP09	-	431	1			_	
1001 1FE0030	Obtain design (DDA) approval from the SO	0	0		100CT09		100CT09	2	501	•			_	

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Activity Description	AD04 WP3D Dur Dur	WP3D	AD04 Start	Finish V	WP3D Start	WP3D Finish	Cal Te	Float					
Design Packages for Works in Portion A											-		
Temp. Steel Decking Design Over Shing Mun Nullah													
Design preparation by the Designer	14	14	-	15MAY08A 22FEB08A	EB08A 15	15MAY08A	2						
Design certification by the Design Checker	14	14		26MAY08A 16MAY08A	IAY08A 26	26MAY08A	N	-					
Design submission for the SO's approval	1	-	26MAY08A	26MAY08A 26MAY08A		26MAY08A	-	-	-				
Design review by the SO	21	21 2	27MAY08A	30JUN08A 27MAY08A	1.	30JUN08A	2						
Obtain design approval from the SO	0	0		30JUN08A	30	30JUN08A	2		•				_
Spiral Ramp/Cascade/Box Culvert								-					
Design preparation for the DDA submission	158	158 C	02MAY08A	16FEB09A 02MAY08A		16FEB09A	3						-
Design submission for the DC's approval	2	N	10JUL08A	17FEB09A 10JUL08A	1.00	17FEB09A	F						
Design (DDA) certification by the Design Checker	30	30	11JUL08A	17FEB09A 11JUL08A	1.1	17FEB09A	0						
Design (DDA) submission for the SO's approval	2	2	12AUG08A	17FEB09A 12AUG08A		17FEB09A	•						2
Design (DDA) review by the SO	68	68 1	13AUG08A	14MAR09A 13AUG08A		14MAR09A	2						-
SO submit design (DDA) for approval of GEO	-	-	03FEB09A	03MAR09A 03FEB09A	1	O3MAR09A	-		13	7 days after ICE certification	E certification		1.1
Design (DDA) review/approval by the GEO	28	28 C	04MAR09A	31MAY09 04MAR09A		31MAY09	2	0					_
Obtain SO's consent for design (DDA)	0	0		24MAR09A	21	24MAR09A	2			•			22
Temp. Platform Design for H-Piling								-					
Design preparation by the Designer	15	15	04JAN10*	18JAN10 04JAN10*		18JAN10	2	330				-	
Design submission for the DC's approval		-	19JAN10	19JAN10 19JAN10		19JAN10	-	269		-			-
Design certification by the Design Checker	28	28	20JAN10	16FEB10 20JAN10		16FEB10	3	330		12			
Design submission for the SO's approval	-	۲	19JAN10	19JAN10 19JAN10		19JAN10	+	269		-			
Design review by the SO	42	42	20JAN10	02MAR10 20JAN10		02MAR10	2	330		11			
Obtain design approval from the SO	0	0		02MAR10	0	02MAR10	2	330		•			_
Culver Design for Portion A											-	-	
Design preparation for the AIP submission	30	30	02JUN08A	28FEB09A 02JUN08A		28FEB09A	2						
Design (AIP) submission for the DC's approval	e	3	12JUL08A	02MAR09A 12JUL08A		02MAR09A	÷					-	
Design (AIP) certification by the Design Checker	243	243	14JUL08A	18MAR09A 14JUL08A		18MAR09A	2			11 ICE on 1	t ICE on 17/09/092nd ICE cert	E cert on 02/12/08	2/08
Design (AIP) submission for the SO's approval	8	2	15JUL08A	19MAR09A 15JUL08A		19MAR09A	-	1					
Design (AIP) review by the SO	66	99	16JUL08A	20MAR09A 16JUL08A		20MAR09A	2						
AIP submission for rel. authorities' approval	-	-	14JUL08A	19AUG08A 14JUL08A		19AUG08A	+	1			_		
Design (AIP) review by the rel. authorities	28	28	15JUL08A	12NOV08A 15JUL08A		12NOV08A	2						
Obtain rel. authorities's approval for AIP		-	03NOV08A	12NOV08A 03NOV08A	-	12NOV08A	+	-					
Obtain SO's consent for design (AIP)	0	0		20MAR09A	3	ZOMARO9A	2			•			
Design preparation for the DDA submission	30	30	21MAR09A	12JUN09 21N	21MAR09A 1	12JUN09	N	124		u.	-	_	4
Design (DDA) submission for the DC's approval		-	13JUN09	13JUN09 13J	13JUN09 1:	13JUN09	÷	105		_			
Design (DDA) certification by the Design Checker	28	28	14JUN09	11JUL09 14J	14JUN09	11JUL09	2	126		**			10
Design (DDA) submission for the SO's approval	-	-	13JUN09	13JUN09 13	13JUN09 1	13JUN09		103					
Design (DDA) review by the SO	99	99	14JUN09	18AUG09 14J	14JUN09 1	18AUG09	2	124					_
DDA submission for rel. authorities' approval	-	+	20JUN09	LOS BONULOS	20JUN09 2	20JUN09	1	128					-1
Design (DDA) review by the rel, authorities	28	28	21JUN09	18JUL09 21J	21JUN09 1	18JUL09	2	155		13			-
Obtain rel. authorities's approval for DDA			2010109	2010109 201	2010109 21	2010109		129		-			2
Ottain CO's second for design (DDA)	c	0		19411000	Ŧ	19ALIG09	~	124		•	-		4

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9	Activity	Due WP3D	Dur	Start	ADOM	Start	Finish		Float		tite for			
act Assess	Impact Assessment on WSD Wo YIp Hop V. S. P. H.													
02L1AA0502	Design preparation for the DDA submission	30	30 0	02MAY08A	26FEB09A 02MAY08A	2MAY08A	26FEB09A	2					_	6.1
02L1AA0503	Design (DDA) submission for the DC's approval		1 2	26JUN08A	27FEB09A 26JUN08A		27FEB09A	+						
02L1AA0504	Design (DDA) certification by the Design Checker	60	60 2	27JUN08A	11MAR09A 27JUN08A		11MAR09A	2			1st ICE cert o	ICE cert on 02/12/08		_
02L1AA0506	Design (DDA) submission for the SO's approval	7	2	14JUL08A	24MAR09A 14JUL08A		24MAR09A	÷						
02L1AA0508	Design (DDA) review by the SO	99	66 1	15JUL08A	31MAR09A 15JUL08A	5JUL08A	31MAR09A	8	-					
02L1AA0510	DDA submission for rel, authorities' approval	2	2	10JUL08A	14MAR09A 10JUL08A	DJULOBA	14MAR09A	+						
021 1AA0512	Design (DDA) review by the rel. authorities	28	28	14JUL08A	31MAY09 14JUL08A	4JUL08A	31MAY09	2	0			_		
021 1AA0514	Obtain rel. authorities's approval for DDA	-	-	01JUN09	01JUN09 0	60NUL10	60NUL10	+	0				-	
02L1AA0520	Obtain SO's consent for design (DDA)	0	0		31MAR09A		31MAR09A	2			•		2	
nnoran Pla	Temporary Platform for Pipe Piling													
021 1AA0602	Design preparation by the Designer	11	11	21JUL08A	23AUG08A 21JUL08A	1JUL08A	23AUG08A	N	1					
02L1AA0603	Design submission for the DC's approval	1	1 0	1AUG08A	1 01AUG08A 25AUG08A 01AUG08A		25AUG08A						-	
02L1AA0604	Design certification by the Design Checker	21	21 0	02AUG08A	26SEP08A 02AUG08A	2AUG08A	26SEP08A	2	~	0				-
02L1AA0606	Design submission for the SO's approval		1	08AUG08A	27SEP08A 08AUG08A		27SEP08A	٣		1				
02L1AA0608	Design review by the SO	28	28 0	09AUG08A	170CT08A 09AUG08A		17OCT08A	2		0			2	-
02L1AA0610	Obtain design approval from the SO	0	0		17OCT08A		17OCT08A	2		٠			-	
nonary Wo	Temporary Works Design for Retrieval of TBM													1
02L1AA0702	Design preparation by the Designer	30	30 2	28FEB09A		8FEB09A	22JUN09	2	139		1			1
02L1AA0703	Design submission for the DC's approval	+		23JUN09	23JUN09 2	23JUN09	23JUN09	-	115				_	
02L1AA0704	Design certification by the Design Checker	28	28	24JUN09	21JUL09 24	24JUN09	21JUL09	8	139		-			1
02L1AA0706	Design submission for the SO's approval	+	٣	23JUN09	23JUN09 2	23JUN09	23JUN09		115				_	
02L1AA0708	Design review by the SO	42	42	24JUN09	04AUG09 24JUN09	4JUN09	04AUG09	~	139		11			2
02L1AA0710	Obtain design approval from the SO	0	0		04AUG09		04AUG09	2	139		•		_	
noorary Dr	Temporary Drainage Management Plan for Portion A								-					
02L1AA0802	TDMP preparation by the Designer	208	208 1	18AUG08A	23MAY09A 18AUG08A	8AUG08A	23MAY09A	2	-					-
02L1AA0804	TDMP submission for the DC's approval	2	2	24SEP08A	25MAY09A	4SEP08A	25MAY09A	-			-		_	
02L1AA0806	TDMP certification by the Design Checker	28	28 2	240CT08A	03JUN09 2	24OCT08A	03JUN09	0	142	110				_
02L1AA0808	TDMP submission for the SO's approval	2	2	05NOV08A	04JUN09 0	05NOV08A	04JUN09	-	165					2
02L1AA0810	TDMP review by the SO	6	90 0	05NOV08A	16JUL09 0	05NOV08A	16JUL09	2	192					
02L1AA0812	TDMP submission for DSD's approval	+	P	04JUN09	04JUN09	04JUN09	04JUN09	-	119				-	
02L1AA0814	TDMP review by the DSD	6	06	05JUN09	02SEP09 0	05JUN09	02SEP09	2	144		0			-
02L1AA0816	Obtain DSD's approval for DDA	*	Ŧ	03SEP09	03SEP09 0	03SEP09	03SEP09	-	117		~			
02L1AA0818	Obtain SO's consent for TDMP	0	0		03SEP09		03SEP09	2	144		•	2	-	-
otechnical	Geotechnical Instrumentation Stg 1 for GL Works													
3DL1AAG102	Design preparation by the Designer	14	14	22FEB08A	28APR08A 22FEB08A	2FEB08A	28APR08A	2		-				
3DL1AAG104	Design certification by the Design Checker	2	2	29APR08A	16JUN08A 29APR08A	9APR08A	16JUN08A	7		0				
3DL1AAG106	Design submission for the SO's approval	*	-	1 10MAY08A	10MAY08A 10MAY08A	0MAY08A	10MAY08A	-		_				
3DL1AAG108	Design review by the SO	14	14	12MAY08A	28AUG08A 12MAY08A	2MAY08A	28AUG08A	2						
3DL1AAG110	Obtain design approval from the SO	0	0		28AUG08A		28AUG08A	2		•				
3DL1AAG112	Install Geotechnical Instruments	9	9	26MAY08A	26MAY08A 26MAY08A	6MAY08A	26MAY08A	1		_				-
					0 000/0 0 000 0 000 0 000 0 0 0 0 0 0 0		0.00110.000	c	-					

Sheet 13 of 58

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Finish ID Float		24FEB09A 2	25FEB09A 2 💳	25FEB09A 1 =	24MAR09A 2	24MAR09A 2	04JUN09 1 0	25MAR09A 2	04FEB13 2 0 Performance			JSMAYOBA 2	2	08AUG08A 1	2	25SEP08A 2		2	12FEB09A 1 💳	2		11MAR09A 2	11MAR09A 2		21MAR09A 2	23MAR09A 1	13APR09A 2	- T	03JUN09 2 -210	+	2	-	05JUN09 2 -211		+	-	04APR09A 2	06APR09A 1	11MAY09A 2	-		11NOV08A 1	
THIS REAL THESE		14 01DEC08A 24FEB09A 01DEC08A 24	7 15DEC08A 25FEB09A 15DEC08A 25	1 07JAN09A 25FEB09A 07JAN09A 25	28 08JAN09A 24MAR09A 08JAN09A 24	0 24MAR09A 24	28 09FEB09A 04JUN09 09FEB09A 04	6 18FEB09A 25MAR09A 18FEB09A 25	02JUN08A 04FEB13 02JUN08A			15 24MAR08A 09MAY08A 24MAR08A 09MAY08A	14 10MAY08A DBAUG08A 10MAY08A 08AUG08A	1 21MAY08A 08AUG08A 21MAY08A 08	22MAY08A 25SEP08A 22MAY08A	0 25SEP08A 25		22 04AUG08A 11DEC08A 04AUG08A 11DEC08A	2 11DEC08A 12FEB09A 11DEC08A 12	EC08A 25FEB09A 12DEC08A	12DEC08A 25FEB09A 12DEC08A	21 13DEC08A 11MAR09A 13DEC08A 11	0 11MAR09A 11			2 05AUG08A 23MAR09A 05AUG08A 23	JG08A 13APR09A 06AUG08A	EP08A 14APR09A 24SEP08A	03JUN09 25SEP08A	235EP08A 235EP08A 235EP08A	24SEP08A 04JUN09 24SEP08A	02JUN09 05JUN09 05JUN09	0 02/10/09 00		UZJUNUBA 13MARUSA UZJUNUBA	11JUL08A 20MAR09A 11JUL08A	12JUL08A 04APR09A 12JUL08A	2 24JUL08A 06APR09A 24JUL08A 06	25JUL08A 11MAY09A 25JUL08A	12JUL08A 12JUL08A	10NOV08A 14JUL08A	11NOV08A 11NOV08A	
und und		14 14	2	**	28 28	0	28 28	9	1,643 11,643			15 11	14 14	-	21 2	0		22 22	2	14 1	11	21 2	0		313 313	2	213 21	_	6 06	-		-	0	-	2	+	-	2	66 66	-	28 21		
Description	Geotechnical Instrumentation Stg 2 for Deep Exc.	Design preparation by the Designer	Design certification by the Design Checker	Design submission for the SO's approval	Design review by the SO	Obtain design approval from the SO	Install Geotechnical Instruments	Baseline Monitoring	Monitor/report Geotechnical Instrumentation	Design Packages for Works in Portion B	Piling Platform to Construct H-pile Wall	Design preparation by the Designer	Design certification by the Design Checker	Design submission for the SO's approval	Design review by the SO	Obtain design approval from the SO	Temp. Platform to Construct Drop Shafts	Design preparation by the Designer	Design submission for the DC's approval	Design certification by the Design Checker	Design submission for the SO's approval	Design review by the SO	Obtain design approval from the SO	Temporary Drainage Management Plan	TDMP preparation by the Designer	TDMP submission for the DC's approval	TDMP certification by the Design Checker	TDMP submission for the SO's approval	TDMP review by the SO	TDMP submission for DSD's approval	TDMP review by the DSD	Obtain DSD's approval for DDA	Obtain SO's consent for TDMP	Temp. Support Design for MAA/MAS/VDS/DC	Design preparation for the AIP submission	Design (AIP) submission for the DC's approval	Design (AIP) certification by the Design Checker	Design (AIP) submission for the SO's approval	Design (AIP) review by the SO	AIP submission for rel. authorities' approval	Design (AIP) review by the rel. authorities	Obtain rel. authorities's approval for AIP	CO at land de la
	Geotechnical	3DL1AAG202	3DL1AAG204	3DL1AAG206	3DL1AAG208	3DL1AAG210	3DL1AAG212	3DL1AAG214	3DL1AAG216	Design Pack	Piling Platform	02L1BB0202	02L1BB0204	02L1BB0206	02L1BB0208	02L1BB0210	Temp. Platforn	02L1BB0302	02L1BB0303	02L1BB0304	02L1BB0306	02L1BB0308	02L1BB0310	Temporary Dra	02L1BB0402	02L1BB0403	02L1BB0404	02L1BB0406	02L1BB0408	02L1BB0410	02L1BB0412	02L1BB0414	02L1BB0416	Temp. Suppor	02L1BB0502	02L1BB0503	02L1BB0504	02L1BB0506	02L1BB0508	02L1BB0510	02L1BB0512	02L1BB0514	ADDACAC

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02L1BB0518	Design (AIP) review/approval by the GEO	28	28	30MAY09	26JUN09 30MAY09	26JUN09	2	0					1
02L1BB0520	Obtain SO's consent for design (AIP)	0	0		11MAY09A	11MAY09A	A 2						E
02L1BB0522	Design preparation for the DDA submission	30	30	28MAY09	26JUN09 28MAY09	39 26JUN09	2	0					
02L1BB0523	Design (DDA) submission for the DC's approval	-		27JUN09	27JUN09 27JUN09	60NUL72 6	1	0		_			
02L1BB0524	Design (DDA) certification by the Design Checker	28	28	28JUN09	25JUL09 28JUN09	19 25JUL09	8	+					
02L1BB0526	Design (DDA) submission for the SO's approval	-	-	27JUN09	27JUN09 27JUN09	60NUL72 6	-	0				_	
02L1BB0528	Design (DDA) review by the SO	99	66	28JUN09	01SEP09 28JUN09	9 01SEP09	0	0		1			
02L1BB0530	DDA submission for rel. authorities' approval	+		04JUL09	04JUL09 04JUL09	9 04JUL09	÷	26		Y			2
02L1BB0532	Design (DDA) review by the rel. authorities	28	28	05JUL09	01AUG09 05JUL09	9 01AUG09	2	31		-			1
02L1BB0534	Obtain rel. authorities's approval for DDA	-		03AUG09	03AUG09 03AUG09	03 03AUG09	1	26	_	-			
02L1BB0536	SO submit design (DDA) for approval of GEO	-		03AUG09	03AUG09 03AUG09	03 03AUG09	1	0		-	_		-
02L1BB0538	Design (DDA) review/approval by the GEO	28	28	04AUG09	31AUG09 04AUG09	09 31AUG09	2	0					13
02L1BB0540	Obtain SO's consent for design (DDA)	0	0		02SEP09	02SEP09	2	0		•			
o. Suppor	Temp. Support Design for MA and MANNT Connection												
02L1BB0602	Design preparation for the AIP submission	110	110	09JUN08A	02JUN09 09JUN08A	BONULZO ABO	2	0					
02L1BB0603	Design (AIP) submission for the DC's approval	-	-	18MAY09A	29MAY09 18MAY09A	09A 29MAY09	-	6					_
02L1BB0604	Design (AIP) certification by the Design Checker	28	28	19MAY09A	14JUN09 1SMAY09A	09A 14JUN09	2	0					
02L1BB0606	Design (AIP) submission for the SO's approval	-	+	60NULE0	GONNED BONNED	60NULE0 60	+	0			_		
02L1BB0608	Design (AIP) review by the SO	99	99	04JUN09	08AUG09 04JUN09	19 108AUG09	5	0		1			
02L1BB0610	AIP submission for rel. authorities' approval	-		GONULEO	BONNED BONNED	60NULE0 60	*	30					
02L1BB0612	Design (AIP) review by the rel. authorities	28	28	04JUN09	01JUL09 04JUN09	0170L09	N	36					
02L1BB0614	Obtain rel. authorities's approval for AIP	-	-	02JUL09	02JUL09 02JUL09	9 02JUL09		31		4			
02L1BB0616	SO submit design (AIP) for approval of GEO	-	F	22JUN09	22JUN09 22JUN09	90NUL22 80	-	0					
02L1BB0618	Design (AIP) review/approval by the GEO	28	28	23JUN09	20JUL09 23JUN09	19 20JUL09	N	0					
02L1BB0620	Obtain SO's consent for design (AIP)	0	0		09AUG09	03AUG09	5	0		•			
02L1BB0622	Design preparation for the DDA submission	30	30	18JUL09	16AUG09 18JUL09		5	0					
02L1BB0623	Design (DDA) submission for the DC's approval			17AUG09	17AUG09 17AUG09		-	0		-			
02L1BB0624	Design (DDA) certification by the Design Checker	28	28	18AUG09	14SEP09 18AUG09	09 14SEP09	3	0					
02L1BB0626	Design (DDA) submission for the SO's approval	-	-	17AUG09	17AUG09 17AUG09	09 17AUG09	1	0					
02L1BB0628	Design (DDA) review by the SO	66	66	18AUG09	220CT09 18AUG09	09 220CT09	5	0		1			Z
02L1BB0630	DDA submission for rel. authorities' approval	-	1	24AUG09	24AUG09 24AUG09	09 24AUG09	1	27		1			
02L1BB0632	Design (DDA) review by the rel. authorities	28	28	25AUG09	21SEP09 25AUG09	09 21SEP09	N	31					
02L1BB0634	Obtain rel. authorities's approval for DDA		-	22SEP09	22SEP09 22SEP09	09 22SEP09	F	25		+			
02L1BB0636	SO submit design (DDA) for approval of GEO	÷	F	22SEP09	22SEP09 22SEP09	09 22SEP09		0					1
02L1BB0638	Design (DDA) review/approval by the GEO	28	28	23SEP09	200CT09 23SEP09	09 200CT09	10	0					
02L1BB0640	Obtain SO's consent for design (DDA)	0	0		230CT09	230CT09	8	0		•	_		-
anent De	Permanent Design for MAA/MAS/VDS/DC												
02L1BB0702	Design preparation for the AIP submission	285	285	02JUN08A	02JUN09 02JUN08A	98A 02JUN09	2	0					
02L1BB0703	Design submission for the DC's approval	2	N	23JUL08A	03JUN09 23JUL08A	18A 03JUN09	1	0					
02L1BB0704	Design (AIP) certification by the Design Checker	60	60	24JUL08A	19JUN09 24JUL08A	19JUN09	2	0	I	-			
02L1BB0706	Design (AIP) submission for the SO's approval	0	N	04JUL08A	03JUN09 04JUL08A	BA D3JUN09	-		l				
02L1BB0708	Design (AIP) review by the SO	99	99	05JUL08A	19JUN09 05JUL08A	8A 19JUN09	2	-		-			
001 1 RB0710	AIP submission for rel. authorities' approval	-	-	03JUL08A	03JUL08A 03JUL08A	18A 03JUL08A	۲ ۲						

والمنافعة المراكلا متناشين أمناطهم ممالا مناطه مطفرهم	-		Ven II Nev	A SO THE ACT OWNERS		-	10	1	
Design (AIP) review by the rel. authorities	87	28 04		_		+	+		
Obtain rel. authorities's approval for AIP	-	1	GONULEO	BONNEO BONNEO	GONULEO BON		9		-
SO submit design (AIP) for approval of GEO	-	1 2	27JUN09	27JUN09 27JUN09	409 27JUN09		1 0		
Design (AIP) review/approval by the GEO	28	28 28J	80NUL8	25JUL09 28JUN09	409 25JUL09		2 0		-
Obtain SO's consent for design (AIP)	0	0		50NUL05	20JUN09		2 1		
Design preparation for the DDA submission	30	30 17	17NOV08A	Z7JUN09 17NOV08A	V08A 27JUN09		2 1	1	
Design submission for the DC's approval	÷	1 23	29JUN09	29JUN09 29JUN09	409 29JUN09	-	1 0		
Design (DDA) certification by the Design Checker	28	28 3	SOUUNDS	27JUL09 30JUN09	409 27JUL09		2 0		
Design (DDA) submission for the SO's approval	r.	1 29J	BONNCE	29JUN09 29JUN09	409 29JUN09	-	1 269		
Design (DDA) review by the SO	66	66 30	SOUUNOB	03SEP09 30JUN09		03SEP09	2 332	11	
DDA submission for rel. authorities' approval	÷	1 2	29JUN09	29JUN09 29JUN09		29JUN09	1 299		
Design (DDA) review by the rel. authorities	28	28 0	607NF20	03AUG09 07JUL09		03AUG09	2 363	B	
Obtain rel. authorities's approval for DDA	•	4	04AUG09	04AUG09 04AUG09		04AUG09	1 294	-	
SO submit design (DDA) for approval of GEO	-	4	04AUG09	04AUG09 04AUG09		04AUG09	1 0		
Design (DDA) review/approval by the GEO	28	28 05	05AUG09	01SEP09 05AUG09		01SEP09	2 0		
Obtain SO's consent for design (DDA)	0	0		04SEP09	04SE	04SEP09	2 332	•	
Permanent Design for MA and MA/MT Connection			-						2
Design preparation for AIP submission	90	60 06	A80NUL60 08	ABONULEO BONULT	17JUN09		2 120		
Design (AIP) submission for the DC's approval	2	2 30	30JUN08A	18JUN09 30JUN08A	408A 18JUN09		1 100		
Design (AIP) certification by the Design Checker	28	28 24	24JUL08A	06JUL09 24JUL08A	08A 06JUL09		2 120		_
Design (AIP) submission for the SO's approval	2	2 26	25JUL08A	07JUL09 25JUL08A	08A 07JUL09		1 102		
Design (AIP) review by the SO	66	66 26	î.	11AUG09 26JUL08A	-	11AUG09	2 120		
AIP submission for rel. authorities' approval	+	1 25	25JUL08A 0	07AUG08A 25JUL08A	1	07AUG08A	-	0	-
Design (AIP) review by the rel. authorities	28	28 26	26JUL08A	13JUL09 26JUL08A	08A 13JUL09		2 148		
Obtain rel. authorities's approval for AIP		+	14JUL09	14JUL09 14JUL09	-09 14JUL09		1 124	-	
SO submit design (AIP) for approval of GEO	÷	-	14JUL09	14JUL09 14JUL09	-09 14JUL09		1 100		_
Design (AIP) review/approval by the GEO	28	28 1	15JUL09	11AUG09 15JUL09		11AUG09	2 120	£	
Obtain SO's consent for design (AIP)	0	0		12AUG09	12AI	12AUG09	2 120	•	
Design preparation for the DDA submission	30	30 2	21JUL09	19AUG09 21JUL09		19AUG09	2 120		
Design (DDA) submission for the DC's approval	*-	1 20	20AUG09	20AUG09 20AUG09		20AUG09	1 101	-	
Design (DDA) certification by the Design Checker	28	28 2	21AUG09	17SEP09 21AUG09		17SEP09	2 122	1	
Design (DDA) submission for the SO's approval	÷	1 2	20AUG09	20AUG09 20AUG09		20AUG09	1 100		
Design (DDA) review by the SO	66	66 2	21AUG09	250CT09 21AUG09		250CT09	2 120		
DDA submission for rel. authorities' approval	÷	1 20	20AUG09	20AUG09 20AUG09		20AUG09	1 129		
Design (DDA) review by the rel. authorities	28	28 28	28AUG09	24SEP09 28AUG09		24SEP09	2 151		
Obtain rel. authorities's approval for DDA	-	1 2	25SEP09	25SEP09 25SEP09		25SEP09	1 120		
SO submit design (DDA) for approval of GEO		1	25SEP09	25SEP09 25SEP09		26SEP09	1 98		
Design (DDA) review/approval by the GEO	28	1.1	26SEP09	230CT09 26SEP09		230CT09	2 122		
Obtain SO's consent for design (DDA)	0	0	-	260CT09	260	260CT09	2 120	•	
ELS for Perm. Approach Channel Construction									
Design preparation by the Designer	14	14 01	01AUG09*	14AUG09 01AUG09*	1.0	14AUG09	2 86	•	
Design submission for the DC's approval	-	1	15AUG09	15AUG09 15AUG09		15AUG09	1 70	1	
	00	A AC	1EALIGOD	12SFP09 16ALIG09	1	12SFP09	2 86	===	

02L1BB0906 02L1BB0908 02L1BB0910				Start F	Finish Start	Finish	Float					
02L1BB0908 02L1BB0910	Design submission for the SO's approval	+	15		15AUG09 15AUG09	15AUG09	1 70				-	
02L1BB0910	Design review by the SO	42	42 16AUG09		26SEP09 16AUG09	26SEP09	2 86		11		01	
No. of the local days of the l	Obtain design approval from the SO	0	0	26,	26SEP09	26SEP09	2 86		•		5	
Platform Tor KL	Platform for RCD Operation (Air Vent Shaft)											
02L1BB1602	Prepare design/method statement	9	6 22NOV08A	-	01DEC08A 22NOV08A	01DEC08A	+-	**				
02L1BB1604	Submit design/method statement to Design Checker	~	1 02DEC08A		23DEC08A 02DEC08A	23DEC08A	-					
02L1BB1606	Certify design/m.s. by Design Checker	7	7 03DEC08A		24DEC08A 03DEC08A	24DEC08A	2	•				
02L1BB1608	Submit design/m.s. to SO	-	1 24DEC08A		24DEC08A 24DEC08A	24DEC08A	1					
02L1BB1610	Design/m.s. review by SO	14	14 25DEC08A		11MAR09A 25DEC08A	11MAR09A	2	1				
02L1BB1612	Obtain design/m.s. approval from the SO	0	0	11L	11MAR09A	11MAR09A	1	•				
Temporary Wo	Temporary Works for Air Vent Shaft Construction											
02L1BB1702	Prepare design/method statement	21	21 03NOV	16L 16L	03NOV08A 16DEC08A 03NOV08A	16DEC08A	1	8			0	
02L1BB1704	Submit design/method statement to Design Checker	-	1 17DEC08A		17DEC08A 17DEC08A	17DEC08A	+	1				
02L1BB1706	Certify design/m.s. by Design Checker	41	14 18DEC08A		23JAN09A 18DEC08A	23JAN09A	2	13		-		
02L1BB1708	Submit design/m.s. to SO	+	1 23JAN	JAN09A 23J	23JAN09A 23JAN09A	23JAN09A	-	14				
02L1BB1710	Design/m.s. review by SO	2	7 24JAN09A	1.1	23MAR09A 24JAN09A	23MAR09A	2	11				
02L1BB1712	Obtain design/m.s. approval from the SO	0	0	23N	23MAR09A	23MAR09A	+	•				
Permanet Desi	Permanet Design for Air Vent Shaft											
02L1BB1802	Prepare design/method statement	26	26 05NOV	11C 480	26 05NOV08A 11DEC08A 05NOV08A	11DEC08A	4	13				
02L1BB1804	Submit design/method statement to Design Checker	-	1 12DEC08A	_	12DEC08A 12DEC08A	12DEC08A	1					
02L1BB1806	Certify design/m.s. by Design Checker	21	21 13DEC08A		24MAR09A 13DEC08A		3	0				
02L1BB1808	Submit design/m.s. to SO	-	1 17DEC08A	1.1.1	24MAR09A 17DEC08A	24MAR09A	÷	1				
02L1BB1810	Design/m.s. review by SO	42	42 18DEC08A	-	31MAY09 18DEC08A	31MAY09	2 150					2
02L1BB1812	Submit design to rel. authorities	1	1 25MAR09A		25MAR09A 25MAR09A	25MAR09A	+					
02L1BB1814	Obtain design approval from rel. authorities	28	28 01MAR09A	-	28MAY09 01MAR09A	28MAY09	2 153	1				
02L1BB1816	Obtain design/m.s. approval from the SO	0	0	30	30MAY09	30MAY09	1 125	*				
ELS Design for	ELS Design for Construction of Vortex Shaft											
02L1BB1902	Design preparation by the Designer	25	25 23FEB09A		02JUN09 23FEB09A	02JUN09	2 -205	1				
02L1BB1904	Design submission for the DC's approval	+	1 03JUN09		60NNFE0 60NNFE0	60NULEO	1 -163				-	
02L1BB1906	Design certification by the Design Checker	28	28 04JUN09	-	01JUL09 04JUN09	01JUL09	2 -205				1	
02L1BB1908	Design submission for the SO's approval	-	1 03JUN09	-		03JUN09	1 -157					
02L1BB1910	Design review by the SO	42	42 11JUI	110N09 15	15JUL09 11JUN09	15JUL09	2 -205				1	
02L1BB1912	Obtain design approval from the SO	0	0	15	15JUL09	15JUL09	2 -205					
Geotechnical I	Geotechnical Instrumentation Stg 1 for GL Works											
3DL1BBG102	Design preparation by the Designer	14	22	308A 05N	FEB08A 05MAY08A 22FEB08A	05MAY08A	2	ŧ				
3DL1BBG104	Design certification by the Design Checker	4	7 DEMAYOBA		29AUG08A 06MAY08A	29AUG08A	2	0				
3DL1BBG106	Design submission for the SO's approval	÷	1 10MAY08A		10MAY08A 10MAY08A	10MAY08A					-	
3DL1BBG108	Design review by the SO	14	14 12MAN	MAY08A 14.	14JUL08A 12MAY08A	14JUL08A	8	0	-			
3DL1BBG110	Obtain design approval from the SO	0	0	14.	14JUL08A	14JUL08A	2	•				
3DL1BBG112	Install Geotechnical Instruments	9	6 11JUN	JUN08A 19.	19JUL08A 11JUN08A	19JUL08A	+	8				
3DL1BBG114	Baseline Monitoring	14	14 21JUL	JUL08A 26.	26JUL08A 21JUL08A	26JUL08A	N					
Geotechnical	Geotechnical Instrumentation Stg 2 for Deep Exc.											
3DL1BBG202	Design preparation by the Designer	40	40 31AUC	308A 24(40 31AUG08A 240CT08A 31AUG08A 240CT08A	240CT08A	2	11				

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Design certification by the Design Checker	sign Checker	14	14	240CT08A	02DEC08A 24OCT08A		02DEC08A	2	1	0				1
Design submission for the SO's approval	's approval	F	1	05NOV08A	-	02DEC08A 05NOV08A	02DEC08A			**				
Design review by the SO		28	28	06NOV08A		10JUN09 06NOV08A	10JUN09	2	-114		1			
Obtain design approval from the SO	he SO	0	0		10JUN09		10JUN09	2	-114			-		
Install Geotechnical Instruments	Its	12	12	14MAR09A	27MAR09A	27MAR09A 14MAR09A	27MAR09A	-			_			
Baseline Monitoring		14	14	11JUN09	24JUN09 11JUN09	11JUN09	24JUN09	2	-114					-
Monitor/report Geotechnical Instrumentation	strumentation	1,587	1,587 1,587	28JUL08A	31DEC12	31DEC12 28JUL08A	31DEC12	3	0	l				1
Design Packages for Works in Portion C	and								1		-			
Piling Platform for H-bile Wall A									F					
Design preparation by the Designer	signer	15	15	12MAY08A	-	27JUN08A 12MAY08A	27JUN08A	2		0				
Design certification by the Design Checker	sian Checker	14	14	22MAY08A	1		03JUL08A	2	-	0				
Design submission for the SO's approval	's approval	~	-	04JUL08A	-	04JUL08A	04JUL08A	+						-
Design review by the SO		14	14	1.00	29JUL08A 05JUL08A	05JUL08A	29JUL08A	2	ľ					
Obtain design approval from the SO	he SO	0	0	1.	29JUL08A		29JUL08A	2		•				
Temporary Works for Formation of Access Road	Road								-					
Design preparation by the Designer	signer	40	40	29SEP08A	01DEC08A 29SEP08A		01DEC08A	2	-	11	_		~	
Design submission for the DC's approval	's approval	-	-	02DE	-	02DEC08A 02DEC08A	02DEC08A	-		-	-			
Design certification by the Design Checker	sign Checker	14	14	03DEC08A	08DEC08A 03DEC08A	03DEC08A	08DEC08A	0		+		_		
Design submission for the SO's approval	's approval	+	-	09DEC08A		09DEC08A 09DEC08A	09DEC08A	-	-	-				
Design review by the SO		28	28	1		10DEC08A	23MAR09A	2	1	1		_		
Obtain design approval from the SO	he SO	0	0				23MAR09A	2		•				
Piling Platform for H-bile Wall B		-			_			(
Design preparation by the Designer	signer	15	15	02JUL09*	16JUL09 02JUL09*	02JUL09*	16JUL09	2	179		0			
Design submission for the DC's approval	s approval	-	~	17JUL09	17JUL09 17JUL09	17JUL09	17JUL09	-	147					
Design certification by the Design Checker	sign Checker	28	28		14AUG09 18JUL09	18JUL09	14AUG09	2	179		B		_	
Design submission for the SO's approval	's approval	-	-	17JUL09	17JUL09 17JUL09	17JUL09	17JUL09	-	147		-	_	_	
Design review by the SO		42	42	18JUL09	28AUG09 18JUL09	18JUL09	28AUG09	2	179		8	-		2
Obtain design approval from the SO	he SO	0	0		28AUG09		28AUG09	2	179		•		-	-
Temp. Support Design for MAA/MAS/VDS/DC/AVS	ICIAVS													
Design preparation for the AIP submission	^o submission	103	103	26JU	N08A 09MAY09A 26JUN08A	26JUN08A	09MAY09A	2						
Design (AIP) submission for the DC's approval	he DC's approval	2	2	23DEC08A	1.00	15MAY09A 23DEC08A	15MAY09A	-			0			
Design (AIP) certification by the Design Checker	he Design Checker	28	28	24DEC08A	1000	19MAY09A 24DEC08A	19MAY09A	2	-			-		
Design (AIP) submission for the SO's approval	he SO's approval	2	2	23DEC08A		19MAY09A 23DEC08A	19MAY09A	-						
Design (AIP) review by the SO	0	66	66	24DEC08A		23JUN09 24DEC08A	23JUN09	~	-141		+	-		
AIP submission for rel. authorities' approval	ities' approval	*		29MAY09	29MAY09 29MAY09	29MAY09	29MAY09	-	-115					12
Design (AIP) review by the rel. authorities	1. authorities	28	28	30MAY09	26JUN09	30MAY09	26JUN09	2	-145	-				
Obtain rel. authorities's approval for AIP	val for AIP	-	F	27JUN09	27JUN09	27JUN09	27JUN09	+	-118		-		,	
SO submit design (AIP) for approval of GEO	proval of GEO	-		29MAY09	29MAY09	29MAY09	29MAY09	-	0					
Design (AIP) review/approval by the GEO	by the GEO	28	28	30MAY09	26JUN09	30MAY09	26JUN09	2	0	1				
Obtain SO's consent for design (AIP)	m (AIP)	0	0		29JUN09		29JUN09	2	-146		•			
Design preparation for the DDA submission	A submission	30	30	60NULTO	0070L09	60NUL70	06JUL09	2	-146					
Design (DDA) submission for the DC's approval	the DC's approval		F	07JUL09	607NC20	07JUL09	07JUL09	-	-114		-	_		
Desirer (DDA) cortification by the Decire Checker	the Decian Checker	28	28	08.111.09	04AUG09 08.IUI 09	08.8.11 09	04AUG09	2	-143					

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02L1CC0326	Design (DDA) submission for the SO's approval	1	1	07JUL09	07JUL09 07	607NF00	607NF20		-117			
02L1CC0328	Design (DDA) review by the SO	99	66	08JUL09	11SEP09 08	08JUL09	11SEP09	2	-146		-	
02L1CC0330	DDA submission for rel, authorities' approval	-	-	07JUL09	07JUL09 07	07JUL09	07JUL09	-	-85		_	
02L1CC0332	Design (DDA) review by the rel. authorities	28	28	15JUL09	11AUG09 15JUL09		11AUG09	2	-116		_	
02L1CC0334	Obtain rel. authorities's approval for DDA	F	-	12AUG09	12AUG09 12	12AUG09	12AUG09	-	-95			_
02L1CC0336	SO submit design (DDA) for approval of GEO	1	F	12AUG09	12AUG09 12AUG09		12AUG09	+	0			
02L1CC0338	Design (DDA) review/approval by the GEO	28	28	13AUG09	09SEP09 13	13AUG09	09SEP09	3	0			
02L1CC0340	Obtain SO's consent for design (DDA)	0	0		12SEP09		12SEP09	5	-146		•	
Suppor	Temp. Support Design for MA and MAMIT Connection								-			
02L1CC0402	Design preparation for the AIP submission	110	110	18AUG08A	03JUN09 18	18AUG08A	60NNCE0	2	0	l		
02L1CC0403	Design (AIP) submission for the DC's approval	2	2	05MAY09A	30MAY09 05	05MAY09A 30MAY09	BOMAY09		0			
02L1CC0404	Design (AIP) certification by the Design Checker	28	28	06MAY09A	15JUN09 06	D6MAY09A	15JUN09	2	0			
02L1CC0406	Design (AIP) submission for the SO's approval	+		04JUN09	04JUN09 04JUN09		04JUN09		0	_		
02L1CC0408	Design (AIP) review by the SO	99	99	60NULSO	09AUG09 05	05JUN09	09AUG09	2	0			_
02L1CC0410	AIP submission for rel. authorities' approval	•	-	04JUN09	04JUN09 04	04JUN09	04JUN09	-	30			
02L1CC0412	Design (AIP) review by the rel. authorities	28	28	60NUL20	02JUL09 05	02JUN09	02JUL09	8	36			
02L1CC0414	Obtain rel. authorities's approval for AIP	~		03JUL09	0370109 03	0370109	03JUL09	-	31			
02L1CC0416	SO submit design (AIP) for approval of GEO	*		23JUN09	23JUN09 23	23JUN09	23JUN09		0			
02L1CC0418	Design (AIP) review/approval by the GEO	28	28	24JUN09	21JUL09 24	24JUN09	21JUL09	5	0			
02L1CC0420	Obtain SO's consent for design (AIP)	0	0		10AUG09		10AUG09	N	0			
02L1CC0422	Design preparation for the DDA submission	30	30	19JUL09	17AUG09 19	1970109	17AUG09	~	0			
02L1CC0423	Design submission for the DC's approval	-	-	18AUG09			18AUG09	-	0			
02L1CC0424	Design (DDA) certification by the Design Checker	28	28	19AUG09	15SEP09 19		15SEP09	3	0		-	
02L1CC0426	Design (DDA) submission for the SO's approval	-	-	18AUG09	18AUG09 18AUG09		18AUG09	-	73		-	
02L1CC0428	Design (DDA) review by the SO	99	99	19AUG09	230CT09 19	19AUG09	230CT09	2	88		0	
02L1CC0430	DDA submission for rel. authorities' approval	-	-	25AUG09	25AUG09 25	25AUG09	25AUG09		98		-	
02L1CC0432	Design (DDA) review by the rel. authorities	28	28	26AUG09	22SEP09 26	26AUG09	22SEP09	2	118			
02L1CC0434	Obtain rel. authorities's approval for DDA	-	-	23SEP09	23SEP09 23	23SEP09	23SEP09	F	95			
02L1CC0436	SO submit design (DDA) for approval of GEO	-	-	23SEP09	23SEP09 23	23SEP09	23SEP09	Ŧ	0			
02L1CC0438	Design (DDA) review/approval by the GEO	28	28	24SEP09	210CT09 24	24SEP09	210CT09	2	0			
02L1CC0440	Obtain SO's consent for design (DDA)	0	0		230CT09		230CT09	2	88		•	
nent De	Permanent Design for MAA/MAS/VDS/DC/AVS											
02L1CC0502	Design preparation for the AIP submission	103	103	26JUN08A	04MAY09A 26JUN08A		04MAY09A	2				
02L1CC0503	Design submission for the DC's approval	2	2	110CT08A	05MAY09A 110CT08A		05MAY09A	, .				
02L1CC0504	Design (AIP) certification by the Design Checker	28	28	130CT08A	19MAY09A 13OCT08A		19MAY09A	2				
02L1CC0506	Design (AIP) submission for the SO's approval	4	4	05NOV08A	19MAY09A 05NOV08A		19MAY09A	-				
02L1CC0508	Design (AIP) review by the SO	99	99	06NOV08A	16JUN09 06NOV08A		16JUN09	2	0	T		
02L1CC0510	AIP submission for rel. authorities' approval		۴	28FEB09A	28FEB09A 28FEB09A		28FEB09A	-	1			
02L1CC0512	Design (AIP) review by the rel. authorities	28	28	01MAR09A	28MAY09 01MAR09A	1	28MAY09	2	18	1		
02L1CC0514	Obtain rel. authorities's approval for AIP	-		29MAY09	29MAY09 29	29MAY09	29MAY09		15			
02L1CC0516	SO submit design (AIP) for approval of GEO	÷	T	28FEB09A	28FEB09A 28FEB09A		28FEB09A	-				
02L1CC0518	Design (AIP) review/approval by the GEO	28	28	01MAR09A	28MAY09 01MAR09A		28MAY09	3	19	1		
	Obtain SO's consent for design (AIP)	0	0		17JUN09		17JUN09	2	0	*		

	Description	Dur	Dur	Start	Fluish	Start.	Faulsh	9	Float					
02L1CC0522	Design preparation for the DDA submission	30	30 0	09MAR09A	24JUN09 090	09MAR09A 2	24JUN09	2	0	T				
02L1CC0523	Design submission for the DC's approval	٣	-	25JUN09	25JUN09 25J	25JUN09 2	25JUN09	-	0					
02L1CC0524	Design (DDA) certification by the Design Checker	28	28	26JUN09	23JUL09 26	26JUN09	23JUL09	2	0					
02L1CC0526	Design (DDA) submission for the SO's approval	٣	-	25JUN09	25JUN09 25J	25JUN09	25JUN09		152					
02L1CC0528	Design (DDA) review by the SO	99	66	26JUN09	30AUG09 26.	26JUN09	30AUG09	2	183		11			
02L1CC0530	DDA submission for rel. authorities' approval	r	-	02JUL09	02JUL09 02	02JUL09 0	02JUL09	- 1	177	-				
02L1CC0532	Design (DDA) review by the rel. authorities	28	28	03JUL09	3010109 03.	03JUL09	30JUL09	2	214				00	
02L1CC0534	Obtain rel. authorities's approval for DDA	٣	-	31JUL09	31JUL09 31.	31JUL09 3	31JUL09	-	174					
02L1CC0536	SO submit design (DDA) for approval of GEO	-	-	31JUL09	31JUL09 31.	31JUL09 3	31JUL09	-	0					-
02L1CC0538	Design (DDA) review/approval by the GEO	28	28	01AUG09	28AUG09 01/	01AUG09 2	28AUG09	N	0					
02L1CC0540	Obtain SO's consent for design (DDA)	0	0		31AUG09		31AUG09	2	183		•			-
manent De	Permanent Design for MA and MA/MT Connection													10
02L1CC0602	Design preparation for the AIP submission	84	84	01JUL08A	17JUN09 01.	01JULOBA	17JUN09	2	0					
02L1CC0603	Design (AIP) submission for the DC's approval	8	2	25JUL08A	18JUN09 25.	25JUL08A	18JUN09	٢	0					
02L1CC0604	Design (AIP) certification by the Design Checker	28	28	26JUL08A	06JUL09 26.	26JUL08A (06JUL09	2	0	İ				
02L1CC0606	Design (AIP) submission for the SO's approval	2	N	26JUL08A	07JUL09 26.	26JUL08A 0	07JUL09	÷	0					
02L1CC0608	Design (AIP) review by the SO	99	99	28JUL08A	08AUG09 28.	28JUL08A (08AUG09	2	0	Í				
02L1CC0610	AIP submission for rel. authorities' approval	-	-	25JUL08A	08AUG08A 25JUL08A		08AUG08A	Ŧ						
02L1CC0612	Design (AIP) review by the rel. authorities	28	28	26JUL08A	13JUL09 26.	26JUL08A	13JUL09	2	24					
02L1CC0614	Obtain rel. authorities's approval for AIP	-	-	14JUL09	14JUL09 14.	14JUL09	14JUL09	÷	21		-			
02L1CC0616	SO submit design (AIP) for approval of GEO	÷	7	14JUL09	14JUL09 14.	14JUL09	14JUL09	-	0					
02L1CC0618	Design (AIP) review/approval by the GEO	28	28	15JUL09	11AUG09 15JUL09		11AUG09	2	0			_		
02L1CC0620	Obtain SO's consent for design (AIP)	0	0		09AUG09		09AUG09	5	0		•			
02L1CC0622	Design preparation for the DDA submission	30	30	18JUL09	16AUG09 18JUL09		16AUG09	2	0		-			
02L1CC0623	Design (DDA) submission for the DC's approval	*	-	17AUG09	17AUG09 17AUG09		17AUG09	+	0					
02L1CC0624	Design (DDA) certification by the Design Checker	28	28	18AUG09	14SEP09 18AUG09		14SEP09	8	0					
02L1CC0626	Design (DDA) submission for the SO's approval	-	-	17AUG09	17AUG09 17/	17AUG09	17AUG09		419					
02L1CC0628	Design (DDA) review by the SO	66	66	18AUG09	220CT09 18/	18AUG09 :	220CT09	3	515					
02L1CC0630	DDA submission for rel. authorities' approval	÷	-	24AUG09	24AUG09 24/		24AUG09		442					
02L1CC0632	Design (DDA) review by the rel. authorities	28	28	25AUG09	21SEP09 25/	25AUG09	21SEP09	2	546					
02L1CC0634	Obtain rel. authorities's approval for DDA	-	-	22SEP09	22SEP09 22	22SEP09	22SEP09		442		F		-	
02L1CC0636	SO submit design (DDA) for approval of GEO	÷	-	22SEP09	22SEP09 22	22SEP09	22SEP09		0		-			
02L1CC0638	Design (DDA) review/approval by the GEO	28	28	23SEP09	200CT09 23	23SEP09	200CT09	2	0					
02L1CC0640	Obtain SO's consent for design (DDA)	0	0		230CT09		230CT09	3	515		•		-	-
ulder Asset	Boulder Assessment & Design for Stabili. Measure													
02L1CC0702	Boulder Surevey	30	30	02JUN08A	02JUN08A 15AUG08A 02JUN08A		15AUG08A	÷		8				
02L1CC0704	Prepare/submit boulder surevey report	25	25	25 14JUL08A	055EP08A 14JUL08A	1	05SEP08A	-		0	-			
02L1CC0706	SO review boulder survey report	14	14	1	19SEP08A 06SEP08A	10.1	19SEP08A	2						
emporary Dra	Temporary Drainage Management Plan													
02L1CC0802	TDMP preparation by the Designer	14	14	04AUG08A	14 04AUG08A 03SEP08A 04AUG08A		03SEP08A	2	-	•				
02L1CC0803	TDMP submission for the DC's approval	-	F	1 08SEP08A	08SEP08A 08SEP08A		08SEP08A	1						
02L1CC0804	TDMP certification by the Design Checker	28	28	09SEP08A	10DEC08A 09SEP08A		10DEC08A	2		1				-
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	Description	Dur	Dur		Finish St		Finish	Float	Fleat				Ē
02L1CC0808	TDMP review by the SO	90	90 2	210CT08A	08JAN09A 210C	210CT08A 08.	A90NAL80	2		0			
02L1CC0810	TDMP submission for DSD's approval	Ŧ	1 2	210CT08A	210CT08A 210CT08A		210CT08A						7
02L1CC0812	TDMP review by the DSD	60	90 2	220CT08A	08JAN09A 220CT08A		08JAN09A	8		1			_
02L1CC0814	Obtain DSD's approval for DDA	~	1 0	08JAN09A	D8JAN09A 08JAN09A		08JAN09A	-					_
02L1CC0816	Obtain SO's consent for TDMP	10	0		08JAN09A	08	08JAN09A	3		•		_	
S for Perman	ELS for Permanent Approach Channel Construction												
02L1CC0902	Design preparation by the Designer	15	15 0	03AUG09*	17AUG09 03AUG09*		17AUG09	2 4	406	•			_
02L1CC0903	Design submission for the DC's approval	*	2	18AUG09	18AUG09 18AUG09		18AUG09	+	330	÷			
02L1CC0904	Design certification by the Design Checker	28	28 1	19AUG09	15SEP09 19AUG09		15SEP09	2 4	406	-		_	-
02L1CC0906	Design submission for the SO's approval	٣	*	18AUG09	18AUG09 18AUG09		18AUG09	1 3	330	1			
02L1CC0908	Design review by the SO	42	42 1	19AUG09	29SEP09 19AUG09		29SEP09	2 4	406	•			-
02L1CC0910	Obtain design approval from the SO	0	0		29SEP09	29	29SEP09	2 4	406	•			
otechnical Int	Geotechnical Instrumentation Stg 1 for GL Works												
3DL1CCG102	Design preparation by the Designer	14	14 2	22FEB08A	29APR08A 22FEB08A		29APR08A	2	Ð				
3DL1CCG104	Design certification by the Design Checker	2	7 3	30APR08A	26MAY08A 30APR08A		26MAY08A	2	0				
3DL1CCG106	Design submission for the SO's approval	+	1 1	10MAY08A	26MAY08A 10MAY08A		26MAY08A		0				-
3DL1CCG108	Design review by the SO	14	14 1	12MAY08A	14JUL08A 12MAY08A		14JUL08A	8	0				
3DL1CCG110	Obtain design approval from the SO	0	0		14JUL08A	14	14JUL08A	2	•				
3DL1CCG112	Install Geotechnical Instruments	19	19 2	24JUN08A 0	09AUG08A 24JUN08A	100	09AUG08A	1					_
3DL1CCG114	Baseline Monitoring	14		26JUL08A	16AUG08A 26JUL08A	£	16AUG08A	2	•				
otechnical In	Geotechnical Instrumentation Sto 2 for Deep Exc.												-
3DL1CCG202	Design preparation by the Designer	60	60 2	BAUG08A	60 28AUG08A 04NOV08A 28AUG08A 04NOV08A	1G08A 04	NOV08A	3		1			-
3DI 1CCG204	Design certification by the Design Checker	14	14 1	1NOV08A	14 11NOV08A 01DEC08A 11NOV08A	N08A 01	01DEC08A	2		-		1.00	12
3DL1CCG206	Design submission for the SO's approval	2	2 0	4NOV08A	04NOV08A 02DEC08A 04NOV08A		02DEC08A		-	U			1.5
3DL1CCG210	Design review by the SO	28	28 0	05NOV08A	11JUN09 05NOV08A		11JUN09	2	-76	T			
3DL1CCG212	Obtain design approval from the SO	0		-	11JUN09	-	11JUN09	2	-76	*		1	1
3DL1CCG214	Install Geotechnical Instruments	18	18 1	14MAR09A	18JUN09 14MA	14MAR09A 18	18JUN09	-	-58	1			
3DL1CCG216	Baseline Monitoring	4		19JUN09	· · · · · ·		02JUL09	2	-74	-			1
3DL1CCG218	Monitor/report Geotechnical Instrumentation	1,566	1,566 1	18AUG08A	31DEC12 18AUG08A		31DEC12	2	•				1
sign Packa	Design Packages for Works in Portion D												
mp. Access R	Temp. Access Rd Design at P. D: +14mPD to +69mPD												-
02L1DD0102	Design preparation by the Designer	14	14 1	7JAN08A	17JAN08A 16APR08A 17JAN08A	1.1	16APR08A	N	0			_	
02L1DD0104	Design certification by the Design Checker	150	150 1	150 17APR08A	13SEP08A 17APR08A		13SEP08A	2					
02L1DD0106	Design submission for the SO's approval	2	2 2	25APR08A	24SEP08A 25APR08A		24SEP08A	+				_	
02L1DD0108	Design review by the SO	90	90 2	90 26APR08A	04FEB09A 26APR08A	1.1	04FEB09A	2		1			120
02L1DD0110	Design review by GEO	28	28 2	23JUN08A	29NOV08A 23JUN08A	1	29NOV08A	2		1			
02L1DD0112	Obtain design approval from the SO	0	0		04FEB09A	4	04FEB09A	2		\$			
ulder Assess	Boulder Assessment & Design for Stabili. Measure												
02L1DD0302	Boulder Surevey	14	14 0	3APR08A	14 03APR08A 11APR08A 03APR08A	R08A 11	11APR08A	•	-			_	_
02L1DD0304	Prepare/submit boulder surevey report	25	25 1	2APR08A	25 12APR08A 26MAY08A 12APR08A		26MAY08A	1.1					
02L1DD0306	SO review boulder survey report	14	14 2	7MAY08A	27MAY08A 16JUN08A 27MAY08A		16JUN08A	2					
e Formation L	Site Formation Design; +69mPD to +40mPD												1
001 100000	Design preparation by the Designer	14	14. 1	7JAN08A	17JAN08A 16APR08A 17JAN08A 16APR08A	N08A 16	APROBA	2	1				-

	23 21 20 20 20 20 20 20 20 20 20 20 20 20 20		Finish 14NOV08A 14NOV08A 14NOV08A 04DEC08A 04DEC08A 04DEC08A 03MAY09A 15MAY09A 15MAY09A 03JUN09 23JUN09 03JUN09 15MAY09A 13MAY09A 13M	SIGNT 17APR08A 25APR08A 25APR08A 05MAY08A 05MAY08A 11APR08A 10MAY08A 10MAY08A 10MAY08A 11APR08A 15JAN09A 02FEB09A 28AUG08A 28JUL08A 28JUL08A 28JUL08A 28JUL08A 28JUL08A 28JUL08A 28JUL08A 28JUL08A 28JUL08A 28FEB09A 03FEB09A 01MAR09A 01MAR09A 05JUN09 05JUN09 05JUN09	Finish 14NOV08A 14NOV08A 14NOV08A 04DEC08A 09MAY09A 15MAY09A 15MAY09A 15MAY09A 03JUN09 03JUN09 03JUN09 03JUN09 03JUN09 03JUN09 15MAY09A 28FEB09A 28MAY09A 15MAY09A 05JUN09 05JUN09 05JUN09 05JUN09 05JUN09 05JUN09 05JUN09 05JUN09 05JUN09 05JUN09	JUI Sunt. 150 17APR08A 2 25APR08A 90 26APR08A 120 14APR08A 145 05MAY08A 90 26APR08A 145 05MAY08A 90 12MAY08A 90 12MAY08A 90 12MAY08A 90 12MAY08A 90 12MAY08A 91 12MAY08A 92 15JAN09A 23 15JAN09A 23 03FEB09A 33 23JUL08A 34 28JUL08A 35 23JUL08A 36 07MAR09A 37	150 150 150 90 145 145 123 22 233 33 333 33 333 33 333 33 28 28 28 28 28 28 33 33 33 33 33 33 28 28 28 28 28 28 33 33 36 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	150 150 150 120 145 145 145 145 145 145 145 145 145 145 145 145 145 145 145 145 145 14 14 14 14 14 14 14 14 14 14 15 14 14 14 14 15 14 15 16 17 18 19 11 12 14 15 16 17 18 19 10 <	Description Design certification by the Design Checker Design review by the SO Obtain design approval from the SO approval from the SO dotain design approval from the SO design: +40mPD to +24mPD Design certification by the Design Checker Design certification by the Design Checker Design submission for the SO's approval Design review by the SO Obtain design approval from the SO dotain design approval from the SO dotain design approval from the SO dotain design approval from the SO's approval Design review by the SO Obtain design approval from the SO's approval Design review by the SO Obtain design approval from the SO's approval Design review by the Design Checker Design review by the Dos approval Design review by the Design Checker Design review by the Design Checker Design (AIP) reparation by the Design Checker Design (AIP) reparation by the Design Checker Design (AIP) review by the Design (AIP) Design (AIP) review by the CO Design (DDA) submission for the DO's approval Design (DDA) submission for the DO's approval Design (DDA) submission for the SO's approval Design (DDA) submission for rel. authorities' approval Design (DDA) submission for rel. BO's approval Design (DDA) submission for rel. authorities' approval Design (DDA) submission for rel. authorities' approval Design (DDA) submission for rel. BO's approval Design (DDA) submission for rel. BO's approval Design (DDA) submission for rel. BO's
	- 0	39 73	11JUL09	14JUN09	13JUL09	14JUN09	- 78	1 28	Design (DDA) review by the rel. authorities Obtain rel. authorities's approval for DDA
			13JUN	13JUN09		13JUN09	٣	-	DDA submission for rel. authorities' approval
1			11AUG	60NUL70		60NNr20	66	66	Design (DDA) review by the SO
			OGJUN	60NUL80		60NUL60		1	Design (DDA) submission for the SO's approval
	1.1		04JULG	60NUL70	-	60NNL70	28	28	Design (DDA) certification by the Design Checker
	1		DEJUN	60NUL20		60NUL80	-		sign (DDA) submission for the DC's approval
	1		-	07MAR09/		07MAR09A		8	sign preparation for the DDA submission
•	1							0	ain SO's consent for design (AIP)
	T		-	ADDIVINI D		VENULINI		07	
1	1	-	1	01MAR09/	PRMAYING	01MAR09A		28	sign (AIP) review/annroval hv the GFO
				28FEB09A	28FEB09A	28FEB09A	-	-	submit Design (AIP) for approval of GEO
*			19MAY		19MAY09A		0	0	Obtain rel. authorities's approval for AIP
				28FEB09A	27MAR09A	28FEB09A		28	Design (AIP) review by the rel. authorities
		-		28AUG08/	28AUG08A	28AUG08A	-	-	AIP submission for rel. authorities' approval
		-		29JUL08A	19MAY09A	29JUL08A		280	sign (AIP) review by the SO
				28JUL08A	13MAY09A	28JUL08A		e	sign (AIP) submission for the SO's approval
				21AUG08/	13MAY09A	21AUG08A		37	sign (AIP) certification by the Design Checker
				28JUL08A	12MAY09A	28JUL08A		0	sign (AIP) submission for the DC's approval
				21APR08A	11MAY09A		381	381	sign (AIP) preparation by the Designer
									TBM Launching Chamber Design
•			18JUN		18JUN09		0	0	Obtain design approval from the SO
			24JUN	28MAY09	24JUN09	28MAY09	28	28	sign review by GEO
1			. 1	03FEB09A		03FEB09A		83	sign review by the SO
0		-	1.1	02FEB09A	15MAY09A	02FEB09A		2	sign submission for the SO's approval
1		-		19JAN09A	15MAY09A	19JAN09A		28	Design certification by the Design Checker
1			1	16JAN09A	24APR09A	16JAN09A		2	Design submission for the DC's approval
		-		28AUG08/	23APR09A	28AUG08A	60	60	Design preparation by the Designer
									Site Formation Design; +24mPD to 14mPD
•			INNCED		60NULEO		0	0	Obtain design approval from the SO
I				12MAY08/	60NULEO	12MAY08A		60	Design review by the SO
		-	A 16MAY	10MAY08/	16MAY09A	10MAY08A		2	sign submission for the SO's approval
			A 15MAY	05MAY08/	15MAY09A		145	145	sign certification by the Design Checker
				14APR08A	09MAY09A	14APR08A	120	120	Design preparation by the Designer
									Site Formation Design; +40mPD to +24mPD
•			04DEC		04DEC08A		0	0	tain design approval from the SO
				26APR08A	04DEC08A	26APR08A		6	sign review by the SO
1				25APR08A	14NOV08A	25APR08A		2	Design submission for the SO's approval
			-	17APR08A	14NOV08A		150	150	sign certification by the Design Checker
			Finis	Start	Finish		-		Description

	Description	Dur Dur	Dur	Start	Finish Start	Finish	E C	Float	The second se		
02L1DD0803	Design submission for the DC's approval	-	-	57JUN09	9 27.	57JUN09	÷	-169			
02L1DD0804	Design certification by the Design Checker	28	28	28JUN09	25JUL09 28JUN09	25JUL09	2 -2	-212		-	1 -1 1
02L1DD0806	Design submission for the SO's approval	-	-	27JUN09	27JUN09 27JUN09	27JUN09	+ -1	-169	-		
02L1DD0808	Design review by the SO	42	42	28JUN09	08AUG09 28JUN09	08AUG09	2 -2	-212			
02L1DD0810	Obtain design approval from the SO	0	0		08AUG09	08AUG09	2	-212	•		
Steel Platform Design	Design										
02L1DD0902	Design preparation by the Designer	82	82 0	02JAN09A	24MAR09A 02JAN09A	24MAR09A	2		11		
02L1DD0903	Design submission for the DC's approval	1	1 2	25MAR09A	25MAR09A 25MAR09A	A 25MAR09A	+				-
02L1DD0904	Design certification by the Design Checker	28	28 2	26MAR09A	08JUN09 26MAR09A	60NUL80 A	2 -1	-194	T		
02L1DD0906	Design submission for the SO's approval	-		60NUL60	60NNC60 60NNC60	BONNEO	7	-153			
02L1DD0908	Design review by the SO	42	42	10JUN09	21JUL09 10JUN09	21JUL09	2 -1	-194			
02L1DD0910	Obtain design approval from the SO	0	0		21JUL09	21JUL09	2 -1	-194	•		
rhead Gan	Overhead Gantry Support & Noise Enclosure Design										
02L1DD1002	Design preparation by the Designer	82	82 0	02JAN09A	14JUN09 02JAN09A	14JUN09	2	-157	T		
02L1DD1003	Design submission for the DC's approval	÷	-	15JUND9	15JUN09 15JUN09	15JUN09	1-1	-124			
02L1DD1004	Design certification by the Design Checker	28	28	16JUN09	13JUL09 16JUN09	13JUL09	2 -1	-157		-	
02L1DD1006	Design submission for the SO's approval	•	-	15JUN09	15JUN09 15JUN09	15JUN09	+	-124			
02L1DD1008	Design review by the SO	42	42	16JUN09	27JUL09 16JUN09	27JUL09	2 -1	-157			
02L1DD1010	Obtain design approval from the SO	0	0		27JUL09	27JUL09	2	-157	•		
Design fo	ELS Design for Spiral Ramp & Vehicular Access										
02L1DD1102	Design preparation for the AIP submission	30	30	28MAY09	26JUN09 28MAY09	26JUN09	2	130			
02L1DD1103	Design (DDA) submission for the DC's approval	+	Ŧ	27JUN09	27JUN09 27JUN09	27JUN09	+	109			
02L1DD1104	Design (DDA) certification by the Design Checker	28	28	28JUN09	25JUL09 28JUN09	125JUL09	2	132	0		
02L1DD1106	Design (DDA) submission for the SO's approval	+	-	27JUN09	60NULTS 60NULTS	60NUL72	<u>د</u>	107			-
02L1DD1108	Design (DDA) review by the SO	99	99	28JUN09	01SEP09 28JUN09	01SEP09	2	130	0		
02L1DD1110	DDA submission for rel. authorities' approval		٣	04JUL09	04JUL09 04JUL09	04JUL09	1	134	_		
02L1DD1112	Design (DDA) review by the rel. authorities	28	28	0270109	01AUG09 05JUL09	01AUG09	2	160	U		
02L1DD1114	Obtain rel. authorities's approval for DDA	-	Ŧ	03AUG09	03AUG09 03AUG09	03AUG09	1	131			
02L1DD1116	SO submit design (DDA) for approval of GEO	-	-	03AUG09	03AUG09 03AUG09	03AUG09		110	-	1	-
02L1DD1118	Design (DDA) review/approval by the GEO	28	28	04AUG09	31AUG09 04AUG09	31AUG09	2	131	0		
02L1DD1120	Obtain SO's consent for design (DDA)	0	0		02SEP09	02SEP09	2	130	•		
Design fo	ELS Design for Box Culvert & Open Channel										*
02L1DD1202	Design preparation for the AIP submission	30	30	27JUN09	26JUL09 27JUN09	26JUL09	2 1,5	1,550	u		
02L1DD1203	Design (DDA) submission for the DC's approval	1	F	27JUL09	27JUL09 27JUL09	27JUL09	1 1,2	1,260	-		
02L1DD1204	Design (DDA) certification by the Design Checker	28	28	28JUL09	24AUG09 28JUL09	24AUG09	2 1,5	1,551	0	+ -	-
02L1DD1206	Design (DDA) submission for the SO's approval	-		27JUL09	27JUL09 27JUL09	27JUL09	1 11.2	11,259	-	-	
02L1DD1208	Design (DDA) review by the SO	99	66	28JUL09	010CT09 28JUL09	01OCT09	2 1,5	1,550	0	 _	
02L1DD1210	DDA submission for rel. authorities' approval		-	03AUG09	03AUG09 03AUG09	03AUG09	1.2	1,285			
02L1DD1212	Design (DDA) review by the rel. authorities	28	28	04AUG09	31AUG09 04AUG09	31AUG09	2 1,5	1,581			
02L1DD1214	Obtain rel. authorities's approval for DDA		-	01SEP09	01SEP09 01SEP09	01SEP09	1,1,2	1,283			
02L1DD1216	SO submit design (DDA) for approval of GEO	-	٣	01SEP09	01SEP09 01SEP09	01SEP09	1,2	1,260	-	-	
02L1DD1218	Design (DDA) review/approval by the GEO	28	28	02SEP09	29SEP09 02SEP09	29SEP09	2 1,5	1,552			
	Obtain SO's consent for design (DDA)	0	0		02OCT09	020CT09	2 1,5	1,550	٠		

۵	Activity Description	- Dar	DUA WESD	Start	Fanish	Start	Finish		Float -						
02L1FF0126	Design (DDA) submission for the SO's approval	-	-	12JUN09	12JUN09 12	12JUN09	12JUN09	-	-136						-
02L1FF0128	Design (DDA) review by the SO	56	26	16JUN09	10AUG09 16	16JUN09	10AUG09	2	-176						
02L1FF0130	DDA submission for rel. authorities' approval	-	4	19JUN09	19JUN09 19	19JUN09	19JUN09	-	-121		-				
02L1FF0132	Design (DDA) review by the rel. authorities	28	28	20JUN09	17JUL09 20	20JUN09	17JUL09	2	-152						2
02L1FF0134	Obtain rel. authorities's approval for DDA	-	1	18JUL09	18JUL09 18	18JUL09	18JUL09	*	-123		-				
02L1FF0136	SO submit design (DDA) for approval of GEO	-	1	13JUL09	13JUL09 13	13JUL09	13JUL09		-140		-				1
02L1FF0138	Design (DDA) review/approval by the GEO	28	28	14JUL09	10AUG09 14JUL09	10LL09	10AUG09	N	-176						
02L1FF0140	Obtain SO's consent for design (DDA)	0	0		11AUG09		11AUG09	2	-176		•			_	
t Assess	Impact Assessment on WSD Yau Kam Tau WTW								-						-
02L1FF0202	Design preparation for the DDA submission	60	60	29APR08A	30JUN08A 29APR08A	1.1	30JUN08A	2		0					
02L1FF0203	Design (DDA) submission for the DC's approval	1	٢	03JUL08A	03JUL08A 03JUL08A	NULOBA	03JUL08A			4					
02L1FF0204	Design (DDA) certification by the Design Checker	260	260	04JUL08A	18MAR09A 04JUL08A	HJUL08A	18MAR09A	N			to be end	Ised by All	be endorsed by All Reservior Panel Engineer	anel Engine	eer
02L1FF0206	Design (DDA) submission for the SO's approval			15JUL08A	18MAR09A 15JUL08A	5JUL08A	18MAR09A	-							
02L1FF0208	Design (DDA) review by the SO	66	99	16JUL08A	31MAR09A 16JUL08A	SJUL08A	31MAR09A	~			=				-
02L1FF0210	DDA submission for rel. authorities' approval	Ŧ		10JUL08A	02APR09A 10JUL08A	NUL08A	02APR09A				-				
02L1FF0212	Design (DDA) review by the rel. authorities	28	28	11JUL08A	10JUN09 11JUL08A	IJUL08A	10JUN09	~	0		1				
02L1FF0214	Obtain rel. authorities's approval for DDA	-	+	11JUN09	BONNETT BONNETT	60NUL	11JUN09	t	0		_				
02L1FF0220	Obtain SO's consent for design (DDA)	0	0		31MAR09A		31MAR09A	2			\$				5
Assess	Impact Assessment on WSD Tai Lam Chung WT No. 3														
02L1FF0302	Design preparation for the DDA submission	32	32	14APR08A	27JUN08A 14APR08A	APR08A	27JUN08A	2		0					- 1 -
02L1FF0303	Design submission for the DC's approval	7		27JUN08A	27JUN08A 27JUN08A	7JUN08A	27JUN08A			~					1
02L1FF0304	Design (DDA) certification by the Design Checker	285	285	28JUN08A	08JUN09 28	28JUN08A	08JUN09	2	0		to be e	endorsed by	All Reservior Panel Engineer	or Panel En	ginee
02L1FF0306	Design (DDA) submission for the SO's approval	-	٣	15JUL08A	15JUL08A 15JUL08A	SJUL08A	15JUL08A	-							
02L1FF0308	Design (DDA) review by the SO	66	86	16JUL08A	13JUL09 16	16JUL08A	13JUL09	2	0		t				
02L1FF0310	DDA submission for rel. authorities' approval	-	۲	10JUL08A	10JUL08A 10	10JUL08A	10JUL08A	٢		_		-			
02L1FF0312	Design (DDA) review by the rel. authorities	28	28	11JUL08A	15JUN09 11	11JUL08A	15JUN09	2	28	1	1				
02L1FF0314	Obtain rel. authorities's approval for DDA	+	-	16JUN09	16JUN09 16	16JUN09	16JUN09	-	23		_			_	
02L1FF0316	SO submit design (DDA) for approval of GEO	-	٣	16JUN09	16JUN09 16	16JUN09	16JUN09	-	0		_				_
02L1FF0318	Design (DDA) review/approval by the GEO	28	28	17JUN09	14JUL09 17	17JUN09	14JUL09	2	0						
02L1FF0320	Obtain SO's consent for design (DDA)	0	0		14JUL09		14JUL09	2	0		•				-
Assess	Impact Assessment on KCRC West Rail Tunnel														
02L1FF0402	Design preparation for the DDA submission	30	30	28APR08A	26JUN08A 28APR08A	SAPR08A	26JUN08A	2							
02L1FF0403	Design submission for the DC's approval	+		26JUN08A	26JUN08A 26JUN08A	SJUN08A	26JUN08A	F		-					-
02L1FF0404	Design (DDA) certification by the Design Checker	90	06	27JUN08A	02APR09A 27JUN08A	A3UN08A	02APR09A	N			0				
021.1FF0406	Design (DDA) submission for the SO's approval	2	2	15JUL08A	03APR09A 15JUL08A	5JUL08A	03APR09A	۴			n				
02L1FF0408	Design (DDA) review by the SO	267	267	16JUL08A	08JUN09 16JUL08A	SJUL08A	60NUL80	2	133		1				-
02L1FF0410	DDA submission for rel. authorities' approval	-	-	14JUL08A	14JUL08A 14JUL08A	4JUL08A	14JUL08A	*	-	-					_
02L1FF0412	Design (DDA) review by the rel. authorities	28	28.	15JUL08A	11MAR09A 15JUL08A	5JUL08A	11MAR09A	2							
02L1FF0414	Obtain rel. authorities's approval for DDA	-	-	1 12MAR09A	11MAR09A 12MAR09A	2MAR09A	11MAR09A	*							-
02L1FF0416	SO submit design (DDA) for approval of GEO	-	-	29MAY09	29MAY09 28	29MAY09	29MAY09	-	97						
02L1FF0418	Design (DDA) review/approval by the GEO	28	28	30MAY09	26JUN09 30	30MAY09	26JUN09	2	115						
		110	-		0014111-00						-				1

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Impact Assessment on WSD Tsuen Wan Reservoir G.	fan Reservoir G.	8		Start	Finish	Start	Finish	9	Float				
sign preparation for t	Design preparation for the DDA submission	30	30 0	05MAY08A	02JUL08A 05MAY08A 02JUL08A	5MAY08A	02JUL08A	2		0			
Design submission for the DC's approval	the DC's approval	-	Ŧ	03JUL08A	03JUL08A 03JUL08A		03JUL08A	~					-
sign (DDA) certificati	Design (DDA) certification by the Design Checker	260	260	04JUL08A	01APR09A 04JUL08A		01APR09A	3		ļ	to be endorse	be endorsed by All Reservior Panel Engineer	ior Panel Eng
ign (DDA) submissi	Design (DDA) submission for the SO's approval	8	N	15JUL08A	01APR09A 15JUL08A		01APR09A	-			1		
Design (DDA) review by the SO	y the SO	60	60	16JUL08A	16JUN09 16	16JUL08A	16JUN09	2	221		1		
submission for rel.	DDA submission for rel. authorities' approval		-	10JUL08A	10JUL08A 10JUL08A		10JUL08A	-		_			
gn (DDA) review b)	Design (DDA) review by the rel. authorities	28	28	11JUL08A	1 BONULOT	11JUL08A	60NUL01	2	226		T		
Obtain rel. authorities's approval for DDA	approval for DDA	-	-	11JUN09	1 11JUN09 1	11JUN09	11JUN09	Ψ.	187				
Obtain SO's consent for design (DDA)	r design (DDA)	0	0		17JUN09		17JUN09	2	221		4		
Grout Trial at Foult Zone F1													
MS preparation for the DDA submission	DDA submission	12	12 0	12 02MAY08A	20MAY08A 02MAY08A		20MAY08A	2					
DDA) submission f	Ms (DDA) submission for the SO's approval	-	-	21MAY08A	21MAY08A 21MAY08A 21MAY08A	1MAY08A	21MAY08A	-		_			
MS (DDA) review by the SO	e SO	24	24 2	24 22MAY08A	17JUL08A 22MAY08A		17JUL08A	2		0			
Obtain SO's consent for MS (DDA)	r MS (DDA)	0	0		17JUL08A		17JUL08A	0		٠			
Geotechniucal Instrumentation													
Design preparation by the Designer	he Designer	60	60	28AUG08A	23JAN09A 28AUG08A		23JAN09A	2		l			_
gn certification by t	Design certification by the Design Checker	4	4	24JAN09A	10JUN09 24JAN09A	1.000	10JUN09	2	-195		T	-	
Design submission for the SO's approval	the SO's approval	2	2	24JAN09A	26MAR09A 24JAN09A	1	26MAR09A	-			8		_
Design review by the SO	0	56	56	24JAN09A	20JUN09 24JAN09A		20JUN09	2	-160	-	1		
submission for rel.	DDA submission for rel. authorities' approval	-	+	14MAR09A	14MAR09A 14MAR09A 14MAR09A	4MAR09A	14MAR09A		1				
gn (DDA) review b)	Design (DDA) review by the rel. authorities	56	56 1	15MAR09A	23JUL09 15MAR09A		23JUL09	2	-195		ł	-	_
Obtain rel. authorities's approval for DDA	approval for DDA		-	24JUL09	24JUL09 24	24JUL09	24JUL09	٣	-156	_		-	
Obtain design approval from the SO	from the SO	0	0		24JUL09		24JUL09	2	-194		•		1
Install geotechnical instrumentsation	rumentsation	80	80	25JUL09	10NOV09 2	25JUL09	10NOV09		-156	_	1	-	
Baseline Monitoring		14	14	11NOV09	24NOV09 11NOV09		24NOV09	2	-188				
Itain/monitor geotec	Maintain/monitor geotechnical instrumentation	1,200 1	1,200	25NOV09	DBMAR13 25NOV09	5NOV09	08MAR13	2	-188		1		
Design Packages for Works in Portion G	Portion G												-
Drainage Impact Assessment													
Quatation and award consultant	onsultant	24	24	22JUN09*	20JUL09 2	22JUN09*	20JUL09	-	182				
Prepare preliminary DIA report	A report	36	36	21JUL09	31AUG09 2	21JUL09	31AUG09	-	182		11		
Prepare final DIA report		12	12	01SEP09	14SEP09 01SEP09		14SEP09	-	182				
Submission of DIA report to SOR/DSD	ort to SOR/DSD	*	-	15SEP09	15SEP09 15SEP09		15SEP09	÷	186				
SOR/DSD review/comment DIA report	nent DIA report	28	28	22SEP09	190CT09 22SEP09		190CT09	2	227		-		
Revise DIA incorporating comments	ig comments	12	12	200CT09	03NOV09 200CT09		BOVONED	+	182	_	*		
SOR/DSD review/approve DIA report	ove DIA report	21	21	04NOV09	24NOV09 04NOV09	4NOV09	24NOV09	2	227	_			
Obtain consent from SOR and DSD	DR and DSD	0	0		24NOV09		24NOV09	2	227		•	+	
Temp. Platform Design for H-Piling at Portion G	Portion G												
gn preparation for t	Design preparation for the DDA submission	30	30	21JUL09	19AUG09 21JUL09		19AUG09	2	261		8		
gn (DDA) submissi	Design (DDA) submission for the DC's approval	-	-	20AUG09	20AUG09 20	20AUG09	20AUG09	-	211	_	-		ř.
gn (DDA) certificati	Design (DDA) certification by the Design Checker	28	28	21AUG09	17SEP09 2	21AUG09	17SEP09	2	263		9		
ign (DDA) submissi	Design (DDA) submission for the SO's approval	+	-	20AUG09	20AUG09 20	20AUG09	20AUG09	-	210		1		
Design (DDA) review hv the SO	v the SO	58	58	21AUG09	170CT09 21AUG09		170CT09	•	261		11		

		===		•									++	•				*	•	*	•	*	•	•	*	•	•	•	•	•	•	•	•	•	•	*	•	•
																	•															_					_	
Float	228	284	226	261		284	229	286	228	284	246	307	248	284		•		-	1,619	1,554	1,542	1,637	1,601	1,554	1,526	1,619	1,603	1,554	1,529	1,619	1,542	1,631	1,563	1,554	1,486	1,678	1,497	1,497
0	-	2	1	2		2	-	2	•	2	٣	3	-	2		~	~	N	N	~	2	~	2	2	N	2	~	2	2	~	2	2	2	2	2	2	N	2
Finish	27AUG09	24SEP09	25SEP09	18OCT09		03SEP09	04SEP09	02OCT09	04SEP09	01NOV09	11SEP09	09OCT09	100CT09	02NOV09		10JAN08A	04SEP08A	12MAY09A	25JUL09	28SEP09	100CT09	07JUL09	12AUG09	28SEP09	260CT09	25JUL09	10AUG09	28SEP09	230CT09	25JUL09	100CT09	13JUL09	19SEP09	28SEP09	05DEC09	27MAY09	24NOV09	24NOV09
Start	9 27AUG09	328AUG09	9 25SEP09			3 20AUG09	04SEP09	05SEP09	9 04SEP09	9 05SEP09	11SEP09	9 12SEP09	9 10OCT09			8	٨	A					P	~			6	6			C				6		o	6
Finish	27AUG09	24SEP09	25SEP09	18OCT09		03SEP09	04SEP09	020CT09	04SEP09	01NOV09	11SEP09	090CT09	100CT09	02NOV09		10JAN08A	04SEP08A	12MAY09A	25JUL09	28SEP09	100CT09	0111L09	12AUG09	28SEP09	260CT09	25JUL09	10AUG09	28SEP09	23OCT09	25JUL09	100CT09	13JUL09	19SEP09	28SEP09	05DEC09	27MAY09	24NOV09	24NOV09
Start	27AUG09	28AUG09	25SEP09			20AUG09	04SEP09	05SEP09	04SEP09	05SEP09	11SEP09	12SEP09	100CT09																									
Dur	۲	28		0		15		28	-	58	-	28	-	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o	0	0
Dur V		28	-	0		55		28	F	58	•	28	+	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Activity Description	DDA submission for rel. authorities' approval	Design (DDA) review by the rel. authorities	Obtain rel. authorities's approval for DDA	Obtain design (DDA) approval from the SO	۵.	Design preparation for the DDA submission	Design (DDA) submission for the DC's approval	Design (DDA) certification by the Design Checker	Design (DDA) submission for the SO's approval	Design (DDA) review by the SO	DDA submission for rel. authorities' approval	Design (DDA) review by the rel. authorities	Obtain rel. authorities's approval for DDA	Obtain design (DDA) approval from the SO	Schedule of Milestones for Cost Centre No. 2L	2L 1; On submission of PDP to the SO	2L 2; On acception of PDP by the SO	2L 3; On submission of AIP to the SO; Portion A	2L 4; On acceptance of AIP by the SO; Portion A	2L 5; On subumission of DDA to the SO; Portion A	2L 8; On acceptance of DDA by the SO; Portion A	2L 7, On submission of AIP to the SO; Portion B	2L 8, On acceptance of AIP by the SO; Portion B	2L 9; On submission of DDA to the SO; Portion B	2L 10; On acceptance of DDA by the SO; Portion B	2L 11; On submission of AIP to the SO; Portion C	2L 12; On acceptance of AIP by the SO; Portion C	2L 13; On submission of DDA to the SO; Portion C	2L 14; On acceptance of DDA by the SO; Portion C	2L 15, On acceptance of AIP by the SO; Portion D	2L 16; On acceptance of DDA by the SO; Portion D	2L 17; On submission of AIP to the SO; Portion F	2L 18; On acceptance of AIP by the SO; Portion F	2L 19; On submission of DDA to the SO; Portion F	2L 20; On acceptance of DDA by the SO; Portion F	2L 21; On acceptance of AIP by the SO; Portion G	2L 22; On acceptance of DDA by the SO; Portion G	2L 23; On completion of all works under this CC
0	02L1GG0210	02L1GG0212	02L1GG0214	02L1GG0228	ELS Design for	02L1GG0302	02L1GG0303	02L1GG0304	02L1GG0306	02L1GG0308	02L1GG0310	02L1GG0314	02L1GG0316	02L1GG0318	Schedule of	02L10D1002	02L10D1004	02L10D1006	02L10D1008	02L10D1010	02L10D1012	02L10D1014	02L10D1016	02L10D1018	02L10D1020	02L10D1022	02L10D1024	02L10D1026	02L10D1028	02L10D1030	02L10D1032	02L10D1034	02L10D1036	02L10D1038	02L10D1040	02L10D1042	02L10D1044	02L10D1046

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	lieudineess			VIEIC	L'unsait -	Rent Finish	oi usi	Float					È
structio	Construction of Main Tunnel												-
Grout a	Trial Grout at Fault Zone F1												
3AL1FT0002	HvD issue XP	0	0		23JUL08A	23JUL08A	08A 2		•				
3AL1FT0004	Adavance notice to HyD/Road advice	9		24JUL08A 3	30JUL08A 24JUL08A	1			-				
3AL1FT0006	Trial pit excavation	4	4 31J	31JUL08A 0	04AUG08A 31JUL08A	08A 04AUG08A	308A 1				-		
3AL1FT0010	Scaffolding, mobilize & set up	2	7 05A	05AUG08A 1	13AUG08A 05AUG08A	508A 13AUG08A	508A 1		Ifor the	edesign of pre-	Ifor the design of pre-excavation grouting	ng at F1	
3AL1FT0012	Drill & test for 2m Arrangement Test	45	45 14A	UG08A 1	45 14AUG08A 15NOV08A 14AUG08A	SOBA 15NOV08A	V08A 1		1				
3AL1FT0014	Backfill drilled holes, demobilization & Tidy up	9	6 17N	17NOV08A 2	22NOV08A 17NOV08A	/08A 22NOV08A	V08A 1		•				
3AL1FT0016	Drill & test for single hole arrangement test	17	17 11A	UG08A 0	17 11AUG08A 04SEP08A 11AUG08A	308A 04SEP08A	08A 1		•				-
3AL1FT0018	Backfill drilled hole, demobilization & tidy up	*	1 055	EPOBA 0	05SEP08A 05SEP08A 05SEP08A	08A 05SEP08A	08A 1		uting at F1IER.B27		27,73(5), within 6 months of DOC	DOC	-
Manufa	TBM Manufacture/Testing/Delivery							Ē					
ufacture of	Manufacture of TBM & Back-ups											_	-
3AL1FT0302	TBM & Excavation Sys Procurement	30	30 140	EC07A 1	14DEC07A 12JAN08A 14DEC07A 12JAN08A	07A 12JAN	108A 2		-0				
3AL1FT0304	TBM design & manufacturing	252	252: 21DEC07A		28SEP08A 21DEC07A	07A 28SEP08A	08A 2						-
3AL1FT0306	TBM workshop tests	4	7: 04C	7: 04OCT08A 0	080CT08A 040CT08A	TOBA D8OCTO8A	T08A 2		1				
3AL1FT0308	TBM dismounting & packing	21	21; 09C	CT08A 2	21 090CT08A 24DEC08A 090CT08A	T08A 24DEC08A	C08A 2		1				
Delivery of TBM													
3AL1FT0105	TBM shipment to Hong Kong	30	30 06.	1 .6070/90	04AUG09 06JUL09*	09* 04AUG09	309 2	-161					
3AL1FT0110	TBM arriving Portion I	ო	3 05/	05AUG09 (07AUG09 05AUG09	509 07AUG09	309 1	-130		-			-
3AL1FT0115	Destuffing Containers/Cleaning & lubrication	24	24 08/	08AUG09	04SEP09 08AUG09	509 04SEP09	1 500	-130					
Pre-assen	TBM Pre-assembly/Test & Commis. at Portion I												-
3AL1FT0205	Cutterhead	2	7 05	05SEP09	12SEP09 05SEP09	09 12SEP09	1 600	-130		1			
3AL1FT0210	Bearing	9	6 05	05SEP09	11SEP09 05SEP09	09 11SEP09	1 600	-129		-			
3AL1FT0215	Backup # 1	9	6 12	12SEP09	18SEP09 12SEP09	09 18SEP09	1 900	-122		4			
3AL1FT0220	Backup # 2	S	5 14:	14SEP09	18SEP09 14SEP09	09 18SEP09	1 900	-121		1		_	
3AL1FT0225	Backup # 3	5	5 19	19SEP09	24SEP09 19SEP09	09 24SEP09	1 1	-122					
3AL1FT0230	Backup # 4	5	5 19:	19SEP09	24SEP09 19SEP09	09 24SEP09	² 09 1	-121		-			
3AL1FT0240	Baackup # 5	u O			30SEP09 25SEP09		1 600	-122		1			
3AL1FT0245	Backup # 6	2		25SEP09	30SEP09 25SEP09	09 30SEP09	1 600	-121		1			-
3AL1FT0250	Backup # 7	S	1	020CT09	080CT09 020CT09	T09 08OCT09	F09 1	-80	-				-
3AL1FT0255	Backup # 8	ъ	5 02(020CT09	080CT09 020CT09	T09 08OCT09	r 1	11-					-
3AL1FT0260	Backup # 9	5	5 09(09OCT09	14OCT09 09OCT09	T09 14OCT09	F09 1	-79		+			
3AL1FT0365	Backup # 10	ß	5 09(090CT09	140CT09 090CT09	T09 14OCT09	F09 1	-76		-			
3AL1FT0370	Backup # 11	w	5 150	15OCT09	200CT09 150CT09	T09 200CT09	F09 1	-78					-
3AL1FT0375	Backup # 12	cu i	1	15OCT09	200CT09 150CT09	T09 200CT09	r09 1	-75			_	0	
Transport	TBM Transport from Portion I to Outfall											-	-
3AL1FT0405	Cutterhead	-	1 02	02JAN10	02JAN10 02JAN10	10 02JAN10	10 1	-219					-
3AL1FT0415	Shield # 1	-	1 04	04JAN10	04JAN10 04JAN10	10 04JAN10	110 1	-210					100
3AL1FT0425	Shield # 2	-	1 05	05JAN10	05JAN10 05JAN10	10 05JAN10	10 1	-210		4		-	-
3AL1FT0435	Bearing	-	1 06	06JAN10	06JAN10 06JAN10	10 06JAN10	10 1	-210		-	-		-
3AI 1FT0445	Erector	~	1 07.	07JAN10	07JAN10 07JAN10	10 07JAN10	10 1	-210		-			

	Description	Dur Dur	Dur	Start	Finish Start	t Finish	-	Float				
3AL1FT0455	Conveyor		-	08JAN10	08JAN10 08JAN10	0 08JAN10	0	-210				
3AL1FT0465	Backup # 1	-	-	01NAU90	09JAN10 09JAN10	01100 09JAN10	1	-210	_			
3AL1FT0475	Backup # 2	-	-	11JAN10	11JAN10 11JAN10	011JAN10	0	-208	-			
3AL1FT0485	Backup # 3	+	٢	12JAN10	12JAN10 12JAN10	0 12JAN10	0	-206	_		-	
3AL1FT0495	Backup # 4		-	13JAN10	13JAN10 13JAN10	0 13JAN10	0	-206				
3AL1FT0505	Backup # 5	٣	-	29JAN10	29JAN10 29JAN10	0 29JAN10	1	-219				
3AL1FT0515	Backup # 6	*	-	30JAN10	30JAN10 30JAN10	0 30JAN10	1	-219				
3AL1FT0525	Backup # 7	۲	-	27MAR10	27MAR10 27MAR10	10 27MAR10	10 1	-218				
3AL1FT0535	Backup # 8		-	31MAR10	31MAR10 31MAR10	10 31MAR10	10 1	-218				
3AL1FT0545	Backup # 9			08APR10	08APR10 08APR10	0 08APR10	10 1	-218			-	
3AL1FT0555	Backup # 10	-	-	12APR10	12APR10 12APR10	0 12APR10	10 1	-218			-	
3AL1FT0565	Backup # 11	+	-	15APR10	15APR10 15APR10		10 1				-	
3AL1FT0575	Backup # 12	1	1	19APR10	19APR10 19APR10	19APR10	10 1	-218				
inufacture	Manufacture Pre-cast Lining/Delivery											
Segmental Lining Mould	ing Mould											
3AL1FTSM02	Procure sub-contract for segmental mould	0	0		21JUL08A	21JUL08A	18A 2		•			
3AL1FTSM04	Prepare shop drwgs for segmental mould	60	60 0	02FEB09A	05MAR09A 02FEB09A	19A 05MAR09A	09A 2			-		
3AL1FTSM06	Fabrication of segmental mould	06	06	90 06MAR09A	16MAY09A 06MAR09A	09A 16MAY09A	09A 2			0		
3AL1FTSM08	Inspection in Korea	2	7 1	7 18MAY09A	20MAY09A 18MAY09A	20MAY09A	09A 2					
3AL1FTSM10	Painting & packing	2	7 2	21MAY09A	27MAY09A 21MAY09A	D9A 27MAY09A	09A 2					
3AL1FTSM12	Delivery of segmental moulds to HKG	7	2	28MAY09	03JUN09 28MAY09	60NULE0 60	39 2	-107				
Heast Segn	Pre-cast Segmental Lining											
3AL1FT0404	Prepare/submit QA/QC System	30	30	12JAN09A	04MAR09A 12JAN09A	19A 04MAR09A	09A 2					
3AL1FT0410	SO approve QA/QC system	28	28 0	05MAR09A	06JUN09 05MAR09A	60NUL30 A80	1	00 00		1		
3AL1FT0412	Approval of Tunnel Linig Design	0	0		11AUG09	11AUG09	09 2	-176		•		
3AL1FT0416	Manufactur of segments	330		12AUG09		_	10		-143 gs/day i.e. 1 pour/c	our/day	Total 3176	Total 3176 rings; 1 ring = 5 segments
3AL1FT0418	Delivery of Segments	400	400	02JAN10	12MAY11 02JAN10	T	11	-200			ğ	Delivery commences a week befor
3AL1FTSL02	Procure sub-contract for segment lining	0	0		05JAN09A	05JAN09A	1 19A			•		
otech Ins	Geotech Instrumetation at WSD Tunnel Using PPE							1	-			
thod Stater	Method Statement to Install G.I. Works									_		
3AL1FTMS02	Prepare method statement	69	69 1	12MAR09A	26MAR09A 12MAR09A 26MAR09A	09A 26MAR	1 1000			-		
3AL1FTMS04	Method statement endorsement by ICE & APRE	30	30 2	29MAY09A	03JUL09 29MAY09A	_	1 1	-				
3AL1FTMS08	Method statement endorsement by LD	18	18	04JUL09	24JUL09 04JUL09	9 24JUL09	1 1	-68		-		
3AL1FTMS12	Method statement endorsement by SOR	12	12	25JUL09	07AUG09 25JUL09	9 07AUG09	09 1	-68		-		
3AL1FTMS14	Method statement endorsement by WSD	24	24	08AUG09	04SEP09 08AUG09	09 04SEP09	09 1	-68		-		
3AL1FTMS24	Application for electrical power	45	45	22DEC09*	18FEB10 22DEC09*	09* 18FEB10	10 1	+188				
Ting Kau A	At Ting Kau Air Valve House									_		
3AL1WT3B02	Arrange WSD to open the valve house	t	-	19MAR10	19MAR10 19MAR10	10 19MAR10	10	-219			-	
3AL1WT3B12	Set up exhoust fans & arrange temp. electricity	ю	ю	20MAR10	23MAR10 20MAR10	10 23MAR10	10 1	-219		_		
3AL1WT3B22	Arrange 2 nrs. set of water pumps	2	2	24MAR10	25MAR10 24MAR10	10 25MAR10	10 1	-219			to lower down the water level	ne water (evel
3AL1WT3B32	Remove the air vent pipe (DN250)	5	7	26MAR10	27MAR10 26MAR10	10 27MAR10	10 1	-219			Ifollowing water 1	following water tunnel shut down
								0.0				

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	Description	Dur	Dur	Stant	Finish	Start	Finish	9 9	Float					
3AL1WT3B52	Connect exhaust fan to valve shaft	m	с С	30MAR10	01APR10 30	30MAR10	01APR10	-	-219		-			-
3AL1WT3B62	Connect new vent pipe to exhaust fan(s)	101	<u> </u>	07APR10	08APR10 07/	07APR10	08APR10	-	-219		1			11
3AL1WT3B72	Test and commission exhaust fan(s)	(m		09APR10	12APR10 09APR10	APR10	12APR10	-	-219					2
sparation W	Preparation Works at Chai Wan Kok Shaft													
3AL1FTCT02	Install electricity take off, switch board &	4	4	27MAR10	31MAR10 271	27MAR10	31MAR10		-219		stemp dw	stemp dwon transformer	ner	-
3AL1FTCT12	Install waste reception/disposal area	+	-	13MAR10	13MAR10 13MAR10	MAR10	13MAR10	-	-219		+			
3AL1FTCT22	Install toilet and shower	3	3	11MAR10	13MAR10 11MAR10	MAR10	13MAR10	-	-219		-			
3AL1FTCT32	Set up generatior, two 2" water pumps	8	1.00	30MAR10	31MAR10 30	30MAR10	31MAR10	-	-219					
3AL1FTCW02	UU detection	m	3	15MAR10	17MAR10 15MAR10	MAR10	17MAR10	-	-219		-			
3AL1FTCW04	Excavate to lower platform apprx, 0.5m-1m	8	2	18MAR10	19MAR10 18MAR10	MAR10	19MAR10		-219		-			
3AL1FTCW06	Set out & align sheet pilling	-	-	20MAR10	20MAR10 201	20MAR10	20MAR10	-	-219				_	3
3AL1FTCW08	Install sheet piles & excavate to install rails	4	4	22MAR10	25MAR10 22	22MAR10	25MAR10	F	-219					
3AL1FTCW10	Excavate to the bottom of DN1200 pipe	e	3	26MAR10	29MAR10 26	26MAR10	29MAR10	-	-219		-			
3AL1FTCW12	Lay conrete blinding to pit	2	2	30MAR10	31MAR10 301	30MAR10	31MAR10	-	-219					
3AL1FTCW14	ICE checking	-	_	01APR10	01APR10 01APR10	APR10	01APR10	4	-219					
3AL1FTCW16	WSD Tunnel Shut Down Period	131.	131* 2	26MAR10	03SEP10 26	26MAR10	03SEP10	F	0		SM	WSD approval in 2 months advance	in 2 months	advanc
3AL1FTCW18	WSD Tunnel #3 commences shut down	-	1	01APR10	01APR10 01APR10	APR10	01APR10	٣	-219					
3AL1FTCW20	Cut & clean invert and inner face of DN1200	•	-	07APR10	07APR10 07/	07APR10	07APR10	-	-219					
3AL1FTCW22	Plug DN1200 pipe at the face near valve house	-	5	08APR10	08APR10 08/	08APR10	08APR10		-219		•			
3AL1FTCW24	Fabricate trolly & trial	4	4	09APR10	13APR10 09/	09APR10	13APR10		-219 jetent per	-219 betent person authorizes entry include 24 hrs ventilation before man entry $\&$	entry include 2	4 hrs ventile	ation before	e man en
3AL1FTCW26	Install longituditual tensioned wire	2	2	14APR10	15APR10 14	14APR10	15APR10	-	-219					
3AL1FTCW36	Temporary plug main tunnel to form air seal	2		16APR10	17APR10 16APR10	APR10	17APR10	-	-219					-
Works In Aqueduct	duct													5
3AL1FTAD04	Install instruments	56	56	19APR10	25JUN10 19APR10	APR10	25JUN10	1	-219		1			
3AL1FTAD06	Inspection	τ	100	26JUN10	26JUN10 26	26JUN10	26JUN10	-	-219					-
3AL1FTAD08	TBM crossing affected 120m section	12	1	28JUN10	12JUL10 28,		12JUL10		-219					
3AL1FTAD10	De-install instruments	32	32	13JUL10	18AUG10 13JUL10		18AUG10	1	0					-
Demobilisation													-	
3AL1FTAE04	Remove trolley system	1 1	۲ ۲	19AUG10	19AUG10 19AUG10		19AUG10	-	0		1			
3AL1FTAE14	Remove the plug at Ting Kau	2	24	20AUG10	21AUG10 20AUG10	AUG10	21AUG10	-	0		-			
3AL1FTAE24	Remove ventilation system, reinstate T.K. valve	3	3	23AUG10	25AUG10 23AUG10	AUG10	25AUG10	-	0		+			
3AL1FTAE34	Remove temporary portal at junction	1	-	26AUG10	26AUG10 26AUG10	AUG10	26AUG10	-	0		-			
Reinstatement Works	Works													
3AL1FTRS02	Reinstate opening at Chai Wan Kok	2	7 2	27AUG10	03SEP10 27AUG10		03SEP10	1	0		-			
3AL1FTRS04	WSD Tunnel #3 re-operates		-	03SEP10	03SEP10 03SEP10	SEP10	03SEP10	1	0		1			
M Assem	TBM Assembly & Initial Driving; Day Time Work													
M Assembly	TBM Assembly/Test & Commiss. at Outfall													-
3AL1FT0605	Cutterhead	e	6	04JAN10	06JAN10 04JAN10	JAN10	06JAN10	-	-219					
3AL1FT0615	Shield (bottom)	4	4	01NALTO	11JAN10 07.	01/JAN10	11JAN10	-	-219					
3AL1FT0625	Bearing	F	-	12JAN10	12JAN10 12	12JAN10	12JAN10	~	-219		*			0
3AL1FT0635	Erector & Conveyor Belt	3	m	13JAN10	15JAN10 13.	13JAN10	15JAN10	-	-219					-
3AL1FT0645	Shield (top)	4	4	16JAN10	20JAN10 16.	16JAN10	20JAN10	-	-219		-			-
2AL 1 ETORES	Backup # 1	0	m	21JAN10	23JAN10 21JAN10	JAN10	23JAN10	-	-219					

3AL1FT0665 Backup # 2 3AL1FT0675 Backup # 3 3AL1FT0685 Backup # 3 3AL1FT0685 Test & commission stage 1 3AL1FT0695 Backup # 4 3AL1FT0705 Backup # 5 3AL1FT0715 Backup # 6 3AL1FT0715 Backup # 6 3AL1FT0755 Backup # 7 3AL1FT0755 Backup # 10 3AL1FT0755 Backup # 11 3AL1FT0755 Backup # 11		- 	_				-		
		¢	ALCZ 5	25JAN10 27	27JAN10 25JAN10	27JAN10	-	-219	
		η	3 28JAN10		30JAN10 28JAN10	30JAN10	۲	-219	
		9			06FEB10 01FEB10	06FEB10	-	-219	4
		Ю		24FEB10 26	26FEB10 24FEB10	26FEB10	-	-199	
		e	3 27FE	27FEB10 02	02MAR10 27FEB10	02MAR10	1	-199	
		e	3 03M/	03MAR10 05	05MAR10 03MAR10	05MAR10	٢	-199	
		m		29MAR10 31	31MAR10 29MAR10	31MAR10	1	-218	
		m		01APR10 08	08APR10 01APR10	08APR10	1	-218	
		ę	3 09AF	09APR10 12	12APR10 09APR10	12APR10	۲	-218	
		ę		13APR10 15	15APR10 13APR10	15APR10	1	-218	
		ę	3 16AF	16APR10 15		19APR10	1	-218	
		ო	3 20AF	20APR10 22	22APR10 20APR10	22APR10	-	-218	
3AL1FT0785 Test & commission stage 2		12	12 23AF	23APR10 07	07MAY10 23APR10	07MAY10	-	-218	
TBM Initial Advacing; Day Time Work									
3AL1FT0704 TBM advancing; Ch. 5098 to Ch. 5084	5084	9	6 08FE	FEB10 17	17FEB10 08FEB10	17FEB10	-	-219	
		54	54 18FE	FEB10 26	26APR10 18FEB10	26APR10	-	-219	
3AL1FT0720 TBM stop to install rem. items		10	10 27AF	27APR10 08	08MAY10 27APR10	08MAY10	-	-219	
Main Tunnel Works; Day & Night Work									
TBM Advancing upto Crossing WSD Tunnel # 3									
3AL1FT0816 TBM advances; CH4963-4415 (to WSD Tunnel #	o WSD Tunnel # 3)	40	40 10M/	10MAY10 26	26JUN10 10MAY10	26JUN10	Ŧ	-219	
	CH4415-4295	-	-	-	12JUL10 28JUN10	12JUL10	-	-219	
cing (
3AL1FT0819 TBM advances; CH4295-4250		S	5 13JI	13JUL10 1	17JUL10 13JUL10	17JUL10	Ŧ	-219	
3AL1FT0820 TBM advances; P6 CH4250-4220	0	2	2 19JL	19JUL10 20	20JUL10 19JUL10	120JUL10	1	-219	
3AL1FT0822 TBM advances; CH4220-3940		14	14 21JL			05AUG10	-	-219	Icriterion 1
3AL1FT0824 TBM advances; CH3940-3560		24	24 06AL	06AUG10 02	02SEP10 06AUG10	02SEP10	1	-219	P5 (5m) KCRC WRTL Tunnel Protection Area ch39
3AL1FT0826 TBM advances CH3560-2970		40	40 03SE	03SEP10 22	220CT10 03SEP10	220CT10	٣	-219	Intake I-2 (Ch3160-3100) P4 (10m) & P3 (50m)
3AL 1FT0828 TBM advances; WSD WS Reservior CH2970-2860	vior CH2970-2860	13	13 2300	23OCT10 06	06NOV10 230CT10	06NOV10	٢	-219	
3AL 1FT0830 TBM advances; CH2860-1250		83	83 08NG	08NOV10 18	18FEB11 08NOV10	18FEB11	٢	-219	Intake H3 (CH1370-1250) - F5 (20m), F4(50m), F3(20m)
3AL1FT0832 TBM advances; CH1250-0		91	91 19FE	19FEB11 1	11JUN11 19FEB11	11JUN11	-	-219	F2(20m), P2(25m), P1(10m) & F
3AL1FT0890 Desembly & demobilization of TBM	W	50	50 13JL	13JUN11 10	10AUG11 13JUN11	10AUG11	-	-114	
3AL 1FT0892 Back grouting (daytime); CH5100-00	-00	382 3	382 04M	04MAR10 18	18JUN11 04MAR10	18JUN11	-	-20	1.79m3/m, W/C=44%, W=590kg
3AL 1FT0894 Complete maintennce access & dry weather channel	dry weather channel	60	60 11AL	11AUG11 22	220CT11 11AUG11	220CT11	Ŧ	-64	
3AL 1FT0896 Installation of communication system (Daytime)	stern (Daytime)	60	60 11AL	11AUG11 22	220CT11 11AUG11	220CT11	٣	-64	
3AL 1FT0898 Testing & Commissioning; daytime	ne	28	28 10NG	10NOV12 07	07DEC12 22DEC12	18JAN13	2	-462	
3AL 1FT0902 Contractor serve notice for Works completion	s completion	7	7 08D	08DEC12 14	14DEC12 19JAN13	25JAN13	2	0	
		0	0	0	07DEC12	18JAN13	-	-375	
		21	21 15DI	DEC12 04	04JAN13 26JAN13	15FEB13	2	0	
Schedule of Milestones for Cost Centre No. 6aR	e No. 6aR								
6AR1FT0902 6aR 1: On completion of arouting at P7	a at P7	0	0	S	31MAR10	31MAR10	2	1,370	•
	g at F6c	0	0	1	19MAY10	19MAY10		1,321	

	Description	Dur	DUL	Start	FIRIS ASINIA	H PUNSH	a.	FIDET				
6AR1FT0906	6aR 3; On completion of grouting at F6b	0	0		27MAY10	27MAY10	0	1,313				
6AR1FT0908	6aR 4; On completion of grouting at F6a	0	0		15JUN10	15JUN10	0	1,294			•	
6AR1FT0910	6aR 5; On completion of grouting at WSD T. 3	0	0		17JUL10	17JUL10	0 2	1,262			•	
6AR1FT0912	6aR 6; On completion of 20% grout by Ith at P6	0	0		17JUL10	17JUL10	2	1,262			•	
6AR1FT0914	6aR 7; On completion of 40% grout by Ith at P6	0	0		23JUL10	23JUL10	0	1,256			•	
6AR1FT0916	6aR 8; On completion of 60% grout by Ith at P6	0	0		29JUL10	29JUL10	0	1,250			•	
6AR1FT0918	6aR 9; On completion of 80% grout by Ith at P6	0	0		17JUL10	17JUL10	0 2	1,262			•	
6AR1FT0920	6aR 10; On completion of grouting works at P6	0	0		2010/10	2010110	1 2	1,259			•	
6AR1FT0922	6aR 11; On completion of grouting wks at P5	0	0		06AUG10	06AUG10	0	1,242			•	
6AR1FT0924	6aR 12; On completion of grouting wks at P4	0	0		04SEP10	04SEP10	0 2	1,213			•	
6AR1FT0926	6aR 13, On completion of grouting wks at P3	0	0		07OCT10	07OCT10	0	1,180			•	
6AR1FT0928	6aR 14; On completion of grouting wks at WSD's	0	0		06NOV10	06NOV10	0	1,150		CH 2865-2970+		Tsuen Wan West Service Reservior G
6AR1FT0930	6aR 15; On completion of grouting wks at F5	0	0		13NOV10	13NOV10	0	1,143				
6AR1FT0932	6aR 16; On completion of grouting wks at F4	0	0		26NOV10	26NOV10		1,130			•	
6AR1FT0934	6aR 17; On completion of grouting wks at F3	0	0		22DEC10	22DEC10		1,104			•	
6AR1FT0936	6aR 18; On completion of grouting wks at F2	0	0		21FEB11	21FEB11	-	1,043	_		•	-
6AR1FT0938	6aR 19, On completion of grouting wks at P2	0	0		31MAR11	31MAR11	1	1.005	_	-	•	
6AR1FT0940	6aR 20; On completion of arouting wks at P1	0	0		27APR11	27APR11	-	978			•	
6AR1FT0942	6aR 21: On completion of 10% arout by Ith at F1	0	10		21MAY11	21MAY11	-	954	-		•	
6AR1FT0944	6aR 22: On completion of 20% grout by Ith at F1	0	0		23MAY11	23MAY11	-	952			•	
6AR1FT0946	6aR 23; On completion of 30% grout by Ith at F1	0	0		24MAY11	24MAY11		951				
6AR1FT0948	6aR 24; On completion of 40% grout by Ith at F1	0	10		25MAY11	25MAY11		950		t	•	
6AR1FT0950	i6aR 25; On completion of 50% grout by Ith at F1	0	0		26MAY11	26MAY11	-	949	_		•	+ + +
6AR1FT0952	6aR 26; On completion of 60% grout by Ith at F1	0	0		27MAY11	27MAY11	4	948			•	
6AR1FT0954	6aR 27; On completion of 70% grout by Ith at F1	0	0		28MAY11	28MAY11	1 2	947			•	
6AR1FT0956	6aR 28; On completion of 80% grout by Ith at F1	0	0		30MAY11	30MAY11	1 2	945			•	
6AR1FT0958	6aR 29; On completion of 90% grout by Ith at F1	0	0		31MAY11	31MAY11	1 2	944			•	
6AR1FT0960	6aR 30; On completion of grouting works at F1	0	0		01JUN11	11NUL10		943			•	
6AR1FT0970	6aR 31; On completion of all works under this CC	0	0		18JUN11	18JUN11	+	926			•	Ounder this Cost Centre
e of	Schedule of Milestones for Cost Centre No. 3al							1				
3AL1FT1002	3aL 1; On providing evidence of procuring TBM	0	0		19JAN08A	19JAN08A	3A 2					
3AL1FT1004	3aL 2; On providing evidence of TBM Factory Test	0	0		080CT08A	08OCT08A	8A 2		•			
3AL1FT1006	3aL 3; On delivery of all parts of TBM to the Si	0	0		07AUG09	07AUG09	9	1,606		•		
3AL1FT1008	3aL 4; On completion of site comm. & test. of TB	0	0		07MAY10	07MAY10	0 2	1,333		Y		
3AL1FT1010	3aL 5; On completion of 5% perm. tunnel lining	0	0		18MAY10	18MAY10	0 2	1,322	_		•	
3AL1FT1012	3aL 6; On completion of 10% perm. tunnel lining	0	0		01UN10	01NUL00	0 2	1,300			•	
3AL1FT1014	3aL 7; On completion of 15% perm. tunnel lining	0	0		02JUL10	02JUL10	0 2	1,277	-		•	
3AL1FT1016	3aL 8; On completion of 20% perm. tunnel lining	0	0		28JUL10	28JUL10	3	1,251			•	
3AL1FT1018	3aL 9; On completion of 25% perm. tunnel lining	0	0		13AUG10	13AUG10	0 2	1,235		1	•	
3AL1FT1020	3aL 10; On completion of 30% perm. tunnel lining	0	0		02SEP10	02SEP10	0 2	1,215		+	•	
3AL1FT1022	3aL 11; On completion of 35% perm. tunnel lining	0	0		22SEP10	22SEP10	0 2	1,195		-	٠	
AN SETSONA	3at 12' On completion of 40% nerm trinnel lining	c	C		and area	OFTO COC		1 100				

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	Description	Dur	Dur	Start	Floish St	Start	Finish		Float	
3AL1FT1026	3al_ 13; On completion of 45% perm. tunnel lining	0	0		10NOV10	4	10NOV10	2	1,146	•
3AL1FT1028	3aL 14; On completion of 50% perm. tunnel lining	0	0		25NOV10	25	25NOV10	2 1	1,131	•
3AL1FT1030	3aL 15; On completion of 55% perm. tunnel lining	0	0		10DEC10	10	10DEC10	2	1,116	•
3AL1FT1032	3aL 16; On completion of 60% perm. tunnel lining	0	0		29DEC10	26	29DEC10	2 1	1,097	•
3AL1FT1034	3aL 17; On completion of 65% perm. tunnel lining	0	0		14JAN11	14	14JAN11	2 1	1,081	•
3AL1FT1036	3aL 18; On completion of 70% perm. tunnel lining	0	0		29JAN11	58	29JAN11	2 1	1,066	•
3AL1FT1038	3aL 19; On completion of 75% perm. tunnel lining	0	0		17FEB11	1	17FEB11	2 1	1,047	*
3AL1FT1040	3aL 20; On completion of 80% perm. tunnel lining	0	0		10MAR11	10	10MAR11	2	1,026	•
3AL1FT1042	3aL 21; On completion of 85% perm. tunnel lining	0	0		01APR11	0	01APR11	2	1,004	•
3AL1FT1044	3aL 22; On completion of 90% perm. tunnel lining	0	0		28APR11	28	28APR11	2	977	*
3AL1FT1046	3aL 23; On completion of 95% perm. tunnel lining	0	0		21MAY11	5	21MAY11	7	954	*
3AL1FT1048	3aL 24; On completion of perm. tunnel lining	0	0		11JUN11	÷	11JUN11	2	933	•
3AL1FT1050	3aL 25; On completion of maint. access/flow chan	0	0		220CT11	2	220CT11	2	800	Adry weather flow channel
3AL1FT1052	3aL 26; On completion of provision of communic.	0	0		220CT11	2	220CT11	2	800	•
3AL1FT1054	3aL 27; On completion of all works under this CC	0	0		07DEC12	18	18JAN13	2	388	within this cost centre
iedule of	Schedule of Milestones for Cost Centre No. 3dL									
3DL10T1202	3dL 1; On complet. of install geo instrrument.	0	0		10NOV09	1(10NOV09	2	1,511	◆geotechnical instruments
3DL10T1204	3dL 2; Maint./monit. geo. inst. for 12 mth	0	0		27DEC08A	2	27DEC08A	2	1	 installed instruments for 12 months from DOC
3DL10T1206	3dL 3; Maint/monitor geo. inst. for 24	0	0		26DEC09	56	26DEC09	2	1,465	 installed instruments for 24 months from DOC
3DL10T1208	3dL 4; Maint./monitor geo. inst. for 36	0	0		26DEC10	36	26DEC10	2	1	Ainstalled instruments for 36 months free
3DL10T1210	3dL 5; Maint/monitor geo. inst. for 48	0	0		26DEC11	3	26DEC11	3		installed instruments for 48 months from DOC
3DL10T1212	3dL 6; On completion of maint. & monit. of geo.	0	0		08MAR13	õ	08MAR13	2	297	monitoring for installed instruments
3DL10T1214	3dL 7; On installation of FMD at Portion A	0	0		29DEC11	Ň	29DEC11	2	732	flow measurement devices at Portion A
3DL10T1216	3dL 8; On installation of FMD at Portion B	0	0		20FEB12	й	20FEB12	2	679	flow measurement devices for Portion B
3DL10T1218	3dL 9; On installation of FMD at Portion C	0	0		28JAN12	Ĭ,	28JAN12	2	702	flow measurement devices for Portion CI
3DL10T1220	3dL 10; On installation of FMD at Portion D	0	0		17APR12	-	17APR12	2	622	flow measurement devices for Portion D
3DL10T1222	3dL 11; On completion of maint. & monit. of FMD	0	0		07DEC13	7	18JAN14	5	23	flow monitoring to issue of Maint. Certificate
3DL10T1224	3dL 12; On completion of all works under this CC	0	0		07DEC13	1	18JAN14	2	23	under this Cost Centre
structio	Construction of Intake I-1									
Preliminary Works	Works								1	
07; Transi	VO#07; Transperant Hoarding at H1									
VO007-02	Receive VO7 for transparent hoarding	0	0		19MAY08A	.	19MAY08A	-	-	
V0007-04	Procure/prepare/install transparent hoarding	20	70 2	0MAY08A	20MAY08A 11AUG08A 20MAY08A 11AUG08A	VO8A 1	1AUG08A	-		
01R1AI1102	Possession of site	0	0	19MAR08A	19M/	19MAR08A		-		♦90d after DOD
01R1AI1104	Obtain TTA (ingress & egress) approval	0	0	19APR08A	19AP	19APR08A		2		
01R1AI1106	Site clearance	30	30 2	21APR08A	26MAY08A 21APR08A	-	26MAY08A	-		
01R1AI1108	Obtain tree	9	6 1	13MAY08A	31JUL08A 13MAY08A		31JUL08A	-		1
01R1AI1110	Hoarding erection enclosing the Site	18	18 2	23MAY08A	11AUG08A 23MAY08A		11AUG08A	-		
01R1AI1112	Site entrance construction	9	6 2	23JUN08A	25JUL08A 23JUN08A		25JUL08A	-		
		7	1	A DOLAL IL DO	A DOLATIN DO A DOLATIN DO		A7 ILINIOAA	•	1	

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	Description	Dam	Dur Start	rt Finish	Start	Finish	ID Finar						
01R1AI1116	Erect SOR's secondary site office	-	5 28		A 28/	03SEP08A		-			-		
01R1AI1118	Footing for temp. bridge span over Shing M. Nul.	26	26 10JUN08A	-	16JUL08A 10JUN08A	16JUL08A	1	8				1	
01R1AI1120	Decking for temp. bridge span over Shing M. Nul.	13	13 17JUL08A		01AUG08A 17JUL08A	01AUG08A	1						
01R1AI1122	Install remote control CCTV as per ER 4.4.10	12	12 04SEP08A		18SEP08A 04SEP08A	18SEP08A	÷	•					
16R1AI1101	Tree Identification & Report	14	14 14MAR08A		01APR08A 14MAR08A	01APR08A	2	4					
16R7AI1102	1st tree pruning for small 3 nos. trees	-	1 03JUN08A	-	03JUN08A 03JUN08A	03JUN08A	1						
16R7AI1104	2nd tree pruning for small 3 nos. trees		1 04JUL08A		04JUL08A 04JUL08A	04JUL08A	+						
16R7AI1106	Final pruning & uplifting of 3 nos. small trees	2	2 08SEF	SEPORA 09SEPO	09SEP08A 08SEP08A	09SEP08A	+	-					
16R7AI1108	Confirm location for trees to be transplanted	51	51 02APF	PR08A 27AUG0	27AUG08A 02APR08A	27AUG08A	÷		/				
16R7AI1114	One stg transplant for big 4 nos. big trees	6	9 11FEE	EB09A 19FEB09	19FEB09A 11FEB09A	19FEB09A	1		2.9				
Permanent S	Permanent Soil Nailing Works												
11R2AI1302	Erect working platform & mobilization	•0	8 17MAY08A	1.000	24MAY08A 17MAY08A	24MAY08A	+					5	
11R2A11304	Install test nails & proof loading test, 2 nos.		8 24JUN08A		08JUL08A 24JUN08A	OSJULOBA	+	8				15	
11R2A11306	Soil nailing for A to C rows; 69 nos.	1 6	16 02JUL08A	1	14JUL08A 02JUL08A	14JUL08A	÷	•					
11R2AI1308	Soil nailing for D to F rows; 71 nos.	29	29 15JUL08A	1.1.1	05SEP08A 15JUL08A	05SEP08A	1	D					
11R2AI1310	Constrcut soil nail heads; 140 nos.	22	22 19JUL	JULOSA DESEPO	06SEP08A 19JUL08A	06SEP08A		8					
11R2AI1312	Demobilization	e	3 08SEP08A		10SEP08A 08SEP08A	10SEP08A	1						
Construction	Construction of Spiral Ramp & Cascade												
Additional GI V	Additional GI Woks to Fnalize Design												
AGIA-02	Drill for 5 nos, additional GI works	21	21 09SEF	08A 040CT0	09SEP08A 04OCT08A 09SEP08A 04OCT08A	040CT08A	ŧ						
Temp. Pipe-pile cofferdam	le cofferdam												
04L1AI1202	Erect piling platform	43	43 220C1	TOBA 24DECO	220CT08A 24DEC08A 220CT08A	24DEC08A	1						
04L1A11203	Mobilization & set up piling rig	e	3 30001	TOBA D1NOVO	300CT08A 01NOV08A 300CT08A	01NOV08A	1	-					
04L1A11204	Install 273 mm dia. temp. pipe piles; 144 nos.	43	43 08NOV	108A 05JAND	08NOV08A 05JAN09A 08NOV08A	05JAN09A	1	11				22	
04L1AI1226	Demobilize all plant and materials	9	6 06JAN	ANO9A 13JANO	13JAN09A 06JAN09A	13JAN09A	1						
Excavate +104	Excavate +104.0 to +100.5mPD; Row 7												
04L1AI1402	Mobilization	+	1 23FEE	EB09A 23FEB0	23FEB09A 23FEB09A	23FEB09A	1						
04L1AI1404	Bulk excavation; soil (155m3)	4	4 24FEE	EB09A 27FEB0	27FEB09A 24FEB09A	27FEB09A	1						
04L1AI1406	Install test tie-back & proof load test	4	4 28FEE	EB09A 04MAR0	04MAR09A 28FEB09A	04MAR09A	1	R					
04L1AI1408	Install tie backs/wailing & shortcrete	4	4 03MAF	ROBA DEMARD	03MAR09A 06MAR09A 03MAR09A 06MAR09A	06MAR09A	1		-				
Excavate +100	Excavate +100.5 to +99.0mPD; Rows 1 & 8									-			
04L1AI1410	Bulk excavation; soil (219m3)	2	2 07MAF	209A 09MAR0	07MAR09A 09MAR09A 07MAR09A 09MAR09A	09MAR09A	1						
04L1AI1412	Install tie backs/wailing & shorcrete	9		ROBA 16MARD	10MAR09A 16MAR09A 10MAR09A 16MAR09A	16MAR09A	F	-	-	-			
Excavate +99.0	Excavate +99.0 to +96.5mPD; Rows 2, 9 & 18							1					
04L1AI1414	Bulk excavation; soil (710m3)	ო	3 17MAR09A	ROBA 19MARD	19MAR09A 17MAR09A 19MAR09A	19MAR09A	-						
04L1AI1416	Install test tie-back & proof load test	4	4 26MAF	309A 01APR0	26MAR09A 01APR09A 26MAR09A 01APR09A	01APR09A	F						
04L1AI1418	Install tie backs/wailing & shortcrete	9	6 23MAF	ROBA 28MARD	23MAR09A 28MAR09A 23MAR09A 28MAR09A	28MAR09A						12/2	
Excavate +96.6	Excavate +96.5 to +95.0mPD; Rows3, 10 & 19												
04L1AI1420	Bulk excavation; soil (721m3)	e	3 30MA	ROBA 04APRO	3 30MAR09A 04APR09A 30MAR09A 04APR09A	04APR09A	-		E.	-			
04L1AI1422	Install tie backs/wailing & shortcrete	4	4 02APF	109A 20APRO	02APR09A 20APR09A 02APR09A 20APR09A	20APR09A	-		22				

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Course 4, 11.8, 20 Solid (70 (100) 3										The second se		And and a state of the state of	A REAL PROPERTY AND A REAL	A REAL PROPERTY OF A REAL PROPER	
Ame Ame <td>Powerto 405</td> <td>14-104 0 mDD: Doute 4 11 2 20</td> <td></td> <td>100</td> <td></td>	Powerto 405	14-104 0 mDD: Doute 4 11 2 20												100	
Install the back/shortshorts/shorts/shorts/shorts/shorts/shorts/shorts/shorts	1011404	Bulk excertation: soil (701m3)	e			1RAPRO9A DEAPE	-	PROSA			••				
Add De Saminal Samina	1 11424	Lantall tic hockstunition & shoreta	o u					DPDGA	• -			11			
	0741141		2						-				-	NP26	
Install is election, all (2014) 4 4 2 AbryGook (EMAYCORA) 1 1 321 OF 25.3EPPC for 23 Install is election, all (2014) 5 2 (24PCGOS) (EMAYCORA) 1 <td>Savale + 44.</td> <td>0 to + 33.UTTPLI; KOWS 3, 12, 16, 216,24</td> <td></td> <td></td> <td></td> <td>and the second second</td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Savale + 44.	0 to + 33.UTTPLI; KOWS 3, 12, 16, 216,24				and the second second			2						
Intelline tenedoxading Ext	1AI1428	Bulk excavation; soil (818m3)	4			LIAPHKUBA ZUAPI	-	APHUSA	-		•				
Intall to beact/amiling a shoredet 5 5 2 a 24AF03A 1 (AMYOSA) 1 (AMYOSA) <th< td=""><td>1AI1430</td><td>Install test tie-back & proof load test</td><td>4</td><td></td><td>1APR09A</td><td>16MAY09A 21API</td><td></td><td>AAY09A</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	1AI1430	Install test tie-back & proof load test	4		1APR09A	16MAY09A 21API		AAY09A	-						
S300 Conception with an object of	1AI1432	Install tie backs/wailing & shorcrete	ى س		1APR09A	16MAY09A 21API		AYO9A	-		E 3				_
Built encodence S CuMAVORA IBMAVORA IBMAVORA IBMAVORA IBMAVORA IBMAVORA IBMAVORA IBMAVORA IBMAVORA IBMAVORA I I S2510 F11 mBC Reconsultive (ac) (3,2,1,2,2,3) 2 2 19,000005 20,0000000 20,0000000 20,00000000 20,00000000 20,000000000 20,000000000 20,000000000 20,000000000 20,000000000 20,00000000000000000000000000000000000	avate +93.	0 to +92.6mPD; Row 22													
Install fiel backshowling & short cetter 2 2 1 SMAYOSA 27MAYOSA 1 1 1 23.5 Get Shift (25.1) 5.10 (25.10) 6.10 (25.10) 6.10 (25.10) 1 <	1AI1434	Bulk excavation; soil (423m3) & rock (52m3)	n	30	4MAY09A	18MAY09A 04MA	Y09A 18N	AYO9A	÷	r.					
S2.5 10 91.1mPC; Rouse 6, 13.16, 17.8.3 S2.5 10 91.1mPC; Rouse 6, 13.16, 17.8.3 S3.MAYOSA S1.MAYOSA	1AI1436	Install tie backs/wailing & shorcrete	2	2 1	9MAY09A	27MAY09A 19MA	Y09A 27N	AYO9A	-					1955	
Main Constraint Constraint <td>COT Officie</td> <td>5 to 01 1mDD. Douise 6 13 16 17232</td> <td></td>	COT Officie	5 to 01 1mDD. Douise 6 13 16 17232													
Insultanti lead (2 min) and (2 min	TCL AIPAP	2 10 21. IIIILD, KOWS 8, 13, 10, 17 0423							-	-	-				
Insultable Insulta	1AI1438	Bulk excavation; soil (1002m3) & rock (342m3)	80	80		Z3MAY09A 06MA		AAYU9A	-	-			-	1.4.4	
	1AI1440	Install test tie-back & proof load test	4	4		25MAY09A 08MA		AYO9A	-					100	
91.1 Co B6.5mPC): Rows 14.17 8.25 91.1 Co B6.5mPC): Rows 14.17 8.25 91.1 Co B6.5mPC): Rows 17.2 mC 91.1 Co B6.5mPC) 91.1 Co B6.5mPC) 91.2 mC 91.2 mC <td>1AI1442</td> <td>Install tie backs/wailing & shorcrete</td> <td>4</td> <td>4</td> <td>8MAY09A</td> <td>Z7MAY09A 18MA</td> <td></td> <td>AAY09A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1AI1442	Install tie backs/wailing & shorcrete	4	4	8MAY09A	Z7MAY09A 18MA		AAY09A							
	194 etere	-													
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	1411444		12		8MAY09A	AM81 60UUL10	L10 A60Y	0N09	-	0				245	
BASE TORE STREPT Control	111440	Install tic books (in a shorest	! •		DONI II CO		100 051	INDO	÷	10					
BIS to R8.mIPL: Rows 12 a 28 R. <	AI 1440		t		00000000			2000		4				2000	1
	avate +89.	5 to 88.5mPD; Rows 15 & 26													_
Install te backswaling & shorrenete 3 1 1 1 2 2 1 1 2	AI1448	Bulk excavation; soil (269m3) & rock (690m3)	o	111	60NUL30	16JUN09 06JUI		60ND	_	N				100	
B6.5 to 71.5mPD; Fowe 27 to 31 S6: up for dewatering 3	AI1450	Install tie backs/wailing & shorcrete	ო		17JUN09	10L71 60NUL61		60NU	-	N	3				
Set up for dewatering Eq. (a) Colunos Colunos </td <td>avate +88.</td> <td>5 to 71.5mPD; Rows 27 to 31</td> <td></td>	avate +88.	5 to 71.5mPD; Rows 27 to 31													
Rock excaverient/mucking outlemp, support 168 168 30,UN09 19,JAN10 1 22 37,Tml social nof Vehiucular Access Cast base slab 6 20,JN10 26,EB10 1 22 37,Tml social 22 Cast base slab 6 6 20,JN10 26,FEB10 26,FEB10 1 22 Cast base slab 12 12 10,FEB10 26,FEB10 1 22 Cast base slab 12 12 10,FEB10 26,FEB10 1 22 Cast base slab 12 12 10,FEB10 26,FEB10 1 22 Cast base slab 12 12 27 27,PB10 1 22 Cast base slab 15 13 10,MN10 1 22 22 Cast tamp up to +76,51mPD 15 16 15 27,AN10 27,AN10 1 22 Cast tamp up to +76,51mPD 15 16 17,MN10 21,MN10 1 22 Cast tamp up to +60,81mPD	1A11442	Set up for dewatering	œ		20JUN09	29JUN09 20JUN		60NU		N	_		3		
In of Vehiucular Access In of Salar In of Sala	1AI1444	Rock excavation/mucking out/temp. support	168		30JUN09	19JAN10 30JU		AN10			1m3 sol	15,089m3 rock(@90m3/day v	ith 2 work	c fron
Cast base slab Cast base slab Cast base slab 2.2 2.04N10 2.6JN10 2.6JN10 2.6JN10 2.6JN10 2.6JN10 2.2JN10 0.6 EB010 1 2.2J Cast valis Cast valis 12 12 12 10 FEB10 25/SH10 1 22 Cast valis Cast valis 12 12 12 10 FEB10 25/FEB10 1 22 Cast valis Cast valis 12 14 12 <	strucion o	if Vehiucular Access													
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Cast root slab 12 12 10 26 10 26 1 -22 <t< td=""><td>A11454</td><td>Cast walls</td><td>12</td><td></td><td>27JAN10</td><td>09FEB10 27JAP</td><td></td><td>EB10</td><td>-</td><td>2</td><td></td><td></td><td></td><td></td><td></td></t<>	A11454	Cast walls	12		27JAN10	09FEB10 27JAP		EB10	-	2					
In of Spiral Ramp Structure In of Spiral Ramp Structure <t< td=""><td>AI1456</td><td>Cast roof slab</td><td>12</td><td></td><td>10FEB10</td><td>26FEB10 10FE</td><td></td><td>EB10</td><td>-</td><td>N</td><td></td><td></td><td></td><td></td><td></td></t<>	AI1456	Cast roof slab	12		10FEB10	26FEB10 10FE		EB10	-	N					
Ocast base slab 1 12 12 27FEB10 12MAR10 27FEB10 12MAR10 1 -22 Cast base slab Cast base slab 1 1 1 22 1 2 1 2 1 2 2 1 2 2 1 2 2 2 1 2 <	1	of Saint Dama Standard				-									
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Cast ramp up to +86.0 mPD Cast ramp up to +86.0 mPD Cast ramp up to +86.1 mPD Cast ramp up to 89.4 mPD Cast ramp up to 98.0 mPD Cast ramp up to 4102.31 mPD Cast ramp ramp ramp r	A A LA ADA		i t		12MAD10	SOMAPIO 13MA		AD10		0	La		ł		
Cost ramp up to 465.10mPD 15 15 22APT10 10MAY10 1 222 Cast ramp up to 86.11mPD 15 15 11MAY10 28MAY10 1 222 Cast ramp up to 86.41mPD 15 15 11MAY10 28MAY10 1 222 Cast ramp up to 89.71mPD 15 15 15 17JUN10 28MAY10 1 222 Cast ramp up to 98.01mPD 15 15 15 17JUN10 28MAY10 1 222 Cast ramp up to 98.01mPD 15 15 15 17JUN10 05JUL10 1 -22 Cast ramp up to 10.82.1mPD 15 15 07JUL10 22JUL10 1 -22 Backfill spiral ramp: 2466m3 @ 200m3/day 15 13 23JUL10 05JUL10 1 22 Cast ramp up to 10.2.31mPD 15 13 23JUL10 05JUL10 1 22 Cast ramp up to 98.01mPo 13 23JUL10 05JUL10 23JUL10 1 1 22 Construct R	1011406	Cast ramp up to 1.0 communic	2 L		31MAR10	21APR10 31MA		PR10							
Cast ramp up to 89.41mPD 15 15 15 15 15 11MAY10 28MAY10 1 -22 Cast ramp up to 89.71mPD 15 15 15 15 17JUN10 28MAY10 1 -22 Cast ramp up to 98.01mPD 15 15 15 15JUN10 05JUL10 17JUN10 1 -22 Cast ramp up to 98.01mPD 15 15 05JUL10 05JUL10 23JUL10 1 -22 Cast ramp up to +102.31mPD 15 15 05JUL10 2JUL10 2JUL10 1 -22 Cast ramp up to +102.31mPD 15 15 05JUL10 2JUL10 2JUL10 1 -22 Cast ramp up to +102.31mPD 13 13 23JUL10 05JUL10 1 103 Construct RC spiral ramp: 2456m3 @ 200m3/day 15 15 07AUG10 2JUL10 1 -22 Construct RC spiral ramp top cast base slass 12 12 2JUL10 07AUG10 1 -22 Cost walls st lift cast base slass 12 12 2JUL10 05AUG10 1 -22<	1011108	Cast rame up to +85 10mPD	15		22APR10	10MAY10 22AP		1AY10		0			1		
Cast ramp up to 93.11mPD 15 15 15 15 15 15 15 15 15 15 15 15 15 17 17 17 1 -22 Cast ramp up to 98.01mPD 15 15 15 15 15 15 15 17 17 1 -22 Cast ramp up to +102.31mPD 15 15 15 05JUL10 05JUL10 05JUL10 1 -22 Cast ramp up to +102.31mPD 15 15 05JUL10 22JUL10 05JUL10 1 -22 Backfil spiral ramp: 2496m3 200m3/day 13 13 23JUL10 05JUL10 22JUL10 1 -22 Construct RC spiral ramp top 15 15 07AUG10 24UG10 1 103 Or Cascade Structure 15 15 07AUG10 24UG10 1 103 05UL10 1 22 Or Cast base slabs Cast base slabs 12 12 23JUL10 05AUG10 1 -22 0 Cast valls 1st lift 200m down from soffit 18 18	1011410	Cast ramp up to 80.41mPD	5 tî		11MAY10	28MAY10 11MA		1AY10	-						
Cast ramp up to 98.01mPD 15 15 15 15 15 15 15 15 15 15 15 15 15 15 17JUN10 05JUL10 1 -22 Cast ramp up to +102.31mPD 15 15 15 05JUL10 05JUL10 22JUL10 1 -22 Backfil spiral ramp: 2496m3 200m3/day 13 13 23JUL10 05JUL10 22JUL10 1 -22 Construct RC spiral ramp: 2496m3 200m3/day 15 15 07AUG10 23JUL10 06AUG10 1 103 On of Cascade Structure 15 15 07AUG10 24UG10 07AUG10 1 103 Or of Cascade Structure 12 12 23JUL10 05AUG10 1 103 Cast base slabs 12 12 23JUL10 05AUG10 1 -22 Cast walls 1st lift 268 walls 16 16 23JUL10 1 -22 Cast walls 2nd lift, 200mm down from soffit 18 16 23JUL10 1 22 22 Cast walls 2nd lift, 200mm down fro	C14410		ų			45 NIN10 29MA		1 IN10	-				1		
Cast ramp up to 90.0 mmr U Cast ramp up to 90.0 mmr U Cast ramp up to 110.31mPD Cast ramp up to 110.32mL10 Cast ramp up t	A1412		2 4					11140	-	4 0			-		
Cast ramp up to +102.31mPD 15 15 05 ubuL10 22JUL10 06JUL10 22JUL10 1 -22 Backfill spiral ramp; 2496m3@200m3/day 13 13 23JUL10 06AUG10 1 103 @ m3/5minutes Construct RC spiral ramp top 15 15 15 07AUG10 24AUG10 24AUG10 1 103 @ m3/5minutes of Cast ase slabs 12 15 15 07AUG10 24AUG10 24AUG10 1 103 @ m3/5minutes Cast base slabs 12 12 23JUL10 05AUG10 26AUG10 1 103 Cast walls 1st lift 1 -22 Cast walls 2nd lift, 200mm down from soffit 18 18 77AUG10 16SEP10 1 -22 Cast walls 25AUG10 1 -22 Cast wal	1AI1414		0							8			1	100	
Backfill spiral ramp; 2496m3@ 200m3/day 13 13 23JUL10 06AUG10 1 103 @ fm3/5ninutes Construct RC spiral ramp top 15 15 75 07UG10 24UG10 24UG10 1 103 @ fm3/5ninutes on of Cascade Structure 15 15 07AUG10 24UG10 24AUG10 1 103 @ fm3/5ninutes Cast base slabs 12 12 12 23JUL10 05AUG10 24AUG10 1 -22 Cast base slabs 18 18 06AUG10 26AUG10 26AUG10 1 -22	1AI1416	Cast ramp up to +102.31mPD	15	. 1	06JUL10	22JUL10 06JUI		UL10		N		4			
Construct RC spiral ramp top 15 15 07JUG10 24JUG10 1 103 1 103 on of Cascade Structure 12 12 12 12 23JUL10 05AUG10 1 103 1 103 1 103 1 103 1 103 1 103 1 103 1 103 1 103 1 103 1 103 1 103 1 103 1 103 1 103 1 103 1	1AI1418	Backfill spiral ramp; 2496m3 @ 200m3/day	13		23JUL10	06AUG10 23JUL		NUG10	-	33		ninutes			
On of Cascade Structure 12 12 23JUL10 05AUG10 1 Cast base slabs 12 12 23JUL10 05AUG10 05AUG10 1 Cast base slabs 18 18 06AUG10 26AUG10 26AUG10 1 Cast walls 1st lift 18 18 27AUG10 16SEP10 1 1 Cast walls 2nd lift, 200mm down from soffit 18 18 17SEP10 09OCT10 15SEP10 1	1AI1420	Construct RC spiral ramp top	15		07AUG10	24AUG10 07AU		NUG10	_	13					
Cast base slabs 12 12 23JUL10 05AUG10 1 Cast walls 1st lift 18 18 06AUG10 26AUG10 26AUG10 1 Cast walls 1st lift 18 18 06AUG10 26AUG10 26AUG10 1 Cast walls 2nd lift, 200mm down from soffit 18 18 27AUG10 16SEP10 16SEP10 1 Cast roof slabs 18 18 17SEP10 09OCT10 15SEP10 09OCT10 1	Istruction	of Cascade Structure													27115
Cast walls 1st lift 18 06AUG10 26AUG10 26AUG10 1 Cast walls 2nd lift, 200mm down from soffit 18 18 27AUG10 16SEP10 16SEP10 1 Cast roof slabs 18 18 17SEP10 090CT10 15SEP10 1		Cast base slabs	12		23JUL10	05AUG10 23JUL		VUG10	-	N		-		100	
Cast walls 2nd lift, 200mm down from soffit 18 27AUG10 16SEP10 16SEP10 1 Cast roof slabs 18 18 17SEP10 090CT10 15SEP10 1	1AI1474	Cast walls 1st lift	60		06AUG10	26AUG10 06AU		NUG10		2					
Cast roof slabs 18 17SEP10 09OCT10 17SEP10 09OCT10 1	1AI1476	Cast walls 2nd lift, 200mm down from soffit	60		27AUG10			SEP10	H	N		191			
	1AI1478	Cast roof slabs	8	18	17SEP10	090CT10 17SE		DCT10	-	2			-		

	Description	Dur Dur		Start	Finish Start	Finish	9	Float	
ntle & R	Dismantie & Removal of TBM								
04L1AI1458	Backfill & form cranage platform	24	24 1	110CT10	08NOV10 110CT10	08NOV10	-	-22	
04L1AI1460	TBM break through	0			11JUN11*	11JUN11*	-	-195	•
04L1AI1461	Dissembly & demobilization of TBM	50	50: 1	13JUN11		10AUG11		-195	•
04L1AI1462	Cast lower base slab	12	12 0	06JUL10	19JUL10 06JUL10	19JUL10	-	-19	before TBM retrieval
uction o	Construction of Box Culvert Structure								
04L1AI1463	Cast upper base	9	9	11AUG11	17AUG11 11AUG11	17AUG11	-	-195	
04L1AI1464	Cast walls 1st lift	18	18 1	18AUG11	07SEP11 18AUG11	07SEP11	F	-195	after retrieval of TBM & gantry cranes
04L1A11466	Cast walls 2nd lift, 200mm down from soffit	18	18 0	08SEP11	29SEP11 08SEP11	29SEP11	-	-195	
04L1AI1468	Cast roof slabs	30	18 3	30SEP11	220CT11 30SEP11	220CT11		-195	
04L1AI1470	Backfill & compaction above box culvert; ~13m	22	22 2	240CT11	17NOV11 240CT11	17NOV11		-195	
catior	Modification of Existing Channel in Dry Season								
el Modi	Channel Modification (Varied)Works (Civil Works)								
07R1A11502	Break wall & slab at pipe pile location	00	8 02N	*60/0N	10NOV09 02NOV09*	* 10NOV09	1	70	
07R1A11504	Set up pipe pile rig	en	3 1	11NOV09	13NOV09 11NOV09	13NOV09		70	***
07R1AI1506	Install pipe piles (30n*12m)	10	10 1	14NOV09	25NOV09 14NOV09	25NOV09		70	-
07R1A11508	Break existing masonry wall	4	4 2	26NOV09	30NOV09 26NOV09	SONOVOS	Ŧ	0/	
07R1A11510	PC blcok/sand back bund wall for water diversion	2	2 0	01DEC09	02DEC09 01DEC09	02DEC09	F	70	
07R1AI1512	Cut existing slab	•	сэ •-	03DEC09	03DEC09 03DEC09	03DEC09	*	70	
07R1AI1514	Demolish Wo Yi Hop Nullah wall & slab	9	9	04DEC09	10DEC09 04DEC09	10DEC09	F	70	
07R1AI1518	Construct WYH Nullah wall below slab	Q	9	11DEC09	17DEC09 11DEC09	17DEC09		20	
07R1A11520	Backfill & SRT behind wall below slab	18	18 1	18DEC09	11JAN10 18DEC09	01NAL11	ł	70	
07R1AI1522	Demolish Shing Mun Nullah wall with struts	Q	9	12JAN10	18JAN10 12JAN10	18JAN10	F	20	
07R1AI1524	Demolish Shing Mun Nullah slab	4	4	19JAN10			77	20	
07R1AI1626	Construct slab	Ø	80	23JAN10	01FEB10 23JAN10		-	20	
07R1AI1628	Construct wall for WYH Nullah	10	10	02FEB10			-	20	
07R1AI1630	Construct wall for SM Nullah	10	10	17FEB10	27FEB10 17FEB10		-	20	
07R1AI1632	Assoc. RC works for trash grill & stop slogs	18	18 0	01MAR10	20MAR10 01MAR10	0 20MAR10	٣	20	##
07R1AI1634	Mass concrete infill	m	3 2	22MAR10	24MAR10 22MAR10	0 24MAR10	-	20	
07R1AI1636	PC block & san bag bund wall	en	3 2	25MAR10	27MAR10 25MAR10	0 27MAR10	-	20	
el Modi	Channel Modification Works (Steel Works)								
07R1AI150T	Install steelworks, Phase 3	36	36 0	NOV11*	01NOV11* 12DEC11 01NOV11*	· 12DEC11	-	-143	
Piling Works									
lorks A	Piing Works Along Crest Plarform								
11R2AI1202	Erect piling platform for upper piles	5	12 2	22SEP10	07OCT10 22SEP10	07OCT10		103	
11R2A1204	Mobilize piling rig & set up	ø	9	080CT10	140CT10 080CT10	140CT10	•	103	
11R2A11206	350mm dia. pre-bored H-piles (upper); 36 nos.	98	36 1	150CT10	26NOV10 15OCT10	0 26NOV10		103	a tho/day
11R2AI1208	Demobilize piling rig	w	6	27NOV10	03DEC10 27NOV10	03DEC10	+	103	
all & C	Skin Wall & Crest Platform								
11R2AI1210	Excavate & hack off grout	œ	80	04DEC10	13DEC10 04DEC10	13DEC10	۲	103	
11R2AI1212	Construct skin wall	12	12 1	14DEC10	29DEC10 14DEC10	0 29DEC10	+	103	
		c			OR IAN11 RODECTO	A DO LANIA		100	

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	103	103			35 Percent and the second and the se	35		-	-195	956				8	-195			-183 150nos. climber, 200nos. woodland#63nos. trees, 2072nos.	-181	-143	-118		ofor Ce	41 • for Cascade at Intake I-1			for Cascad			648 within this Cost Centre				ds	•		44			66 Aspiral ramp at Intake I-1
Float	1	11		1 -195	1 -195	1 -195		1 -195	ب ۲	1 -195	1	1 -195		1 -195	-	2	2	-	2		2 -1		2 1,645	2 1,441	2 1,403		-	2		2 6		-			2 1,557	2 1,489	2 1,441		2 1,307	2 1,266
Finish	13JAN11	27JAN11		24NOV11	02JAN12	09JAN12		16JAN12	02FEB12	11FEB12	16FEB12	01MAR12		15MAR12	22MAR12	29MAR12	19APR12	01MAR12	01MAR13	29DEC11	28DEC12		29JUN09	19JAN10	26FEB10	26AUG10	09OCT10	220CT11	220CT11	22MAR12	No. of Street, or Stre		12DEC11	29JUN09	25SEP09	02DEC09	19JAN10	21APR10	02JUN10	13JUL10
Start	10JAN11	JAN11		18NOV11	25NOV11	03JAN12		10JAN12	17JAN12	03FEB12	13FEB12	FEB12		03FEB12	17FEB12	23MAR12	30MAR12	27JAN12	02MAR12	13DEC11	30DEC11																			
Finish	13JAN11 10	27JAN11 14JAN11		24NOV11 18	02JAN12 25	09JAN12 03		16JAN12 10	02FEB12 17	11FEB12 03	16FEB12 13	01MAR12 17FEB12		 15MAR12 03	_	-	19APR12 30	01MAR12 27	01MAR13 02		28DEC12 30		29JUN09	19JAN10	26FEB10	26AUG10	090CT10	220CT11	220CT11	22MAR12			12DEC11	29JUN09	25SEP09	02DEC09	19JAN10	21APR10	02JUN10	13JUL10
Start	10JAN11	14JAN11		1BNOV11	25NOV11	03JAN12		10JAN12	17JAN12	03FEB12	13FEB12	17FEB12		03FEB12	17FEB12	23MAR12	30MAR12	27JAN12	02MAR12	13DEC11	30DEC11						ľ)													
Dur	4 1(12 1		6 18	29 25			9		0	4	12 1		36 0		7 20	21 30	30 2	365 02	12 1	365 31		0	0	0	0	0	0	0	0	1		0	0	0	0	0	0	0	0
a ma	4	12		g	29	9		9	12	œ	4	12		36	30	7	21	30	365	12	365		0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
Activity Description	Backfill & construct U-channel	Fix rebar/ erect fwk/concrete ramp	Above Inclined Access Ramp	Mobilize piling rig & set up	350mm dia. pre-bored H-piles (lower); 29 nos.	Demobilize piling rig	Inclined Access Ramp	Excavate & hack off grout	Construct skin wall	Construct capping beam	Backfill & construct U-channel	Fix rebar/erect fwk/concrete ramp	Remaining Works Prior to Handover	Finishing & reinstatement works; Portion A	Pre-handover inspections and remedial works	Contractor serve notice for Works completion	SO issues completion certificate	Landscaping works at Portion A	Establishment Works at Portion A	Install flow measurement devices at Intake I-1	Maintain & monitor flow monitoring	Schedule of Milestones for Cost Center No. 4L	4L 1; On completion of 50% excavation	4L 2; On completion of excavation	4L 3; On completion of 25% concreting	4L 4; On completion of 50% concreting	4L 5; On completion of 75% concreting	4L 6; On completion of Cascade	4L 7; On completion of connecting BC	4L 8; On completion of all works under this CC	Schedule of Milestones for Cost Centre No. 7R		7R 1; On completion of trash grills	7R 2; On completion of 25% excavation	7R 3; On completion of 50% excavation	7R 4; On completion of 75% excavation	7R 5; On completion of all excavation	7R 6; On completion of spiral ramp to +80mPD	7R 7; On completion of spiral ramp to +90mPD	7R 8; On completion of spiral ramp to +100mPD
<u>0</u>	11R2AI1216	11R2AI1218	9	11R2AI1220	11R2AI1222	11R2AI1224			11R2A11228	11R2AI1230	11R2A11232	11R2AI1234	Remaining W	07R1AI1606	07R1AI1608	07R1AI1610	07R1AI1612	16R7AI1602	16R7AI1604	3DL1A11602	3DL1A1604	Schedule of I	04L1AI1802	04L1A11804	04L1AI1806	04L1A11808	04L1A11810	04L1AI1812	04L1AI1814	04L1AI1816	Schedule of		07R1AI1902	07R1AI1904	07R1AI1906	07R1AI1908	07R1AI1910	07R1AI1912	07R1AI1914	07R1AI1916

Schodula of Milastones for Cost Contra No. 11B	0 0	0 0	24AUG10 22MAR12	24AUG10 22MAR12	2 1,224 2 648		♦at Intake I-1 under this Cost Centre
 11R 1; On completion of soil nailing works 11R 2; On completion of piling at platform 11R 3; On completion of piling at branch access 11R 4; On completion of all works under this CC 	0000		06SEP08A 26NOV10 02JAN12 03DEC10	06SEP08A 26NOV10 02JAN12 03DEC10	2 1,130 2 1,130 2 1,132 2 1,123	l at Intake I wal a	e I-1 ♦ wall at platform at Intake I-1 at branch access at Intake I-1 ♦ ♦ under this Cost Centre
of Intake I-2 orks hts to Finalize Design freet platform/mibilization & set up GI rig Drill 3 nos. GI holes for Intake Structures Drill 1 hole for Intersection with Main Tunnel Overhead Cable			12SEP08A 16SEP08A 12SEP08A 17SEP08A 03NOV08A 17SEP08A 11NOV08A 24NOV08A 11NOV08A	16SEP08A 03NOV08A 24NOV08A			
Overnead Cable Temporary diversion of CLP overhead cable mu Watermain Temporary Diversion of 100mm dia. Watermain Issue VO35 for temp. diversion Issue VO35 for temp. diversion Preparation works Install steel support Lay new watermain Obtain ICE certificate for temp. support Pressure test Sterilise new pipe & take water sample Watermain connection by WSD	30 30 64* 64* 64 64* 1 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 1 4 1 4 1 5 2 3 3 3 3 4 1 5 2 6 1 6 1 7 3 8 3 9 3 10 1		02SEP08A 17OCT08A 02SEP08A 03OCT08A 05DEC08A 02OCT08A 03OCT08A 03OCT08A 03OCT08A 04OCT08A 03OCT08A 03OCT08A 04OC708A 04OC708A 04OC708A 05NOV08A 04NOV08A 05NOV08A 19NOV08A 05NOV08A 05NOV08A 20NOV08A 15NOV08A 02NOV08A 22NOV08A 25NOV08A 22NOV08A 25NOV08A 05DEC08A 22NOV08A	and the second s	N N F F F F F N	I I - D - P (- P - P - P	
VO011-02 Receive VO11 for transparent hoarding VO011-04 Procure/prepare/install transparent hoarding VO03125 Replace NO0321202 Receive VO-32 for replacing hoarding by CLF VO0321204 Procure/prepare/install transparent hoarding	0 0 51 51 0 0 51 51	1 15JUL08A	14JUL08A 14JUL08A 13SEP08A 15JUL08A 16SEP08A 15JUL08A 17NOV08A 17SEP08A	14JUL08A 13SEP08A 16SEP08A 17NOV08A	*	◆ ¹¹ ◆ ¹¹	
Possession of Portion B -90d of DOC Obtain TTA (ingress & egress) approval Site clearance Erect hoarding Install remote contorl CCTV as per ER 4.4.10 Tree transplanting: 1 no.	0 0 0 0 30 30 30 30 12 12 72 72	0 26MAR08A 0 26MAR08A 30 02MAY08A 30 05JUN08A 12 28FEB09A 72 10DEC08A	26MAR08A 19APR08A 05SEP08A 05JUN08A 16MAR09A 13MAR09A 28FEB09A 23APR09A 10DEC08A	1 19APR08A 1 05SEP08A 1 05SEP08A 1 16MAR09A 1 13MAR09A 23APR09A 23APR09A	0 0	••• -1	
Stream Diversion/Approach Channel/H-Pile Wall Revised Layout of Pile Wall at I-2 V0022-02 Received V022 for revised layout of pile wall	0	0	10JUL08A	10JUL08A	-	•	

2	Bescription	our Dur	Dur	Start	Finish Start	Finish		Floal				
V0022-04	SOR confirmed to demolish exit. ret. wall	-	-	A8	5A 11J	21	F		0			
V0022-06	Demolish existing retaining wall	~	-	1.1.1.1	13SEP08A 13SEP08A	A 13SEP08A	-		-			
V0022-16	Reinstate piling platform	2	2	16SEP08A	17SEP08A 16SEP08A	A 17SEP08A			-			
1: Const	Phase 1: Construct 550 dia. H-bile Wall											
12R3BI2202	Form temp. access ramp along west side of stream	44	44 1	44 10JUN08A	31JUL08A 10JUN08A	A 31JUL08A	1		8			
12R3BI2204	Additional SI & engineering works	26	26 2	25AUG08A	24SEP08A 25AUG08A	A 24SEP08A						
12R3BI2206	Mobilize piling rig & set up	ۍ ا	5 2	25SEP08A	30SEP08A 25SEP08A	A 30SEP08A						
12R3BI2208	Construct piles 1 to 18	13	13 0	02OCT08A	170CT08A 020CT08A	A 170CT08A	-	-	•			
12R3BI2210	Piling works stopped by the SOR	æ	8	180CT08A	270CT08A 180CT08A	A 270CT08A	+					
12R3Bl2212	Construct piles 19-58	28	28 2	280CT08A	26NOV08A 28OCT08A	A 26NOV08A	-		8			
12R3BI2214	SOR's instruction to delet pile 59	0	0		02DEC08A	02DEC08A	-		•		-	
12R3Bl2216	Demobilize piling rig	4	4	03DEC08A	06DEC08A 03DEC08A	A 06DEC08A	-		-			
12R3BI2218	Construct skin wall/caping beam/u-channel	70*	70*	25JUN09	15SEP09 25JUN09	15SEP09	-	80		58 nc	58 nos; @ 750mm c/c	
12R3BI2220	Excavate for skin wall, 4 bays	18	18	25JUN09	16JUL09 25JUN09	16JUL09	-	80		-		
12R3BI2222	Construct for skin wall; 4 bays	24	24	17JUL09	13AUG09 17JUL09	13AUG09	-	80				
12R3BI2224	Construct capping beam; 4 bays	16	16	14AUG09	01SEP09 14AUG09	01SEP09	÷	80		-		
12R3Bl2226	Construct drainage; 4 bays	12	12	02SEP09	15SEP09 02SEP09	15SEP09	-	80		9		
1: Const	Phase 1: Construct Dry Weather Flow Channel											
08R1BI2202	Excavate for new low flow channel	9	6	27MAR09A	03APR09A 27MAR09A 03APR09A	A 03APR09A	-	1		-		
08R1BI2204	Construct new low flow channel	9	ø	11JUN09	17JUN09 11JUN09	17JUN09	-	-196		-		
08R3BI2208	Remove blcock wall/excavate for gantry footing	12	12	18JUN09	02JUL09 18JUN09	02JUL09	-	-196				
08R3BI2212	Construct PC bund wall to protect gantry footing	G	9	03JUL09	0370109 0370109	607NF60		-196		-		
2; Cons	Phase 2; Construct Approach Channel West											
08R1B12218	Construct temp. concrete block bund	12	12 0	02NOV09*	14NOV09 02NOV09*	14NOV09	-	43		Ipro	provision of water pump.	du
08R1BI2220	Excavate for western portion guide wall & slab	12	12	16NOV09	28NOV09 16NOV09	0 28NOV09	F	43		-		
08R1BI2222	Construct western portion of guide wall & slab	50	50	30NOV09	29JAN10 30NOV09	_1	-	43		0		
08R1BI2224	Remove concrete block bund	9	9	30JAN10	05FEB10 30JAN10	05FEB10		43		-		
3; Const	Phase 3; Construct Approach Channel North											
08R1BI2226	Construct temp. concrete block bund	9	8	01NOV10*	D6NOV10 01NOV10*		-	22			provision (provision of water pump
08R1BI2228	Excavate for L-shaped retaining wall	12	12	08NOV10	20NOV10 08NOV10		-	22			•	
08R1BI2230	Construct L-shaped retaining wall	18	18	22NOV10	11DEC10 22NOV10	11DEC10		22				
08R1BI2232	Excavate eastern portion of guide wall & slab	12	12	13DEC10	28DEC10 13DEC10	28DEC10	-	22				
08R1BI2234	Construction of boulder traps; 7nos.	24	24	29DEC10	26JAN11 29DEC10	26JAN11	-	22			0	
08R1BI2236	Construct eastern portion of guide wall & slab	24	24	27JAN11	26FEB11 27JAN11	26FEB11	•-	22			0	
08R1BI2240	Remove temp. concrete blcok bund	ω	G	28FEB11	05MAR11 28FEB11	05MAR11	۲	22			+	
4 - Cons	Phase 4 - Construct Remaining Appr. Channel											
08R1BI2242	Remove gantry crane & steel deck	18	18	16DEC11	10JAN12 16DEC11	10JAN12	-	-196				
08R1BI2244	Excavation for remaining approach channel	12	12	11JAN12	27JAN12 11JAN12	27JAN12	+	-196				4
08R1BI2246	Construct remaining approach channel	24	24	28JAN12	24FEB12 28JAN12	24FEB12	٣	-196				
08R1BI2248	Close out last section of guide wall	12	12	25FEB12	09MAR12 25FEB12		*	-196				-
	Construct trach aril	12	10	25FFB12	09MAR12 25FEB12	D9MAR12		-196				

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LD Float			Wan Kei						140	-175	-196		-196	SCT	-196	-196		-196	-196	-196			iprovision of TTA		Iprovision of TTA		33		-196	-196		1	96,	96-	96-	-96	-96	-96 If only the sort from the SOR	-96			-20		
			1 A60	09A 1	1 A09A	-	1 A805	1 100X	+.	09	1		109 1	f		509 1		310 1	/11 1	211 1		C08A 1	1 109A 1	1 A605	1 A605	R09A 1	1 A605	209A 1	1 601	1 108			1 100	1 600	110 1	310 1	310 1	310 1	R10 1			309 1		
Finish			A 121FEB09A	A 26FEB09A	A 12MAR09A			A 18APR09A	-	A 30JUL09	07SEP09		1 290CT09			24AUG09		9 23MAR10	17NOV11	15DEC11		3A 27DEC08A	A 06JAN09A	A 13MAR09A	A 19MAR09A	9A 23MAR09A		25APR09A	BA D4JUN09					9 29DEC09		0 20FEB10	0 24FEB10	0 27FEB10	0" 27MAR10			14AUG09		
Start			21FEB09A 20JAN09A	26FEB09A 23FEB09A	12MAR09A 27FEB09A	A 400ADA DADA	26MAR09A 13MAR09A	18APR09A 27MAR09A		04MAY09A	07SEP09 25AUG09	25AUGU	290CT09 08SEP09	001107	111UL09 10UL09	24AUG09 13JUL09		23MAR10 300CT09	17NOV11 11NOV11	15DEC11 11NOV11		27DEC08A 08DEC08A	06JAN09A 29DEC08A	13MAR09A 07JAN09A	19MAR09A 14MAR09A	23MAR09A 20MAR09A	25APR09A 21MAR09A	A	9 27APR09A		9 25JUN09				0 30DEC09	01/AN10	0 22FEB10	0 25FEB10	0 01MAR10			14AUG09 10JUL09		
Finish			21FEB09	26FEB09		-	26MAR09	18APR09		SOJULOS	07SEP06	0/SEPU	290CT0	10 11 10	11JUL00	24AUG0		23MAR1	17NOV1	15DEC1		27DEC08	06JAN09					25APR09A	04JUN09	24JUN09	08JUL09	0010L00	14NOV09	29DEC09	06JAN10	20FEB10	24FEB10	27FEB10	27MAR10			14AUG0		
Start			20JAN09A	23FEB09A	27FEB09A	VOOD VIVO	13MAR09A	27MAR09A		04MAY09A	25AUG09	ZPAUG09	08SEP09	00111.01	1070108	13JUL09		300CT09	11NOV11	11NOV11		08DEC08A	29DEC08A	07JAN09A	14MAR09A	20MAR09A	21MAR09A		27APR09A	05JUN09	25JUN09		02NOV09*	16NOV09	30DEC09	07JAN10	22FEB10	25FEB10	01MAR10"			1010109		
Dur Dur			24	4	12		12	12		25		-	42		2	37		118	9	30		15	9	54	S	e	-	0	31	17	12	0	12	36	9	36	0	m	24			31		
Dur			24	4	12	2	12	12	1 10	25	10	12	42		N	37		118	9	30		15	9	54	ŝ	8	-	0	31	4	12	0	12	36	9	36	e	e	24			31		
Activity Description	Construct Vortex/Drop Shaft	Steel Deck & Gantry Crane/Noise Enclosure	Construct 8 nos. mini piles	Erect timber platform for mini piling	Construct 6 nos mini olles		Excavation for footing/pile caps	Construction of footing/pile caps		Install steel deck	Construct footion for cantor crane	Construct footing for gantry crane	Install gantry crane & noise enclosure	Ground Treatment Works for Vortex Shart	Setting up	Probing & curtain grouting around shaft	nd Construction of Vortex Shaft		Set up for lining construction	Construct permanent lining; 30m @ 4m/ 4days	Construct Air Vant Shaft	Enlarge the platform for RCD operation	Mobilize & set up RCD for excavation	Bore shaft with RCD; 37.5m @1m/day	Demobilize RCD rig	Install permanent steel liner	Preparation works for casting concrete	Damage found on installed steel liner	Removal of steel liner	Remove RCD platform	Construct PC bund wall	Divert channel to West	Footing for gantry crane	Erection of gantry crane	Set up sliding system	Install steel casing	Survey checking & capping concrete	Preparation & concreting	Construct upstand wall	Construct Man Access Shaft	Ground Treatment for Man Access Shaft	Probing & curtain grouting around shaft	Contro Crane & Noice Enclocitie at M. A. Shaft	A NOISH CHURCH OF ME TO CHURCH
9	Excavate & I	Steel Deck & C	05L1BI2300	05L1BI2301	051 1B12302	00F 10/5202	05L1BI2303	051 1BI2304		05L1BI2305	051 1B12316	05L1BI2316	05L1Bl2318	 Ground Treat	05L1BI2306	05L1BI2308	Excavation and	05L1BI2320	05L1BI2321	05L1BI2322	R	05L1Bl2418	05L1BI2420	05L1BI2422	05L1BI2424	05L1BI2426	05L1BI2427	05L1BI2428	05L1BI2429	05L1BI2430	05L1BI2432	05L1BI2434	05L1BI2436	05L1BI2438	05L1BI2440	05L1BI2446	05L1BI2448	05L1B12450	05L1BI2452	68		05L1BI2502	Control Crane	Charles & western

1	nescription			tions	the state of the s	r		-		
	Install gantry crane & noise enclosure	36	36	29AUG09	120CT09 29AUG09	09 12OCT09	1 60	-50		Provision of TTA
KCal	ELS and Excavation upto Rock Head Level at M.A.									
	Install sheet piles	9	9	15AUG09	21AUG09 15AUG09	09 21AUG09	1 60	44		
	Excavation to rock head level	18	18	130CT09	03NOV09 13OCT09	60/UNE0 60	1 10			
Excavation & C	Construction of Man Access Shaft									
	Excavation/muck out/temporoary support	127	127	04NOV09	12APR10 04NOV09	09 12APR10	10 1	-50		1
	Construct base	4	4	15MAR11	18MAR11 15MAR11		1 11		after construct	after construction of man access adit
	Set up for 37m shaft construction (wall only)	9	9	19MAR11	25MAR11 19MAR11		1 1			-
	Construct wall/stair, 25 landings @ 3 days/land	75	75	26MAR11	28JUN11 26MAR11	11 28JUN11	1 1			1
	Removal of gantry crane	12	12	29JUN11	13JUL11 29JUN11	11 13JUL11	1 1	-50		•
1	Construct wall above ground level	00	60	14JUL11	22JUL11 14JUL11	1 22JUL11	1 1	-50		
	Construct shaft roof	12	12	23JUL11	05AUG11 23JUL11	1 05AUG11	11 1	-50		
8	Excavate & Construct Deaeration Chamber									
							-		100 m 100 m	
	Probing/grout/excavate/muckout/temp.support	12	_	24MAH10			-		foli neading	4m deep 1/m, @o.zm/day
05L1BI2604	Drill/excavate/muckout/temp. support for bench	50		24JUN10						4.5m deep=22*4.5*9=891m3, 17.8m3/day
05L1BI2607	Drill/excavate/muckout/temp. support for bottom	50	50	23AUG10	1		10 1			4.5m deep-22*4.5*9=891m3, 17.8m3/day
05L1BI2608	Set up for lining construction	12	12	26AUG11	08SEP11 26AUG11		11 1	-196		
05L1BI2610	Construct base; 3 bays	თ	თ	09SEP11	20SEP11 09SEP11		11 : 1	-196		
05L1Bl2612	Construct walls 2 lifts; 3 bays	24	24	21SEP11	200CT11 21SEP11	11 200CT11	11 1	-196		
05L1BI2614	Const. crown/underpin. of air vent & drop shafts	18	18	210CT11	10NOV11 210CT11	11 10NOV11	1 1	-196		
Excavate & 0	Construct Main Adit Tunnel									
3BL1BI2102	Probing/grout/temp. support/excavation/muck out	200	200	230CT10	27JUN11 230CT10	10 27JUN11	1 1	-196		56m @ 4m/11 days
	Construct permanent lining	50	1.00	28JUN11	25AUG11 28JUN11		11 1	-196	including a	days for setup of moul
Excavate & C	Excavate & Construct Man Access Adit									
LOZ	Upper Horizontal Section									
	Probing/gorut/excavate/muckout/temporary support	6	60	13APR10	30JUL10 13APR10	10 30JUL10	1 01	-50		2 6m, @ 4 m/9 day
05L1BI2830	Set up for 23m upper adit construction	φ	ø	26JAN11	01FEB11 26JAN11	1 01FEB11	1 11	-50		-
05L1Bl2834	Construction of permanent lining	32	32	02FEB11	14MAR11 02FEB11	11 14MAR11	11 1	-50		
Vertical Section										
05L1B12807	Probing & curtain grouting around shaft	24	24	31JUL10	27AUG10 31JUL10		10 1	2		
05L1B12808	Set up for 7.2m raise (shaft) excavation	8	3	28AUG10	30AUG10 28AUG10		10 1			
05L1BI2810	Excavate/removal of rock/temporary support	24	24	31AUG10	28SEP10 31AUG10		10 1			■@ 0.3m/day & night
05L1BI2822	Construct base of raise shaft	4	4	09DEC10	13DEC10 09DEC10		10 1	-		
05L1BI2824	Set up for 9m raise stairway const. (wall only)	9	ő	14DEC10	20DEC10 14DEC10	10 20DEC10	10 1			
05L1BI2826	Construct wall & stair; 7 landings @4days/landin	28	28	21DEC10	25JAN11 21DEC10	10 25JAN11	11 1	-50		
ZOL	Lower Horizontal Section									
05L1BI2812	Set up for 9.3m lower adit excavation	2	~	29SEP10	30SEP10 29SEP10	10 30SEP10	10 1	-		
05L1BI2814	Excavate/removal of rock/temporary support	31	31	02OCT10	08NOV10 02OCT10		/10 1			CO.3m/day & night
05L1BI2816	Set up for 7m lower adit construction	9	ŵ	01/00/10	15NOV10 09NOV10	10 15NOV10	10 1	-50		
	Construction of permanent lining for lower adit	20	20	16NOV10	08DEC10 16NOV10	10 08DEC10	10 1	-50		

																	equipment for tunnelling at Intake I-2	◆for Adit Tunnel at Intake I-2	for Adit Tunnel at Intake I-2	for Adit Tunnel at Intake I-2	For Adit Tunnel at Intake I-2	for Adit Tunnel at Intake I-2	For Adit Tunnel at Intake I-2	◆for Adit Tunnel at Intake I-2	◆for Adit Tunnel at Intake I-2	wunder this Cost Centre		Delow G.L. except for Adit at Intake I-2.	Delow G.L. except for Adit at Intake I-2	Delowe G.L. except for Adit at Intake I-2	Delow G.L. except for Adit Intake I-2	vortex shaft at Intake I-2	Chamber at Intake I-2	♦shaft at Intake I-2	♦shaft at Intake I+2	 ◆adit at Intake I-2 	under this Cost Centre		channel and assictated decking at Intake I-2	tintake I-2	
Float			27	27			96	-196	0	0	-158	-196	184	5 0			65	38	10	80	49	21	993	905	858	742		83	58	86	65	746	781	74	878	22	647		661	661	
ID Float				1 -127			1 -196	1-19	2	2	1	1	1		1		2 1,165	2 1,138	2 1,110	2 1,080	2 1,049	2 1,021	0	2	2	2 7		2 1,483	2 1,358	2 1,286	2 1,165	2 7	2 7	2 1,374	2 8	2 1,022	2 6		2	2	
Finish			240CT11	19DEC11			16MAR12	23MAR12	30MAR12	20APR12	16MAR12	16MAR13	20FER12	201 CU 12			220CT10	18NOV10	16DEC10	15JAN11	15FEB11	15MAR11	12APR11	09JUL11	25AUG11	19DEC11		08DEC09	12APR10	23JUN10	220CT10	15DEC11	10NOV11	27MAR10	05AUG11	14MAR11	23MAR12		09MAR12	09MAR12	
Start			AUG11	OCT11			04FEB12	18FEB12	24MAR12	31MAR12	16DFC11	17MAR12	07FFR10	21FFB12																											
Finish			240CT11 26AUG11	19DEC11 250CT11			16MAR12 04	23MAR12 18		1				_			220CT10	18NOV10	16DEC10	15JAN11	15FEB11	15MAR11	12APR11	09JUL11	25AUG11	19DEC11		08DEC09	12APR10	23JUN10	220CT10	15DEC11	10NOV11	27MAR10	05AUG11	14MAR11	23MAR12		09MAR12	09MAR12	
Start			26AUG11	250CT11			04FEB12	18FEB12	24MAR12	31MAR12	16DFC11	17MAR12	07EEE40	0/FEB12																											
Dur			48	48			36		1		1	1.		-			0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0		0	0	
Dur		-	48	48			36	30	6	24		365	3	365	2000		0	0	0	0	0	0	0	0	io	0		0	0	0	0	0	0	0	0	0	0		0	0	
Description	Junction Between Main Tunnel & Adit Tunnel		Temp. support & excavation breakthrough	Construct collar between MT & AT	Remaining Works Prior to Handover		Finishing & reinstatement works: Portion B	Pre-handover inspections and remedial works	Contractor serve notice for Works completion	CO incluse commitation carificate	Tourseas compression commence	Establishmont Morks at Dation D		Install now measurement devices at intake I-2		Schedule of Milestones for Cost Centre No. 3bL	3bL 1; On establishing tunnelling equipments	3bL 2; On completion of 12,5% perm. tunnel linin	3bL 3; On completion of 25% perm. tunnel lining	3bL 4; On completion of 37.5% perm. tunnel linin	3bL 5; On completion of 50% perm. tunnel lining	3bL 6; On completion of 62.5% perm. tunnel linin	3bL 7; On completion of 75% perm. tunnel lining	3bL 8; On completion of 87,5% perm. tunnel linin	3bL 9; On completion of perm. tunnel lining	3bL 10; On completion of all works under this CC	Schedule of Milestones for Cost Centre No. 5L	5L 1; On completion of 25% of excavation	5L 2; On completion of 50% of excavation	5L 3; On completion of 75% of excavation	5L 4; On completion of all excavation	5L 5; On completion of drop shaft & vortex shaft	5L 6; On completion of de-aeration chamber	5L 7; On completion of air vent shaft	5L 8; On completion of man access shaft	5L 9: On completion of man access adit	5L 10; On completion of all works under this CC	Schedule of Milestones for Cost Centre No. 8R	8R 1; On completion of approach channel	8R 2; On completion of trash grill	
	Junction Bel		3BL1BI2106	3BL1BI2108	Remaining V	Summer	08R1BI2102	08R1BI2103	DBR1BI2104				10K/BIZ104	3DL1BI2101		Schedule of	3BL1BI2A02	3BL1BI2A04	3BL1BI2A06	3BL1BI2A08	3BL1BI2A10	3BL1BI2A12	3BL1BI2A14	3BL1BI2A16	3BL1BI2A18	3BL1BI2A20	Schedule of	05L1Bl2M02	05L1BI2M04	05L1BI2M06	05L1BI2M08	05L1BI2M10	05L1BI2M12	05L1BI2M14	05L1BI2M16	05L1BI2M18	05L1BI2M20	Schedule of	08R1BI2R02	08R1BI2R04	

	Description	Dur	Dur	Start	Finish Start	Finish)	Float			
08R1BI2R06	8R 3; On completion of all works under this CC	0	0	. 4	23MAR12	23MAR12	N	647		under this Cost Centre	
ule of	Schedule of Milestones for Cost Centre No. 12R										
12R3BI2S02	12R 1: On completion of 50% pile retain. wall	0	0	Ó	DENOVOBA	06NOV08A	~		e llew	at Intake I-2	
12R3BI2S04	12R 2; On completion of pile retain. wall	0	0	N	26NOVD8A	26NOV08A	2	-	-wall		
12R3BI2S06	12R 3; On completion of boulder traps	0	0		26JAN11	26JAN11	2	1,069		Atraps at Intake I-2	1-2
12R3BI2S08	12R 4; On completion of all works under this CC	0	0	- 1	23MAR12	23MAR12	2	647		under this Cost Centre	
uctic	Construction of Intake I-3										
nary	Preliminary Works										
al G	Additional GI Works To Finalize Design										
AGIC-02	Erect platform/mibilization & set up GI rig	n	3 03N	VOV08A 0	03NOV08A D5NOV08A 03NOV08A 05NOV08A	A 05NOV08A			-		
	Drill 3 nos. GI holes for Intake Structures	12	12 06N	VOV08A 1	06NOV08A 19NOV08A 06NOV08A 19NOV08A	3A 19NOV08A	-		D		
Repla	VO#32; Replace Hoarding by Chain Link Fence										
V0032-1302	Received VO-32 for replacing hoarding by CLF	0	0		16SEP08A	16SEP08A	-		*		
V0032-1304	Procure/prepare/install transparent hoarding	80	80 175	17SEP08A 0	06MAR09A 17SEP08A	3A D6MAR09A	-				
								1			
חורוטועב		-			ZDIMARUSA		N	1			
01R1CI3104	Site clearance	4			20SEP08A 22APR08A		-				
01R1CI3106	Haording at slope crest	48			30JUL08A 03JUN08A		-	Ì			
01R1Cl3110	Set-up wheel washing facilities	9			03JUL08A 30JUN08A		-				
01R1CI3118	Install remote contorl CCTV as per ER 4.4.10	12	12 28(280CT08A 1	10NOV08A 28OCT08A	3A 10NOV08A	-				
ansp	I ree I ransplanting Works										
16R7CI3202	Tree inspection & report	2	7 01/	01APR08A 2	26APR08A 01APR08A	3A 26APR08A	2				
16R7CI3204	Tree transplant for upper parts; 8 nos	86*	86* 04.	04JUN08A 1	13SEP08A 04JUN08A	133EP08A	-		0		
16R7CI3206	1st stg tree pruning	2	2 04.	04JUN08A 2	21JUN08A 04JUN08A	SA 21JUN08A	*-		•		
16R7CI3208	2nd stg tree pruning	2	2 04,	04JUL08A 0	04JUL08A 04JUL08A	A 04JUL08A	+		-		
16R7CI3210	Final stg. tree pruning & tree uplifting	ø	6 085	08SEP08A 1	13SEP08A 08SEP08A	3A 13SEP08A					
16R7Cl3212	Tree transplanting at Ch250-Ch200); 20 nos.	214*	214* 210	21JUN08A 0	09MAR09A 21JUN08A	A O9MAR09A	-				
16R7CI3214	1st stg tree pruning	m	3 21	21JUN08A 1	15JUL08A 21JUN08A	A 15JUL08A	-		n		
16R7Cl3216	2nd stg tree pruning	m		15JUL08A 1	12SEP08A 15JUL08A	A 12SEP08A	÷		0		
16R7Cl3218	Final stg tree pruning & tree uplifting	œ	8i 28F	28FEB09A 0	09MAR09A 28FEB09A	A 09MAR09A	-				
16R7CI3220	Tree transplanting at Ch100-Ch0	e6*	66* 12	12NOV09	30JAN10 12NOV09	9 30JAN10	-	17			
16R7CI3222	1st stg tree pruning	4	4 12	12NOV09 1	16NOV09 12NOV09	9 16NOV09	-	17			
16R7CI3224	2nd stg tree pruning	4	4 15	1	18DEC09 15DEC09	9 18DEC09	-	17			
16R7CI3226	Final stg tree pruning & tree uplifting	10	10 20	20JAN10	30JAN10 20JAN10	30JAN10	~	17			
Refai	H-Pile Retaining Wall for Wall A						l				
Piling Works											
13R4Cl3400	Mobilize & set up piling rig	9	6 11AU	G08A	16AUG08A 11AUG08A	3A 16AUG08A	-				
13R4Cl3401	Drill 28 nos. grout (partially) 11 nos. piles	-	1 18AU	G08A	28AUG08A 18AUG08A	3A 28AUG08A	-				
13R4CI3402	Piling stopped due to accessive grout loss	-	1 294		220CT08A 29AUG08A	3A 220CT08A	-		0		
		•	100		ABOVONSC ABOVONSC	ANOVORA DE	Ŧ				

5Campelea al H-pies, Well A, 34Tras.707018.AUGG6A21.AUGG6A22.AUGG6A21.AUGG6A		Description	Dur	-170	E E E E	LINSIN 1	LIBIC	LINISH -	2	Float							
Ref et/n	13R4Cl3405	Complete all H-piles, Wall A; 347nos,	20	0	18AUG08A	21JAN09A	8AUG08A	21JAN09A			1				38 3		
Interfactor Interfactor <thinterfactor< th=""> <thinterfactor< th=""></thinterfactor<></thinterfactor<>	Skin Wall																
of false, pine t to 347 of all pine t to 347 of all pine t to 347 of all pine t to 347 i of all pine t to 347 of al	13R4CI3406	Excavate for skin wall construction; 2130m3	60			02MAR09A 1-		02MAR09A	-						8.5		
	13R4CI3408	Hack off piles; piles 1 to 347	48		EB09A	02APR09A 0		02APR09A	-			1			50		
Interform 24 24 14APFR0Ab 0uUUU00 14APFR0Ab 0uUUU00 14 24 24 24APFR0Ab 14APFR0Ab 14 24 <	13R4CI3410	Construct skin wall;	60		EB09A	19MAY09A 2		19MAY09A	-			1					
	13R4CI3414	Construct for capping beams;	24		14APR09A	04JUN09 1-		04JUN09	-	401					225		
Activity Nas Activity Nas<	13R4CI3416	Construct U-channels	37		D6MAY09A	18JUN09 0		18JUN09	-	394		0			220		
Redinaling Redinal	Soil Nailing	Works															
self naling 1 <t< td=""><td>Soil Nailing O</td><td>utside Excavation Area</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Soil Nailing O	utside Excavation Area															
duiling & grouning plants d l 1 SEPORA l 1 SEPORA <thl 1="" sepora<="" th=""> l 1 SEPORA <th 1<="" td=""><td>13R1CI3502</td><td>Scaffolding platform for soil nailing</td><td>18</td><td></td><td>EP08A</td><td></td><td></td><td>28OCT08A</td><td>-</td><td>413</td><td></td><td></td><td></td><td></td><td></td><td></td></th></thl>	<td>13R1CI3502</td> <td>Scaffolding platform for soil nailing</td> <td>18</td> <td></td> <td>EP08A</td> <td></td> <td></td> <td>28OCT08A</td> <td>-</td> <td>413</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	13R1CI3502	Scaffolding platform for soil nailing	18		EP08A			28OCT08A	-	413						
	13R1C13504	Mobilize & set up drilling & grouting plants	4		EP08A			17SEP08A	-		-			1.50			
Ch. 270-210 Sig Sig <th< td=""><td>13R1C13506</td><td>Install & grout soil nails; 193 nos. + 8 Test N.</td><td>69</td><td><u> </u></td><td>EP08A</td><td></td><td>1</td><td>09DEC08A</td><td>-</td><td></td><td>0</td><td></td><td></td><td>257</td><td>20</td><td></td></th<>	13R1C13506	Install & grout soil nails; 193 nos. + 8 Test N.	69	<u> </u>	EP08A		1	09DEC08A	-		0			257	20		
Inelise Discription Intelise		Within Excavation; Ch. 270-210															
Ch. 210-130 Ch. 210-130 TI/7 T2FC08A TIMAY09A TIMAY09A <thtimay09a< th=""></thtimay09a<>	3R1Cl3508	Install & grout soil nails	58*	58*	29JUL09	06OCT09 2		06OCT09	-	-160							
Inalis Intralis Intralis Intralis Intralis Intravision Intravisi	Soil Nailing V	Vithin Excavation; Ch. 210-130															
Chi.1300	3R1Cl3510	Install & grout soil nails	117*			11MAY09A 1.	2DEC08A	11MAY09A	-			-			3		
Inelise 287* 287* 287* 300CT08 225EP10 1 1 17 17 etion mit or soin alling mit or soin alling 10 100 200CT08 225EB10 1 235 mit or soin alling 12 12 100 100 240CT08 256EB10 1 235 mit or soin alling 1 10 100 240CT08 255EB10 1 235 and leasin 0 0 240CT09 255EB10 240CT03 255EB10 1 235 and leasin 0 0 0 240CT09 255EB10 240CT03 255EB10 1 235 and leasin 0 0 0 0 0 0 240CT03 255EB10 1 235 and leasin 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <th< td=""><td></td><td>Within Excavation; Ch.130-0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		Within Excavation; Ch.130-0															
ation Increating Increating </td <td>3R1CI3512</td> <td>Install & grout soil nails</td> <td>267*</td> <td>267*</td> <td>300CT09</td> <td>22SEP10 3</td> <td></td> <td>22SEP10</td> <td>-</td> <td>17</td> <td></td> <td></td> <td>1</td> <td></td> <td>2</td> <td></td>	3R1CI3512	Install & grout soil nails	267*	267*	300CT09	22SEP10 3		22SEP10	-	17			1		2		
In dir sol nating 12 12 12 12 100 100 230CT09 25FEB10 1 235 In dis, Z61 no.s + 3 Test N, 100 100 240CT09 25FEB10 1 235 Prived V2443 1 100 100 240CT09 25FEB10 1 235 Prived V2443 0 0 0 0 05MAY09A 05MAY09A 1 235 Prived V2443 0 0 0 0 05MAY09A 05MAY09A 1 1 235 Prived V2443 0 0 0 05MAY09A 05MAY09A 05MAY09A 1	Rem. Soil Nai	Iling Outside Excavation															
Inalis, 261 no.s + 3 Test N. 100 100 240CT09 25FEB10 1 235 Indeed VORMA3 svising design 0 0 02 20CTB09A 25FEB10 1 235 Indeed VORMA3 0 0 0 02 05MAY09A 02FEB09A 1 235 evising design 0 0 0 0 02MAY09A 05MAY09A 1 1 al of lean mix concrete 12 12 05MAY09A 05MAY09A 05MAY09A 1 1 1 al of lean mix concrete 13 14MAY09A 05MAY09A 05MAY09A 1 1 1 1 al of lean mix concrete 18 14MAY09A 05MAY09A 05MAY09A 1 1 1 1 al of lean mix concrete 18 14MAY09A 05MAY09A 05MAY09A 1 <td< td=""><td>3R1CI3522</td><td>Scoffolding platform for soil nailing</td><td>12</td><td>12</td><td>100CT09</td><td>23OCT09 1</td><td>1.11</td><td>230CT09</td><td>-</td><td>235</td><td></td><td>**</td><td></td><td></td><td></td><td></td></td<>	3R1CI3522	Scoffolding platform for soil nailing	12	12	100CT09	23OCT09 1	1.11	230CT09	-	235		**					
Inded VC#043 OZFEB09A OZFEB09A 1 evising design 0 0 02FEB09A 05/MY09A 05/MY09A 1 evising design 0 0 0 05/MY09A 05/MY09A 2 evising design 0 0 0 0 0 05/MY09A 2 evising design 12 12 12 12 06/MY09A 06JU009 1/MAY09A 1 1 156 all of lean mix concrete 18 18 15/MAY09A 06JU009 1/MAY09A 1 1 156 ees: VO #043 2 2 2 2 2 2 0 0 1 1 156 fees: VO #043 2 2 2 06/MAY09A 06/MAY09A 06/MAY09A 1	3R1CI3532	Install & grout soil nails; 261 no.s + 3 Test N.	100	100	240CT09	25FEB10 2	1	25FEB10	+	235		1					
Works for works included VC#043 O O O O OZFEB09A I I Receive VO for revising design 0 0 0 0 0 0 05MAY09A 05MAY09A 1 15 Recieve amendment to VC#043 0 0 0 0 0 0 05MAY09A 05MAY09A 1 15 Recieve amendment to VC#043 12 12 12 05MAY09A 05MAY09A 05MAY09A 1 15 Recieve amendment to VC#043 5 12 12 12 12 12 14 1 15 Setting out at site 5 5 6 06 05 06MAY09A 05MAY09A 1 1 156 Setting out at site 2 2 2 2 04MAY09A 1<	iccess Roa	vd Construction															
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Recieve amendment to VO#043 0 0 0 05/MAY09A 05/MAY09A 2 2 Procurement of lean mix concrete 12 12 12 66/W09A 14/MAY09A 05/MAY09A 1 15/MAY09A 1 1 15/5 -	0043-010	Receive VO for revising design	0	0		02FEB09A		02FEB09A	-								
Procurement of lean mix concrete 12 12 12 12 12 12 13 14MYYOSA 14MYYOSA 14MYYOSA 14MYYOSA 1 15/5 I Testing & approval of lean mix concrete 18 18 18 18 18MAYOSA 05/1UNOS 1 15/5 1 15/5 Setting out at site 69 69 05 05/FE00A 28APR0SA 05/FE00A 1 1 15/5 1 1 15/5 1 <td< td=""><td>0043-020</td><td>Recieve amendment to VO#043</td><td>0</td><td>0</td><td></td><td>05MAY09A</td><td></td><td>05MAY09A</td><td>2</td><td></td><td></td><td>*</td><td></td><td></td><td></td><td></td></td<>	0043-020	Recieve amendment to VO#043	0	0		05MAY09A		05MAY09A	2			*					
Image: Leging & approval of lean mix concrete 18 18 18 18 18 18 15/MAY09A 06JUN09 1 1 156 Image: Comparising Com	/0043-030	Procurement of lean mix concrete	12			14MAY09A 0		14MAY09A	-						83		
Column Concrete Retained Trees; VO #043 Column	0043-040	Testing & approval of lean mix concrete	18		15MAY09A	06JUN09		06JUN09	-	-156							
Setting out at site Es 69 69 63FEB09A 28APR09A 03FB09A 1 N Excavate & muck out manually, 50m @ 4m/day 2 2 29APR09A 30APR09A 30APR09A 30APR09A 1 N Erect formwork, 70m @ 4m/day 5 5 5 04MAY09A 08MAY09A 08MAY09A 08MAY09A 1 N Set up for correcte & removal of formwork, 70m2 2 2 2 08MAY09A 08MAY09A 08MAY09A 1 N Pour concrete & removal of formwork 2 2 2 08MAY09A 08MAY09A 08MAY09A 1 N Nor Pour concrete & removal of formwork 2 2 2 08MAY09A 08MAY09A 1	flass Wall to	Protect Retained Trees; VO #043													1		
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Erect formwork; 70m2 @ 14m2/day 5 04MAY09A 08MAY09A 08MAY09A 08MAY09A 1 1 Set up for conreting Set up for conreting 2 2 08MAY09A 08MAY09A 08MAY09A 1	0043-130	Excavate & muck out manually; 50m @ 4m/day	2					30APR09A	-								
Set up for conneting 2 2 08MAY09A 09MAY09A 1 1 1 70: VC# 043 Pour concrete & removal of formwork 2 2 08MAY09A 09MAY09A 1	0043-140	Erect formwork, 70m2 @ 14m2/day	Q	5	04MAY09A		14MAY09A	08MAY09A	-		3						
Pour concrete & removal of formwork 2 2 09MAY09A 11MAY09A 11MAY09A 1 1 1 1 70: VC# 043 Bulk excavation for benching:1061 @ 45m3/day 12 12 29MAY09 11JUN09 1 1 160 1 160 Bulk excavation for benching:1061 @ 45m3/day 12 12 29MAY09 11JUN09 28JUL09 1 1 160 1 1 160 1 1 160 1 1 160 1 1 160 1 1 160 1 1 160 1 1 160 1 1 160 1 1 160 1 1 1 1 160 1 1 160 1 1 160 1 1 160 1 1 160 1 1 160 1 1 160 1 1 1 160 1	/0043-150	Set up for conreting	8	N	08MAY09A	0 AROYAMOO	BMAY09A	09MAY09A	-								
TO; VO# 043 TO; VO# 043 Bulk excavation for benching:1061 @ 45m3/day 12 12 29MAY09 11JUN09 1 -160 Bulk excavation for benching:1061 @ 45m3/day 12 12 29MAY09 11JUN09 28JUL09 1 -160 Fill & compaction; 39 layers @ 1 day/layer 39 39 12JUN09 28JUL09 1 -160 1 -160 Ch. 270; VO #043 A A 29JUL09 01AUG09 28JUL09 1 -160 1 -160 Ch. 270; VO #043 A 4 4 29JUL09 01AUG09 29JUL09 1 -160 1 -160 Bulk excavation for access road Ch. 370 to 270 5 5 03AUG09 07AUG09 03AUG09 07AUG09 1 -160 Bulk excavation for benching; Ch. 310 to 270 5 5 03AUG09 25AUG09 07AUG09 1 -160 Bulk excavation for benching; Ch. 360-270 5 5 03AUG09 25AUG09 07AUG09 1 -160 Bulk excavation for benching; Ch. 460-270 1 1 2 2	/0043-160	Pour concrete & removal of formwork	7	N		11MAY09A 0	BMAY09A	11MAY09A	-								
Bulk excavation for benching;1061 @ 45m3/day 12 12 29MAY09 11JUN09 11 -160 -16	ch.460 to 370	1; VO# 043								-	- 13			22			
Fill & compaction; 30 layers @ 1 day/layer 39 39 12JUN09 28JUL09 1 -160 1 1 -160 1 1 -160 1 1 1 -160 1 <t< td=""><td>/0043-060</td><td>Bulk excavation for benching; 1061 @ 45m3/day</td><td>12</td><td>- 1</td><td>29MAY09</td><td>11JUN09 2</td><td>i</td><td>11JUN09</td><td>-</td><td>-160</td><td></td><td></td><td></td><td>i</td><td></td><td></td></t<>	/0043-060	Bulk excavation for benching; 1061 @ 45m3/day	12	- 1	29MAY09	11JUN09 2	i	11JUN09	-	-160				i			
Ch. 270: VO #043 Ch. 270: VO #043 Excavation for access road Ch. 370 to 310 4 4 29JUL09 01AUG09 1 -160 Bulk excavation for access road Ch. 310 to 270 5 5 03AUG09 07AUG09 07AUG09 1 -160 Fill & compaction lean mix concerter, 15 layers 15 15 08AUG09 07AUG09 07AUG09 1 -160 Above Access Road; Ch. 460-270 15 15 08AUG09 25AUG09 1 -160 I Temporary concrete paving & curing 16 16 26AUG09 12SEP09 1 -130	/0043-070	Fill & compaction; 39 layers @ 1 day/layer	39	39	12JUN09	28JUL09 1		28JUL09	-	-160			1				
Excavation for access road Ch. 370 to 310 4 4 29JUL09 01AUG09 29JUL09 1 -160 Bulk excavation for benching: Ch. 310 to 270 5 5 03AUG09 07AUG09 07AUG09 1 -160 Fill & compaction lean mix concerte; 15 layers 15 15 03AUG09 07AUG09 07AUG09 1 -160 Above Access Road; Ch. 460-270 15 15 08AUG09 25AUG09 08AUG09 1 -160 Above Access Road; Ch. 460-270 15 15 08AUG09 12SEP09 1 -160 Temporary concrete paving & cuing 16 16 16 26AUG09 12SEP09 1 -139	ch. 370 to Ch										5.0						
Bulk excavation for benching; Ch. 310 to 270 5 5 0.3AUG09 0.7AUG09 0.7AUG09 1 -160 1 1 -160 1 -160 1 1 -160 1 1 -160 1 1 -160 1 1 1 1 1 1 1 1 1 <th1< th=""> 1 1<!--</td--><td>/0043-090</td><td>Excavation for access road Ch. 370 to 310</td><td>4</td><td>4</td><td>29JUL09</td><td>01AUG09 2</td><td></td><td>01AUG09</td><td>-</td><td>-160</td><td>18</td><td></td><td></td><td></td><td>125</td><td></td></th1<>	/0043-090	Excavation for access road Ch. 370 to 310	4	4	29JUL09	01AUG09 2		01AUG09	-	-160	18				125		
Fill & compaction laan mix concerte; 15 layers 15 15 08AUG09 25AUG09 1 -160 1 -160 1 -160 1 -160 1 -160 1 -160 1 -160 1 -160 1 -160 1 -160 1 -160 1 -160 1 -160 1 -160 1 -1 </td <td>/0043-100</td> <td>Bulk excavation for benching; Ch. 310 to 270</td> <td>2</td> <td>S</td> <td>03AUG09</td> <td>07AUG09 0</td> <td></td> <td>07AUG09</td> <td>٣</td> <td>-160</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	/0043-100	Bulk excavation for benching; Ch. 310 to 270	2	S	03AUG09	07AUG09 0		07AUG09	٣	-160							
& Above Access Road; Ch. 460-270 16 16 26AUG09 12SEP09 12SEP09 1 -139 2	/0043-110	Fill & compaction lean mix concerete; 15 layers	15	15	08AUG09	25AUG09 0		25AUG09	-	-160	A.C.	-					
Temporary concrete paving & curing 16 16 26AUG09 12SEP09 26AUG09 12SEP09 1 -139	Norks On &	Above Access Road; Ch. 460-270															
	09R1CI3610	Temporary concrete paving & curing	16	16	26AUG09	12SEP09 2		12SEP09	-	-139	12	-			1		

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	Description	(Dur)	Dur.	Start	Finish	Start	Finish)	Fleat		Harris al Lines in the
	Excavation of slope batter above access road	47	47 1	14SEP09	10NOV09 14SEP09		10NOV09	-	321	=10,513m	=10,513m3 @ 225m3/day
Ch. 270 to Ch. 210											
	Excavation & soil nailing	54	54 2	29JUL09	29SEP09 29JUL09		29SEP09	-	-160	1	
	Backfill (grade 200) & compaction	m	3 0	07OCT09	090CT09 070CT09		090CT09		-160		
	Temporary concrete paving & curing	10	10 1	100CT09	210CT09 100CT09		21OCT09	-	-160	-	
Ch. 210 to Ch. 130	0										
	Excavation as per conforming design	48	48 12	DEC08A	12DEC08A 11MAY09A 12DEC08A		11MAY09A	-		1	
	Temporary concrete paving & curing	12	12 1	13NOV09	26NOV09 13NOV09		26NOV09		55	11.8	
	VO#084 revising the design received	0			12	12MAY09A		-		*	
	Works resumed as per VO #084	0		16MAY09A	16	16MAY09A		-		*	
1	Evcavate stone nrofile as ner VO#084	34		16MAY09A	25JUN09 16	16MAY09A	25JUN09		-79		
	Dominia evoluted material official official official	0		220CT09	12NOV09 22OCT09		12NOV09	-	55	•	
		2 -	1.	30SED00			DEOCTOR	1	-160	-	
	Soli nailing at Cn. 196 to 210	1	1.				2010000	T	100		
	Excavate to access road formation	9	18 2	26APK11	1/MAY11 26APK11			-	ngl-		
Ch. 130 to Ch. 0;	0; up to +74.5mPD										
	Excavation & soil nailing	62		300CT09	13JAN10 300CT09		13JAN10	Ŧ	17	1	
1	Temporary concrete paving & curing	15	15.1	14JAN10	30JAN10 14JAN10		30JAN10	*	17	•	
Ch 130 to Ch 0.	0. halow +74 5mPD										
	Excavate & soil nailing (+74.5 to 88.5mPD)	41	41 0	06AUG10	22SEP10 06AUG10	1	22SEP10	-	17		11
	Excavate rock (88.5 to 63mPD: 3239m3 @ 80m3/dav	40	40 2	24SEP10	11NOV10 24SEP10		11NOV10	-	17		0
1	Backfill (grade 200) & compaction	2		1-	19NOV10 12NOV10		19NOV10	-	17		
200	Doud Daving: Ch. 460 to Ch. 970										
PO	Construct drainance as per VO#0901 190m @ 5m/dav	32	32 2	29JUN11	05AUG11 28	29JUN11	05AUG11	-	-160		
	Boad formation: 100m @ 10m/dav	20	1	06AUG11	29AUG11 06	06AUG11	29AUG11		-157		-
	Lav sub-bee and kerb: 190m @ 10m/dav	16	1	30AUG11		30AUG11	17SEP11		-157		
	Concrete navinor 190m @ 10m/dav	9		19SEP11		19SEP11	080CT11	-	-157		
T	Green slope arrangement as per VO# 095	24		09JUL11		08JUL11	05AUG11	1.1	-157		
	Ruthman B Band Bridger Ch. 970 to Ch. 130										
	Canating Cli. 210 W Cli. 130	35	35 1	1 RMAV11	28 II IN11 18MAY11	MAY11	28.01N11		-160		
1		5		20 IL INI 44	13 11 11 20		13 11 11	1	-137		
	backfill trench & road formation, 140m @ 12m/day	2 5	1.	111100027			57 II II 44		101		11 50mm thick
	Lay sub-base and kero; 140m @12m/day	4	4 4	111004		11114	***		100		
	Concrete paving; 140m @ 12m/day	12		2870111	1100AU	2010111	LISONAUT		071-		-
Road	Road paving: Ch. 130 to Ch. 0										
	Construct drainage; 130m @ 4m/day	33	33 0	06AUG11	14SEP11 06AUG11	SAUG11	14SEP11		-160		
	Backfill trench & road formation; 130m @ 12m/day	1	11 1	15SEP11	27SEP11 15SEP11	SSEP11	27SEP11	-	-160		
ł	Lav sub-base & kerb; 130m @12m/day	F	11	28SEP11	120CT11 28	28SEP11	120CT11	-	-160		-
	Concrete paving: 130m @ 12m/dav	11	11 1	130CT11	250CT11 13	130CT11	250CT11		-160		*
	a Mall for Mall B										
Diling Works	Dilina Works										
	Ecrm alling alofform for Mall R	10	12 0	01FFR10	17FFR10 01FFB10	FFB10	17FFB10	÷	17	48	
	rarri pilirig piauorri 101 wali b Mohiliza & satum nilina ria	2 10		18FEB10	24FEB10 18FEB10	SFEB10	24FEB10	-	17		
	ואוסחוודב מ אבר מה הווווה זיה										and allola
	350mm dia. pre-bored H-piles, Wall B; 98 nos.	23	53	25FEB10	03MAY10 25	25FEB10	03MAY10	-	17	1 Zman	The state of the s

	Description	Dur D	Dur	Start	Finish	Start	Finish	9	Float	A LO DE LA				
13R4CI3705	Demobilize piling rig	9	6 0	04MAY10	10MAY10 04MAY10	4MAY10	10MAY10	F	17					
Skin Wall														
13R4CI3706	Excavate for skin wall; 48m3	18	18 1	11MAY10	01JUN10 11MAY10		01/UN10		17		•			
13R4CI3708	Hack off piles; piles 1 to 98	24	24 2	26MAY10	23JUN10 26	26MAY10	23JUN10	r	17					_
13R4CI3710	Construct skin wall; 6 bays	24	24 0	09JUN10	08JUL10 05	01/N/10	08JUL10	π.	17					2
13R4CI3712	Excavate for capping beams;	12	12	02JUL10	15JUL10 02	02JUL10	15JUL10	-	17					
13R4CI3714	Construct for capping beams;	18	18 (09JUL10	29JUL10 05	09JUL10	29JUL10	-	17		8			
13R4CI3716	Construct U-channels	18	18	16JUL10	05AUG10 16	16JUL10	05AUG10	-	17					
annel Modi	Channel Modification Works (Dry Season)													
ver Diversion	River Diversion for Underground Works													-
09R1CI3802	Form a temporay plant access to stream	60	60 12	12DEC08A	04FEB09A 12DEC08A		04FEB09A	-		8		-	1	÷
09R1CI3804	Break boulders	32	32 0	32 05FEB09A	24FEB09A 05FEB09A	SFEB09A	24FEB09A	-		•				
09R1CI3806	Concrete bedding for bund wall (gabion)	E	11 23	25FEB09A (09MAR09A 25FEB09A	SFEB09A	09MAR09A	•=		-				
09R1CI3808	Construct bund wall (gabion)	8	22 10	10MAR09A	30APR09A 10MAR09A	DMAR09A	30APR09A	-		8			-	
09R1CI3810	Divert channel to south west	0	0		30APR09A		30APR09A	-		•				-
Channel Modification Works	ation Works													-
09R1CI3812	Breaking of large boulders	30	30	02NOV09*	05DEC09 02NOV09*	2NOV09*	05DEC09	-	21		n			
09R1CI3B14	Excavation of the stream bed & make good	24	24 0	07DEC09	06JAN10 07	07DEC09	06JAN10	-	21		13		8	
09R1CI3816	Laying of rock armour	24	24 0	07JAN10	03FEB10 07	07JAN10	03FEB10	-	21					
09R1Cl3818	Construct bund wall for approch channel const.	24	24 0	04FEB10	06MAR10 04FEB10	4FEB10	06MAR10	÷	21		-			-
09R1CI3820	Divert channel to south west	0	0		06MAR10		06MAR10	-	21		•			
Excavation fo	for AVS/VS/DC/MAS/MAA													20
en Excavatio	Open Excavation for Underground Structures												5.5	200
06L1Cl3906	Mobilize drilling rig, backhoes	÷	د	300CT09	300CT09 30	300CT09	300CT09	-	-160		-		1	- 11
06L1CI3908	Excavate/mucking out/temporary support	200	200 3	310CT09	07JUL10 3	310CT09	07JUL10	-	-160			6000m3, 30m3/day = 200	n3/day = 200	
Excavation &	Construction of Main Adit													
														100
3CL1Cl3102	Excavation/mucking out/temporary support	40	40	08JUL10	23AUG10 08JUL10	8JUL10	23AUG10	-	-134			=10m, @0.3m/day	m/day	
3CL1Cl3104	Construction of permanent lining	24	24 2	24AUG10	20SEP10 24	24AUG10	20SEP10	-	-134					
instruction	Construction of Man Access Adit (MAA)													
06L1Cl3112	Cast invert: 1 bay	2	7	15SEP10	22SEP10 15SEP10	5SEP10	22SEP10	÷	-160			-		
06L1Cl3114	Cast walls	12	12	24SEP10	08OCT10 24SEP10	4SEP10	08OCT10	-	-160					200
06L1Cl3116	Cast crown	12		09OCT10	230CT10 090CT10	90CT10	230CT10	-	-160					
Instruction	Construction of Man Access Shaft (MAS)									11 -				
														107
06L1Cl3122	Cast base	ო	8	08JUL10	- 1	08JUL10	10JUL10	-	-160		-			22
06L1Cl3124	Set up formworks	Q	9	12JUL10	17JUL10 12	12JUL10	17JUL10	-	-160					
06L1Cl3126	Construct wall/stair, 14 landings @ 6 days/land.	84	84	19JUL10	270CT10 19	19JUL10	270CT10	-	-160	0	4 days/ landing	1	22m & 14 landings	1
06L1CI3128	Construct wall above ground level	Q	9	31MAR11	07APR11 3	31MAR11	07APR11	-	e,			-		
		A COMMUNICATION OF A COMUNICATION OF A	1		1000	「大なる」の「おいろう」	のないので、「「「「「」」」					-		

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Constructic									Loop 1				
	Construction of Deaerarion Chamber (DC)		ij									1.55	- 2102 2007
06L1CI3132	Construct base	б	6	250CT10	03NOV10 250CT10		03NOV10	1	-160		-		
06L1CI3134	Construct walls 2 lifts	12	12 0	04NOV10	17NOV10 04NOV10		17NOV10	۲ ۲	-160		-		
06L1Cl3136	Const. crown/underpin of air vent & drop shafts	18	18	18NOV10	08DEC10 18NOV10		08DEC10	-	-160				333
Constructio	Construction of Vortex Shaft (VS)												
06L1CI3142	Set up formworks	9	G	17DEC10	23DEC10 17DEC10		23DEC10	+ ۲	-160		-		
06L1CI3144	Construction of drop shaft; 4m high	G	9	24DEC10	03JAN11 24	24DEC10 (03JAN11	۳.	-160		104m	@4m/4days	
06L1CI3146	Construction of vortex structure	24	24 (04JAN11	31JAN11 04.	04JAN11 3	31JAN11	۲ ج	-160				
06L1CI3148	Construct remaining of the vortex	18	18	31MAR11	21APR11 31	31MAR11 2	21APR11	1-	-160		-		33
Constructic	Construction of Air Vent Shaft Shaft (AVS)				The Mart								
06L1CI3152	Set up formworks	g	9	01FEB11	10FEB11 01	01FEB11	10FEB11	+ +	-160				
06L1CI3514	Cast 15m high circular wall	15	15	11FEB11	28FEB11 11FEB11		28FEB11	۲ ۲	-160		-		
06L1Cl3516	Construct upstand wall	12	12 0	01MAR11	14MAR11 01MAR11		14MAR11	1 -1	-160		-		382 100
Backfill Aro	Backfill Around Structure												
061 1Cl3162	Granular fill up to +54mPD: 623m3	2	2	09DEC10	16DEC10 09DEC10		16DEC10	-	-160		1		
06L1Cl3164	Granular fill above +54mPD: 1400m3	14	1.1	15MAR11	30MAR11 15MAR11		30MAR11	1	-160			4	
Constantiatio	a of Annuarh Channel												100
Constructio	construction of Approach channel												
0001013172	Evenuation for Annuach Channel	G.	0	01NOV10*	12.IAN11 01	01NOV10*	12.IAN11	Ŧ	α		1		
		8 8) 0		1	1 10 10	
09R1CI3174	Construction of Approach Channel; upstream	82		2006010		1	THAMIT	1	x				
09R1CI3176	Construction of boulder trap; 7 nos.	24		01NOV11*	_		28NOV11		-165			• 1	
09R1Cl3177	Construction of Approach Channel; downstream	40		01NOV11	_		16DEC11	۲ ۲	-165			10	
09R1CI3178	Construction of trash grill	12	_	17DEC11	- 1		04JAN12	۲ ۲	-165				
09R1CI3179	Removal of concrete bolck bund	9	9	05JAN12	11JAN12 05	05JAN12	11JAN12	۲ ۳	-165				3
Junction B	Junction Between Main Tunnel & Adit Tunnel												100
												10	25
3CL1Cl3106	Temp. support & excavation breakthrough	48	48	19JUL11	12SEP11 19JUL11		12SEP11		-94			2	
3CL1CI3108	Construct collar between MT & AT	48	48	14SEP11	10NOV11 14SEP11		10NOV11	۳	-94			-	25
Remaining	Remaining Works Prior to Handover to Client												
													853
09R1CI3142	Finishing & reinstatement works; Portion C	36	36	10DEC11	28JAN12 10	10DEC11	28JAN12	۲ ۴	-155				
09R1CI3143	Pre-handover inspections and remedial works	30	30	28DEC11	04FEB12 28	28DEC11 (04FEB12	۲ ۲	-155				
09R1CI3144	Contractor serve notice for Works completion	7	~	05FEB12	11FEB12 05	05FEB12	11FEB12	2	667			-	
09R1Cl3146	SO issues completion certificate	21	21	12FEB12	03MAR12 12	12FEB12 (03MAR12	2	667				
16R7CI3142	Landscaping works at Portion C	120	120	31AUG11	28JAN12 31	31AUG11	28JAN12	۲ ۲	-117	4		1	
16R7CI3144	Establishment Works at Portion C	365	365	29JAN12	27JAN13 29.	29JAN12	27JAN13	2	-148				Ì
3DL1CI3141	Install flow measurement devices at Intake I-3	12	12	12JAN12	28JAN12 12	12JAN12	28.JAN12	1	-165			-	2

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				euipment for tunnelling at Intake I-3	Addit Tunnel at Intake I-3	Adit Tunnel at Intake I-3	◆Adit Tunnel at Intake I-3	♦ Adit Tunnel at Intake I-3	Adit Tunnel at Intake I-3		Addit I unnel at intake I-3	◆Adit Tunnel at Intake I-3	Addit Tunnel at Intake I-3	Ounder this Cost Centre		Delow G.L. except for Adit Tunnel at Intake I-3	Delowe G.L. escept for Adit Tunnel at Intak	◆at Intake I-3	chamber at Intake I-3	◆at intake I-3	Ashaft at Intake I-3	◆adit at Intake I-3	Under this Cost Centre		or the second s	◆at Intake I-3	◆at Intake I-3	◆at Intake I-3	◆at G.L. at Intake I-3	Channel at Intake I-3	Channel and associated decking a	◆at Intake I-3	Wunder this Cost Centre		◆at intake I-3	◆at Intake I-3	◆at Intake I-3	♦atintake I-3	♦at Intake I-3	♦at Intake I-3
	-148		-	1,265	1,256	1,246	1.237	1.228	4 248	017.1	1,209	1,197	781	781		1,403	1,272	984	1,118	1,022	984	1,164	984		797	1,663	1,612	5.7	1,083	1,042	1,005	726	695		1,553	1,404	1,195	6.1		
	Z ELNAR13			14JUL10 2	23JUL10 2	02AUG10 2	11AUG10 2			+		20SEP10 2	-	10NOV11 2			07JUL10 2	21APR11 2	08DEC10 2	14MAR11 2	21APR11 2	230CT10 2	21APR11 2		250CT11 2	11JUN09 2	01AUG09 2		12JAN11 2	22FEB11 2	31MAR11 2	04JAN12 2	04FEB12 2		29SEP09 2	25FEB10 2	22SEP10 2	05DEC08A 2	13DEC08A 2	18DEC08A 2
Finish Start	27JAN13 129JAN12			14JUL10	23JUL10	02AUG10	11AUG10	20AUG10	20011040	SUAUGIU	08SEP10	20SEP10	10NOV11	10NOV11		26FEB10	07JUL10	21APR11	08DEC10	14MAR11	21APR11	230CT10	21APR11		250CT11	11JUN09	01AUG09	13JAN10	12JAN11	22FEB11	31MAR11	04JAN12	04FEB12		29SEP09	25FEB10	22SEP10	05DEC08A	13DEC08A	18DEC08A
Start	29JAN12								1	1																														
	365 2			0	0	0	0	c		0	0	0	0	0		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Dat	365			0	0	0	0	C		0	0	0	0	0		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Description	Maintain & monitor flow monitoring	of Milestones for Cost Centre No. 3cL		3cL 1; On establishing tunnelling equipments		3cl 3: On completion of 25% perm. tunnel lining	3cl 4: On completion of 37.5 nerm tumpel lining	act 5. On completion of 50% perm turned lining		3cL 6; On completion of 62.5% perm. tunnel linin	3cL 7; On completion of 75% perm. tunnel lining	3cL 8; On completion of 87.5% perm. tunnel linin	3cL 9; On completion of perm. tunnel lining	3cL 10; On completion of all works under this CC	Schedule of Milestones for Cost Centre No. 6L	6L 1; On completion of 50% of excavation	6L 2; On completion of excavation works	6L 3; On completion of vortex shaft	6L 4; On completion of de-aeration chamber	6L 5; On completion of vent shaft	6L 6, On completion of man access shaft	6L 7; On completion of man access adit	6L 8; On completion of all works under this CC	Schedule of Milestone for Cost Centre No. 9R	9R 1; On completion of access road	9R 2; On completion of 25% of excavation at G.L	9R 3, On completion of 50% of excavation at G.L	9R 4; On completion of 75% of excavation at G.L	9R 5; On completion of excavation at G.L.	9R 6; On completion of 50% of approach channel	9R 7; On completion of approach channel	9R 8, On completion of trash grill	9R 9, On completion of all works under this CC	Schedule of Milestones for Cost Centre No. 13R	13R 1; On completion of 30% soil nailing	13R 2: On completion of 60% soil nailing	13R 3: On completion of all soil naing works	13R 4: On completion of 10% piles by number	13R 5; On completion of 20% piles by number	13R 6; On completion of 30% piles by number
	3DL1Cl3143	Schedule of I		3CL1CI3A02	3CL1CI3A04	3CI 1CI3A06	3CI 1CI3A08	20110120100	301 1010 10	3CL1CI3A12	3CL1CI3A14	3CL1CI3A16	3CL1CI3A18	3CL1CI3A20	Schedule of I	06L1CI3M02	06L1CI3M04	06L1CI3M08	06L1CI3M10	06L1CI3M12	06L1CI3M14	06L1CI3M16	06L1CI3M18	Schedule of	09R1CI3R02	09R1CI3R04	09R1CI3R06	09R1CI3R08	09R1CI3R10	09R1CI3R12	09R1CI3R14	09R1CI3R16	09R1CI3R18	Schedule of	13R4CI3S01	13R4CI3S02	13R4Cl3S03	13R4Cl3S04	13R4Cl3S05	13R4CI3S06

						♦at Intake I-3	♦at Intake I-3	traps at Intake I-3	Wunder this Cost Centre																						owing transplanting of T160/T293/T140						erect hoarding/catchfence,			
	oat Intake I-3	◆at Intake I-3	◆at Intake I-3	◆at Intake I-3	◆at Intake I-3	•							•		0			n	n		1	1	1	11							0	•	•		•	0	factor Re-align footpath, e			24
Float						1,384	1,337	763	763																-181	-181	-165			1	1		1				10			
D	2	2	0	2	2	N	~	N	3				-	+	-		1	1	+		N 2	-	- 1	F	£.	-	-		-	÷	-	-	-	+	2	Ŧ		1	1 1	-
Finish	23DEC08A	02JAN09A	D9JAN09A	16JAN09A	21JAN09A	17MAR10	03MAY10	28NOV11	28NOV11				16APR08A	ZOMAYOBA	02JUL08A		02JUL08A	18AUG08A	195EP08A 19AUG08A 195EP08A		07MAR08A 01AUG08A 07MAR08A 01AUG08A	07NOV08A	11MAR09A	A 14MAY09A	10JUN09	18JUL09	120CT09		17SEP08A			21JAN09A			29MAY08A	A 02JUL08A	15JUL08A	05SEP08A	10NOV08A	A 28MAR08A
Start														17APR08A	21APR08A			03JUL08A	19AUG08A		07MAR08A	14JUL08A	08NOV08A	14MAY09A 12MAR09A	10JUN09 15MAY09A	11JUN09	19SEP09			22JAN09A	09FEB09A			19APR08A 19APR08A		02JUL08A 26MAY08A	15JUL08A 21APR08A	05SEP08A 21APR08A	280CT08A	13MAR08A
Finish	23DEC08A	D2JAN09A	AGONALED	16JAN09A	21JAN09A	17MAR10	03MAY10	28NOV11	28NOV11				16APR08A	20MAY08A 17APR08A	02JUL08A 21APR08A		02JUL08A	18AUG08A 03JUL08A	19SEP08A		01AUG08A	07NOV08A 14JUL08A	11MAR09A DBNOV08A		-	18JUL09 11JUN09	120CT09 19SEP09		17SEP08A	07FEB09A 22JAN09A	02MAR09A 09FEB09A	21JAN09A			29MAY08A	-	-		280CT08A 10N0V08A 280CT08A	13MAR08A 28MAR08A 13MAR08A
Stant														17APR08A	21APR08A			03JUL08A	19AUG08A		07MAR08A	14JUL08A	08NOV08A	12MAR09A	15MAY09A	11JUN09	19SEP09			22JAN09A	09FEB09A			19APR08A		26MAY08A	21APR08A	21APR08A	280CT08A	13MAR08A
Dur	0	0	0	0	0	0	0	0	0				ō	21	18		0	-	38		200	67	24	60	14	32	18		0	1.1	4	0	0	1	0	10	30	30	42	2
our	0	0	0	0	0	0	0	0	0				0	21	18		0	-	38		200	67	24	60	14	32	18		0	24	4	0	0	+	0	10	30	30	12	2
Activity Description	13R 7; On completion of 40% piles by number	13R 8; On completion of 50% piles by number	13R 9; On completion of 60% piles by number	13R 10: On completion of 70% piles by number	13R 11; On completion of 80% piles by number	13R 12; On completion of 90% piles by number	13R 13: On completion of all piling works	13R 14; On completion of boulder traps	13R 15; On completion of all work under this CC	Construction of Outfall 0-1	Warks	VO # 06: Transperant Hoarding at Outfall	Receive VO6 for transperant hoarding	Procurement for transperent hoarding	Erect hoarding	Chain Link Fence at 0-1	Issue VO16 for chain link fence	Preparation works for chain link fence	Erect chain link fence; 460m	Temporary CLP Power Supply for TBM Operation	Application/approval for temp. CLP Power Supply	Appoint sub-contractor for design & build TX Rm	Design for transformer room	Constuct transformer room	CLP inspection & defect rectification	CLP cabling to TX room & commissioning	CLPE cabling from TX room to 24mPD platform	sed Fencig Details at O-1 Next to GVT		Preparation works	Erect proposed transparent hoarding	Receive VO#55 in lieu of VO#25	Obtain TTA (ingress & egress) approval	Implment TTA for diverting footpath	Obtain excavation permit	Erect catch fencing	Site establishment	Site clearance	Install remote contorl CCTV as per ER 4.4.10	Tree inspection & report
₽.	13R4CI3S07	13R4Cl3S08	13R4CI3S09	13R4Cl3S10	13R4Cl3S11	13R4CI3S12	13R4Cl3S13	13R4CI3S14	13R4Cl3S15	Constructio	Preliminary Works	VO# 06: Trans	01R1D00106	01R1D00108	01R1D00110	VO #16; Chain	V01602	V01612	V01622	Temporary CL	01R1DCLP02	01R1DCLP14	01R1DCLP24	01R1DCLP34	01R1DCLP44	01R1DCLP54	01R1DCLP74	VO#25; Revised	V025-02	V025-12	V025-22	V055-02	01R1D00102	01R1D00103	01R1D00104	01R1D00112	01R1D00114	01R1D00116	01R1D00118	16R1D00110

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ADOA WP3D ADOA ADO4 WP3D WP3D Cal Total 2008 2009 2010 Dur Dur Start Finish Start Finish ID Float			24 24 19JUL08A 10AUG08A 19JUL08A 10AUG08A 2	158* 158* 19.11.1ND8A 24DEC08A 19.11.ND8A 24DEC08A 1	11 26AUGORA D6SEPORA 26AUGO8A	12 19.1UNDBA 18.JULIDBA 19.JULNDBA 18.JULIDBA	53 11AUG08A 25OCT08A 11AUG08A	÷	2 2 280CT08A 290CT08A 280CT08A 290CT08A 1 1	1 1 300CT08A 300CT08A 300CT08A 300CT08A 1	10 10 21FEB09A 21FEB09A 21FEB09A 21FEB09A 1	30 30 310CT08A 24DEC08A 310CT08A 24DEC08A 1	105 105 02JUN08A 06MAR09A 02JUN08A 06MAR09A 1	11 11 310CT08A 12NOV08A 310CT08A 12NOV08A 1 1			229° 229° 13NOV08A 22AUG09 13NOV08A 22AUG09 1 -184	9 9 13NOV08A 06DEC08A 13NOV08A 06DEC08A 1 9	12 12 02DEC08A 16DEC08A 02DEC08A 16DEC08A 1	14 14 17DEC08A 05JAN09A 17DEC08A 06JAN09A 1	8 8 30DEC08A 06JAN09A 30DEC08A 06JAN09A 2	7 7 07JAN09A 16JAN09A 07JAN09A 16JAN09A 1	2 2 15JAN09A 20JAN09A 15JAN09A 20JAN09A 1	11FEB09A 20JAN09A 11FEB09A 1	10 10 02FEB09A 17FEB09A 02FEB09A 17FEB09A 1	24FEB09A 1	12 02FEB09A 17FEB09A 02FEB09A 17FEB09A 1	13 18FEB09A 04MAR09A 18FEB09A 04MAR09A	20 19FEB09A 13MAR09A 19FEB09A 13MAR09A 1	16MAR09A 1	12 05MAR09A 07APR09A 05MAR09A 07APR09A	20 12MAR09A 07APR09A 12MAR09A 07APR09A 1	20 14MAR09A 18APR09A 14MAR09A 18APR09A 1	6 29MAY09 04JUN09 29MAY09 04JUN09	22 22 14MAR09A 18APR09A 14MAR09A 18APR09A 1	10 10 20APR09A 24APR09A 20APR09A 24APR09A 1	20 20 23APR09A 13MAY09A 23APR09A 13MAY09A 1 + i no. test naile	14 14MAY09A 02JUN09 14MAY09A 02JUN09 1	14 14/03 02JUN09 14/03 02JUN09 14/03 02JUN09 1 -161 6 03JUN09 03JUN09 03JUN09 03JUN09 1 -161
10 Activity Activity	Form Temporary Access/Tree Felling	Works Suspension Due to Obstruct. from Villagers	WSO02 Works suspension due to obstruct. fm villagers	Low town access road from ±11mDD to ±69mPD	Const tomo staal dacking over evict Outfall W						-		1		pora	Slope Cut & Soil Nailing: +71mPD to +40mPD			10R1D0032 Erect scaffold & Drill/Install/grout/P1at row C				10R1D0036 Cut slope for E1 to G20; soil 620m3	10R1D0037 Drill/install/grout E1 to G20: 51 nos.	10R1D0038 Construct nail heads/remove platform; rows B-G	10R1D0039 Erosion mat, wire mesh & hydroseed; rows B-G	10R1DO040 Cut slope for H1 to 125; soil 1819m3	10R1D0041 Drill/install/grout H1 to I25; 47 nos.	10R1DO042 Cut stope for J1 to M37; soil 5834m3	10R1D0043 Erect working platform for rows J to M	10R1D0044 Test nails for P3, P4, P5 & P10	10R1D0045 Drill/install/grout J1 to M37; 134 nos.	10R1D0047 Construct nail heads/remove platform; rows H-M	10R1D0048 Erosion mat, wire mesh & hydroseed; rows H-M	10R1D0049 Excavate soil 5600m3 & boulde 229m3; Rows N to P	10R1D0050 Erect working platform for rows N to P	10R1D0051 Drill/install/grout N1 to P31; 111 nos.		

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	Description	dur B	Bur S	-			Finish	Float				
Ш	Excavation; 40 to 30mPD; soil 8291m3/rock 2778m3	43	43 20APR09A	-	13AUG09 20AP		13AUG09	1 -219		I		_
ι τ	Reinstate temp. access	30	30 21APR09A		27MAY09A 21APR09A		27MAY09A	-		13		
-u	Erect working platfrom for rows Q to U	22	22 11MAY09A		17AUG09 11MP	11MAY09A 17P	17AUG09	1 -219	_	1		
-	Test nails for P6, P7, P8 & P11	12	12 21M	21MAY09A 2	24AUG09 21MA		24AUG09	1 -219	_	1		
	Drill/install/grout Q1 to U10; 99 nos.	13	13 12MAY09A		04SEP09 12MP	12MAY09A 045	04SEP09	1 -219		I		
μ.	Excavation; 30 to 24mPD; soil 4197m3/rock 7592m3	3 2	95 27MAY09A		08OCT09 27MAY09A		08OCT09	1 -219		ios	soil 450m3/day & rock 185m3/day	ock 185m3/day
-	Drill/Install/grout V1 to X14; 37 nos.	10	10 05S	05SEP09 1	16SEP09 05SEP09		16SEP09	1 -219		-		
0	Construct nail heads/remove platform; row V to X	17	17 02S	02SEP09 2	21SEP09 02SEP09		21SEP09	1 -219	-	-		
w	Erosion mat, wire mesh & hydroseed; rows V to X	10	10 22S	22SEP09 0	05OCT09 22SEP09		05OCT09	1 -219				
D Bui	TBM Launching Chamber											
i.	Pipe pile roof support	5	9 18S	18SEP09 2	28SEP09 18SEP09		28SEP09	1 -212		1		
1	Excavate/construct TBM launching chamber	63	63 09C	09OCT09 2	22DEC09 09OCT09		22DEC09	1 -219				
Ľ	Form launching chamber cradle	12	12 09D	09DEC09 2	22DEC09 09DEC09	1	22DEC09	1 -219		-		
	Ground treatment prior to TBM commence boring	4	4 23D	23DEC09 2	29DEC09 23DEC09		29DEC09	1 -217		-		
MEL	Stope Cut & TBM Access Road; +24 to +14mPD											
+	+24 to +14mPD	63*	63* 08J	UN09 2	20AUG09 08JUN09		20AUG09	1 -181	2	1		
	Relocate sedimentation tank	0	0	õ	-60NUL30	06J	*60NUL30	1 -172		•		
L.	Form access for big breaker	12	12 08J	08JUN09 2	201UN09 08JUN05		20JUN09	1 -172		-		
4	Mobilization of big breaker	0	0	N	20JUN09	207	20JUN09	1 -172		•		
	Form new TBM access +14mPD to +24mPD	14	14 22J	D 60NUL	08JUL09 22JUN09		08JUL09	1 -172		-		
-	Divert access to new TBM access	0	0	U	08JUL09	L80	08JUL09	1 -172		٠		
-	Demolish masonry & ret. wall at +14mPD	28	28 20J	20JUL09 2	20AUG09 20JUL09		20AUG09	1 -181				
TBM Assembly An	Area at +24mPD											
	Construct temporary draiange	9	6 16D	16DEC09 2	22DEC09 16DEC09		22DEC09	1 -219		-		
0	Concrete slab	12	12 160	16DEC09 3	31DEC09 16DEC09		31DEC09	1 -219				+
5	Commence TBM initial assembly	0	C20 0	02JAN10	02JAN10	N10		1 -219	-	•		
-	Foundation	80	8 21A	21AUG09 2	29AUG09 21AUG09		29AUG09	1 -181		-		
	Erection	e	3 085	08SEP09 1	10SEP09 08SEP09		10SEP09	1 -157		-		
	Test & commissioning	-	1 11S	11SEP09 1	11SEP09 11SEP09		11SEP09	1 -157		-		
	Removal of tower crane & reinstatement	12	12 11A	11APR12 2	24APR12 11APR12		24APR12	1 -207				
TBM Platform												
-	Pre-fabrication	40	40 18.	18JUN09-	04AUG09 18JUN09*		04AUG09	1 -159			_	
-	Foundation	12	12 31A	31AUG09 1	12SEP09 31AUG09		12SEP09	1 -181		-		
	Erect steel framework	36	36 14S	14SEP09 2	280CT09 14SEP09		280CT09	1 -181				
-	Install platform	12	12 29C	290CT09 1	11NOV09 290CT09		11NOV09	1 -181				
Ē	ICE certification	e	3 12N	12NOV09 1	14NOV09 12NOV09		14NOV09	1 -181		-		
Noise Enclosure												
	Pre-fabrication	42	42 22J	22JUN09* 1	10AUG09 22JUN09*	1.1	10AUG09	1 -120		11		
<u><u><u></u></u></u>	Foundation	12	12 235	23SEP09 0	080CT09 23SEP09		08OCT09	1 -169		•		
	Erect steel framework	9	18 09C	090CT09 3	300CT09 090CT09		300CT09	1 -169				
+	Cladding	22	22 27J	27JAN10 2	24FEB10 27JAN10		24FEB10	1 -195			18	
1	ICE certification	m	3 25F	25FEB10 2	27FEB10 25FEB10		27FEB10	1 -195			-	

3AL1FT0802	Apply to EPD for CNP for 24 hrs. tunnel work	12	_	11FEB10	27FEB10 11FEB10		27FEB10	1 -195						
3AL1FT0804	EPD process/approve CNP application	36		28FEB10	04APR10 28FEB10		04APR10	2 -237						-
105 Ton Gantry	y Crane													1-
3AL1D03505	Manufacture	65	66	29MAY09	22SEP09 29MAY09		22SEP09	1 -159		1				
3AL1D03515	Shipping to Hong Kong	9	9	23SEP09	29SEP09 23SEP09		29SEP09	1 -159		-				
3AL1D03525	Assembly	œ	80	30SEP09	100CT09 30SEP09	-	100CT09	1 -159						
3AL1D03535	Install rails	4	4	230CT09	280CT09 230CT09		280CT09	1 -169		+				
3AL1D03545	Test & commission	m	3	290CT09	310CT09 290CT09		310CT09	1 -169		+-				
3AL1D03555	Receive initial segments and stock	g	9	01NAU20	08JAN10 02JAN10		08JAN10	1 -209		-				
Muck Hopper														
3AL1DO4005	i Pre-fabrication	75	75 2	22JUN09*	17SEP09 22JUN09*		17SEP09	1 -83		1				
3AL1D04015	Foundation	18	18	14SEP09	06OCT09 14SEP09		06OCT09	1 -97						_
3AL1DO4025	Erect steelwork	18	18	12NOV09	02DEC09 12NOV09		02DEC09	1 -127						3
3AL1DO4035	Erect hopper	18	18	03DEC09	23DEC09 03DEC09		23DEC09	1 -127						-
3AL1D04045	Install transfer conveyor	4	4	24DEC09	30DEC09 24DEC09		30DEC09	1 -127		-				_
3AL1DO4055	M&E works	9	60	31DEC09	07JAN10 31DEC09		07JAN10	1 -127		+				
3AL1D04065	Test & commissioning	67	e	01/NAU80	11JAN10 08JAN10	1	11JAN10	1 -127						
Marti Conveyor														
3AL1D04505	Engineering	50	50 3	29MAY09	27JUL09 29MAY09		27JUL09	1 -105		1				
3AL1D04515	Pre-fabrication	60	60	28JUL09	070CT09 28JUL09		070CT09	1 -105						
3AL1D04525	Delivery to Hong Kong	25	25	23SEP09	230CT09 23SEP09		230CT09	1 -105		-				
3AL1D04535	Pre-assembly at Portion I	9	9	240CT09	310CT09 240CT09		310CT09	1 -105		-			-	21
3AL1D04545	Foundation	т го	e e	02JAN10	05JAN10 02JAN10		05JAN10	1 -155						
3AL1D04555	Install belt conveyor stage 1	24	24	06JAN10	02FEB10 06JAN10		02FEB10	1 -155						
3AL1D04565	Install transfer conveyor	1	-	03FEB10	03FEB10 03FEB10		03FEB10	1 -155		-		-		10
3AL1D04575	Install belt conveyor stage 2	9	9	27APR10	04MAY10 27APR10		04MAY10	1 -218			_			-
3AL1D04585	M&E works	N	2	05MAY10	DEMAY10 DEMAY10		06MAY10	1 -218			-			
3AL1D04595	Test & commission		1 0	07MAY10	07MAY10 07MAY10		07MAY10	1 -218			1			-
LV Station														
3AL1D05005	Delivery & install containers 1/2/3	4	4	12SEP09	16SEP09 12SEP09		16SEP09	1 -157		-				
3AL1D05015	M&E works	12	12	17SEP09	30SEP09 17SEP09		30SEP09	1 -157		-				
3AL1DO5025	Test & commision	12	12	130CT09	270CT09 130CT09		27OCT09	1 -165		•	_			
Cooling Water System	System										1			
3AL1D05505	Pre-fabrication	53	53	607NF60	082EP09 09JUL09		08SEP09	1 -129			-0			
3AL1D05515	Foundation	10	10 (09SEP09	19SEP09 09SEP09		19SEP09	1 -129		-				
3AL1D05525	Erect cooling system	12	12	21SEP09	06OCT09 21SEP09		060CT09	1 -129		-				2
3AL1D05535	M&E works	4	4	07OCT09	100CT09 070CT09		100CT09	1 -129	_	-	-			-
3AL1D05545	Test & commission	2	2	120CT09	130CT09 120CT09		13OCT09	1 -129		-				
Grout System														
3AL1D06005	Pre-fabrication	06	90 2	22JUN09-	070CT09 22JUN09*		070000	1 -134		1				-
3AL1D06015	Erect system	9	9	16NOV09	21NOV09 16NOV09	1	21NOV09	1 -166		-	-			
3AL1D06025	M&E works	8	m	23NOV09	25NOV09 23NOV09		25NOV09	1 -166						-
Lococo Files	Test & commission		2	26NOV09	26NOV09 26NOV09		26NOV09	1 -166	_	-				

	The second se	And Phile			Printed. Pasta		A PERSON A						
Pea Gravel Plant	ant t		View I inte			Vierna							
3AL1D07505	Pre-fabrication	36	36 22JUN09	-	03AUG09 22JUN09	03AUG09	1 -82						
3AL1D07515	Install hopper	4	4 06OCT09		090CT09 060CT09	090CT09	1 -134		-				
3AL1D07525	Erect conveyor	2	2 10OCT09		120CT09 100CT09	12OCT09	1 -134		-				
3AL1D07535	M&E works	4	4 130CT09	-	160CT09 130CT09	16OCT09	1 -134		-				
3AL1D07545	Test & commission	2	2 17OCT09		190CT09 170CT09	19OCT09	1 -134		-				
3AL1D07555	Install conveyor connecting to TBM	4	4 27APR10		30APR10 27APR10	30APR10	1 -213						
Ventilation System	stem												
3AL1D08005	Pre-fabrication	72	72 29MAY09		21AUG09 29MAY09	21AUG09	1 -14		1				
3AL1D08015	Erect system	3	2 27AF	APR10 2	28APR10 27APR10	28APR10	1 -213						
3AL1DO8025	M&E works	+	1 29APR10		29APR10 29APR10	29APR10	1 -213	~~~~					
3AL1D08035	Test & commission	ł	1 30APR10		30APR10 30APR10	30APR10	1 -213			I			
Micsellaneous													
3AL1D08502	Install transformer & hormonic filter	3	2 27AF	APR10 2	28APR10 27APR10	28APR10	1 -218			•			
3AL1D08512	Remove invert segments; 19 nos.	N	2 27APR10	-	28APR10 27APR10	28APR10	1 -218						
3AL1D08522	Make good slab	e	3 28APR10	-	30APR10 28APR10	30APR10	1 -218			1			
3AL1D08532	Install rail switch	-	1 03MAY10	-	03MAY10 03MAY10	03MAY10	1 -214						
VO # 49 & 53;	VO # 49 & 53; Additional Drainage & Stairway									1		0	
VO-04910	Received Variation orders	0	0	26	26FEB09A	26FEB09A	-		•		2	-	
VO-04920	Preparation works for varied works	14	14 27FE	FEB09A 14	14MAR09A 27FEB09A	14MAR09A	-						
VO-04930	Construct u-channel & stairway; +71mPD to +55mPD	60	60 16MAR09A		29MAY09 16MAR09A	A 29MAY09	1 -179				-		
VO-04940	Construct u-channel & stairway;+55mPD to +47mPD	27	27 05JUN09	-	07JUL09 05JUN09	07JUL09	1 -184					1	
VO-04950	Construct u-channel & stairway; +47mPD to +41mPD	40	40 08JUL09		22AUG09 08JUL09	22AUG09	1 -184						
VO-04960	Construct u-channel & stairway; +41 to +24 mPD	60	60 06OCT09	-	15DEC09 06OCT09	15DEC09	1 -219						
VO #88; Revis	VO #88; Revised Slope Profile with Add. Supports												
VO-088000	Received VO #088	0	0	27	27MAY09A	27MAY09A			•		-		
VO-088005	Excavate from 38.5mPD to 36.5mPD	9	6 29M/	29MAY09 0	04JUN09 29MAY09	04JUN09	1 -218					-	
VO-088010	Procure and prepare materials	თ	9 29MAY09		08JUN09 29MAY09	60NUL80	1 -219		-				
VO-088015	SOR confirm soil nails location	2	2 05JUN09		001000 001000	06JUN09	1 -218						
VO-088020	Drill/install/grout soil nails; rows AA-AB	2	60NNC60 2		16JUN09 09JUN09	16JUN09	1 -219		-	-			
VO-088025	Install wire mesh & shorcrete 150mm	е С	3 17JUN09	-	19JUN09 17JUN09	19JUN09	ī -219		-				
VO-088030	Excavate from +36.5 mPD to 34.5mPD	9	6. 20JUN09		26JUN09 20JUN09	26JUN09	1 -219		-				
VO-088035	SOR confirm soil nails location	2	27JUN09		29JUN09 27JUN09	29JUN09	1 -219		-			-	
VO-088040	Drill/install/grout soil nails; rows AC-AD	2	50NULOS 7		08JUL09 30JUN09	:08JUL09	1 -219		-				
VO-088045	Install wire mesh & shorcrete 150mm	с С	3 09JUL09	-	11JUL09 09JUL09	11JUL09	1 -219		-				
VO-088050	Excavate from +34.5 mPD to 32.5mPD	9	6 13JUL09		18JUL09 13JUL09	18JUL09	1 -219						
VO-088055	SOR confirm soil nails location	2	2 20JUL09		21JUL09 20JUL09	121JUL09	1 -219						
VO-088060	Drill/install/grout soil nails; rows AE-AF	2	7 22JUL09		29JUL09 22JUL09	29JUL09	1 -219	-					
VO-088065	Install wire mesh & shorcrete 150mm	en	3 30JUL09		01AUG09 30JUL09	01AUG09	1 -219						
VO-088070	Excavate from +34.5 mPD to 32.5mPD	9	6 03AUG09		08AUG09 03AUG09	08AUG09	1 -219		-				
VO-088075	SOR confirm soil nails location	2	2 10AUG09		11AUG09 10AUG09	11AUG09	1 -219		-				
VO-088080	Drill/install/grout soil nails; row AG	S	5 12AUG09	-	17AUG09 12AUG09	17AUG09	1 -219	-	-				
200000 0/1	International and a second sec	•	00011001	1	00011000 18 01000		1070						

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	Description	Inc		VIER	FILISH STAT	and the second					
tion fro	Instruction from SOR										
SORI-10	Suspension of rock drilling & breaking	F	5	-20JUN09-	20JUN09 20JUN09	20JUN09	1 -219	19			
SORI-20	Erection of noise bearriers	3	3	22JUN09	24JUN09 22JUN09	24JUN09	1 -2	-219			
uct S	Construct Spiral Ramp & Associ. Vehicular Access										
Spiral Ramp											-
10R1D00402	Install 273mm dia. temp. pipe piles; 40 nos.	12	12	08MAY10	22MAY10 08MAY10	22MAY10		93 M starts opera	ating day & nights	-93 M starts operating day & night#40 nos." 13m long	
10R1D00404	Soil excavation & install walling & tie backs	24	24	24MAY10	21JUN10 24MAY10	21JUN10	4 4	-93	432m3 soil	432m3 soil including temp. supports mesures	pports mesure
10R1D00406	Rock excavation for spiral ramp; 4629m3	70	70	22JUN10	11SEP10 22JUN10	11SEP10	-	-93	4000m3 roc	4000m3 rock mincluding temp. supports mesures	supports mesu
10R1D00414	Construct base of spiral ramp, Outfall O-1	12	42	13SEP10	27SEP10 13SEP10	27SEP10	+	-93			
10R1D00416	Cast sprial ramp up to +6.73mPD	15	15	28SEP10	15OCT10 28SEP10	15OCT10	-	-93			
10R1D00418	Cast sprial ramp up to +11.58mPD	15	15	180CT10	03NOV10 18OCT10	03NOV10		-93			4
10R1D00420	Cast sprial ramp up to +16.00mPD	15	15	04NOV10	20NOV10 04NOV10	20NOV10	-	-93			
10R1D00422	Cast sprial ramp up to +20.00mPD	15	15	22NOV10	08DEC10 22NOV10	08DEC10	- -	-93			
10R1D00424	Cast sprial ramp up to +24.23mPD	15	15	09DEC10	28DEC10 09DEC10	28DEC10	Ŧ	-93			
10R1D00425	Backfill spiral ramp; 1700m3	4	4	29DEC10	03JAN11 29DEC10	03JAN11	+	-93	@ 5m3/5n	5m3/5minutes!480m3/day	
10R1D00426	Construct spiral ramp top; Outfall O-1	20	20	04JAN11	26JAN11 04JAN11	26JAN11	-	-93			
10R1D00428	Construct vehicular access bet, tunnel & s. ramp	10	10	12JUL11	22JUL11 12JUL11	22JUL11	+	2		-	
10R1D00430	Commission of Spiral Ramp	9	ø	27JAN11	02FEB11 27JAN11	02FEB11		-93			
Vehicular Access	ess										
10R1D00407	Install 40 nos. roof piles # 375mm c/c	24	24	110CT10	08NOV10 02NOV10	29NOV10	1 -1	-128		*	
10R1D00408	Excavation for vehicular access undemeath CPR	20	10/	01VON90	01FEB11 30NOV10	25FEB11	-	-128 sheet pile roofing	fing & lagging ~180m2		soil 450m3 + rock 50m3
10R1D00410	Construct base for vehicular access	12	12	02FEB11	18FEB11 26FEB11	11MAR11	1 -1	-128		4	
10R1D00412	Construct wall & roof for vehicular access	24	24	19FEB11	18MAR11 12MAR11	09APR11	1 -1	-128		1	
Part	-ower Part Box Culvert/Open Channel By Mining										
10R1D00502	Site possession of Portion E-650d of DOC	0	0	080CT09	080CT09		8	453	•		-
10R1D00504	Divert exist, outfall "W" under CPR arch bridge	36	36	60NON60	19DEC09 30NOV09	13JAN10	<u>ل</u>	-395	4		
10R1D00506	Remove rock armour & form platform @+2.3mPD	36	36	21DEC09	03FEB10 14JAN10	27FEB10	1 -3	-395	940	940m3	
10R1D00508	Install temp. pile for pipe roofing	8	96	04FEB10	05JUN10 01MAR10	28JUN10	1 -3	-395	1	et cells; 210 nos.	
10R1D00510	Excavate for box-culvert, 2 cells	44	44	01NUL70	29JUL10 29JUN10	19AUG10	1 3	-395		soil 2900m3	
10R1D00512	Construct base slabs of box culvert; 2 cells	20	20	3010110	21AUG10 20AUG10	11SEP10	1 -3	-395		Concete 160m3	~
10R1D00514	Construt wall & roof of box culvert, 2 cells	40	40	23AUG10	09OCT10 13SEP10	01NOV10	1 -3	-395		Seoncrete 390m3	3
10R1D00516	Excavate for box-culvert, 2 cells	44	44	110CT10	01DEC10 02NOV10	22DEC10	۰ ئ	-395		soil 2900m3	
10R1D00518	Construct base slabs of box culvert; 2 cells	20	20	02DEC10	24DEC10 23DEC10	18JAN11	4	-395		Concete 160m3	0m3
10R1DO0520	Construt wall & roof of box culvert; 2 cells	40	40	28DEC10	16FEB11 19JAN11	09MAR11	1	-395		Concrete 390m3	890m3
10R1D00522	Excavate for open channel	24	24	17FEB11	16MAR11 10MAR11	07APR11	۳ ۳	-395			
10R1D00526	Construct open channel at 2.3 mPD	24	24	17MAR11	14APR11 08APR11	09MAY11	1-3	-395		*	
10R1D00528	Reinstate existing outfall "W"	9	9	08APR11	14APR11 03MAY11	11YAM80	1 -3	-395			
d tot	Construct Bordal Head & Associated Struttures										
10R1D00602	Excavate tapered open channel/ upper cascade	24	24	12JUL11	08AUG11 12JUL11	08AUG11	-2	-219		•	-
	,	and and			Concernance of the second s			a state of the sta			

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WPSD Total ARE 200 2010 2011 2012 Finish Float	-	-	05SEP11 1 -131			01A11G11 1 -210 Following removal of TBM & TBM facilities	212 1	210		1 -219	1 -219	1 -219	09FEB12 1 -219	10APR12 1 -219	10APR12 1 -207			30JUN09* 1 -395	09SEP09 1 -395	140CT09 1 -395 Iv	210CT09 1 -395 II	290CT09 1 -395 1	05AUG09 1 -59	12AUG09 1 -59 1	16SEP03 1 -59	230CT09 1 -59	07NOV09 1 -59	14NOV09 1 -59	17DEC09 1 -59	04JAN10 1 -59	18JAN10 1 -59	25FEB10 1 -59	09SEP09 1 -377	16OCT09 1 -395	310CT09 1 -7	28NOV09 1 -7	05DEC09 1 -395 II	13JAN10 1 -395	05DEC09 1 -37	20FEB10 1 -37	1 -395 Afollowing construction of box culve		
AD04 WP3D Finish Start	12 28L	11JUL11 13JUN11	05SEP11 09AUG11			01AUG11 12.00111	1.0		_	1			09FEB12 26JAN12	10APR12 10FEB12	10APR12 10FEB12			-60NULOE	09SEP09 02JUL09	16SEP09 08OCT09	23SEP09 15OCT09	30SEP09 22OCT09	05AUG09 02JUL09	12AUG09 06AUG09	16SEP09 13AUG09	230CT09 17SEP09	07NOV09 240CT09	14NOV09 09NOV09	17DEC09 16NOV09	04JAN10 18DEC09	18JAN10 05JAN10	25FEB10 19JAN10	09SEP09 02JUL09	07NOV09 10SEP09	21NOV09 17OCT09	19DEC09 02NOV09	14NOV09 30NOV09	19DEC09 07DEC09	14NOV09 30NOV09	27JAN10 07DEC09	11MAY11		and a state
start r Start	12 17NOV12	1	24 09AUG11			18 12.0011					1.1	1	13 26JAN12	48 10FEB12	48 10FEB12			0	60 02JUL09	6 10SEP09	6 17SEP09	6 24SEP09	30 02JUL09	6 06AUG09	30 13AUG09	30 17SEP09	12 24OCT09	60VON90 8	28 16NOV09	12 18DEC09	12 05JAN10	30 19JAN10	60 02JUL09	30 02OCT09	12 09NOV09	24 23NOV09	60/00/60 9	30 16NOV09	6 09NOV09	60 16NOV09	0 15APR11		
Dok WP3D	12		24			18		+		-		-	13	48	48			0	60	ω	9	9	30	ω	30	30	12	9	28	12	12		60 6	30	12	24	Q	30	ω	1031	0		-
Activity Description	Dismantle & removal of tower crane	Dismantle/remove TBM backup system	Construct portal head wall	Cascade & Upper Part Box Culvert by Mining	Contract Francisco and a state of the line	Drive sheet niles	Excavate & temp. support to services	Construct base slab	Construct side walls	Construct roof	Construct upstand	Backfill	Excavate for lower cascade construction	Construct lower cascade	Construct, baffle, railing etc.	ction Works	Preliminary Works for Outfall Basin Construction	Receive VO # 061	Appoint Independent Hydrographic Surveyor	Carry out sounding survey	Prepare/submit drwgs./report of sounding survey	SOR approves drwgs./report of sounding survey	SOR issue Supplm. Environmental Review Report	Apply for Variation Environmental Permit (VEP)	EPD review/issue VEP	Prepare/submit Revised EM&A Manual by ET	IEC endorse Revised EM&A Manual	EPD acknowledge Revised EM&A Manual	Carry out baseline monitoring	Prepare/submit baseline report by ET	IEC endorse baseline report	EPD approve baseline report	Appoint sub-contractor for varied works	Prepare/submit method statement	IEC endorse method statement	SOR approve method statement	Apply for marine notice	Revew/issue marine notice by Marine Department	Apply for dumping permit	Reviewlissue dumping permit by EPD	Commence works for basin construction	VO #061; Outfall Basin Construction	
Ω.	10R1D00606	3AL1D00602	3AL1D00606	Cascade & Ur	I Innor Caroada	10R1DO0704	10R1D00706	10R1D00708	10R1D00710	10R1D00712	10R1D00714	10R1D00716	10R1D00730	10R1D00732	10R1D00734	Seabed Protection Works	Preliminary Wor	VO061-002	VO061-004	VO061-006	VO061-008	VO061-010	VO061-012	VO061-014	V0061-016	VO061-018	VO061-020	VO061-022	VO061-024	VO061-026	VO061-028	VO061-030	VO061-032	VO061-034	V0061-036	VO061-038	VO061-040	V0061-042	V0061-044	V0061-046	V0061-048	VO #061; Outfall	

	Description	ADA		CIER C	runsi neur	THE REAL PROPERTY OF THE REAL	1	The second se				
VO61-055	Dredge in rock armour to -3.75mPD	51	36	27JUN11	25AUG11 23JUN11	1 04AUG11	-	-395				
V061-060	Place grade 400 rockfill & levelling layer	18	12	26AUG11	16SEP11 05AUG11	1 18AUG11	5	-395				
V061-065	Form seawall type 2(W)	15	15	17SEP11	060CT11 12AUG11		-	-395				
V061-070	Construct detail Y	4	4	07OCT11	110CT11 30AUG11	1 02SEP11	-	-395			-	
V061-075	Construct mass concrete	9	9	120CT11	180CT11 03SEP11	1 09SEP11	-	-395			Ŧ	
VO61-080	Form seawall type 1	23	23	190CT11	14NOV11 10SEP11	1 100CT11	-	-395			T	
VO61-085	Construct mass concrete	12	12	15NOV11	28NOV11 110CT11	1 240CT11	-	-395			•	
VO61-090	Form seawall type 2 (E)	15	15	29NOV11	15DEC11 250CT11	1 10NOV11	-	-395				_
V061-095	Construct detail X	4	4	16DEC11	20DEC11 11NOV11	11 15NOV11	-	-395			-	
VO61-100	Construct mass concrete	9	9	21DEC11	30DEC11 16NOV11	11 22NOV11	-	-395			2	
V061-105	Construct coping	14	14	02JAN12	17JAN12 23NOV11		-	-250			*	
V061-110	Place infill blocks M1 & M4	18	18	18JAN12		1 03JAN12	-	-250				~
V061-115	Dredge in sea bed to -3.75mPD for seawall (W)	10	12	190CT11	290CT11 10SEP11	1 24SEP11	-	-345	for seawall t	awall type 5, 2B, 4, & 1A (W)	-	
V061-120	Place grade 400 rockfill & levelling layer	12	12	310CT11	12NOV11 26SEP11	1 110CT11	F	-251				
V061-125	Form seawall type 5, 2B, 4 & 1A (W)	51	5	14NOV11	16JAN12 120CT11	1 09DEC11	-	-251			1	
V061-130	Backfill sea walls west & north (half)	36	36	17JAN12	01MAR12 10DEC11	11 28JAN12	-	-251			Ŧ	_
V061-135	Place type 2 armour	10	9	02MAR12	13MAR12 30JAN12	2 09FEB12	-	-251				
V061-140	Dredge in sea bed to -3.75mPD for seawall (E)	0	24	02JAN12	11JAN12 23NOV11	11 20DEC11	÷	-395	for s	for seawall type 6, 3 & 2	3 & 2A (E)	_
V061-145	Place grade 400 rockfill & levelling layer	12	12	12JAN12	28JAN12 21DEC11	11 07JAN12	-	-395				-
V061-150	Form seawall type 6, 3 & 2A (E)	38	40	30JAN12	13MAR12 09JAN12	2 27FEB12	+	-395				
V061-155	Backfill sea walls east & north (half)	36	36	14MAR12	30APR12 28FEB12	2 13APR12	Ŧ	-287			*	
V061-160	Place type 2 armour	10	10	02MAY12	12MAY12 14APR12	25APR12	-	-287			*	
V061-165	Dredge in sea bed for stepped blocks	15	20	14MAR12	30MAR12 28FEB12	2 02MAY12	+	-395			•	-
V061-170	Place levelling layer	175	224	31MAR12	02NOV12 13MAR12	12 11DEC12	-	-395			ļ	t
V061-175	Place stepped blocks	175	224	19APR12	16NOV12 27MAR12	12 27DEC12	7	-395				ł
VO61-180	Place type 2 armour to reinstate exist. seawall	24	24	14MAY12	09JUN12 26APR12	25MAY12	-	-287				-
V061-185	Form ground beam (W)	12	12	11FEB12	24FEB12 04JAN12	2117JAN12	٣	-250			•	
V061-190	Form ground beam (E)	12	12	25FEB12	09MAR12 18JAN12	2 03FEB12	-	-244				-
V061-195	Form invert slab (W)	12	12	25FEB12	09MAR12 18JAN12	2 03FEB12	-	-250			•	-
VO61-200	Form invert slab (E)	12	12	10MAR12	23MAR12 04FEB12	2 17FEB12	٣	-244				
V061-205	Form end wall (W)	18	18	10MAR12	30MAR12 04FEB12	2 24FEB12	-	-250	917		•	
V061-210	Form end wall (E)	18	18	31MAR12	25APR12 25FEB12	2 16MAR12	-	-250				-
V061-215	Reinstate rock armour	24	24	11JUN12	10JUL12 26MAY12		٣	-287			Ŧ	-
V061-220	Complete basin	0	0		16NOV12	27DEC12		-395				•
V guin	Remaining Works Prior to Handover							1				
		30	ac	100CT12	CLUONBC CLUONDE	11.IAN13	-	-395				4
101411001304	Finishing & reinstatement works, Formon D	8				T	+	205				1
10R1D00906	Pre-handover inspections and remedial works	30		03NUV12			+	000-				-
10R1D00908	Contractor serve notice for Works completion	7	2	08DEC12	14DEC12 19JAN13		-	0				-
10R1D00910	SO issues completion certificate	21	21	15DEC12	04JAN13 26JAN13		- 5	0			-	
16R7D00902	Landscaping works at Portion D	120	120	11JUL12	30NOV12 18AUG12	12 11JAN13	-	-369				I
16R7D00904	Establishment Works at Portion D	365	365	01DEC12	30NOV13 12JAN13	3 11JAN14	2	-455				4
3DI 1D00902	Install flow measurement devices at Outfall O-1	12	12	30MAR12	17APR12 30MAR12	12 17APR12	-	-219				

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209 2010 2011 2012 2013		As ner FR R38.08 4 weeks brior to work commence		afm @1mirlav		erzm, @smioay	¹ 56m, @5m/day	C@1nr/week		T2m, @3m/day	fincluding CCTV inspection				Oprior to commence pipe jacking at Portion G	pipe jacking method at Portion G	pipe jacking method at Portion G	pipe jacking method at Portion G	pipe jacking method at Portion G	 Under this Cost Centre
Float		284	180		201	111	111	111		111	111	266	997		1,344	1,334	1,326	1,315	1,241	1,025
WP3D Cal Finish ID		C DUVUNCU	-	-	-		11DEC10 1	25JAN11 1		25FEB11 1	11MAR11 1	18MAR11 2	08APR11 2		26APR10 2	06MAY10 2	14MAY10 2	25MAY10 2	07AUG10 2	11MAR11 2
N Distant H			DA IAMAD		1		-	25JAN11 13DEC10 25JA		25FEB11 26JAN11 25FE	11MAR11 26FEB11 11M	18MAR11 12MAR11 18M	08APR11 19MAR11 08AI							
ADDA		DOV/ONCO			+			-		25FEB11	11MAR11	-			26APR10	06MAY10	14MAY10	25MAY10	07AUG10	11MAR11
Start			ON IANHO			1.14		5 13DEC10		1 26JAN11	26FEB11	7 12MAR11	19MAR11		0		0	0	0	0
ADO4 WP3D		6	-	-	-		12 12	35 35		24 24	12 12	7 7	21 21		0	0	0	0	0	0
Description	Drainage Improvement Works	Other states and a C O designed and and MO			Construct 1.5m dia. drainage by pipe jacking	Construct 1.5m dia. drainage by open trenching	Construct .75m & 1.5m U and Stepped Channel	Construct 3 nos. manhole & 2 nos. catchpit	Remaining Works Prior to Handover to Client	Reinstate carriageway & footway	Pre-handover inspections and remedial works	Contractor serve notice for Works completion	SO issues completion certificate	Schedule of Milestones for Cost Centre No. 15R	15R 1; On completion of all temp. works	15R 2; On completion of 25% of pipejacking	15R 3; On completion of 50% of pipejacking	15R 4; On completion of 75% of pipejacking	15R 5; On completion of all pipejacking	15R 6; On completion of all wks under this CC
Q	Drainage Impr		1000000000	1946660302	154660304	15R6GG0306	15R6GG0308	15R6GG0310	Remaining Wo	15R6GG0312	15R6GG0402	15R6GG0404	15R6GG0408	Schedule of N	15R6GG0502	15R6GG0504	15R6GG0506	15R6GG0508	15R6GG0510	15R6GG0512



Implementation Status of Environmental Mitigation Measures

IMPLEMENTATION SCHEDULE December 2010

EIA Ref.	Recommended Mitigation Measures	Who to implement the measure ?	Location of the measure	What requirements or standards for the measure to achieve ?	Status
Air Q	uality		-		
3.6.1	Specific As mentioned in Section 3.5, exceedances of 1-hour and 24-hour average TSP guideline levels have been predicted at most of the ASRs. Hence, mitigation measures are considered necessary in order to suppress the potential dust impact. The dust suppression measures set out in the <i>Air Pollution Control (Construction Dust)</i>	DSD's Contractor	Construction Work Sites	Air Pollution Control (Construction Dust) Regulation	V
	<i>Regulation</i> , in fact, are more extensive. Therefore, it is expected that with watering the construction site every four times daily together with strict implementation of dust suppression measures as stipulated in the <i>Air Pollution Control (Construction Dust) Regulation</i> , the dust level is expected to be reduced by over 75%.				\checkmark
	To further ensure compliance with the guideline and AQO limit at the ASRs at all time, it is recommended to implement the <i>Air Pollution Control (Construction Dust) Regulation</i> and include good site practice in the contract clauses to minimize cumulative dust impact.In addition, a comprehensive dust monitoring and audit programme is recommended to ensure proper implementation of the identified mitigation measures. Details of the monitoring and audit requirements are provided in a separate EM&A Manual.				
	from the ground floor level of the building or if a canopy is provided at the first floor level, from the first floor level, up to the highest level of the scaffolding where a scaffolding is erected around the perimeter of a building under construction;				N/A
	• dump truck for material transport should be totally enclosed by impervious sheeting;]			\checkmark
	• any excavated dusty materials or stockpile of dusty materials should be covered entirely by impervious sheeting or sprayed with water so as to maintain the entire surface wet, and recovered or backfilled or reinstated within 24 hours of the excavation or unloading;				√ ./
	 stockpile of dusty materials should not extend beyond the pedestrian barriers, fencing or traffic cones; 				v
	• dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;				\checkmark

EIA Ref.	Recommended Mitigation Measures	Who to implement the measure ?	Location of the measure	What requirements or standards for the measure to achieve ?	Status
3.6.1	• 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;	DSD's Contractor	Construction Work Sites	Air Pollution Control (Construction Dust) Regulation	\checkmark
	• where a site boundary adjoins a road, street 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 except for a site entrance or exit;				\checkmark
	• every main haul road should be scaled with concrete and kept clear of dusty materials or sprayed with water so as to maintain the entire road surface wet;				\checkmark
	 the portion of road leading only to a construction site that is within 30m of a designated vehicle entrance or exit should be kept clear of dusty materials; 				\checkmark
	 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 so as to maintain the entire surface wet; 				\checkmark
	• all dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty material wet;				\checkmark
	• vehicle speed should be limited to 10 kph except on completed access roads;]			\checkmark
	• every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites;				\checkmark
	• the load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle; and				\checkmark
	• the working area of excavation should be sprayed with water immediately before, during and immediately after the operations so as to maintain the entire surface wet.				\checkmark
Noise 4.6.1	During Construction	DSD's	Construction	PN 2/93 Noise from	
	Appropriate mitigation measures such as the use of quiet equipment and movable barriers will be developed to ensure that noise can be reduced to acceptable levels without causing programme delays	Contractor	Work Sites	Construction Activities & EIAO	\checkmark
	<i>Good Site Practice</i> Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during construction:				
	 only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction works; 				\checkmark
	 machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; 				\checkmark

EIA Ref.	Recommended Mitigation Measures	Who to implement the measure ?	Location of the measure	What requirements or standards for the measure to achieve ?	Status
4.6.1	• plant known to emit noise strongly in one direction should, where possible, be orientated to direct noise away from the NSRs;	DSD's Contractor	Construction Work	PN 2/93 Noise from Construction Activities &	\checkmark
	• mobile plant should be sited as far away from NSRs as possible; and		Sites	EIAO	\checkmark
	• material stockpiles and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.				\checkmark
	For Drill and Blast WorksCharge mass per delay should be decreased by minimising the number of blastholes firing on each delay.				N/A
	• Smaller blasthole patterns and longer delays should be used between dependent charges.	_			N/A
	• Times of blasting should be established to suit the situation and firing blasts when neighbours are busy with their daily tasks (and at a regular time such as lunch time).	-			N/A
	 For TBM Tunnelling For the tunnel excavation, it is anticipated that beyond the initial length (say within 30m), excavation will be carried out well within the tunnel and door should be provided to further minimize the noise nuisance to the nearby receivers. 				N/A
4.6.2	During Operation	DSD's Contractor	Project Area	NCO & EIAO	
	Good site practice and noise management can significantly reduce the impact of maintenance activities on nearby NSRs. The following package of measures should be followed during construction				
	• only well-maintained plant should be operated on-site;				N/A
	 machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; and 				N/A
	 plant known to emit noise strongly in one direction should, where possible, be orientated to direct noise away from the NSRs. 				N/A
	<u>Quality</u>	1	1	11	
5.9.1	During Construction	DSD's Contractor	Construction Work Sites	Practice Note for Professional Persons with	\checkmark
	Mitigation measures and a spill control and response plan have been prepared for works at the intakes and work sites.	-		regard to site drainage (ProPECC PN 1/94) and	
	Precautions to be taken at any time of year when rainstorms are likely:			WQO	\checkmark
	 Temporarily exposed surfaces should be covered e.g. by tarpaulin. Temporary access roads should be protected by crushed stone or gravel. 	-			\checkmark
	 Trenches should be dug and backfilled in short sections. Measures should be taken to minimize the ingress of rainwater into trenches. 	-			\checkmark
	 Actions to be taken when a rainstorm is imminent or forecast: Silt removal facilities, should be checked to ensure that they can function properly. 				\checkmark

	Recommended Mitigation Measures	Who to implement the measure ?	Location of the measure	What requirements or standards for the measure to achieve ?	Status
1	• Open stockpiles of construction materials on site should be covered with tarpaulin or similar fabric.	DSD's Contractor	Construction Work Sites	WQO	\checkmark
	• All temporary covers to slopes and stockpiles should be secured.				\checkmark
	Actions to be taken during or after rainstorms:Silt removal facilities should be checked and maintained to ensure satisfactory working conditions.				\checkmark
	Spill Control and Response Plan				
	1 Prevention and Precaution Measures				
	<i>General Precautions</i>No discharge of silty water into watercourses.				\checkmark
	• All materials to be used during construction and operation shall be identified and their hazard potential evaluated.				\checkmark
	• Maintenance of vehicles and equipment involving activities with potential for leakage and spillage shall only be undertaken with the areas appropriately equipped to control these discharges.				\checkmark
	 Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials. 				\checkmark
	• Any construction plant which causes pollution to catchwaters or water gathering ground due to leakage of oil or fuel shall be removed off-site immediately.	-			\checkmark
	• Suitable containers shall be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport	-			\checkmark
	• Chemical waste containers shall be suitably labelled to notify and warn the personnel who are handling the wastes to avoid accidents.	-			\checkmark
	• Storage areas shall be selected at safe locations on site and adequate space shall be allocated to the storage area.	-			\checkmark
	Prevent obstructions and tripping hazards.				\checkmark
	Storage PrecautionsAll chemical storage containers shall be correctly labelled.				\checkmark
	• Solid and impermeable enclosure walls or storage shelves shall be used.				\checkmark
ľ	• Only compatible chemical wastes shall be stored in the same storage area.	1			\checkmark
Ī	• The storage areas shall be inspected to detect any leakages or defective containers on a regular basis.				\checkmark
	• Suitable notices warning of hazards, emergency response plans, telephone numbers etc shall be posted around the site, including storage areas.				\checkmark
	• Large and heavy containers shall be stored at ground level.				\checkmark

	Recommended Mitigation Measures	Who to implement the measure ?	Location of the measure	What requirements or standards for the measure to achieve ?	Status
	Chemical waste containers shall be stored below eye level.				\checkmark
1	Adequate space for handling of the containers shall be provided	DSD's	Construction	WQO	\checkmark
	• Spill response kits shall be located adjacent/near to the storage areas.	Contractor	Work Sites		\checkmark
	• A log of chemical wastes shall be maintained.				\checkmark
	Incompatible chemicals shall be stored separately.				\checkmark
	2 Responses/Action Plan				
	All Workers shall be made aware of emergency telephone numbers and the location of all relevant pollution control equipment. Training be given in emergency response/action plans. The action include the following steps:				\checkmark
	• Only trained personnel who are equipped with protective clothing and equipment shall be allowed to enter the spillage area for clean up.				\checkmark
	• Spills shall be transferred appropriate back into containers using suitable equipment.				\checkmark
	• Absorbent materials shall be used to clean up the spills and shall be disposed of as chemical wastes.	_			\checkmark
	• Where appropriate suitable solvents may be used to clean the contaminated area after removal of all contaminated materials.				\checkmark
	• All necessary protective devices, safety equipment, containers and clean up materials for emergency use shall be maintained to a high standard.				\checkmark
	3 Spill Clean Up and Disposal				
	Effect the response plan.				\checkmark
	Control the leakage and absorb the spillage using suitably absorbent materials.				\checkmark
	Provide safety equipment and personal protective equipment for handling of chemical wastes would be similar to that for handling of chemicals.				\checkmark
	Safety equipment includes but is not limited to:Fire extinguishers.				\checkmark
	• Spades, brushes, dustpan, mop and bucket (or similar readily available on site).				\checkmark
	• Absorbent material such as dry sand, tissues and toweling (all materials readily available on-site).				\checkmark
	Containers including plaster bags, drums, etc.				\checkmark
Ī	Absorbing materials.				\checkmark
Ī	• Pumps.				\checkmark
	<i>Personal protective equipment includes as appropriate:</i>First-aid kits.]			\checkmark
Ī	• Safety helmet and goggles.				\checkmark
	Gloves which can resist chemical reaction.	1			\checkmark

EIA Ref.	Recommended Mitigation Measures	Who to implement the measure ?	Location of the measure	What requirements or standards for the measure to achieve ?	Status
	• Protective boot and clothing.	DSD's	Construction	WQO	\checkmark
5.9.1	Respirators and gas masks.	Contractor	Work Sites		\checkmark
	• Face visor and masks.				\checkmark
5.9.2	Emergency Responses to Spillages	1			
	Emergency plans and clean up procedures will need to be provided by the Contractor recognising his specific working methods and construction programme, activities and sequences. Agreement must be sought prior to commencement of the construction work but the following principles should be considered.				
	The emergency plans should include the procedures for:				\checkmark
	spill prevention and precaution;	4			,
	• response actions; and	_			✓
	• spill clean up and disposal.	_			\checkmark
	Spill prevention and precaution embraces good site practice and covers:				\checkmark
	 good housekeeping practices; chemical storage requirements; and 	-			
	chemical storage requirements, and chemical transfer and transport.	-			•
5.9.3	During Operation	DSD's	Project Area		v
5.9.5	During Operation	Contractor	Floject Alea		
	Regular inspection of the tunnels is essential to monitor the structural integrity and proper functioning of the drainage tunnel, which allows repairing of structural deterioration when it begins to develop. It is recommended that routine inspection shall be carried out at least two times per year for the drainage tunnel at the beginning and end of wet season from April to September.				N/A
Waste	Management				
6.5.1	During Construction Vegetation Removed from Site Clearance Wastes generated from site clearance shall be sorted and excavated topsoil segregated from	DSD's Contractor	Construction Work Sites	Waste Disposal Ordinance (Cap.354); Waste Disposal (Chemical Wastes) (General) Regulation (Cap	\checkmark
	roots for re-use in landscaping works, thus eliminating the need for off-site disposal. <i>Construction and Demolition Materials</i> The Contractor should reuse any C&D material on-site. C&D waste should be segregated and stored in different containers to other wastes to encourage the re-use or recycling of materials and their proper disposal. The use of wooden hoardings shall not be allowed. An alternative material, which can be reused or recycled, for example, metal (aluminium, alloy, etc) shall be used.			354) and ETWBTC No. 15/2003, Waste anagement on Construction Site	\checkmark

EIA Ref.	Recommended Mitigation Measures	Who to implement the measure ?	Location of the measure	What requirements or standards for the measure to achieve ?	Status
6.5.1	As referred to the section 6.4.1, the 317,936m ₃ of inert surplus material generated by the project is suitable for public fill. The public fill reception facility at Tuen Mun Area 38 provides a suitable facility for the reuse of surplus inert C&D material generated from the project. Under the contract, the contractor will be required to minimise the generation of C&D	DSD's Contractor	Construction Work Sites	WDO (Cap.354), ETWBTC No. 15/ 2003, ETWBTC No. 12/2002 and ETWBTC No. 31/2004	
	(a) to plan in the design and construction, methods to minimise the generation of C&D	-			\checkmark
	material;				•
	(b) to submit a Waste Management Plan (WMP) in accordance with Environment Transport and Works Bureau Technical Circular (ETWBTC) No. 15/2003 or any superseding circular(s);				\checkmark
	 (c) to reuse recycled aggregates in accordance with ETWBTC No. 12/2002 or any superseding circular(s); 				\checkmark
	(d) to observe the requirements of the Trip-Ticket System, stipulated in ETWBTC No. 31/2004 or any superceding circular(s), for disposal of C&D material;				\checkmark
	(e) to incorporate a Waste Management System into the WMP for effective management and control of C&D materials to avoid/reduce/minimise the generation of C&D material during construction.				\checkmark
	The contractor will be required to properly sort into inert C&D materials, metals, timber and other non-inert C&D material in the workplace to prevent cross-contamination.				\checkmark
	In addition, DSD will conduct site inspection to monitor the contractors' performance in the implementation of the WMP and other relevant specified requirements.	DSD	Construction Work Sites	WDO (Cap.354) and ETWBTC No. 15/2003	\checkmark
	<i>Excavated Materials</i> Excavated materials should be segregated from other wastes to avoid contamination thereby ensuring acceptability at public filling areas and avoiding the need for disposal at landfill. <i>Municipal Waste</i>	DSD's Contractor	Construction Work Sites	WDO (Cap.354) and ETWBTC No. 15/2003	V
	Temporary refuse collection facilities should be set-up by the contractor and wastes should be stored in appropriate containers prior to collection and disposal.				\checkmark
	Domestic effluent generated by the workforce will be directed to foul sewer or chemical toilets if public facilities are not available.				\checkmark
6.5.1	Waste Management Plan A Waste Management Plan (WMP) for the construction of the Project should be prepared as part of the contractors submission. It will provide recommendations for appropriate recycling or disposal route and should include method statement for stockpiling and transportation of the excavated material and other construction wastes should also be included in the WMP and approved before the commencement of construction. All mitigation measures arising from the approved WMP shall be fully implemented.	DSD's Contractor	Construction Work Sites	WDO (Cap.354), ETWBTC No. 15/2003 and ETWBTC No. 33/2002	\checkmark

EIA Ref.	Recommended Mitigation Measures	Who to implement the measure ?	Location of the measure	What requirements or standards for the measure to achieve ?	Status
	For the purpose of enhancing the management of C&D material including rock, and to minimize its generation at source, a C&D Material Management Plan (C&DMMP) has been prepared for this project and would be processed in accordance with the Environment, Transport and Works Bureau Technical Circular (Works) No. 33/2002 - Management of Construction and Demolition Material Including Rock.				N/A
Ecology					
7.7.1	Avoidance The surface structures are located mainly on existing disturbed areas (ie pollution and urbanisation) and have generally avoided the natural stream sections of higher species diversity and abundance of aquatic organisms. The major construction activities at streams are scheduled to avoid wet season of high water flow which may adversely affect the downstream natural habitats due to the construction	DSD's Contractor	Construction Work Sites	EIAO	√ √
7.7.2	runoff. Minimisation	-			v
	The previous discussion in Section 7.6.4 has indicated that the impacts on ecological resources due to the construction and operation of the proposed Project are generally expected to be low. The following mitigation measures to minimise impacts and disturbance to the surrounding habitats, are recommended. <i>Measures for Construction Runoff</i> Install sheet piles/cofferdam/weir along the boundary of the works area within the stream habitats in particular Sam Dip Tam Stream and Tso Kung Tam Stream before the commencement of works to prevent construction runoff during construction. Provision of				V
	adequate designed sand/ silt removal facilities such as sand traps, silt traps and sediment basin in the areas which could potentially be affected may be required. <i>Good Construction Practice</i>	-			\checkmark
	Erect fences along the boundary of the works area before the commencement of works to prevent tipping, vehicle movements, and encroachment of personnel onto adjacent areas, particularly the stream habitats.	DSD's Contractor	Construction Work Sites	EIAO	\checkmark
	Avoid any damage and disturbance, particularly those caused by filling and illegal dumping, to the remaining and surrounding natural stream habitats. Regularly check the work site boundaries to ensure that they are not breached and that no	-			\checkmark
	damage occurs to surrounding areas. Prohibit and prevent open fires within the site boundary during construction and provide				 ✓
	temporary fire fighting equipment in the work areas. Treat any damage that may have occurred to individual major trees in the adjacent area with surgery.				√ √

EIA Ref.	Recommended Mitigation Measures	Who to implement the measure ?	Location of the measure	What requirements or standards for the measure to achieve ?	Status
	Reinstate temporary work sites/disturbed areas, particularly stream of natural bottom and bank, plantation, intertidal habitat, and the areas located within the proposed Ecological Park, immediately after completion of the construction works, ie through on-site tree/shrub planting and reprovision of natural or semi-natural bottom (also refer to Section 7.7.3), in order to facilitate the recolonisation of the wildlife recorded during the baseline surveys. Tree/shrub species used should make reference from those in the surrounding area	DSD's Contractor	Construction Work Sites	EIAO	\checkmark
7.7.3	Compensation Provide natural stream bed (approximately 0.03 ha) for the new Dry Weather Flow Channel (created from village-orchard) by laying natural stones at Intake I-2 (Figure 7.7). The reinstated stream bed shall mimic the existing natural conditions with certain portion of big boulders creating the lentic and lotic zones for the aquatic fauna, and while it will be developed during detailed design may draw on concepts shown in Figure 2.18. Provide natural stream bed (approximately 0.5 ha,) for the Approach Channel and Dry				N/A
	Weather Flow Channel by laying natural stones at Intake I-3 (Figure 7.8). The reinstated stream bed shall mimic the existing natural conditions (rocky bottom with very limited aquatic plants) with certain portion of big boulders creating the lentic and lotic zones for the aquatic fauna, and while it will be developed during detailed design may draw on concepts shown in Figure 2.18.				N/A
	Provide natural bottom (ie retain the existing stream bed or reinstate the stream bed by providing boulders/ rocks, riprap or gabion) for the affected stream sections (Figure 7.8) in order to allow natural colonisation of aquatic fauna.				N/A
	Provide at least 2.2 ha of compensatory planting on the permanent and temporary affected plantation areas, particularly the slopes along access road and adjacent to Intake I-3 and cascade at Outfall O-1, after construction to stabilise the slope to present soil erosion and consequent stream sedimentation. Among the 2.2 ha compensatory planting, at least 0.5 ha of compensatory tree planting on the new formed slope along the access road of the Intake I-3 and 0.5 ha of compensatory tree planting over the cascade (by constructing intermediate platform) at Outfall O-1 will be provided (location refer to Figures 7.4 – 7.6). Species used for planting should take reference from the species identified in Appendix F and be native to Hong Kong or South China region.				N/A
	Provide armour rocks for the affected intertidal habitat in order to allow natural colonisation of intertidal organisms.				N/A

EIA Ref.	Recommended Mitigation Measures	Who to implement the measure ?	Location of the measure	What requirements or standards for the measure to achieve ?	Status
Cultural	Heritage				
8.6	As no impacts on recorded archaeological sites or area with archaeological potential were identified within the Study Area, no mitigation measure for archaeological resources is considered necessary.				N/A
	The construction methods to be employed should seek to avoid potential vibration impacts to Kuen Yuen Tung Monastery at Lo Wai, the Western Monastery, Yuen Yuen Home for the Aged, Hong Hoi Chee Hong Temple, Chiu Yum Tsing Yuen, Tse's Grave, Wan Lin Bridge and Sam Dip Tam Rock Carving in Sam Dip Tam and the Tin Hau Temple, Yam Kom Tau Village Rural Committee and the Yeung's Ancestral Hall in Yau Kom Tau as these sites fall within 50 m of the Preferred Option of the drainage tunnel alignment or associated Intakes/Outfall construction activities. Construction works that generates excessive vibration in close proximity to these sites should be restricted to protect the building from adverse vibration impacts and to ensure that the building structures will not be damaged as a result of these impacts.	DSD's Contractor	Construction Work Sites	EIAO	~
	In order to ensure that no structural or superficial damage will be caused by the construction activities, a precautionary approach involving a pre-construction condition survey and establishment of appropriate vibration limits for the potentially impacted structures should be adopted. Protection measures for the potentially impacted structures, if considered necessary from the pre-construction condition survey, should be implemented prior to the commencement of construction works. Vibration monitoring during the construction phase should be undertaken as part of the EM&A programme.	Qualified archaeologist/ built heritage specialist	Construction Work Sites	EIAO	\checkmark
Fisheries		1	1	1	
10.6	In accordance with the guidelines in the <i>EIAO-TM</i> on fisheries impact assessment the general policy for mitigating impacts to fisheries, in order of priority are avoidance, minimization and compensation.	DSD's Contractor	Construction Work Sites	EIAO	N/A
Remarks	Impacts to fisheries resources and fishing operations have largely been avoided during the construction and operation of the drainage tunnel through the avoidance of dredging, reclamation and filling activities. Good construction practice and associated measures were recommended in Water Quality Assessment in Section 5 to control water quality impacts to within acceptable levels and are also expected to control impacts to fisheries resources. Hence, no fisheries-species mitigation measures are required during construction and operation of the drainage tunnel. : ✓ Compliance of mitigation measure				N/A

Non-compliance of mitigation measure Not applicable x

N/A



Appendix E

Status of License and Permit





Updated Status of Environmental Permit & Licence

Application Date	Environmental Permit / Licence	Issued Date	Ref No.	Account No.	Permit / Licence No.	Permit / Licence Validity Date	Remarks
2 Jan 2008	Registration as a Waste Producer	3 Jan 2008	001026707				Valid
2 Jan 2008	Waste Disposal (Chemical Waste) (General) - Chemical Waste Producer	26 Feb 2008		5111-324- M2703-01			Valid
2 Jan 2008	Waste Disposal (Charges for Disposal of Construction Waste) Regulation - Billing Account	17 Jan 2008		7006574			Valid
10 Jan 2008	Notification Pursuant to Section 3(1) of the Air Pollution Control (Construction Dust) Regulation	10 Jan 2008	001026901				Valid
25 Feb 2008	Water Discharge Licence – Outfall O-1	7 Aug 2008	001028154		EP760/323/012997I	7 Aug 2008 - 31 Aug 2013	Valid
18 Apr 2008	Water Discharge Licence – Intake I-1	19 Jun 2008	001029978		EP760/327/013315I	19 Jun 2008 - 30 Jun 2013	Valid
18 Apr 2008	Water Discharge Licence – Intake I-2	2 Jul 2008	001029959		EP760/321/013020I	2 Jul 2008 - 31 Jul 2013	Valid
18 Apr 2008	Water Discharge Licence – Intake I-3	5 Aug 2008	001029960		EP760/323/013324I	5 Aug 2008 - 31 Aug 2013	Valid
18 Apr 2008	Water Discharge Licence – Portion I	26 Jun 2008	001029974		EP760/350/013334I	26 Jun 2008 - 30 Jun 2013	Valid
23 Jul 2008	Water Discharge Licence – Intake I-1 (Intersection of Wo Yi Hop Lane and Ho Fung College)	27 Aug 2008	001031974		EP760/325/013536I	27 Aug 2008 - 31 Aug 2013	Valid
2 Sep 2008	Variation of Environmental Permit	25 Sep 2008	VEP-271/2008		EP-275/2007/B		Valid
29 Apr 2009	Water Discharge Licence – Intake I-3 (Additional Discharge Point)	25 Mar 2010	305058		WT00005917-2010	25 March 2010 - 31 March 2015	Valid
5 Oct 2009	Further Environmental Permit	27 Oct 2009	FEP-096/2009		FEP-01/275/2007/B		Valid
19 Jan 2010	Water Discharge Licence – Outfall O-1 (Additional Discharge Point)		313803				Submission made on 19 Jan 2010 and acknowledge received by EPD on 28 Jan 2010.





Updated Status of Environmental Permit & Licence

Application Date	Environmental Permit / Licence	Issued Date	Ref No.	Account No.	Permit / Licence No.	Permit / Licence Validity Date	Remarks
12 Jul 2010	Construction Noise Permit - Chai Wan Kok - Valve House (Group A + B)	23-Jul-10	319368		GW-RW0364-10	26 Jul 2010 - 26 Dec 2010	Expired
13 Jul 2010	Application for Vessel Chits for Disposal of Construction Waste for Existing Account Holder (Billing Account)	23-Jul-10		7011131			Valid
22 Jul 2010	Application for a Permit to Dump Material at Sea - Dredged / Excavated Sediment Requiring Type 1 - Open Sea Disposal	20-Sep-10	319729		EP/MD/11-049	02 Oct 2010 - 01 Apr 2011	Valid
27 Jul 2010	Construction Noise Permit - Portion G - (Water Pump)	12-Aug-10	319871		GW-RW0399-10	12 Aug 2010 - 09 Feb 2011	Valid
4 Sep 2010	Water Discharge Licence – Portion G	28-Oct-10	321337		WT00007685-2010	28 Oct 2010 - 31 Oct 2015	Valid
9 Sep 2010	Construction Noise Permit - Intake I-3	16-Sep-10			GW-RW0481-10	22 Sep 2010 - 02 Dec 2010	Expired
8 Oct 2010	Construction Noise Permit - Intake I-1	21-Oct-10	322262		GW-RW0549-10	22 Oct 2010 - 03 Dec 2010	Expired
25 Oct 2010	Construction Noise Permit - Outfall (For Mining Works to 2300, Probe Drilling to 24hrs & Any 2 days trial for Mining 24hrs)	9 Nov 2010	322840		GW-RW0604-10	09 Nov 2010 - 03 Dec 2010	Expired
8 Nov 2010	Construction Noise Permit - Intake 2	24 Nov 2010	323325		GW-RW0629-10	24 Nov 2010 - 14 May 2011	Valid
12 Nov 2010	Construction Noise Permit - Outfall (For Mining Works and Probe Drilling to 24hrs)	29 Nov 2010	323497		GW-RW0656-10	04 Dec 2010 - 03 June 2011	Valid
23 Nov 2010	Construction Noise Permit - Valve House (Near the Wonderland at Castle Peak Road, Ting Kau - Ventailation Fan)	23 Nov 2010	323886		GW-RW0652-10	26 Nov 2010 - 25 May 2011	Valid





Updated Status of Environmental Permit & Licence

Application Date	Environmental Permit / Licence	Issued Date	Ref No.	Account No.	Permit / Licence No.	Permit / Licence Validity Date	Remarks
1 Dec 2010	Construction Noise Permit - Chai Wan Kok - Valve House (Group A + B)	9 Dec 2010	324176		GW-RW0680-10	27 Dec 2010 - 26 Jun 2011	Valid
1 Dec 2010	Construction Noise Permit - Intake I-1	13 Dec 2010	234178		GW-RW0701-10	13 Dec 2010 - 03 Jun 2011	Valid
1 Dec 2010	Construction Noise Permit - Intake I-3	9 Dec 2010	234179		GW-RW0682-10	09 Dec 2010 - 02 Jun 2011	Valid
4 Dec 2010	Construction Noise Permit - Outfall (For Mining Works and Probe Drilling to 24hrs)	3 Dec 2010			GW-RW0679-10	03 Dec 2010 - 04 Dec 2010	Expired
	Water Discharge Licence – Outfall O-1 (Additional Discharge Point)						Submission made on 14 Dec 2010 and acknowledge received by EPD on 14 Dec 2010.



Appendix F

Calibration Certificates

Project Title: Monitoring Location: Calibration Date: **Calibration Due Date** Time:

Design and Construction of Tsuen Wan Drainage Tunnel Ho Fung College (ASR 1) 23-Nov-10 23-Jan-11 08:00

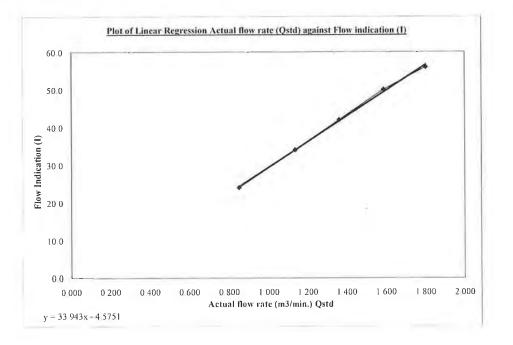
Sampler Model:	BM2000HX
Serial No.:	4994
Calibrator Orifice no	1785
Slope (m):	1.97702
Intercept (b):	-0.00070
Correction coeff. (r)	0 99992
Standard pressure (mmHg) Pstd:	763 9
Standard temp. (K) Tstd	290_8
Calibration pressure (mmHg) Pa:	760.9
Calibration temp. (K) Ta:	294.4

l·low(corrected) = $\sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}}$

$$\underline{Ostd} = \frac{1}{m} \times (\sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}} - b)$$

Sample no.	Pressure Drop (H), inch	Flow (correted), m ³ /min	Actual flow rate (Qstd), m ³ /min	Flow indication (I), arbitrary
	12.6	3 564	1 803	56 0
2	9.8	3.143	1_590	50 0
3	7.2	2.694	1.363	42.0
4	5.0	2.245	1 136	34.0
5	2.8	1 680	0.850	24.0

Correlation Coefficient: 0.9993



Remark 1HPa = 0 750062 mmHg

Calibrated by:

Arthur Chiu)

(

Checked by:

F.C. Tsang buffantheog)

Date: 23/11/2010

Date: 23/11/2010

Project Title: Monitoring Location: Calibration Date: **Calibration Due Date** Time:

Design and Construction of Tsuen Wan Drainage Tunnel Heng Hoi Chi Hong Ship Temple (ASR 3) 23-Nov-10 23-Jan-11 08:15

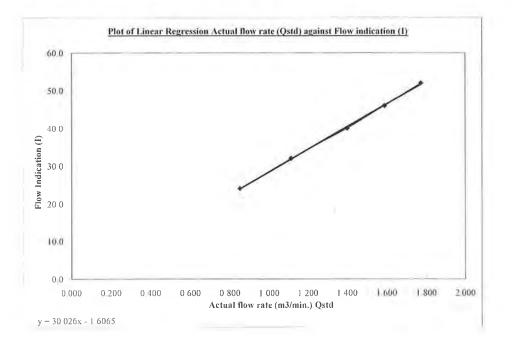
Sampler Model:	BM2000HX
Serial No :	5875
Calibrator Orifice no.:	1785
Slope (m):	1 97702
Intercept (b):	-0.00070
Correction coeff. (r)	0 99992
Standard pressure (mmHg) Pstd	763.9
Standard temp. (K) Tstd:	290.8
Standard temp. (K) Tstd: Calibration pressure (mmHg) Pa:	290.8 760.9

Flow (corrected) = $\sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}}$

 $Qstid = \frac{1}{m} \times (\sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}} - b)$

Sample no.	Pressure Drop (H), inch	Flow (corrcted), m ³ /min	Actual flow sate (Qstd), m ³ /min	Flow indication (I), arbitrary
1	12.2	3 507	774	52_0
2	98	3 143	1.590	46_0
3	7.6	2 768	1.401	40_0
4	4.8	2.200	1.113	32.0
5	2.8	1 680	0 850	24_0

Correlation Coefficient: 0 9996



Remark 1HPa = 0 750062 mmHg

Calibrated by:

Arthur Chiu Arther)

(

Date: 23/11/2010

Checked by:

F.C. Tsang (Hongton Dear)

Date: 23/11/2010

Project Title: Monitoring Location: Calibration Date: **Calibration Due Date** Time: 08:30

Design and Construction of Tsuen Wan Drainage Tunnel Long Beach Gardan (ASR 8) 23-Nov-10 23-Jan-11

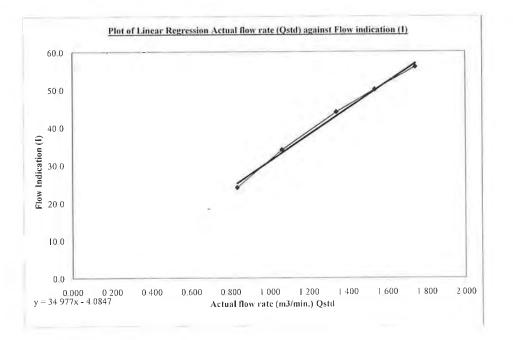
Sampler Model:	TE5005X
Serial No.:	1059
Calibrator Orifice no :	1785
Slope (m):	1.97702
Intercept (b)	-0.00070
Correction coeff. (r)	0.99992
Standard pressure (mmHg) Pstd	763.9
Standard temp. (K) Tstd	290.8
Calibration pressure (mmHg) Pa:	760.9
Calibration temp. (K) Ta:	294.4

I low (corrected) = $\sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}}$ Trul 12

$$Qstd = \frac{1}{m} \times (\sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}} - b)$$

Sample no.	Pressure Drop (H), inch	Flow (correted), m ³ /min	Actual flow rate (Qstd), m3/min	Flow indication (1), arbitrary
1	11.8	3 449	1 745	56 0
2	9.2	3.046	1.541	50 0
3	7.0	2,657	1 344	44 0
4	4.4	2 106	1 066	34.0
5	2.7	1 650	0.835	24 0

Correlation Coefficient: 0.9969



Remark 1HPa = 0 750062 mmHg

Calibrated by:

Arthur Chiu Anthin)

(

Checked by:

F.C. Tsang ' Hangtan Berg)

Date: 13/11/2010

Date: 23/11/2010

Design and Construction of Tsuen Wan Drainage Tunnel **Project Title:** Greenview Terrance (ASR 9) **Monitoring Location:** Calibration Date: 23-Nov-10 **Calibration Due Date** 23-Jan-11 Time: 08:45

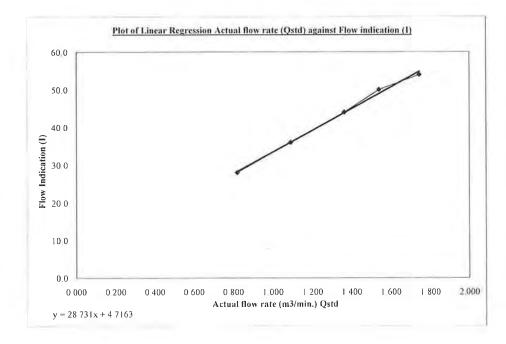
Sampler Model:	TE5005X
Serial No.:	1713
Calibrator Orifice no .:	1785
Slope (m):	1_97702
Intercept (b):	-0.00070
Correction coeff. (r)	0 99992
Standard pressure (minHg) Pstd	763 9
Standard temp. (K) Tstd.	290.8
Calibration pressure (mmHg) Pa:	760.9
Calibration temp. (K) Ta:	294 4

Pa _____ Tstd l'low(corrected) = $\sqrt{H \times H}$ Та Pstd

$$Qstd = \frac{1}{m} \times (\sqrt{H} \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta} - h)$$

Sample no.	Pressure Drop (H), inch	Flow (correted), m ³ /min	Actual flow rate (Ostd), m ³ /min	Flow indication (I), arbitrary
1	11.8	3 449	1 745	54 0
2	9 2	3 046	1.541	50 0
3	7.2	2 694	363	44.0
4	4.6	2 154	1 090	36.0
5	2.6	1.619	0.819	28.0

Correlation Coefficient: 0 9979



Remark 1HPa = 0 750062 mmHg

Calibrated by:

(

(

Checked by:

Date: <u>}3/11/2010</u>

Date: 23/11/2010



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

4

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Ma Operator) Rootsmeter Orifice I.I		333620 1785	Ta (K) - Pa (mm) -	29Ġ - 750.57
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.3960 0.9840 0.8790 0.8390 0.6940	3.2 6.4 7.9 8.7 12.7	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9900	0.7092	1.4102		0.9957	0.7133	0.8881
0.9858	1.0018	1.9943		0.9915	1.0076	1.2560
0.9837	1.1191	2.2296		0.9894	1.1256	1.4042
0.9827	1.1713	2.3385		0.9884	1.1781	1,4728
0.9774	1.4084	2.8203		0.9830	1.4165	1.7762
Qstd slog intercept coefficie	(b) =	2.01637 -0.02316 0.99996		Qa slope intercept coefficie	t (b) =	1.26262 -0.01458 0.99996
y axis =	SQRT [H20 (1	Pa/760) (298/5	[[a)]	y axis =	SQRT [H2O (1	[a/Pa)]

CALCULATIONS

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

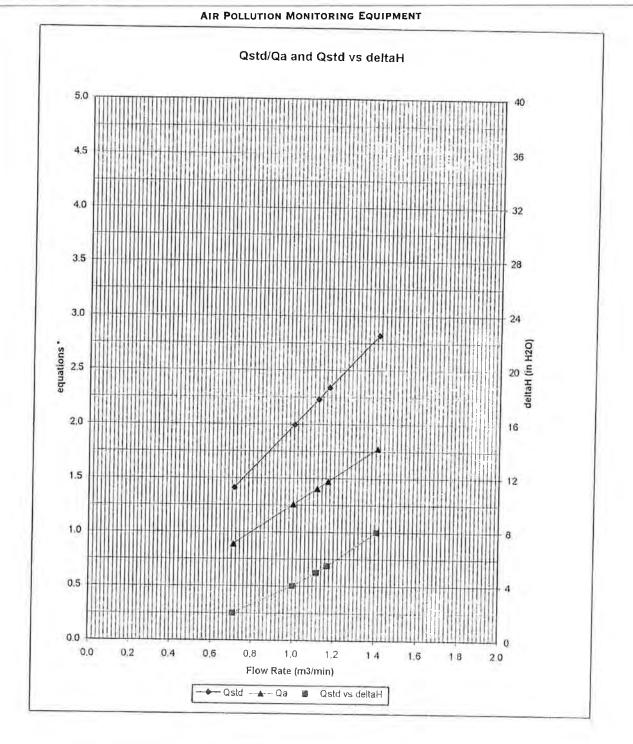
Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

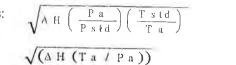
Qstd = $1/m\{ [SQRT(H2O(Pa/760)(298/Ta))] - b \}$ Qa = $1/m\{ [SQRT(H2O(Ta/Pa)] - b \}$



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



* y-axis equations: Qstd series:



#1785

Qa series:



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C102904

Certificate of Calibration

This is to certify that the equipment

Description : Sound Level Meter Manufacturer : Rion Model No. : NL-31 Serial No. : 00410224

has been calibrated for the specific items and ranges. The results are shown in the Calibration Report No. C102904.

The equipment is supplied by

Co. Name : Envirotech Services Co.

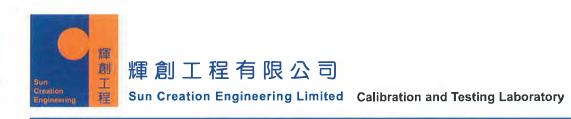
Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road, Hong Kong

Date of Issue : 31 May 2010

Certified by : K d Lee

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited



Certificate No. : C106297

Certificate of Calibration

This is to certify that the equipment

Description : Integrating Sound Level Meter Manufacturer : Bruel & Kjaer Model No. : 2238 Serial No. : 2448529

has been calibrated for the specific items and ranges. The results are shown in the Calibration Report No. C106297.

The equipment is supplied by

Co. Name : Hyder Consulting Limited

Address : 47/F., Hopewell Centre, 183 Queen's Road East, Wanchai, Hong Kong

Date of Issue : 16 November 2010

Certified by : KC Lee

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories. Hong Kong Tel: 2927 2606 Fax: 2744 8986 E-mail: callab@suncreation.com Website: www.suncreation.com



Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C096839

Certificate of Calibration

This is to certify that the equipment

Description : Integrating Sound Level Meter Manufacturer : Bruel & Kjaer Model No. : 2238 Serial No. : 2562782

has been calibrated for the specific items and ranges. The results are shown in the Calibration Report No. C096839.

The equipment is supplied by

Co. Name : Envirotech Services Co.

Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road, Hong Kong

Date of Issue : 29 December 2009

Certified by : ΚØ Lee

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories. Hong Kong Tel: 2927 2606 Fax: 2744 8986 E-mail: callab@suncreation.com Website: www.suncreation.com



Calibration Certificate

r Consulting Limited , Hopewell Centre, 183 (84	Queens Road East	, Wanchai, Hong Kong Date of receipt :	28-Dec-10
84	Queens Road East		28-Dec-10
		Date of receipt :	28-Dec-10
d Level Meter			
		Serial No. : :	2562782
ec-10		Supply Voltage :	8
Ambient Temperature : (23 ± 3)°C			(50 ± 25) %
ns			
dure: Z01.			
the IEC 651 Type 1 & IE	EC 804 Type 1 spe	cification.	
in the attached page(s)			
used:			
ription	Cert, No.	Trac	eable to
Function Generator	07279		HKSAR
d Level Calibrator	04062		PRC & SCL-HKSAR
ript Fu	<u>ion</u> nction Generator	ion <u>Cert. No.</u> nction Generator 07279	ionCert. No.Tracenction Generator07279SCL-

will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI). The test results apply to the above Unit-Under-Test only

Calibrated by :

This Certificate is issued by:

P. F. Wong

Approved by : _

D. **Dorothy Cheuk**

30-Dec-10 Date:

Hong Kong Calibration Ltd. Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong. Tel: 2425 8801 Fax: 2425 8646

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Calibration Certificate

Certificate No. 07436

Page 2 of 3 Pages

Results :

1. SPL Accuracy

UUT Setting			Applied Value	UUT Reading	
Range	Freq. Wgt.	Bandwith	Center Freq.	(dB)	(dB)
20~100	A	BB/F		94.0	94.1
	A	BB/S			94.1
С	C	BB/F			94.0
40~120	A	BB/F		94.0	94.1
	A	BB/F		114.0	113.9

IEC 651 Type 1 Spec. : \pm 0.7 dB Uncertainty : \pm 0.1 dB

2. Level Stability : 0.0 dB IEC 651 Type 1 Spec. : \pm 0.3 dB Uncertainty : \pm 0.01 dB

3. Linearity

3.1 Level Linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec. (Primary Indicator Range)
140	114.0	114.3	+0.2	± 0.7 dB
130	104.0	104.3	+0.2	
120	94.0	94.1 (Ref.)		-
110	84.0	83.9	-0.2	
100	74.0	73.9	-0.2	
90	64.0	63.9	-0.2]
80	54.0	54.2	+0.1	

Uncertainty : $\pm 0.1 \text{ dB}$



Calibration Certificate

Certificate No. 07436

Page 3 of 3 Pages

3.2 Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	83.9	-0.2	± 0.4 dB
	94.0	94.1 (Ref.)		
	95.0	95.1	0.0	± 0.2 dB

Uncertainty : $\pm 0.1 \text{ dB}$

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-40.0	- 39.4 dB, ± 1.5 dB
63 Hz	-26.7	- 26.2 dB, ± 1.5 dB
125 Hz	-16.6	- 16.1 dB, ± 1 dB
250 Hz	-9.1	- 8.6 dB, ± 1 dB
500 Hz	-3.5	- $3.2 \text{ dB}, \pm 1 \text{ dB}$
1 kHz	0.0 (Ref)	$0 \text{ dB}, \pm 1 \text{ dB}$
2 kHz	+1.5	$+ 1.2 \text{ dB}, \pm 1 \text{ dB}$
4 kHz	+1.3	$+ 1.0 \text{ dB}, \pm 1 \text{ dB}$
8 kHz	-0.7	- 1.1 dB, +1.5 dB ~ -3 dB
16 kHz	-6.3	- $6.6 dB, + 3 dB \sim -\infty$

Uncertainty : $\pm 0.1 \text{ dB}$

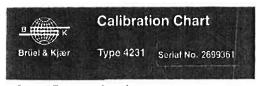
5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	40.0	,, _,
1/10	40.0	39.9	± 0.5 dB
$1/10^{2}$	40.0	40.0	
$1/10^{3}$	40.0	40.5	± 1.0 dB
$1/10^{4}$	40.0	41.0	

Uncertainty : $\pm 0.1 \text{ dB}$

Remarks : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric pressure : 1 012 hPa.



Sound Pressure Level: 94.00 or 114.00 dB ±0.20 dB (re 20 µPa at reference conditions)

Frequency: 1000 Hz ±0.1%

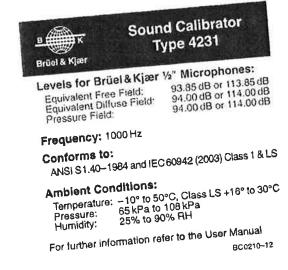
Distortion: <1%

Reference Conditions:

Temperature: 23°C Pressure: 101.325 kPa Humldity: 50% RH Load: 0.25 cm³ (½" Brūel & Kjær Mic.)

Dates 29.12-9 Signed:

.



Brüel & Kjær 🖤

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Packing Note

Page 1 / 1

ltem	Description		
-4231	Sound Calibrator Class 1 and LS, 94 and 114 dB, 1 kHz Akuslischer Kalibrator der Klasse 1 - 94 dB / 1 kHz und 114 dB / 1 kHz - Bauartgeprüft und eichfähig Calibreur accustique de classe 1 (94 et 114 dB à 1kHz)		
ltem	Qty Description		
BA-5341—	1 Trilingual Manual Pack for Type 4231 Trilingual Manual Pack for Type 4231 Trilingual Manual Pack for Type 4231		
BC-0210	Calibration Chart Type 4231 Galibration Chart Type 4231 Calibration Chart Type 4231 Calibration Chart Type 4231		
KE-0317	ビー 1 Leather Case for 4231 Tellverpackung Leather Case for 4231		
QB-0013	2 Battery 1,5V Alkaline, Non-Rechargeable, aize AA (LR6) ø14,5x 50,5mm Bettery 1,5V Alkaline, Non-Rechargeable, size AA (LR6) ø14,5x 50,5mm Bettery 1,5V Alkaline, Non-Rechargeable, size AA (LR6) ø14,5x 50,5mm		



If the accessories included in the Product Data Sheet or Manual differ from the items supplied, the items mentioned on the Packing Note/List are valid. A27111

Brüel & Kjær 🕬	Packing List		
Incorporating LDS and Lochard	Delivery Number Ship Date Page 2314552 05-02-2010 1/1		
Ship To	Forwarder Geodis Wilson / Airfreight		
Spectris China Ltd.	Sales Order Number 6551240		
Attn. Jacky Leung	Your Reference SF# 1-201034558		
132 Nathan Road Unit 706, 7/F Miramer Tower	Our Reference		
Tsimshatsui Kowloon Hong Kong	No. of Colli 1 Gross Weight 1 kg Net Weight 0.45 kg Volume 0.006 m ³		

Colli	B&K Item No.	άτγ	Net Weight	Serial No.	Description	included in Item
1	-4231	9	0,45 kg	2699361	Sound Callbrator Class 1 and LS, 94 and 114 dB, 1 kHz	

Note

If the accessories included specified in the Product Data Sheet or Manual differ from the items supplied, the items mantioned on the Packing Slip are valid. In case of any question, please contect your local Bruet & Kjær office.

112700420



Calibration Certificate

Certificate No.	. 07437		Page 1 of	2 Pages
Customer :	Hyder Consulting Limited			
Address :	47/F., Hopewell Centre, 183	Queens Road Eas	t, Wanchai, Hong Kong	
Order No. :	Q02884		Date of receipt :	28-Dec-10
Item Tested				
Description	: Sound Level Calibrator			
Manufacturer	: B&K			
Model	: Type 4231		Serial No. : 269	9361
Test Condit	ions			
Date of Test :	29-Dec-10		Supply Voltage :	
Ambient Temp	perature : (23 ± 3)°C		Relative Humidity : (50	± 25) %
Test Specifi	cations			
Calibration che	ck			
	/Procedure : F21, Z02.			
rton Dooumont	110000010.121, 202.			
Test Result	5			
	within the IEC 942 Class 1 s			
The results are	shown in the attached page(5).		
Main Test equip	oment used:			
Equipment No.		Cert. No.	Traceab	le to
S014	Spectrum Analyzer	03926	NIM-PR	C & SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PR	C & SCL-HKSAR
S041	Universal Counter	04461	SCL-HK	SAR
S206	Sound Level Meter	04462	SCL-HK	SAR
will not include allow overloading, mis-ha	wance for the equipment long term of	frift, variations with envir laboratory to repeat the	ed at the time of the test and any unce onmental changes, vibration and sho measurement. Hong Kong Calibratio	ck during transportation,
	used for calibration are traceable to bly to the above Unit-Under-Test onl		Units (SI).	
	1			
und alember	11.			
Calibrated by	- Com		Approved by :	Chaula
	P. F. Wong		Dorothy	Спеик
his Certificate is issued to long Kong Calibration Lto			Date: 30-Dec-10	1
Init 8B, 24/F., Well Fung el: 2425 8801 Fax: 242	Industrial Centre, No. 58-76, Ta Chuen Ping Str 5 8646	reet,Kwai Chung, NT,Hong Kong		

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Calibration Certificate

Certificate No. 07437

Page 2 of 2 Pages

Results :

1. Level Accuracy

UUT Nominal Value (dB)	Measured Value (dB)	IEC 942 Class 1 Spec.
94	94.02	± 0.3 dB
114	114.10	

Uncertainty : $\pm 0.1 \text{ dB}$

2. Frequency

UUT Nominal Value	Measured Value	IEC 942 Class 1 Spec.
1 kHz	1.000 kHz	± 2 %

Uncertainty : \pm 3.6 x 10 ⁻⁶

- 3. Level Stability : 0.0 dB IEC 942 Class 1 Spec. : ± 0.1 dB Uncertainty : ± 0.01 dB
- 4. Total Harmonic Distortion : < 0.5 % IEC 942 Class 1 Spec. : < 3 % Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

- 2. The above measured values are the mean of 3 measurement.
- 3. The uncertainty claimed is for a confidence probability of not less than 95%.
- 4. Atmospheric Pressure : 1012 hPa.

----- END -----

Batch: HK1022261 Date of Issue: 24/09/2010 Client: HYDER CONSULTING LTD **Client Reference:**

Calibration of Mulitimeter

Item : Turbidimeter ALS Lab ID: HK1022261 -001 Date of Calibration: 24 September, 2010.

Testing Results :

Turbidity

Expected Reading	Recording Reading	Testing Method:
0.00 NTU	0.18 NTU	APHA (19th edition), 21
4.00 NTU	3.97 NTU	
40.0 NTU	36.9 NTU	
80.0 NTU	76.0 NTU	()
400 NTU	424 NTU	
Allowing Deviation	± 10%	

30B

Model No.: Eutech Instruments TN-100

Serial No.: 215619

Mr Chan Kwok/Fai, Godfrey Laboratory Manager - Hong Kong

ALS Technichem (HK) Pty Ltd **ALS Environmental**

Page 2 of 2



Work Order:HK1030685Date of Issue:31/12/2010Client:HYDER CONSULTING LIMITEDClient Reference:DC2007/12 DESIGN AND CONSTRUCTION OF
TSUEN WAN DRAINAGE TUNNEL

Calibration of Turbidity System

Item :	Turbidimter
ALS Lab ID:	HK1030685-001
Date of Calibration:	28 December, 2010

Model No.: Eutech Instruments TN-100 Equipment No.: --Serial No.: 215619

Testing Results :

Turbidity

Expected Reading	Recording Reading	Testing Method:
0.00 NTU	0.29 NTU	APHA (19th edition), 2130
4.00 NTU	3.97 NTU	
40.0 NTU	39.7 NTU	
80.0 NTU	74.2 NTU	
400 NTU	433 NTU	
800 NTU	783 NTU	
Allowing Deviation	± 10%	

Mr Chan Kwok/Fai, Oodfrey

Mr Chan Kwok/Fai, Oodfrey Laboratory Manager - Hong Kong

ALS Technichem (HK) Pty Ltd ALS Environmental

Batch: HK1019746 28/08/2010 Date of Issue: HYDER CONSULTING LIMITED Client: **Client Reference:**

Allowing Deviation

Calibration of Mulitimeter

Item :	pH, DO & Temperature
ALS Lab ID:	HK1019746 -001
Date of Calibration:	27 August, 2010

Model No.: WTW pH/Oxi 340i Serial No.: 08101283

Testing Results :

pН	Expected Reading	Recording Reading	Testing Method:
	4.00	4.03	APHA (20th edition), 4500-H ⁺ B
	7.00	7.15 9.93	
	Allowing Deviation	± 0.2 unit	
Temperature	Expected Reading	Recording Reading	Testing Method:
	15.5 °C	15.5 °C	
	25.0 °C	24.3 °C	
	36.5 °C	35.8 °C	In-House Method
	Allowing Deviation	±2.0°C	
DO	Expected Reading	Recording Reading	Testing Method:
	5.25 mg/L	5.28 mg/L	APHA (20th edition), 4500-OC & G
	5.95 mg/L	5.97 mg/L	
	7.85 mg/L	7.82 mg/L	

± 0.2 mg/L



Work Order: HK1028665 Date of Issue: 03/12/2010 HYDER CONSULTING LIMITED Client: **Client Reference:**

Calibration of Mulitimeter

Item :	Mulitimeter	Model No.: WTW pH/Oxi 340i
ALS Lab ID:	HK102866 -001	Serial No.: 08101283
Date of Calibration:	03 December 2010	

Testing Results :

рН	Expected Reading	Recording Reading	Testing Method:
	4.00	4.03	APHA (20th edition), 4500-H ⁺ B
	7.00 10.0	7.18 10.1	
			1. Contract (1. Co
	Allowing Deviation	± 0.2 unit	
Temperature	Expected Reading	Recording Reading	Testing Method:
	12.5 °C	12.6 °C	
	20.5 °C	20.8 °C	and the second second second
	37.0 °C	37.1 °C	In-House Method
	Allowing Deviation	±2.0 ⁰ C	
Dissolved Oxygen	Expected Reading	Recording Reading	Testing Method:
	4.67 mg/L	4.75 mg/L	APHA (20th edition), 4500–OC & G
	5.97 mg/L	5.89 mg/L	Participation of the second second second
	8.01 mg/L	8.02 mg/L	
	Allowing Deviation	± 0.2 mg/L	

Mr Chan Kwok Fai, Godfrey Laboratory Manager - Hong Kong

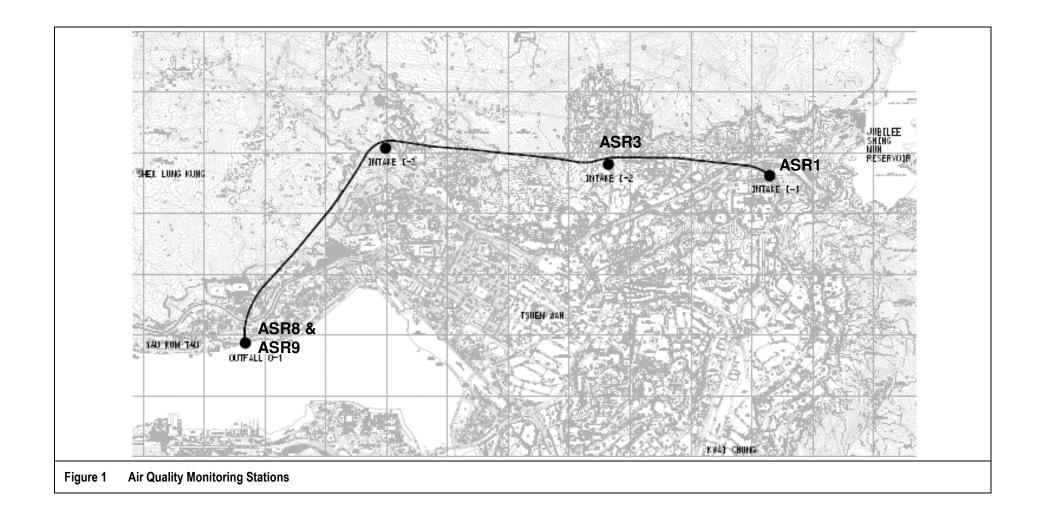
ALS Technichem (HK) Pty Ltd **ALS Environmental**

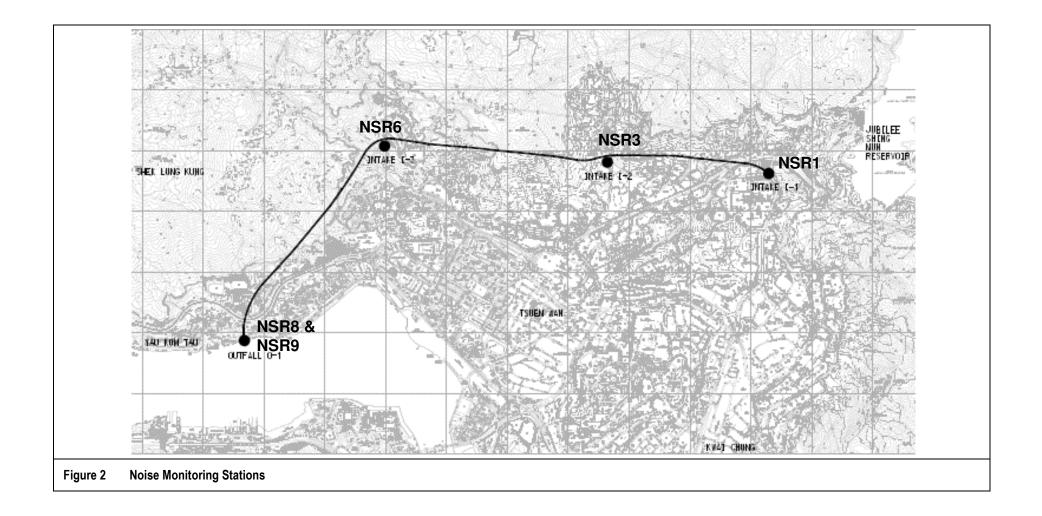


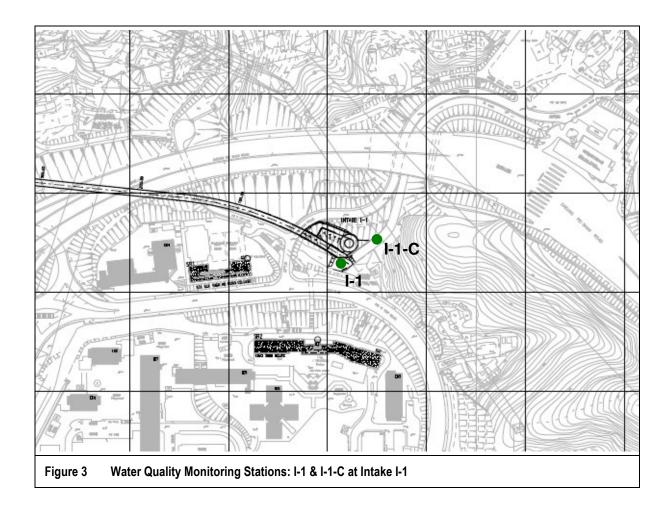


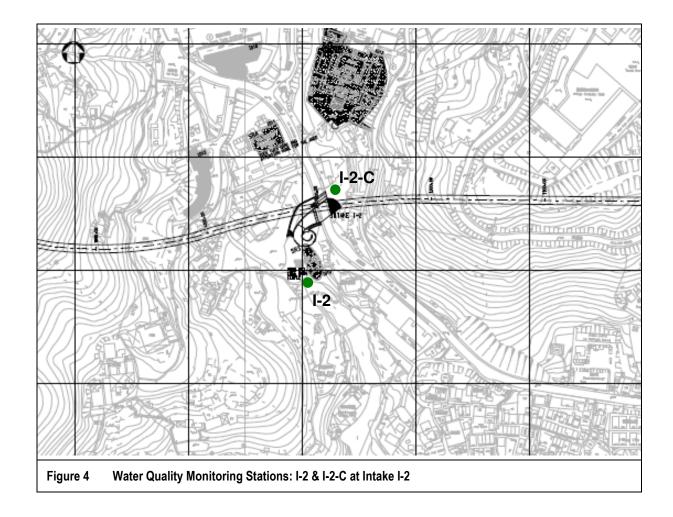
Appendix G

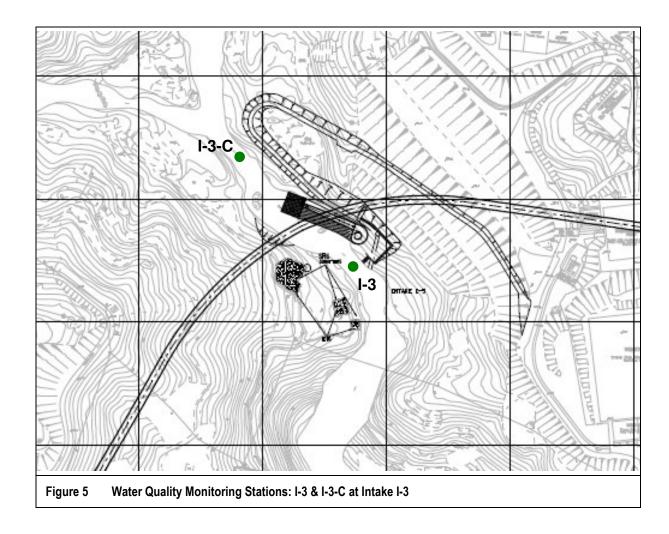
Monitoring Locations

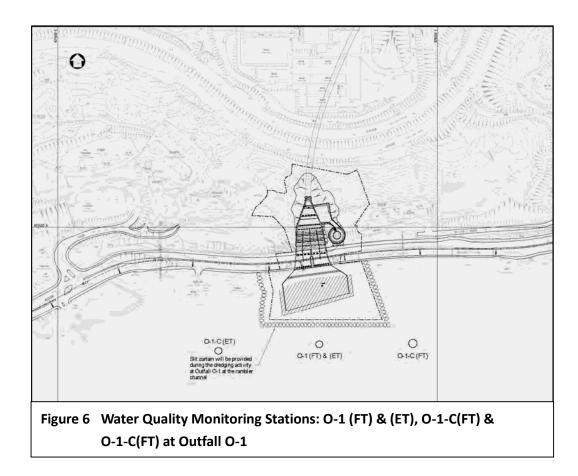














Appendix H

EM&A Schedule

Contract No. DC/2007/12 - Design and Construction of **Tsuen Wan Drainage Tunnel** Impact Monitoring Programme – December 2010

Date		Air	Noise	Water
01-Dec-10	Wed	✓	✓	√
02-Dec-10	Thu			
03-Dec-10	Fri			✓
04-Dec-10	Sat			
05-Dec-10	Sun			
06-Dec-10	Mon			\checkmark
07-Dec-10	Tue	\checkmark	✓	
08-Dec-10	Wed			\checkmark
09-Dec-10	Thu			
10-Dec-10	Fri			\checkmark
11-Dec-10	Sat			
12-Dec-10	Sun			
13-Dec-10	Mon	✓	✓	√
14-Dec-10	Tue			
15-Dec-10	Wed			\checkmark
16-Dec-10	Thu			
17-Dec-10	Fri	\checkmark		\checkmark
18-Dec-10	Sat			
19-Dec-10	Sun			
20-Dec-10	Mon			\checkmark
21-Dec-10	Tue			
22-Dec-10	Wed			\checkmark
23-Dec-10	Thu	\checkmark	✓	
24-Dec-10	Fri			\checkmark
25-Dec-10	Sat			
26-Dec-10	Sun			
27-Dec-10	Mon			
28-Dec-10	Tue			
29-Dec-10	Wed	\checkmark	\checkmark	\checkmark
30-Dec-10	Thu			
31-Dec-10	Fri			\checkmark

Note:

Shaded area indicates public holiday. Air – Monitoring 1-hour TSP is undertaken three times per every six days

Noise – Noise measurements is undertaken once every week at (0700-1900 Monday to Saturday) Water – Water measurements is undertaken three times per week

k:\eb000364 tsuen wan drainage tunnel\f-reports\monitoring schedule\monitoring_schedule dec10-mar11.docx

Contract No. DC/2007/12 - Design and Construction of **Tsuen Wan Drainage Tunnel** Impact Monitoring Programme – January 11 (Tentative)

Date		Air	Noise	Water
01-Jan-11	Sat			
02-Jan-11	Sun			
03-Jan-11	Mon			✓
04-Jan-11	Tue	✓	✓	
05-Jan-11	Wed			✓
06-Jan-11	Thu			
07-Jan-11	Fri			✓
08-Jan-11	Sat			
09-Jan-11	Sun			
10-Jan-11	Mon	√	✓	✓
11-Jan-11	Tue			
12-Jan-11	Wed			✓
13-Jan-11	Thu			
14-Jan-11	Fri	\checkmark		✓
15-Jan-11	Sat			
16-Jan-11	Sun			
17-Jan-11	Mon			✓
18-Jan-11	Tue			
19-Jan-11	Wed			\checkmark
20-Jan-11	Thu	\checkmark	\checkmark	
21-Jan-11	Fri			\checkmark
22-Jan-11	Sat			
23-Jan-11	Sun			
24-Jan-11	Mon			\checkmark
25-Jan-11	Tue			
26-Jan-11	Wed	\checkmark	✓	\checkmark
27-Jan-11	Thu			
28-Jan-11	Fri			\checkmark
29-Jan-11	Sat			
30-Jan-11	Sun			
31-Jan-11	Mon			\checkmark

Note:

Shaded area indicates public holiday. Air – Monitoring 1-hour TSP is undertaken three times per every six days

Noise – Noise measurements is undertaken once every week at (0700-1900 Monday to Saturday) Water – Water measurements is undertaken three times per week

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Contract No. DC/2007/12 – Design and Construction of Tsuen Wan Drainage Tunnel Impact Monitoring Programme – February 11 (Tentative)

Date		Air	Noise	Water
01-Feb-11	Tue	✓	✓	
02-Feb-11	Wed			✓
03-Feb-11	Thu			
04-Feb-11	Fri			
05-Feb-11	Sat			
06-Feb-11	Sun			
07-Feb-11	Mon	\checkmark	✓	✓
08-Feb-11	Tue			
09-Feb-11	Wed			\checkmark
10-Feb-11	Thu			
11-Feb-11	Fri	\checkmark		✓
12-Feb-11	Sat			
13-Feb-11	Sun			
14-Feb-11	Mon			\checkmark
15-Feb-11	Tue			
16-Feb-11	Wed			\checkmark
17-Feb-11	Thu	\checkmark	✓	
18-Feb-11	Fri			\checkmark
19-Feb-11	Sat			
20-Feb-11	Sun			
21-Feb-11	Mon			\checkmark
22-Feb-11	Tue			
23-Feb-11	Wed	\checkmark	✓	\checkmark
24-Feb-11	Thu			
25-Feb-11	Fri			✓
26-Feb-11	Sat			
27-Feb-11	Sun			
28-Feb-11	Mon			\checkmark

Note:

Shaded area indicates public holiday.

Air - Monitoring 1-hour TSP is undertaken three times per every six days

Noise - Noise measurements is undertaken once every week at (0700-1900 Monday to Saturday)

Water - Water measurements is undertaken three times per week

Contract No. DC/2007/12 - Design and Construction of **Tsuen Wan Drainage Tunnel** Impact Monitoring Programme – March 11 (Tentative)

Date	•	Air	Noise	Water
01-Mar-11	Tue	\checkmark	\checkmark	
02-Mar-11	Wed			\checkmark
03-Mar-11	Thu			
04-Mar-11	Fri			\checkmark
05-Mar-11	Sat			
06-Mar-11	Sun			
07-Mar-11	Mon	✓	✓	\checkmark
08-Mar-11	Tue			
09-Mar-11	Wed			\checkmark
10-Mar-11	Thu			
11-Mar-11	Fri	✓		\checkmark
12-Mar-11	Sat			
13-Mar-11	Sun			
14-Mar-11	Mon			✓
15-Mar-11	Tue			
16-Mar-11	Wed			\checkmark
17-Mar-11	Thu	✓	✓	
18-Mar-11	Fri			\checkmark
19-Mar-11	Sat			
20-Mar-11	Sun			
21-Mar-11	Mon			\checkmark
22-Mar-11	Tue			
23-Mar-11	Wed	\checkmark	✓	\checkmark
24-Mar-11	Thu			
25-Mar-11	Fri			✓
26-Mar-11	Sat			
27-Mar-11	Sun			
28-Mar-11	Mon			\checkmark
29-Mar-11	Tue	\checkmark	✓	
30-Mar-11	Wed			✓
31-Mar-11	Thu			

Note:

Shaded area indicates public holiday. Air – Monitoring 1-hour TSP is undertaken three times per every six days

Noise – Noise measurements is undertaken once every week at (0700-1900 Monday to Saturday) Water – Water measurements is undertaken three times per week

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Appendix I

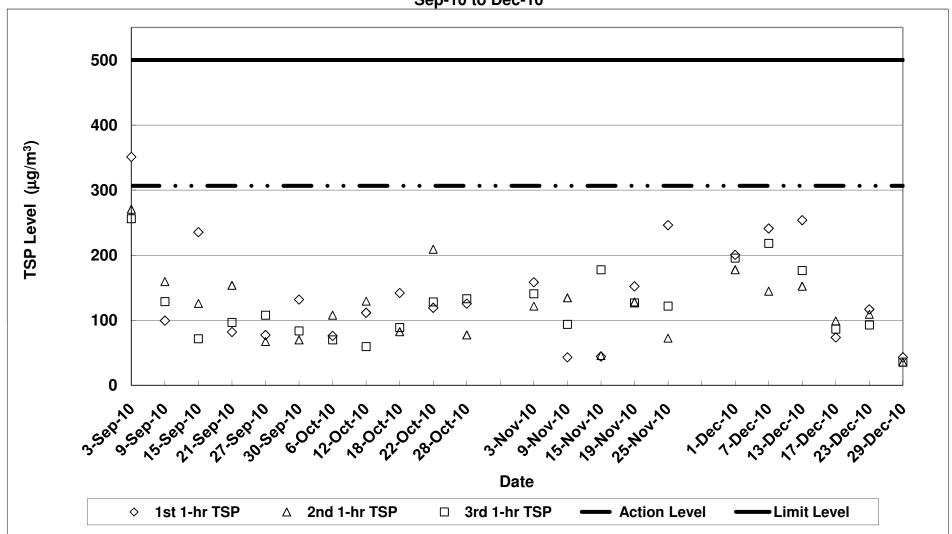
Monitoring Results

Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel

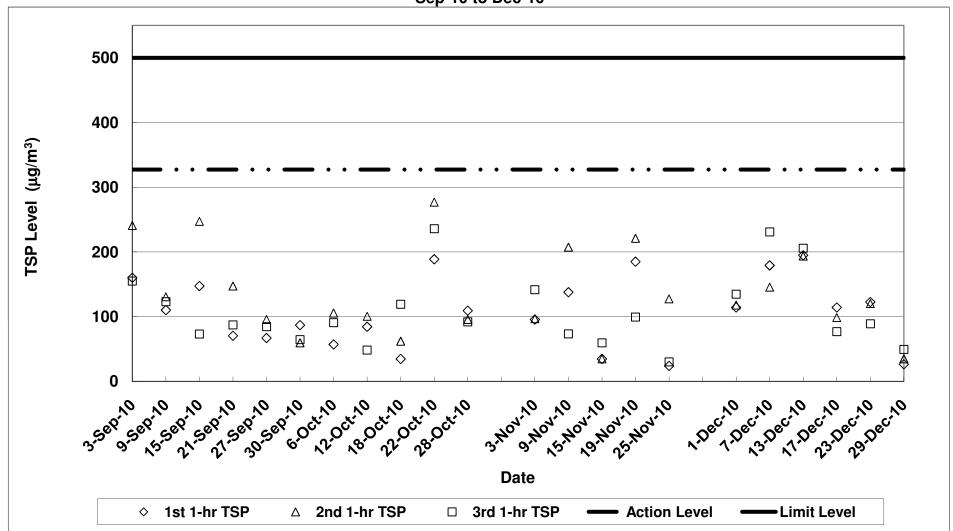
Air Quality Impact Monitoring Results (1-Hour TSP)

Location	Monitoring Date	Weather Conditions	Wind Speed with Direction (m/s)	Temp (°C)	Timer-I	Timer-F	Time (mins)	Flow-I (CFM)	Flow-F (CFM)	Flow-I (m ³ /min)	Flow-F (m ³ /min)	Flow-avg (m ³ /min)	Volume (m³)	Weight-I (g)	Weight-f (g)	Weight-diff. (g)	1-hr TSP (µg/m³)	Average 1-Hr TSP (µg/m ³)	Action/Limit Levels (ug/m ³)	Observation / Site Condition	Remark
		Sunny	0.3E	22	604942	605042	60.0	40	40	1.31	1.31	1.31	78.79	2.7810	2.7968	0.0158	200.5		(J-5)		
	01-Dec-10	Sunny Sunny	0.3E	22	605042 605142	605142 605242	60.0 60.0	40 40	40 40	1.31	1.31	1.31	78.79 78.79	2.7724 2.7918	2.7864 2.8072	0.0140	177.7	191.2		Crane operation	Traffic
	07.0 10	Misty	1.5N	20	605242	605342	60.0	40	40	1.31	1.31	1.31	78.79	2.7610	2.7800	0.0190	241.1				T 10
	07-Dec-10	Misty	1.5N 1.5N	20 20	605342 605442	605442 605542	60.0 60.0	40 40	40 40	1.31	1.31	1.31	78.79 78.79	2.7805	2.7919 2.7892	0.0114 0.0172	144.7 218.3	201.4		Steel bending	Traffic
	13-Dec-10	Cloudy	0.3E	21	605542	605642	60.0	40	40	1.31	1.31	1.31	78.79	2.8164	2.8364	0.0200	253.8	194.2			Traffic
Sik Sik Yuen Ho Fung	13-Dec-10	Cloudy Cloudy	0.3E 0.3E	21 21	605642 605742	605742 605842	60.0 60.0	40 40	40 40	1.31	1.31	1.31	78.79	2.8168	2.8288 2.8304	0.0120 0.0139	152.3	194.2		Crane operation	I ramic
College - Intake (ASR1)	17-Dec-10	Fine	0.5N	13	605842	605942	60.0	40	40	1.31	1.31	1.31	78.79	2.8030	2.8088	0.0058	73.6		306.6/500	_	Traffic
	17-Dec-10	Fine	0.5N 0.5N	13	605942 606042	606042 606142	60.0 60.0	40	40	1.31	1.31	1.31	78.79 78.79	2.8060	2.8138	0.0078	99.0 86.3	86.3		Crane operation	I rattic
		Sunny	0.3N	20	606142	606242	60.0	40	40	1.31	1.31	1.31	78.79	2.8065	2.8157	0.0092	116.8	100.0			T 10
	23-Dec-10	Sunny Sunny	0.3N 0.3N	20 20	606242 606342	606342 606442	60.0 60.0	40 40	40 40	1.31	1.31	1.31	78.79 78.79	2.8024 2.8016	2.8110 2.8089	0.0086	109.1 92.6	106.2		Crane operation	Traffic
	00 Dec 10	Sunny	0.3E	19	606442	606542	60.0	40	40	1.31	1.31	1.31	78.79	2.8244	2.8278	0.0034	43.2	00.4		C	T#-
	29-Dec-10	Sunny Sunny	0.3E 0.3E	19 19	606542 606642	606642 606742	60.0 60.0	40 40	40 40	1.31	1.31	1.31	78.79 78.79	2.8896	2.8924 2.8077	0.0028	35.5 35.5	38.1		Crane operation	Traffic
		Sunny	0.3E	22	573490	573590	60.0	40	40	1.39	1.39	1.39	83.14	2.8020	2.8115	0.0095	114.3	100.0			T 10
	01-Dec-10	Sunny Sunny	0.3E 0.3E	22 22	573590 573690	573690 573790	60.0 60.0	40 40	40 40	1.39	1.39	1.39	83.14 83.14	2.7710 2.7775	2.7808 2.7887	0.0098 0.0112	117.9 134.7	122.3		Drilling and crane operation	Traffic
	07-Dec-10	Misty	1.5N	20	573790	573890	60.0	40	40	1.39	1.39	1.39	83.14	2.7915	2.8064	0.0149	179.2	185.2		Drilling	Traffic
	07-Dec-10	Misty	1.5N 1.5N	20	573890 573990	573990 574090	60.0 60.0	40	40	1.39	1.39	1.39	83.14 83.14	2.7845	2.7966	0.0121 0.0192	145.5 230.9	185.2		Drilling	I rattic
		Cloudy	0.3N	21	574090	574190	60.0	40	40	1.39	1.39	1.39	83.14	2.8189	2.8351	0.0162	194.8				
Hong Hoi Chee Hong	13-Dec-10	Cloudy Cloudy	0.3N 0.3N	21	574190 574290	574290 574390	60.0	40	40 40	1.39	1.39	1.39	83.14 83.14	2.8228	2.8389	0.0161	193.6	198.1		Drilling	Traffic
Temple - Intake (ASR3)		Fine	0.3N	13	574390	574490	60.0	40	40	1.39	1.39	1.39	83.14	2.8115	2.8210	0.0095	114.3		327.4/500		
	17-Dec-10	Fine Fine	0.3N 0.3N	13 13	574490 574590	574590 574690	60.0 60.0	40 40	40 40	1.39	1.39	1.39	83.14 83.14	2.8118 2.7975	2.8200 2.8039	0.0082	98.6 77.0	96.6		Drilling and crane operation	Traffic
		Sunny	0.3N	20	574690	574790	60.0	40	40	1.39	1.39	1.39	83.14	2.8035	2.8137	0.0102	122.7				1
	23-Dec-10	Sunny Sunny	0.3N 0.3N	20	574790 574890	574890 574990	60.0	40	40	1.39	1.39	1.39	83.14 83.14	2.8083	2.8183	0.0100	120.3	110.7		Drilling	Traffic
		Sunny	0.3N	19	574990	575090	60.0	40	40	1.39	1.39	1.39	83.14	2.8476	2.8498	0.0022	26.5				
	29-Dec-10	Sunny	0.3E	19	575090 575190	575190 575290	60.0	40	40	1.39	1.39	1.39	83.14 83.14	2.8883	2.8912	0.0029	34.9 49.3	36.9		Excavation workd	Traffic
		Sunny	0.8E	22	567634	567734	60.0	40	40	1.39	1.39	1.39	75.62	2.7805	2.8946	0.0153	49.3				
	01-Dec-10	Sunny Sunny	0.8E	22 22	567734 567834	567834 567934	60.0 60.0	40 40	40 40	1.26	1.26	1.26	75.62 75.62	2.7692 2.7645	2.7842 2.7817	0.0150 0.0172	198.4 227.4	209.4		Dredging and breaker	Traffic.
		Misty	0.8E 3.0N	22	567934	568034	60.0	40	40	1.26	1.26	1.26	75.62	2.7645	2.7817 2.8014	0.0172	190.4				
	07-Dec-10	Misty	3.0N	20	568034	568134	60.0	40	40	1.26	1.26	1.26	75.62	2.7875	2.8002	0.0127	167.9	197.9		Breaker and crane operation	Traffic
		Misty Cloudy	3.0N 0.5N	20	568134 568234	568234 568334	60.0 60.0	40 40	40 40	1.26	1.26	1.26	75.62 75.62	2.7624	2.7802 2.7870	0.0178 0.0083	235.4 109.8				
	13-Dec-10	Cloudy	0.5N	21	568334	568434	60.0	40	40	1.26	1.26	1.26	75.62	2.7745	2.7894	0.0149	197.0	167.9		Crane operation and excavation works	Traffic
Long Beach Gardens - Outfall (ASR8)		Cloudy Fine	0.5N 0.8N	21 13	568434 568534	568534 568634	60.0 60.0	40 40	40 40	1.26	1.26	1.26	75.62 75.62	2.7786	2.7935 2.8194	0.0149 0.0109	197.0 144.1		336.6/500		
	17-Dec-10	Fine	0.8N	13	568634	568734	60.0	40	40	1.26	1.26	1.26	75.62	2.8057	2.8121	0.0064	84.6	122.5		Drilling and crane operation	Traffic
		Fine Sunny	0.8N 0.3N	13 20	568734 568834	568834 568934	60.0 60.0	40	40	1.26	1.26	1.26	75.62	2.8126 2.7972	2.8231	0.0105	138.8 153.4				
	23-Dec-10	Sunny	0.3N	20	568934	569034	60.0	40	40	1.26	1.26	1.26	75.62	2.8034	2.8141	0.0107	141.5	140.2		Crane operation and breaker	Traffic
		Sunny Sunny	0.3N 0.5E	20	569034 569134	569134 569234	60.0	40	40	1.26	1.26	1.26	75.62 75.62	2.7923	2.8018 2.8337	0.0095	125.6 30.4				
	29-Dec-10	Sunny	0.5E	19	569234	569334	60.0	40	40	1.26	1.26	1.26	75.62	2.8972	2.9008	0.0036	47.6	90.8		Breaker and drilling	Traffic
		Sunny Sunny	0.5E 1.0E	19 22	569334 560380	569434 560480	60.0 60.0	40 40	40 40	1.26	1.26	1.26	75.62 73.68	2.9056	2.9203	0.0147 0.0123	194.4 166.9				
	01-Dec-10	Sunny	1.0E	22	560480	560580	60.0	40	40	1.23	1.23	1.23	73.68	2.7689	2.7851	0.0162	219.9	208.5		Dredging and breaker	Traffic.
		Sunny Misty	1.0E 3.5N	22 20	560580 560680	560680 560780	60.0 60.0	40 40	40 40	1.23	1.23	1.23	73.68 73.68	2.7602	2.7778 2.8100	0.0176	238.9 237.5				
	07-Dec-10	Misty	3.5N	20	560780	560880	60.0	40	40	1.23	1.23	1.23	73.68	2.7945	2.8089	0.0144	195.4	232.1		Breaker and crane operation	Traffic
		Misty Cloudy	3.5N 0.5N	20	560880 560980	560980 561080	60.0 60.0	40 40	40 40	1.23	1.23	1.23	73.68 73.68	2.7725	2.7919	0.0194	263.3 176.4				
	13-Dec-10	Cloudy	0.5N	21	561080	561180	60.0	40	40	1.23	1.23	1.23	73.68	2.7934	2.8093	0.0159	215.8	195.4		Crane opeation and excavation works	Traffic
Greenview Terrance - Outfall (ASR9)		Cloudy Fine	0.5N 0.8N	21	561180 561280	561280 561380	60.0 60.0	40 40	40 40	1.23	1.23	1.23	73.68 73.68	2.8113	2.8256 2.8198	0.0143	194.1 223.9		329.2/500		
Ganal (AGNS)	17-Dec-10	Fine	0.8N	13	561380	561380 561480	60.0 60.0	40	40	1.23	1.23	1.23	73.68	2.8033 2.7985	2.8072	0.0087	118.1	152.5		Drilling and crane operation	Traffic
		Fine	0.8N	13	561480 561580	561580 561680	60.0 60.0	40 40	40	1.23	1.23	1.23	73.68	2.8027	2.8112 2.8127	0.0085	115.4				
	23-Dec-10	Sunny Sunny	0.5N 0.5N	20 20	561580 561680	561680 561780	60.0	40	40 40	1.23	1.23	1.23	73.68 73.68	2.7966 2.8040	2.8127 2.8129	0.0161	218.5 120.8	132.5		Crane opeation and breaker	Traffic
		Sunny	0.5N	20	561780	561880	60.0	40	40	1.23	1.23	1.23	73.68	2.8618	2.8661	0.0043	58.4				
	29-Dec-10	Sunny Sunny	0.5E 0.5E	19 19	561890 561980	561980 562080	54.0 60.0	40 40	40 40	1.23	1.23	1.23	66.32 73.68	2.851 2.8464	2.8543 2.8587	0.0033	49.8 166.9	88.5		Breaker and drilling	Traffic
		Sunny	0.5E	19	562080	562180	60.0	40	40	1.23	1.23	1.23	73.68	2.8712	2.8748	0.0036	48.9				

Note: Italic font and yellow shaded indicates an exceedance of Action Level Relid font and red shaded area indicates an exceedance of Limit Level

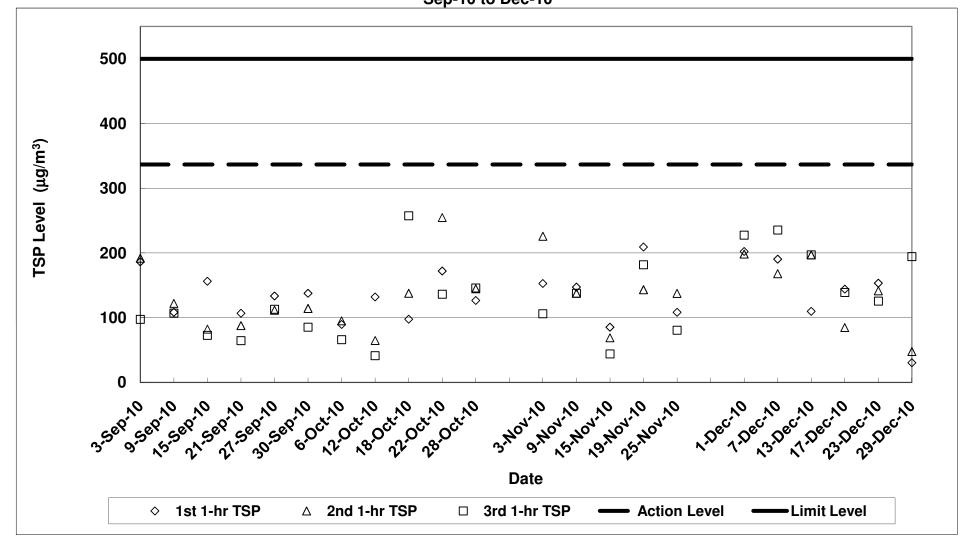


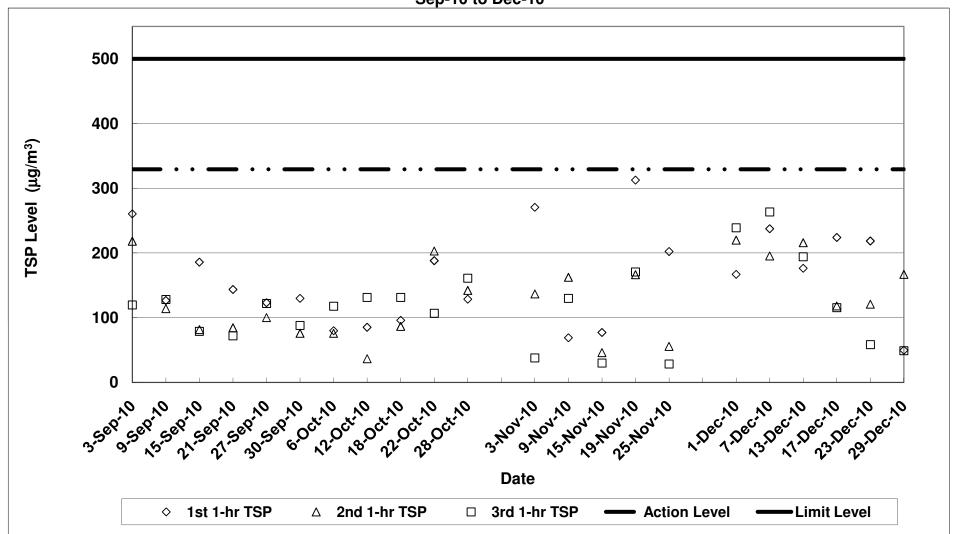
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Air Quality Monitoring (1-hr TSP) Results at Sik Sik Yuen Ho Fung College - Intake (ASR1) Sep-10 to Dec-10



Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Air Quality Monitoring (1-hr TSP) Results at Hong Hoi Chee Hong Temple - Intake (ASR3) Sep-10 to Dec-10

Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Air Quality Monitoring (1-hr TSP) Results at Long Beach Gardens - Outfall (ASR8) Sep-10 to Dec-10





Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Air Quality Monitoring (1-hr TSP) Results at Greenview Terrance - Outfall (ASR9) Sep-10 to Dec-10

Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel

Noise Impact Monitoring Results

Monitoring Locations	Date	Weather	Temperature	Wind Speed	Wind	Start Time	End Time	BL ¹	LL ²	L _{eq(30min)}	L _{10(30min)}	L _{90(30min)}	CNL ³	Observation /	Remark
		Conditions	(°C)	(m/s)	Direction			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Site Condition	
Sik Sik Yuen Ho Fung College	01-Dec-10	Sunny	22	0.3	E	16:50	17:20		70	64.2	67.0	59.3	-	Crane operation	Traffic noise and aircraft noise
NSR 1	07-Dec-10	Misty	20	1.5	N	14:02	14:32		65	63.8	66.2	59.4	-	Steel bending	Traffic noise
	13-Dec-10	Cloudy	21	0.3	N	16:09	16:39	66.1	65	63.4	65.8	58.8	-	Crane operation	Traffic noise
	23-Dec-10	Sunny	20	0.4	N	15:38	16:08		70	64.8	67.3	61.2	-	Crane operation	Traffic noise and aircraft noise
	29-Dec-10	Sunny	19	0.3	E	09:30	10:00		70	64.7	67.1	61.3	-	Crane operation	Traffic noise and aircraft noise
Hong Hoi Chee Hong Temple	01-Dec-10	Sunny	22	0.3	E	16:11	16:41		75	60.1	62.6	56.9		Drilling and crane operation	Traffic noise and aircraft noise
NSR 3	07-Dec-10	Misty	20	1.5	N	14:41	15:11		75	65.2	71.3	69.6	-	Drilling	Traffic noise
	13-Dec-10	Cloudy	21	0.3	N	11:00	11:30	57.9	75	70.5	71.6	66.1	-	Drilling	Traffic noise
	23-Dec-10	Sunny	20	0.3	N	14:50	15:20		75	61.5	64.1	57.8	-	Drilling	Traffic noise and aircraft noise
	29-Dec-10	Sunny	19	0.3	E	08:50	09:20		75	58.5	60.9	55.6	-	Excavation works	Traffic noise and aircraft noise
Squatters	01-Dec-10	Sunny	22	0.2	E	14:28	14:58		75	67.1	68.9	64.1	-	Breaker and excavation works	Aircraft noise
NSR 6	07-Dec-10	Misty	20	2	N	11:07	11:37		75	69.4	70.9	66.9	-	Breaker and excavation works	Nil
	13-Dec-10	Cloudy	21	0.3	N	08:55	09:25	61.2	75	61.8	63.8	57.4	-	Breaker and excavation works	Nil
	23-Dec-10	Sunny	20	0.5	Ν	09:55	10:25		75	64.4	66.3	60.3	-	Breaker and excavation works	Nil
	29-Dec-10	Sunny	19	0.5	E	10:30	11:00		75	64.6	66.6	59.9	-	Breaker and excavation works	Nil
Long Beach Gardens	01-Dec-10	Sunny	22	0.8	E	10:35	11:05		75	66.7	70.0	59.7	-	Dredging and breaker	Traffic noise and aircraft noise
NSR 8	07-Dec-10	Misty	20	3	Ν	10:20	10:50		75	67.8	70.5	61.7	-	Breaker and crane operation	Traffic noise
	13-Dec-10	Cloudy	21	0.5	Ν	14:10	14:40	60.9	75	62.1	63.8	59.7	-	Crane operation and excavation works	Traffic noise
	23-Dec-10	Sunny	20	0.3	N	11:12	11:42		75	63.6	65.3	60.5	-	Crane operation and breaker	Traffic noise
	29-Dec-10	Sunny	19	0.5	E	15:18	15:48		75	62.8	64.9	60.7	-	Breaker and drilling	Traffic noise
Greenview Terrace	01-Dec-10	Sunny	22	1.0	E	14:30	15:00		75	73.4	76.2	67.6	-	Breaker, backhoe and drilling	Traffic noise and aircraft noise
NSR 9	07-Dec-10	Misty	20	3.5	Ν	09:30	10:00		75	71.4	74.3	65.1	-	Breaker, backhoe and drilling	Traffic noise and aircraft noise
	09-Dec-10*	Fine	20	0.8	E	13:30	14:00		75	73.0	76.0	64.6	-	Breaker, backhoe and drilling rig	Traffic noise and aircraft noise
	13-Dec-10	Cloudy	21	0.5	Ν	11:00	11:30	59.7	75	68.6	71.3	63.9	-	Breaker	Traffic noise and aircraft noise
	15-Dec-10*	Cloudy	19	0.8	Ν	11:00	11:30		75	73.1	75.3	69.9	-	Breaker and backhoe	Traffic nosie and aircraft noise
	23-Dec-10	Sunny	20	0.3	Ν	14:30	15:00		75	71.0	73.8	67.2	-	Breaker, drilling and excavation works	Traffic noise and aircraft noise
	29-Dec-10	Sunny	19	0.3	E	11:20	11:50		75	72.4	74.9	69.3	-	Breaker and drilling	Traffic noise

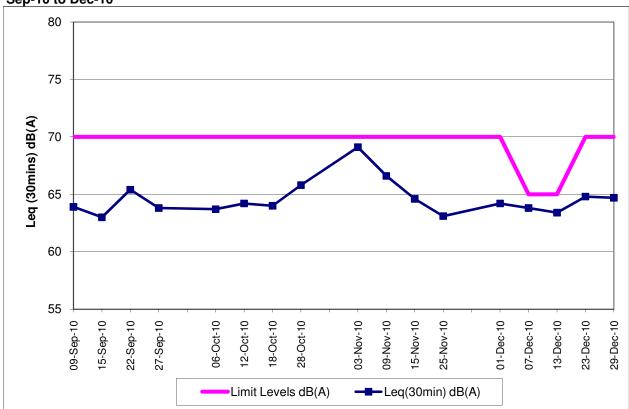
1: Baseline Noise Level 2: Limit Level 3: Corrected Noise Level

Note:

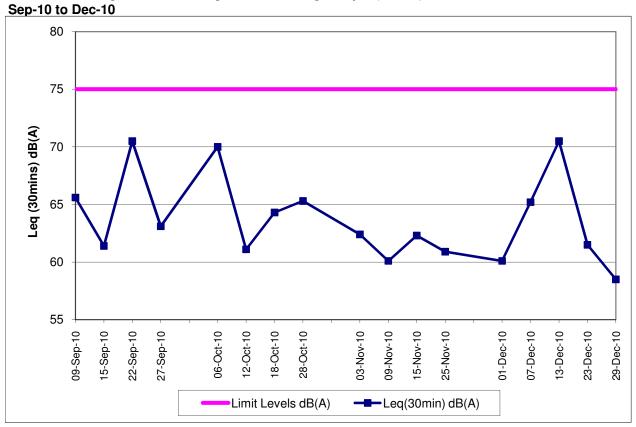
The limit level of NSR1 is 65dB(A) during school examination period. Red Bold indicates an exceedance of Limit Level

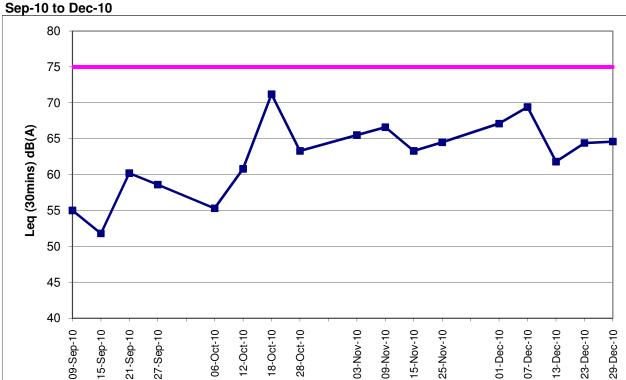
* means additional noise monitoring





Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Noise Monitoring Results at Hong Hoi Chee Hong Temple (NSR 3)



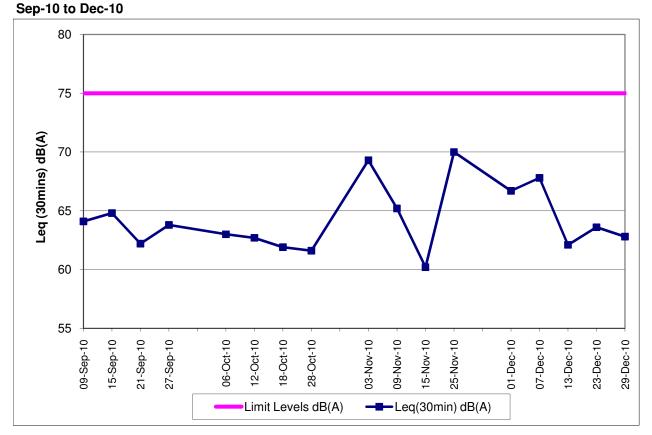


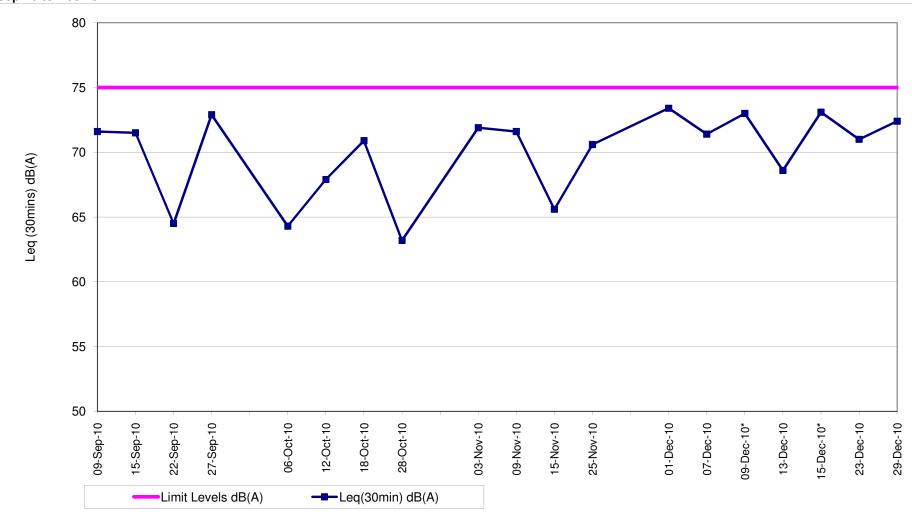
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Noise Monitoring Results at Squatters (NSR 6)

Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Noise Monitoring Results at Long Beach Gardens (NSR 8)

Leq(30min) dB(A)

Limit Levels dB(A)





Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Noise Monitoring Results at Greenview Terrace (NSR 9) Sep-10 to Dec-10

* Additional Noise Monitoring

Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel

Water Quality Impact Monitoring Results

| Image: Probability image: Pr
 | Monitoring Locations | Data Clast

 | t Weather | Water | Temp

 | 1 | DO/ma/l
 |) | ction/Limit | 1
 | 1 |
 | Turbidity(N
 | ITLD. | Action/Limit | 88 (m) | 5/1.)
 | Action/Limit | Remarks: | Action to be taken |
|---
---|----------------------------------
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---|--|---
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Number umber Number Num Number Number			
 | Monitoring Edications |

 | | | 1 2

 | Ava | 1 2
 | Ava Le
 | evel of DO(ma/L) | 1 | 2 | Ava 1
 | 2
 | Ava | Level of Tby | 1 2 | Ava
 | Level of SS(ma/L) | inditiands. | Action to be taken |
| 1 1 1 2
 | Sik Sik Yuen Ho Fund College | 01-Dec-10 15:35

 | 5 Sunny | - 4 |

 | |
 |
 | | | |

 | | | | |
 | | Crane operation | Nil |
|
 | L1 | 03-Dec-10 13:16

 | 6 Suppy | 1 | 22.70 22.70

 | 22.70 |
 |
 | | | 7.95 | 7.95 3.50

 | 2 3.43 | 3.48 | | |
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|
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 | | |

 | |
 |
 | | | 7.96 | 7.95 6.40

 | 0 637 | 6.39 | | |
 | | | Nil |
|
 | | 08 Doc 10 11:57

 | 7 Suppy | | 21 70 21 70

 | 21.70 | 7 20 7 24
 | 7.00
 | | | 7.00 | 7.00 5.00

 | 2 5.17 | 5.10 | | |
 | | | Nii |
|
 | 1 | 10-Dec-10 00-10

 | 0 Suppy | 1 |

 | |
 |
 | | | |

 | | | | |
 | | | Nil |
|
 | | 12 Doc 10 10:26

 | 5 Cloudy | |

 | |
 |
 | | 8.00 | 9.02 | 9.02 5.66

 | 6 5.54 | 5.60 | | |
 | | Crane eneration | Nil |
|
 | | 15-Dec-10 10:30

 | 4 Cloudy | 1 | 21.30 21.30

 | 21.30 | 7.00 7.12
 |
 | | 7.02 | 7.02 | 7.02 5.00

 | 4 6.62 | 6.50 | 0 | 20 2.30 | 2.75
 | | | Nil |
|
 | |

 | | |

 | |
 |
 | 3.42 / 3.34 | 7.30 | 9.00 | 0.00 0.0

 | 4 0.05 | 0.53 | | |
 | 8.85 / 10.17 | | NI |
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 | |
 |
 | | 8.06 | 9.05 | 8.05 2.07

 | 7 2 16 | 0.00 | | |
 | | Grane operation | Nii |
|
 | | 20-Dec-10 13.40

 | 5 Fille | |

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 |
 | | 8.03 | 0.00 | 0.03 3.01

 | 7 3.16 | 3.12 | | |
 | | | NI |
| Image: Provinge: Provin
 | | 22-Dec-10 11:35

 | 5 Sunny | |

 | 21.55 | 7.01 6.92
 | 5.97 | | 8.14
 | 8.14 | 8.14 3.00
 | 2.96
 | 2.98 | 2 | 00 2.00 | 2.00
 | | | |
| Tay way way way way way way way way way w
 | | 24-Dec-10 11.27

 | 7 Cloudy | <1 | 10.00 10.00

 | 20.10 |
 |
 | | 8.09 | 0.09 | 0.09 4.3

 | 6 0.40 | 4.39 | | |
 | | | NI |
| Tay way way way way way way way way way w
 | | 29-Dec-10 09:55

 | 5 Sunny | |

 | |
 |
 | | 8.91 | 8.90 | 8.91 2.3t

 | 6 2.42 | 2.39 | | |
 | | | |
| 11 11 12 13
 | | 31-Dec-10 11:3/

 | 7 Sunny | <1 | 18.80 18.80

 | 18.80 | 7.33 7.31
 | 1.32
 | | 8.09 | 8.09 | 8.09 3.30

 | 0 3.15 | 3.23 | 2 | 00 2.00 | 2.00
 | | Grane operation | N |
| 11 11 12 13
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 | 7.25
 | | 7.90 | 7.90 | 7.90 3.3

 | 7 3.46 | 3.42 | 2 | 00 2.40 | 2.20
 | | Ni | NI |
|
 | I-1-G | 03-Dec-10 13:05

 | 5 Sunny | <1 | 22.50 22.50

 | 22.50 |
 |
 | | | 7.96 | 7.96 3.60

 | 0 3.74 | 3.67 | | 00 3.20 | 2.60
 | | Nil | Nil |
|
 | | 06-Dec-10 11:06

 | 6 Sunny | <1 |

 | |
 |
 | | 7.95 | 7.95 | 7.95 6.43

 | 3 6.52 | 6.48 | | |
 | | | NI |
|
 | | 08-Dec-10 11:48

 | 8 Sunny | <1 | 21.80 21.80

 | 21.80 | 7.35 7.38
 | 7.37
 | | 8.00 | 8.01 | 8.01 5.18

 | 8 5.23 | 5.21 | 3 | 50 4.10 | 3.80
 | | Nil | Nil |
|
 | | 10-Dec-10 09:00

 | 0 Sunny | <1 | 21.50 21.50

 | 21.50 | 7.34 7.37
 | 7.36
 | | 8.07 | 8.06 | 8.07 4.77

 | 7 4.86 | 4.82 | 2 | 70 4.90 | 3.80
 | | Nil | Nil |
| New Participant New Partic
 | | 13-Dec-10 10:22

 | 2 Cloudy | <1 | 21.20 21.20

 | 21.20 | 7.18 7.23
 | 7.21 | | 8.03
 | 8.03 | 8.03 5.77
 | 7 5.86
 | 5.82 | 5 | 20 5.20 | 5.20
 | | Nil | Nil |
|
 | | 15-Dec-10 10:35

 | 5 Cloudy | |

 | 21.00 | 7.30 7.37
 | 7.34
 | - /- | 7.95 | 7.96 | 7.96 6.89

 | 9 6.72 | 6.81 | | |
 | - /- | Nil | Nil |
|
 | 1 |

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 | , | 8.10 | 8.10 | 8.10 6.86

 | 6 6.74 | 6.80 | 2 | |
 | , | Nil | Nil |
| Physe Physe <th< td=""><td>1</td><td>20-Dec-10 13:33</td><td>3 Fine</td><td><1</td><td></td><td></td><td></td><td></td><td></td><td>8.03</td><td>8.03</td><td>8.03 3.18</td><td>8 3.27</td><td>3.23</td><td></td><td>60 2.00</td><td>2.30</td><td></td><td>Nil</td><td>Nil</td></th<>
 | 1 | 20-Dec-10 13:33

 | 3 Fine | <1 |

 | |
 |
 | | 8.03 | 8.03 | 8.03 3.18
 | 8 3.27
 | 3.23 | | 60 2.00 | 2.30
 | | Nil | Nil |
| New Original Processes No. o. No. No. <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8.14</td> <td>8.15</td> <td>8.15 3.05</td> <td>5 3.18</td> <td>3.12</td> <td></td> <td></td> <td></td> <td></td> <td>Nil</td> <td>Nil</td>
 | 1 |

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 |
 | | 8.14 | 8.15 | 8.15 3.05
 | 5 3.18
 | 3.12 | | |
 | | Nil | Nil |
| New Original Processes No. o. No. No. <td>1</td> <td>24-Dec-10 11:18</td> <td>8 Cloudy</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8.10</td> <td>8.10</td> <td>8.10 4.40</td> <td>0 4.52</td> <td>4.46</td> <td></td> <td></td> <td></td> <td></td> <td>Nil</td> <td>Nil</td>
 | 1 | 24-Dec-10 11:18

 | 8 Cloudy | |

 | |
 |
 | | 8.10 | 8.10 | 8.10 4.40
 | 0 4.52
 | 4.46 | | |
 | | Nil | Nil |
| New Original Processes No. o. No. No. <td>1</td> <td>29-Dec-10 09:42</td> <td>2 Sunny</td> <td><1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8.90</td> <td>8.90</td> <td>8.90 2.40</td> <td>0 2.56</td> <td>2.48</td> <td>2</td> <td>00 2.00</td> <td>2.00</td> <td></td> <td>Nil</td> <td>Nil</td>
 | 1 | 29-Dec-10 09:42

 | 2 Sunny | <1 |

 | |
 |
 | | 8.90 | 8.90 | 8.90 2.40
 | 0 2.56
 | 2.48 | 2 | 00 2.00 | 2.00
 | | Nil | Nil |
| New Original Processes No. o. No. No. <td>1</td> <td>31-Dec-10 11:26</td> <td>6 Sunny</td> <td><1</td> <td>18.80 18.80</td> <td>18.80</td> <td>7.25 7.23</td> <td>7.24</td> <td></td> <td>8.10</td> <td>8.10</td> <td>8.10 3.18</td> <td>8 3.26</td> <td>3.22</td> <td>2</td> <td>00 2.00</td> <td>2.00</td> <td></td> <td>Nil</td> <td>Nil</td>
 | 1 | 31-Dec-10 11:26

 | 6 Sunny | <1 | 18.80 18.80

 | 18.80 | 7.25 7.23
 | 7.24
 | | 8.10 | 8.10 | 8.10 3.18
 | 8 3.26
 | 3.22 | 2 | 00 2.00 | 2.00
 | | Nil | Nil |
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|
 | Hong Hoi Chee Hong Temple | 01-Dec-10 16:05

 | 5 Sunny | <1 | 23.40 23.40

 | |
 |
 | | 7.96 | 7.95 | 7.96 1.50

 | 0 1.57 | 1.54 | 2 | 00 2.00 | 2.00
 | | Crane operation and drilling | Nil |
|
 | 1-2 | 03-Dec-10 11:47

 | 7 Sunny | <1 |

 | |
 |
 | | 7.90 | 7.91 | 7.91 1.66

 | 6 1.74 | 1.70 | | | 2.00
 | | Concrete works | Nil |
| No. 0 No. 0 <th< td=""><td>1</td><td>06-Dec-10 10:50</td><td>0 Sunnv</td><td><1</td><td>24.90 24.90</td><td>24.90</td><td>6.74 6.82</td><td>6.78</td><td></td><td>7.96</td><td>7.97</td><td>7.97 1.84</td><td>4 1.88</td><td>1.86</td><td>3</td><td>70 2.70</td><td>3.20</td><td></td><td></td><td>Nil</td></th<>
 | 1 | 06-Dec-10 10:50

 | 0 Sunnv | <1 | 24.90 24.90

 | 24.90 | 6.74 6.82
 | 6.78
 | | 7.96 | 7.97 | 7.97 1.84
 | 4 1.88
 | 1.86 | 3 | 70 2.70 | 3.20
 | | | Nil |
| Name Name <th< td=""><td></td><td></td><td></td><td><1</td><td>21.50 21.50</td><td>21.50</td><td>7 05 7 15</td><td>7 10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Nil</td></th<>
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 | | <1 | 21.50 21.50

 | 21.50 | 7 05 7 15
 | 7 10
 | | | |
 |
 | | | |
 | | | Nil |
| No. 0 No. 0 <th< td=""><td></td><td>10-Dec-10 09:45</td><td></td><td><1</td><td>21.50 21.40</td><td>21.45</td><td>6.88 6.94</td><td>6.91</td><td></td><td>8.03</td><td>8.03</td><td>8.03 1.35</td><td>5 1.28</td><td>1.32</td><td>2</td><td>00 2.00</td><td></td><td></td><td></td><td>NI</td></th<>
 | | 10-Dec-10 09:45

 | | <1 | 21.50 21.40

 | 21.45 | 6.88 6.94
 | 6.91
 | | 8.03 | 8.03 | 8.03 1.35
 | 5 1.28
 | 1.32 | 2 | 00 2.00 |
 | | | NI |
| NAME NAME <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>8.01</td><td>8.01</td><td>8.01 1.66</td><td>6 1 74</td><td>1.70</td><td></td><td></td><td></td><td></td><td></td><td>Nil</td></th<>
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 | | 8.01 | 8.01 | 8.01 1.66
 | 6 1 74
 | 1.70 | | |
 | | | Nil |
| Provide Provide <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>7.96</td><td>7.96</td><td>7.96 2.40</td><td>0 2.36</td><td>2.38</td><td></td><td></td><td></td><td></td><td></td><td>Nil</td></t<>
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 | | 7.96 | 7.96 | 7.96 2.40
 | 0 2.36
 | 2.38 | | |
 | | | Nil |
| No. No. <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3.66 / 3.63</td> <td>8.04</td> <td>8.04</td> <td>8.04 1.80</td> <td>0 1.87</td> <td>1.84</td> <td>6.63 / 6.99</td> <td></td> <td></td> <td>7.68 / 8.34</td> <td></td> <td>Nil</td>
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 |
 | 3.66 / 3.63 | 8.04 | 8.04 | 8.04 1.80
 | 0 1.87
 | 1.84 | 6.63 / 6.99 | |
 | 7.68 / 8.34 | | Nil |
| Partial Partial <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>8.05</td><td>8.05</td><td>8.05 2.08</td><td>8 2 15</td><td>2.12</td><td></td><td></td><td></td><td></td><td></td><td>Nil</td></t<>
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 | | 8.05 | 8.05 | 8.05 2.08
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 | 9.15 | 9.15 | 9 15 1 0/
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 | 1 00 | | |
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| Image: Section of the sectin of the section of the section
 | | 24-Dec-10 10:56

 | 5 Cloudy | |

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 | | | 9.10
 | 9.10 | 9 10 1 60
 | 0 1.57
 | 1.55 | | |
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| Image: Section of the sectin of the section of the section
 | | 29-Dec-10 10.30

 | 0 Suppy | 1 | 19.00 19.00

 | 19.00 | 7.50 7.50
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 | 9.97 | 997 20
 | 7 2.06
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 | | 23-Dec-10 03.10

 | 5 Summy | |

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| Matrix
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 | 5 Suriny | <1 | 19.20 19.20

 | 19.20 | 7.41 7.40
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 | | 0.00 | 0.00 | 0.00 2.40
 | 0 2.30
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 | | Drining | INI |
| Matrix
 | Harry Hall Observations Treasals |

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| Matrix
 | Hong Hoi Cree Hong Temple | 01-Dec-10 15:55
02 Dec 10 11:35

 | 5 Sunny | < | 23.30 23.30

 | 23.30 |
 |
 | | 7.92 | 7.92 | 7.92 1.60
 | 0 1.54
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 | | NI | |
| New 1 100 0.00 0.0
 | 1-2-0 | 03-Dec-10 11:38

 | 8 Sunny | < |

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 | | NI | |
| Image: Mark
 | | 06-Dec-10 10:40

 | 0 Sunny | |

 | 25.20 | 6.86 6.83
 | 6.85
 | | 7.95 | 7.95 | 7.95 1.80
 | 0 1.90
 | 1.85 | | |
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| Image Image <t< td=""><td></td><td>08-Dec-10 11:10</td><td>0 Sunny</td><td><</td><td>21.80 21.80</td><td>21.80</td><td>7.17 7.21</td><td>7.19</td><td></td><td>8.00</td><td>8.01</td><td>8.01 1.80</td><td>0 1.92</td><td>1.86</td><td>2</td><td>00 2.00</td><td>2.00</td><td></td><td></td><td></td></t<>
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 | 0 Sunny | < | 21.80 21.80

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| Independence
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 | 3 Sunny | <1 |

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| Image: Normal sector Image: No
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 | | | 8.00
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 | 1.76 | 2 | 00 2.00 |
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| 1 100000 1 10000 1 10000 1 10000 1 10000 1 10000 1 10000 1 10000 1 10000 1 10000 1 10000 1 10000 1 10000 1 10000 1 10000 1 10000 1 10000 1 10000 1 100000 1 100000 1 100000
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 | 7 2.55 | 2.51 | | |
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| 2 105 Sump 4 105 100
 | | 17-Dec-10 11:25

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 | - /- | 8.06 | 0.00 |

 | | 1.02 | 2 | 2.00 |
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 | 1 Fine | <1 | 21.90 21.90

 | 21.90 | 7.34 7.29
 | 7.32
 | - /- | 8.06 | 8.06 | 8.06 2.15

 | 5 2.27 | 2.21 | 2 | 00 2.00 |
 | | Nil | Nil
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| Since Since <th< td=""><td></td><td>22-Dec-10 10:55</td><td>1 Fine
5 Sunny</td><td><1
<1</td><td>21.90 21.90
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21.30</td><td>7.34 7.29
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 | 1 Fine
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| Number Numer Numer Numer <td></td> <td>22-Dec-10 10:55
24-Dec-10 10:43</td> <td>1 Fine
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24-Dec-10 10:43

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 | | Nil
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8.88 | 8.06 2.15
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 | 5 2.27
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1.74
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2 | 00 2.00
20 3.90
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 | | Ni
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Nil
Nil
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 | 6 13 / 7 23 | Tender and excavation works
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 | 6.13 / 7.23 | Resker and excavation works
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| 29 Dec:10 10:56 Numy <1 18.00 18.00 7.40 7.50 7.40 7.50 7.60
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 | 6.13 / 7.23 | Resider and excavation works
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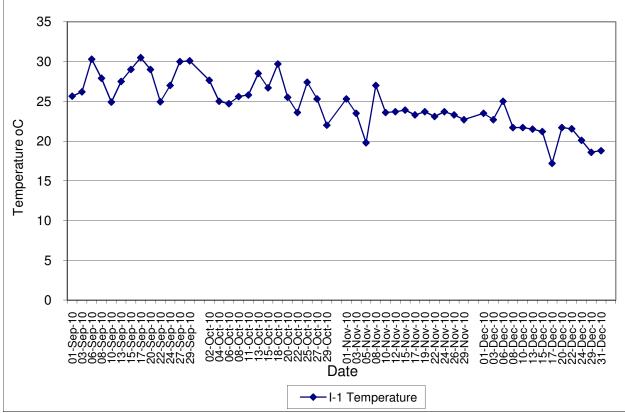
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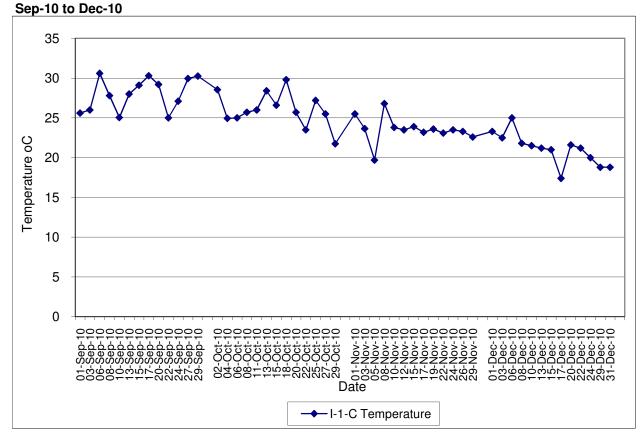
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2 | 00 2.00 00 2.00 20 3.94 20 2.04 00 2.00 00 | 3.55 3.55 2.10 2.10 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.20 2.20 2.20 2.20 2.20 2.00 2.20 2.00 2.20 2.00 2.20 2.00 2.200 2.00 2.200 2.00 2.200 2.00 2.200 2.00 2.200 2.00 2.200 2.00 2.200 2.00 2.200 2.00 2.200 2.00 2.200 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 | | Sealer and excavation works Erealer and excavation works Drilling and excavation works Erealer and Erealer and Erealer Erealer and Erealer Erealer and Erealer E | NI |

Note: Blue Italic indicates an exceedance of Action Level Red Bold indicates an exceedance of Limit Level

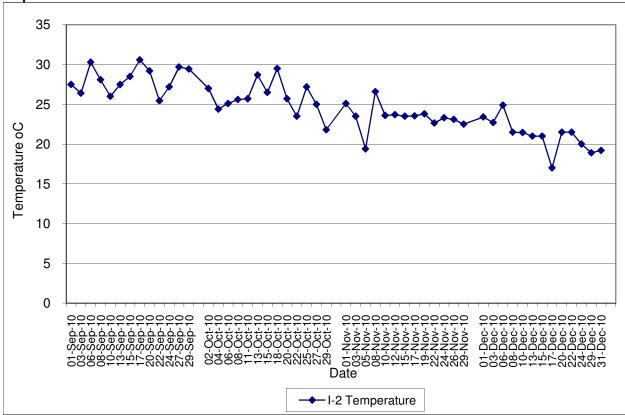
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1) Sep-10 to Dec-10



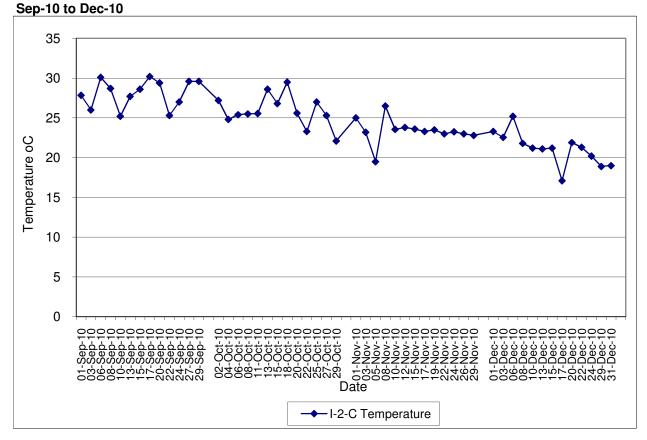
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1-C)



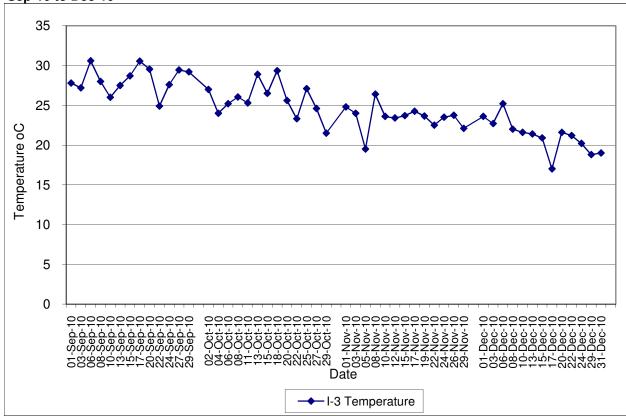
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2) Sep-10 to Dec-10



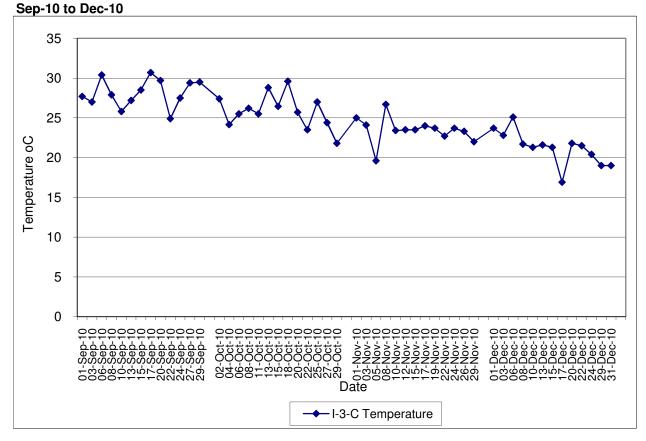
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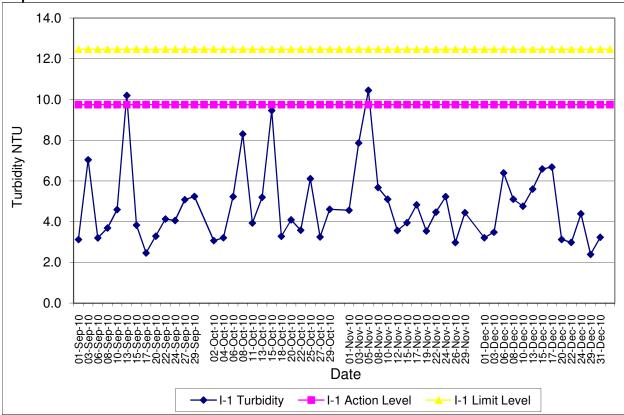
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3) Sep-10 to Dec-10



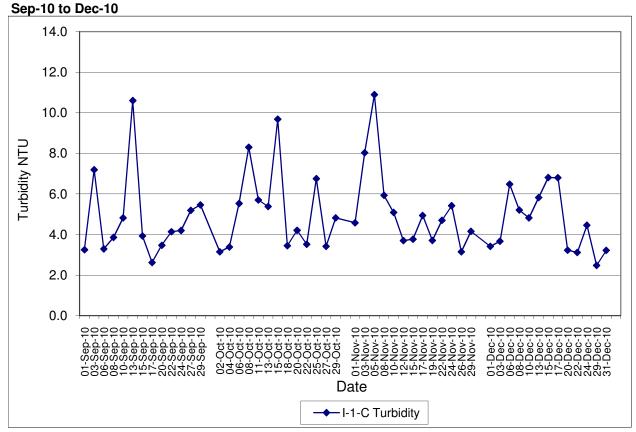
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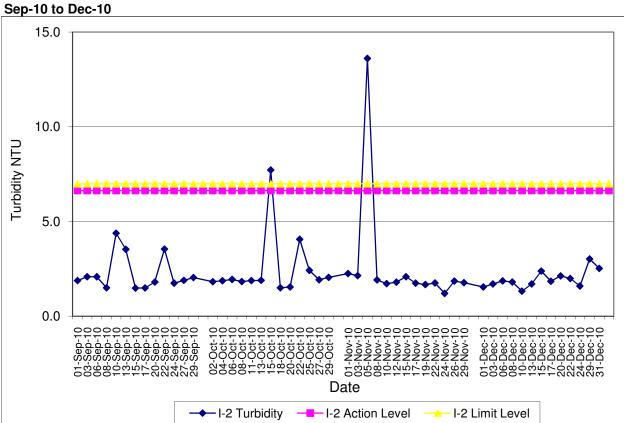






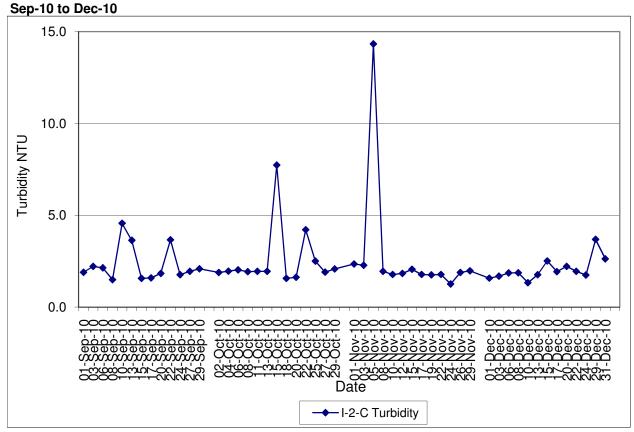
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1-C)

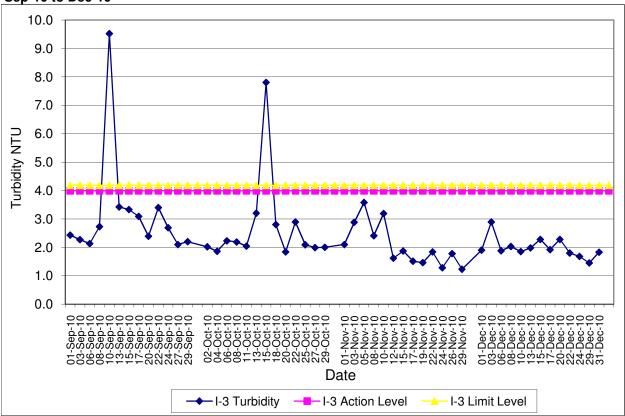




Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2)

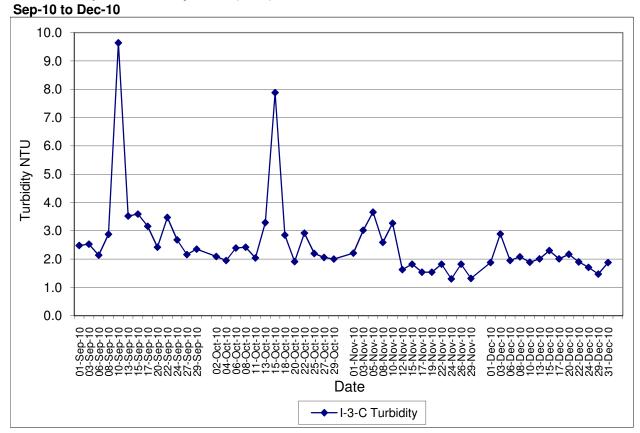
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2-C)



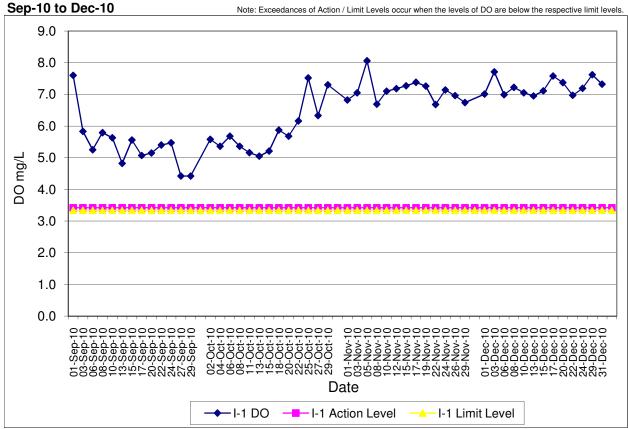


Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3) Sep-10 to Dec-10

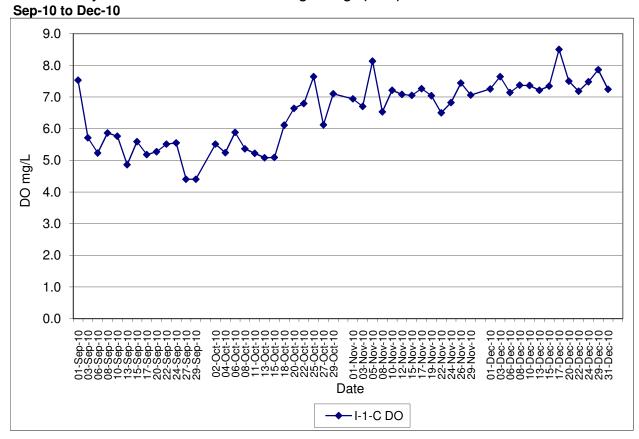
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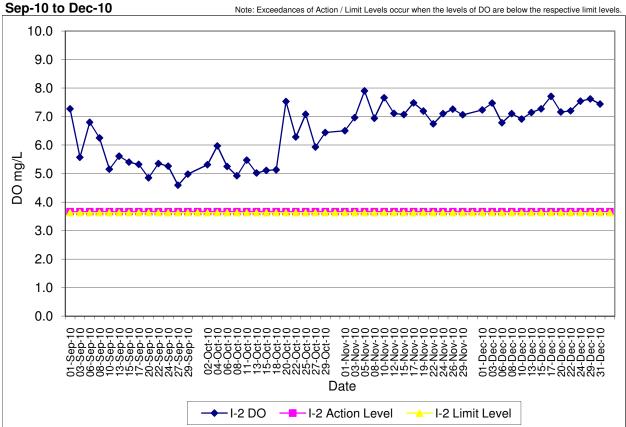
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1)



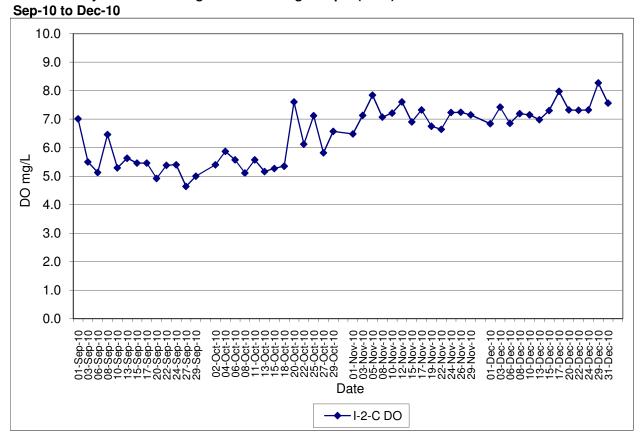
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1-C)



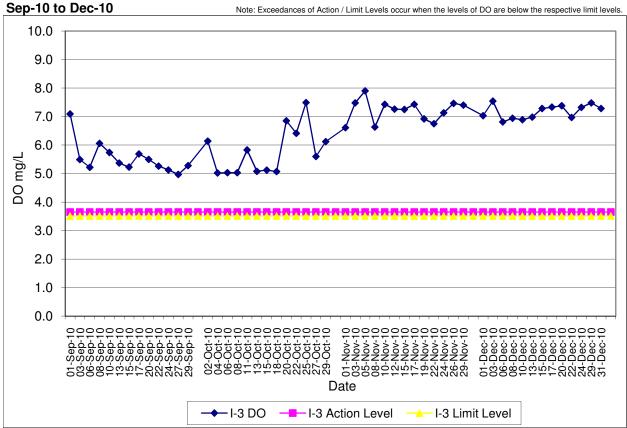
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2)



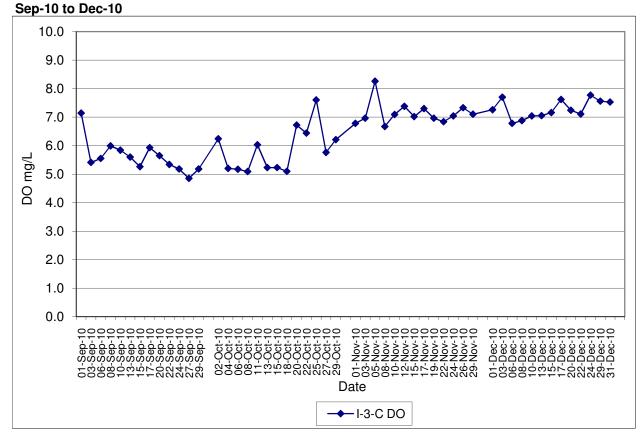
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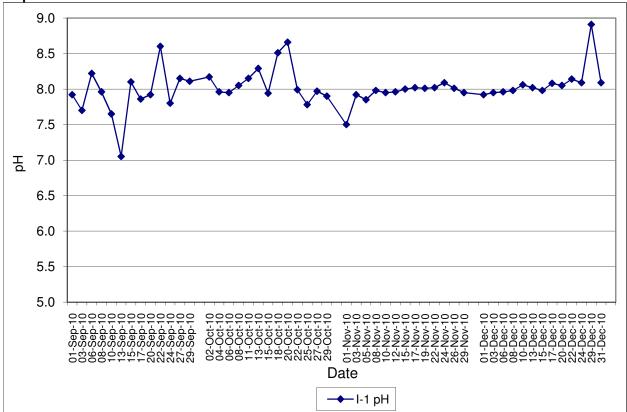
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3)



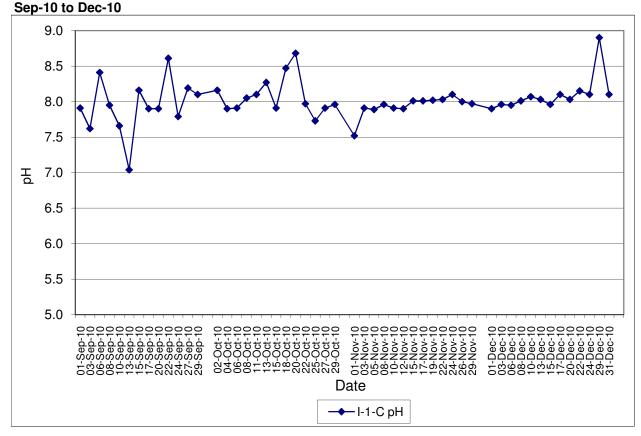
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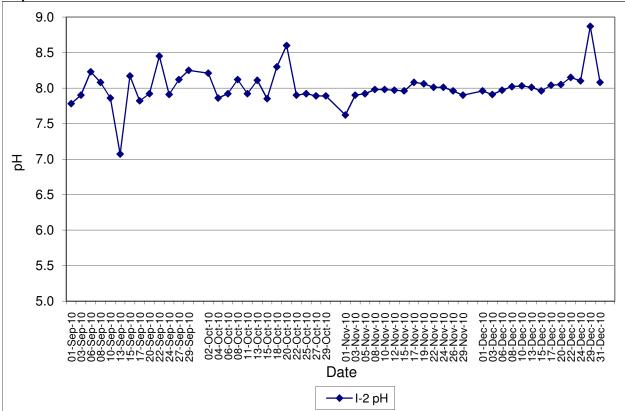




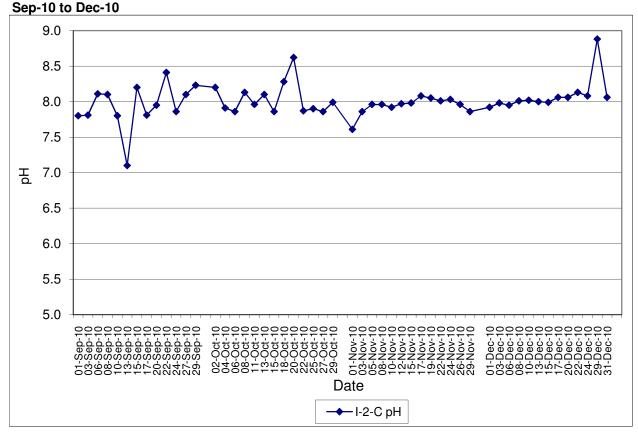
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1-C)

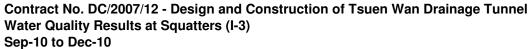


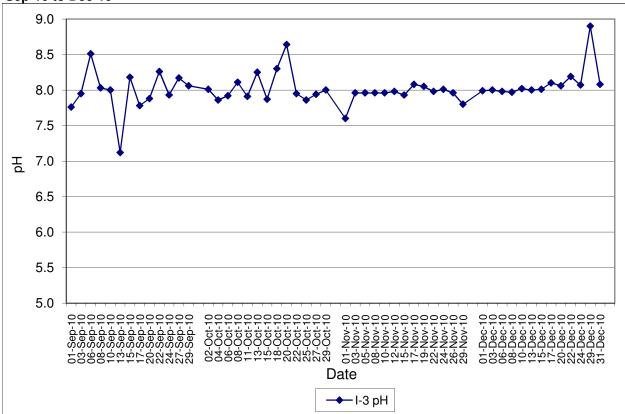




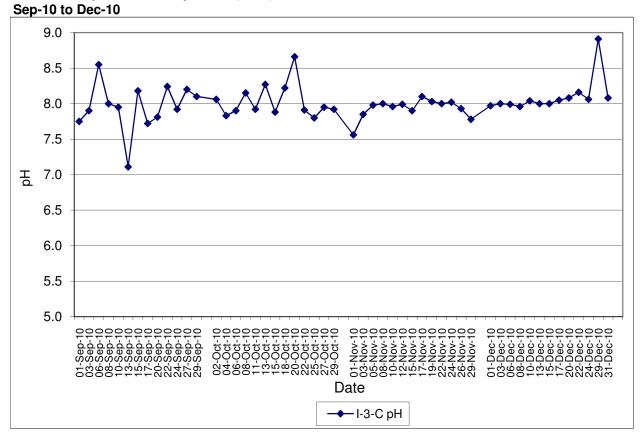
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2-C)

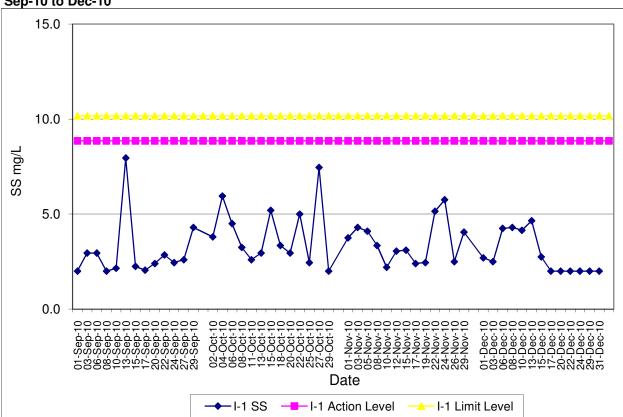






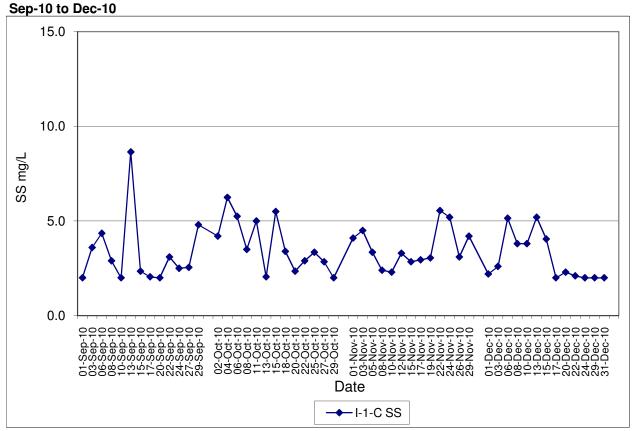
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3-C)

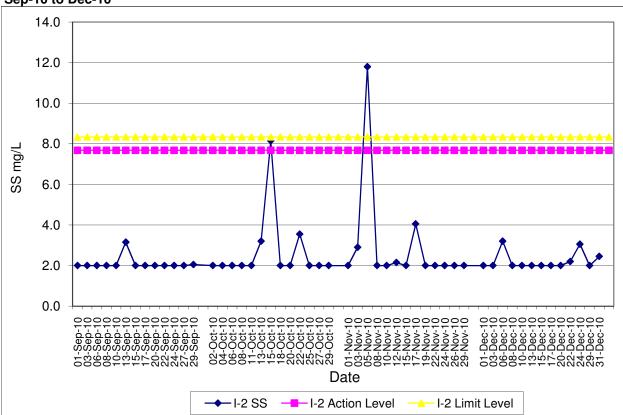




Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1) Sep-10 to Dec-10

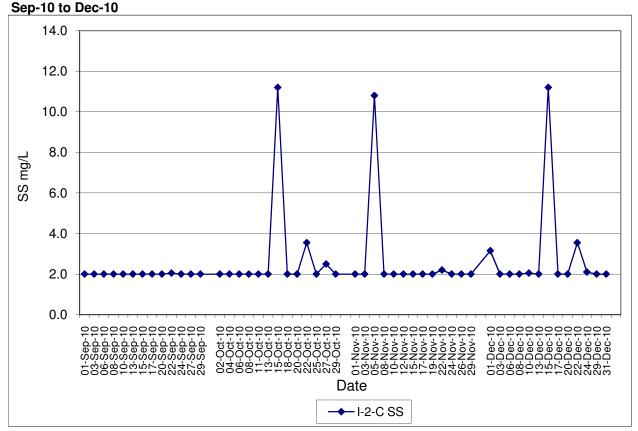
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Sik Sik Yuen Ho Fung College (I-1-C)



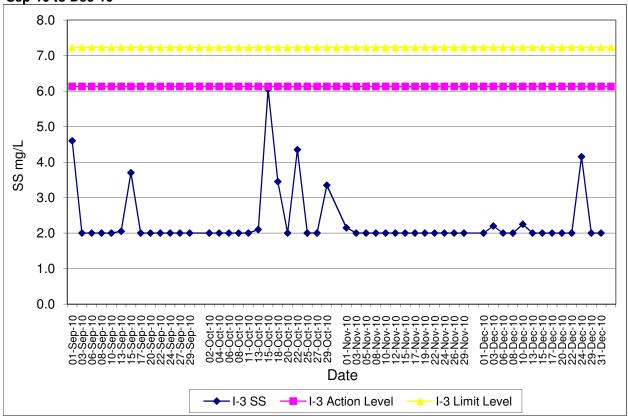


Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2) Sep-10 to Dec-10

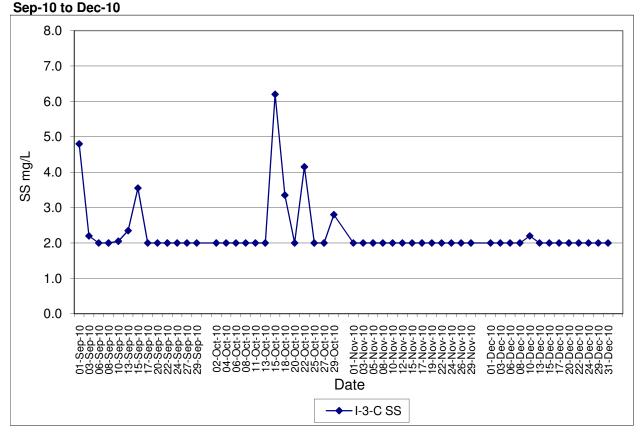
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Hong Hoi Chee Hong Temple (I-2-C)



Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3) Sep-10 to Dec-10



Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Squatters (I-3-C)



Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel

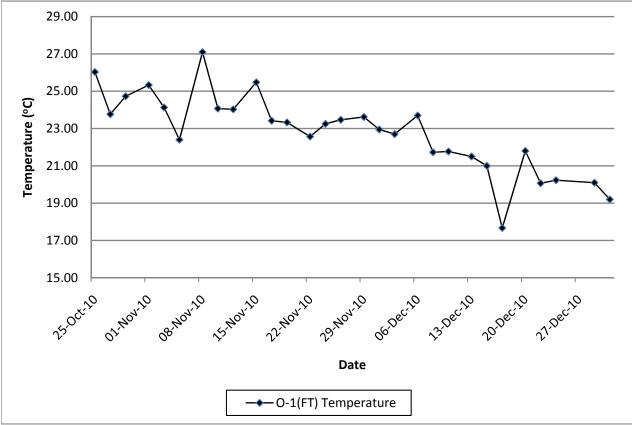
Marine Water Quality Impact Monitoring Results

Monitoring Locations	Date	Depth	Start Time	Weather	Water T Depth(m) 1	emp 2 Avg	g 1	DO(mg/L) 2		ction/Limit evel of DO(mg/L)	1	pH 2 Avg	Turbidity	NTU) Avg	Action/Limit Level of Tby	1	SS (mg/L) 2 Av	Action/Limit Level of SS(mg/L)	Remarks:	Action to be taken
Outfall 1 During Flood Tide O-1(FT)	01-Dec-10	Surface Middle Bottom	13:57	Sunny	1 22.90 2 4.75 22.90 2 8.5 23.00 2	3.00 22.9	7.25 7.15 7.10	7.30 7.19 7.20		6.84 / 6.81 6.99 / 6.96	8.27 8.27 8.27	8.27 8.27	4.22 4.31 4.10 4.11 3.97 4.13	4.15		4.10 6.40 10.60	6.40 8.30 11.20	3	Dredging	Nil
	03-Dec-10	Surface Middle Bottom	14:33	Sunny	1 22.70 2 4.75 22.70 2 8.5 22.70 2	2.70 22.7	7.17	7.28	7.23	6.84 / 6.81	8.19 8.19 8.19	8.19 8.18 8.19	4.02 3.95 3.70 3.96 3.92 3.91	3.92		6.20 10.40 8.40	7.70 5.20 6.40	8	Nil	Nil
	06-Dec-10	Surface Middle	09:23	Sunny	1 23.70 2 4.75 23.70 2	13.70 13.70 23.7	7.24	7.21 7.07	7.23 7.04	6.84 / 6.81	8.32 8.32	8.32 8.32 8.32	8.00 8.12 8.40 8.36	8.26		13.40 7.40	11.60 8.70 10.	50	Nil	Nil
	08-Dec-10	Bottom Surface Middle	09:50	Sunny	8.5 23.70 2 1 21.80 2 4.75 21.70 2	1.80	7.15 7.29 73 7.10	7.19 7.34 7.16		6.99 / 6.96 6.84 / 6.81	8.32 8.30 8.31	8.31	8.40 8.30 8.47 8.55 9.02 8.91			14.50	12.20 12.60 8.30 9.6	8	Nil	Nil
	10-Dec-10	Bottom Surface Middle	11:10	Sunny	8.5 21.70 2 1 21.80 2 4.5 21.80 2	1.70	7.17 7.15 77 7.09		7.21 7.20 7.12	6.99 / 6.96 6.84 / 6.81	8.31 8.28 8.28 1	8.28	8.44 8.62 6.90 6.74 6.98 6.70			8.30 5.00 4.60	6.30 6.30 3.70 4.7	0	Nil	Nil
		Bottom Surface Middle	09:00	Cloudy	8 21.80 2 1 21.50 2 4.75 21.50 2	1.70 1.50	7.38 7.05	7.42	7.40 7.09	6.99 / 6.96 6.84 / 6.81	8.27 8.28 8.29	8.27 8.29	6.62 6.73 6.78 6.90 7.15 7.40			4.20 5.70 7.30	4.40	-		
		Bottom Surface		-	8.5 21.50 2 1 21.00 2	1.50 1.00	7.39	7.45	7.42	6.99 / 6.96 6.84 / 6.81	8.29	8.29 8.30	7.43 7.43 3.90 3.80			9.20 5.10	4.00			
		Middle Bottom Surface	12:55	Cloudy	4.5 21.00 2 8 21.00 2 1 17.70 1	7.70	7.20	7.24 7.46		6.99/6.96 6.84/6.81	8.30 8.30 8.20	8.30 8.20	3.87 3.99 3.85 3.80 4.98 5.12		10.35 / 13.15	10.80 8.80	4.10 5.8 3.40 6.60	2 14.1 / 18.08	Nil	Nil
	17-Dec-10	Middle Bottom Surface	14:48	Fine	4.75 17.70 1 8.5 17.60 1 1 21.80 2	7.60	7.44 7.90 7.34	7.87	7.48 7.89 7.36	6.99 / 6.96	8.20 8.20 8.20 8.29 1	8.20 8.20 8.20	5.07 5.11 5.20 5.00 3.07 3.16			9.20 5.40 4.00	7.10 6.8 3.90 3.00	3	Nil	Nil
	20-Dec-10		16:27	Fine	4.75 21.80 2 8.5 21.80 2 1 20.00 2	21.80 21.8 21.80	30 7.39 7.24 7.61	7.45 7.27	7.42 7.26 7.63		8.29 8.29 8.30	8.29 8.29 8.29	3.24 3.3 3.06 3.16 8.27 8.35			2.00 3.00 11.70	2.00 2.6	7	Nil	Nil
	22-Dec-10	Middle Bottom	09:20	Sunny	4.75 20.10 2 8 20.10 2	0.10 20.0	7.42	7.42	7.42 7.36	6.84 / 6.81 6.99 / 6.96	8.30 8 8.31 8	8.31 8.31 8.31	8.07 8.19 8.30 8.29	8.24		15.30 12.90	12.90 12.1 13.90	95	Nil	Nil
	24-Dec-10	Surface Middle Bottom	09:23	Cloudy	1 20.30 2 4.75 20.20 2 8.5 20.20 2	0.20 20.2 0.20	7.52	7.46 7.57	7.50 7.48 7.55	6.84 / 6.81 6.99 / 6.96	8.09 8.09 8.09	8.09 8.09 8.09	7.44 7.66 7.53 7.60 7.86 7.97	7.68		8.90 11.00 9.30	8.60 9.4 9.10	5	Nil	Nil
	29-Dec-10	Surface Middle Bottom	13:20	Sunny	1 20.10 2 4.75 20.10 2 8.5 20.10 2	20.10 20.1	7.41 7.46 7.49		7.39 7.44 7.51	6.84 / 6.81 6.99 / 6.96	8.17 8.18 8.18	8.18 8.18	3.38 3.42 3.40 3.30 3.50 3.43	3.41		2.80 3.00 2.60	2.00 5.10 3.70	0	Nil	Nil
	31-Dec-10	Surface Middle Bottom	13:28	Sunny	1 19.20 1 4.75 19.20 1 8.5 19.20 1	9.20 19.2	7.43	7.37	7.40	6.84 / 6.81	8.27 8.26 8.26	8.27 8.25 8.26	4.80 4.96 4.74 4.56 4.80 4.92	4.80		7.00 5.70 6.60	5.20	8	Nil	Nil
		Surface Middle Bottom								6.84 / 6.81										
Control of Outfall 1 During Flood Tide O-1-C(FT)	01-Dec-10	Surface Middle	13:35	Sunny	1 22.80 2 7.25 22.90 2	2.90 22.8	7.20 33 7.09 7.01			0.337 0.30	8.26	8.27 8.27	4.10 4.02 3.92 3.77	3.94		4.60 9.30 2.10	3.20 9.10 5.2	8	Nil	Nil
	03-Dec-10	Bottom Surface Middle	14:10	Sunny	13.5 22.80 2 1 22.70 2 7 22.60 2	2.70	7.38	7.42 7.16	7.40 7.12		8.27 8.19 8.19	8.19 8.19 8.19	3.90 3.92 3.90 3.80 3.74 3.66	3.78		6.60 4.60	6.00 10.40 6.1	3	Nil	Nil
	06-Dec-10	Bottom Surface Middle	09:00	Sunny	13 22.60 2 1 23.70 2 7.25 23.70 2	3.70	7.48 7.15 5 7.30	7.21	7.44 7.18 7.33		8.18 8.33 8.33	8.33 8.33	3.85 3.73 8.46 8.55 8.19 8.22			4.20 9.50 8.20	5.00 13.00 9.60 10.	3	Nil	Nil
	08-Dec-10	Bottom Surface Middle	09:30	Sunny	13.5 23.60 2 1 21.70 2 7 21.70 2	1.70	7.10 7.22 8 7.41	7.26			8.32 8.32 8.31	8.32 8.32	8.50 8.57 9.77 9.65 9.40 9.55			13.80 10.70 9.40		7	Nil	Nil
		Bottom Surface Middle	10:45	Sunny	13 21.70 2 1 21.70 2 7 21.70 2	1.70	7.06	7.15 7.26	7.11 7.24 7.16		8.31 8.28 8.27	8.31 8.28	9.70 9.74 7.91 7.80 7.43 7.61			12.00 7.20	12.30			
		Bottom Surface		-	13 21.70 2 1 21.40 2	1.70 1.40	7.26	7.32 7.30	7.29 7.33		8.27 8.29 F	8.28 8.29	7.40 7.3 8.74 8.92			4.90 12.60	5.60 11.10		1901 	
		Middle Bottom Surface	13:00	Cloudy	7.25 21.30 2 13.5 21.40 2 1 21.00 2	1.40	7.23	7.32	7.26		8.29 8.30 8.30	8.30 8.30	8.90 9.07 8.47 8.58 4.01 3.98			10.10	16.90 12. 8.60 2.20			NII
		Middle Bottom Surface	12:35	Cloudy	7 21.00 2 13 21.00 2 1 17.60 1	7.60	7.19 7.63	7.15 7.68	7.28 7.17 7.66	- /-	8.30 8 8.30 8 8.21 8	8.30	3.97 3.90 4.02 4.07 5.15 5.40		- /-	7.30 3.40	3.70 3.6 2.40 4.60	- /-	Nil	Nil
	17-Dec-10	Middle Bottom Surface	14:30	Fine	6.75 17.60 1 11.5 17.50 1 1 21.80 2	7.60	58 7.64 7.69	7.62	7.62 7.66 7.25		8.21 8.20 8.28	8.21 8.21 8.20	5.37 5.22 5.50 5.40 3.31 3.31	1		5.50 7.60 2.00	6.50 5.9	8	Nil	Nil
	20-Dec-10	Middle Bottom	16:05	Fine	7 21.70 2 13 21.80 2	1.80 21.7	7.27 78 7.35 7.17	7.41 7.23	7.38		8.29 8.29 8.30	8.29 8.29 8.29	3.42 3.28 3.15 3.22 8.40 8.55	3.29		2.60 2.00 8.80	2.00 2.3 2.80	3	Nil	Nil
					1 00.40	0.40	7.00					0.30				8.80	12.90		Nil	
	22-Dec-10	Surface Middle Bottom	09:00	Sunny	1 20.40 2 7.25 20.40 2 13.5 20.30 2	10.30 20.3 10.30	7.39		7.53 7.41		8.30 8.30	8.31 8.30 8.30	8.18 8.26 8.35 8.47				9.30 10. 11.00	10		Nil
		Surface Middle	09:00 09:02	Sunny Cloudy	7.25 20.40 2 13.5 20.30 2 1 20.20 2 7.25 20.10 2 13.5 20.20 2	10.30 20.3 10.30 10.20 10.10 20.1 10.30	35 7.56 7.39 7.64 18 7.57 7.53	7.50 7.42 7.69 7.54 7.46	7.53 7.41 7.67 7.56 7.50		8.30 8.30 8.08 8.09 8.09	8.31 8.30 8.30 8.08 8.09 8.09 8.09	8.35 8.47 9.18 9.07 8.70 8.66 9.51 9.44	9.09		22.10 22.10 14.30	11.00 18.60 18.40 12.10		Nil	NII
	24-Dec-10	Surface Middle Bottom Surface Middle Bottom Surface Middle			7.25 20.40 2 13.5 20.30 2 1 20.20 2 7.25 20.10 2 13.5 20.20 2 13.5 20.20 2 1 20.10 2 1 20.10 2 1 20.10 2 1 20.10 2 7 20.00 2	10.30 20.3 10.30 20.3 10.20 20.1 10.30 20.1 10.30 20.1 10.10 20.0	35 7.56 7.39 7.64 7.57 7.53 7.53 7.36 08 7.24	7.50 7.42 7.69 7.54 7.46 7.41 7.31	7.53 7.41 7.67 7.56 7.50 7.39 7.28		8.30 8.30 8.08 8.09 8.09 8.09 8.17 8.16	8.31 8.30 8.30 8.08 8.09 8.09 8.09 8.09 8.17 8.16 8.16	8.35 8.47 9.18 9.07 8.70 8.66 9.51 9.44 3.80 3.76 3.54 3.61	9.09		22.10 22.10 14.30 2.00 2.00	11.00 18.60 18.40 12.10 2.00 2.50 2.3	13	Nil	Nil Nil
	24-Dec-10 29-Dec-10	Surface Middle Bottom Surface Middle Bottom Surface Middle Bottom Surface Middle	09:02	Cloudy	7.25 20.40 2 13.5 20.30 2 1 20.20 2 1.5 20.10 2 1.5 20.20 2 1.5 20.20 2 1.5 20.20 2 1.1 20.10 2 7 20.00 2 1.3 20.10 2 1.3 20.10 2 1.3 20.10 2 1.3 20.10 2 1.3 20.10 2 1.3 20.10 2 1.3 20.10 2 1.3 20.10 2 1.3 20.10 2 1.3 19.20 1 7.25 19.20 1	0.30 20.3 0.30 20.3 0.20 0.10 0.10 20.1 0.30 20.1 0.10 20.1 0.10 20.0 0.10 20.0 0.10 20.0 0.10 20.0 0.10 20.0 0.10 20.0 0.10 20.0 0.10 20.0	35 7.56 7.39 7.64 18 7.57 7.53 7.36 08 7.24 7.32 7.49 18 7.47	7.50 7.42 7.69 7.54 7.46 7.41 7.31 7.35 7.59 7.43	7.53 7.41 7.67 7.56 7.50 7.39 7.28 7.28 7.34 7.54 7.54 7.45		8.30 8.30 8.08 8.09 8.17 8.16 8.16 8.26 8.26	8.31 8.30 8.30 8.09 8.09 8.09 8.17 8.16 8.16 8.16 8.26 8.26	8.35 8.41 9.18 9.00 8.70 8.66 9.51 9.44 3.80 3.76 3.54 3.61 5.18 5.21 5.37 5.44	9.09 3.64 5.41		22.10 22.10 14.30 2.00 2.00 3.20 5.70 6.80	11.00 18.60 18.40 12.10 2.00 2.50 2.50 5.70 5.20 5.7	7	NI NI NI	Nil
	24-Dec-10 29-Dec-10	Surface Middle Bottom Surface Middle Bottom Surface Bottom Surface	09:02 13:02	Cloudy Sunny	7.25 20.40 2 13.5 20.30 2 1 20.20 2 7.25 20.10 2 13.5 20.20 2 1 20.10 2 1 20.10 2 1 20.10 2 1 20.10 2 1 20.10 2 13 20.10 2 13 20.10 2	0.30 20.3 0.30 20.3 0.20 0.10 0.10 20.1 0.30 20.1 0.10 20.1 0.10 20.0 0.10 20.0 0.10 20.0 0.10 20.0 0.10 20.0 0.10 20.0 0.10 20.0 0.10 20.0	7.56 7.39 7.64 7.53 7.53 7.36 7.32 7.49	7.50 7.42 7.69 7.54 7.46 7.41 7.31 7.35 7.59	7.53 7.41 7.67 7.56 7.50 7.39 7.28 7.28 7.34 7.54 7.54 7.45		8.30 8.30 8.08 8.09 8.09 8.17 8.16 8.16 8.26	8.31 8.30 8.30 8.09 8.09 8.09 8.17 8.16 8.16 8.16 8.26 8.26	8.35 8.41 9.18 9.07 8.70 8.66 9.51 9.44 3.80 3.76 3.54 3.61 3.62 3.52 5.18 5.22	9.09 3.64 5.41		22.10 22.10 14.30 2.00 2.00 3.20 5.70	11.00 18.60 18.40 12.10 2.00 2.50 2.50 5.70	7	sai	NI NI NI NI

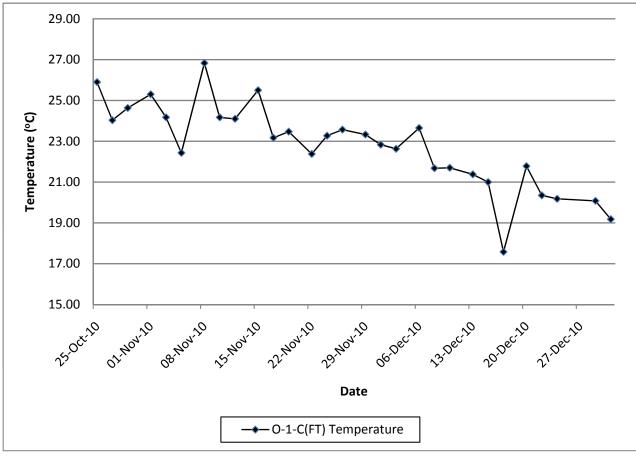
Outfall 1 During Ebb Tide O-1(ET)	01-Dec-10	Surface Middle Bottom	09:53	Sunny	1 23.00 23.00 4.5 23.00 23.00 8 22.90 22.90	22.97 7.	29 7.	18 7.17 33 7.31	7.02/6.94	8.24	8.24 8.24 8.24	8.24	3.19 3.22 3.30 3.37 3. 3.66 3.50	37		4.20 5.10 8.10 6.50 4.30 3.10	5.22		Dredging	Nil
	03-Dec-10	Surface Middle Bottom	10:25	Sunny	1 22.30 22.30 1 22.30 22.30 4.5 22.30 22.20 8 22.20 22.20	22.25 7.	7 7.	22 7.19 57 7.55 24 7.21 34 7.31	7.02 / 6.94 6.7 / 6.48	8.18 8.19 8.19	8.19 8.18 8.19	8.19	2.86 2.97	92		4.30 3.10 5.80 6.60 7.00 10.30 7.10 4.80	6.93		Nil	Nil
	06-Dec-10	Surface Middle Bottom	13:25	Sunny	1 24.00 24.00 4.5 24.00 24.00 8 24.00 24.00	24.00 73 7.	22 7. 30 7. 5 7.	29 7.26 33 7.32 09 7.12	7.02/6.94	8.32	8.32 8.32 8.32	8.32	4.02 4.18	05	-	6.80 5.30	7.95		Nil	Nil
	08-Dec-10	Surface Middle Bottom	14:40	Sunny	1 22.00 22.00 4.75 22.00 22.00 8.5 22.00 21.90	21.98 7.	4 7.	32 7.30 17 7.16 34 7.30	7.02 / 6.94 8.18	8.31 8.32	8.31 8.31 8.32	8.31	5.73 5.96	74	-	6.80 5.20 5.50 6.30 4.70 6.30	5.80		Nil	Nil
	10-Dec-10	Surface Middle Bottom Surface	15:26	Sunny	1 22.20 22.10 4.75 22.20 22.20 8.5 22.20 22.10 1 21.50 21.50	22.17 7.	26 7.	17 7.14 35 7.31 36 7.33 31 7.29	7.02 / 6.94 6.7 / 6.48	8.30 8.30	8.30 8.30 8.30 8.30	8.30	4.90 5.03 4.97 5.18 5. 5.20 5.15 6.07 6.21	07		8.40 6.40 6.60 6.10 2.80 3.70 6.30 6.70	5.67		Nil	Nil
	13-Dec-10	Middle Bottom	18:20	Cloudy	1 21.50 21.50 4.5 21.50 21.40 8 21.40 21.40 1 21.10 21.10	21.45 7.	6 7. 07 7.	12 7.14 10 7.09 44 7.42	7.02 / 6.94 6.7 / 6.48	8.30 8.30	8.30 8.30 8.30 8.29	8.30		24		6.30 6.70 13.00 14.20 6.30 8.70 5.60 4.60	9.20		Nil	Nil
	15-Dec-10	Surface Middle Bottom	08:35	Cloudy	4.5 21.00 21.00 8 21.00 21.00	21.03 7.	7. 3 7.	53 7.50 37 7.35	7.02 / 6.94 6.7 / 6.48	8.30 8.30	8.30 8.30	8.30	3.20 3.15 3. 3.03 3.12		97 / 12 //	6.60 5.90 5.80 4.70	5.53	3.25 / 14.39	Nil	Nil
	17-Dec-10	Surface Middle Bottom	09:50	Fine	1 17.50 17.50 4.5 17.40 17.40 8 17.50 17.40	17.45 7.	50 7. 2 7.	74 7.72 54 7.52 67 7.70	7.02 / 6.94 6.7 / 6.48	8.21 8.21	8.20 8.21 8.21	8.21	5.93 5.85	99	-	5.10 5.50	5.28		Nil	Nil
	20-Dec-10	Surface Middle Bottom	11:20	Fine	1 21.60 21.60 4.5 21.60 21.60 8 21.60 21.60 1 20.40 20.40	21.60 7.	13 7. 15 7.	28 7.25 42 7.38 40 7.38 32 7.56	7.02 / 6.94 6.7 / 6.48	8.29 8.30	8.29 8.29 8.30 8.31	8.29	4.10 4.18 4.37 4.15 4. 4.62 4.50 5.07 5.02	32		5.90 4.20 6.10 5.90 6.10 7.40 5.70 4.40	5.93		Nil	Nil
	22-Dec-10	Surface Middle Bottom	13:08	Sunny	1 20.40 20.40 4.5 20.30 20.30 8 20.30 20.30 1 20.50 20.50	20.33 7.	5 7. 9 7.	58 7.57 40 7.35	7.02 / 6.94 6.7 / 6.48	8.31 8.31	8.31 8.31 8.31 8.10	8.31	4.98 5.10 5. 5.14 5.05	06			5.07		Nil	Nil
	24-Dec-10	Surface Middle Bottom	14:24	Cloudy	4.5 20.50 20.50 8 20.50 20.50	20.50 7.	6 7. 5 7.	48 7.46 61 7.59 39 7.37	7.02 / 6.94 6.7 / 6.48	8.10 8.10	8.10 8.10	8.10	5.97 6.15	16		12.20 10.30 9.50 11.40	9.82		Nil	Nil
	29-Dec-10	Surface Middle Bottom Surface	18:20	Sunny	1 20.10 20.10 4.5 20.20 20.20 8 20.10 20.10 1 19.10 19.10	7.	9 7.	45 7.43 57 7.55 55 7.52 30 7.26	7.02 / 6.94 6.7 / 6.48	8.19 8.19	8.19 8.19 8.19	8.19	5.80 5.97 5.82 5.74 5. 5.83 5.96 5.18 5.27	85		8.10 9.90 8.50 9.70 9.90 8.30 7.80 9.10	9.07		Nil	Nil
	31-Dec-10	Middle Bottom	09:27	Sunny	4.5 19.00 19.00 8 19.00 19.00	19.03 7. 7.	177. 177. 137.	50 7.26 51 7.49 48 7.46	7.02 / 6.94 6.7 / 6.48	8.24	8.24 8.24 8.24	8.24		50		7.80 9.10 6.70 6.40 7.30 5.70	7.17		Nil	Nil
		Surface Middle Bottom							7.02 / 6.94						_					
Control of Outfall 1 During Ebb Tide O-1-C(ET)	01-Dec-10	Surface Middle Bottom	09:30	Sunny	1 22.90 22.90 6 22.80 22.80 11 22.80 22.80	22.83 7.	03 7.	15 7.13 07 7.05 11 7.09		8.24 8.24	8.25 8.24 8.24	8.24	3.47 3.40	39		4.00 4.30	9.72		Nil	Nil
	03-Dec-10	Surface Middle Bottom	10:00	Sunny	1 22.30 22.30 5.75 22.30 22.30 10.5 22.30 22.30	22.30 7.	86 7. 85 7.	76 7.69 41 7.39 27 7.31		8.19 8.19	8.19 8.20 8.19	8.19	3.02 3.15	10		8.20 5.80 8.90 11.40 6.70 7.50	8.08		Nil	Nil
	06-Dec-10	Surface Middle Bottom	13:00	Sunny	1 23.90 23.90 6 23.90 23.90 11 23.80 23.80	23.87 7.	7 7.	15 7.13 23 7.20 08 7.10		8.32 8.32	8.32 8.32 8.32	8.32	3.98 4.07	11		15.40 11.20 4.40 3.80 3.20 4.10	7.02		Nil	Nil
	08-Dec-10	Surface Middle Bottom	14:18	Sunny	1 21.90 21.90 6 21.90 21.90 11 21.90 21.90	21.90 7. 7.	29 7. 17 7. 81 7.	34 7.32 23 7.20 36 7.34 25 7.22		8.32 8.31	8.32 8.31 8.31	8.32	6.60 6.52	55		3.30 7.10 5.80 4.10 7.20 6.00	5.58		Nil	Nil
	10-Dec-10	Surface Middle Bottom	15:05	Sunny	1 22.10 22.10 6.75 22.10 22.00 11.5 22.10 22.00	22.07 7.	7 7.	52 7.50		8.29 8.29	8.29 8.30 8.29	8.29	5.40 5.19	24	-	5.80 6.70 6.80 6.20 7.50 5.80	6.47		Nil	Nil
	13-Dec-10	Surface Middle Bottom	18:00	Cloudy	1 21.40 21.40 6 21.40 21.30 11 21.30 21.40	7.	2 7.	41 7.40 23 7.21 29 7.27 17 7.15		8.30 8.30	8.30 8.30 8.30	8.30	6.32 6.46	42		4.10 5.00 5.30 5.40 5.50 5.80	5.18		Nil	Nil
	15-Dec-10	Surface Middle Bottom	08:55	Cloudy	1 21.00 21.00 3 21.00 21.00 11 21.00 21.00 1 47.40 14.70	73	30 7.	36 7.34 29 7.26 37 7.34	- /-	8.30 8.30	8.30 8.30 8.30	8.30	2.98 3.04	03	,	4.10 3.30	3.97	- /-	Nil	Nil
	17-Dec-10	Surface Middle Bottom	09:30	Fine	1 17.40 14.70 6.75 17.30 17.30 11.5 17.40 17.40	16.92 7.	3 7.	50 7.47 79 7.76 60 7.57		8.21 8.21	8.21 8.21 8.20	8.21	6.33 6.27	31	-	3.90 4.90 7.30 5.20 5.00 7.00	5.55		Nil	Nil
	20-Dec-10	Surface Middle Bottom Surface	11:02	Fine	1 21.60 21.60 6.75 21.50 21.50 11.5 21.50 21.50 1 20.20 20.20	21.53 7. 7.	3 7. 13 7. 32 7.	17 7.15 53 7.48 56 7.59 45 7.42		8.29 8.30	8.30 8.29 8.30 8.30	8.30	5.70 5.66 5.34 5.41 5. 5.66 5.70 5.09 5.16	58		5.80 4.50 7.60 5.80 6.40 6.40 6.20 5.00	6.08		Nil	Nil
	22-Dec-10	Middle Bottom	12:50	Sunny	6 20.20 20.30 11 20.30 20.30	20.25 73	9 7.	33 7.36		8.30 8.30	8.30 8.30	8.30	5.23 5.40 5. 5.20 5.18	21		6.40 5.70 4.80 5.50	5.60		Nil	Nil
	24-Dec-10	Surface Middle Bottom	14:05	Cloudy	1 20.40 20.40 6 20.40 20.40 11 20.50 20.40	73	37 7.	56 7.53 36 7.38 40 7.43 33 7.35		8.10 8.10	8.10 8.09 8.10	3.97	7.21 7.15	19	-	7.40 9.00 8.50 6.90 8.50 6.90	7.87		Nil	Nil
	29-Dec-10	Surface Middle Bottom	18:00	Sunny	1 20.00 20.00 6 20.10 20.00 11 20.10 20.10 11 1 20.10 20.10	73	3 7.	36 7.33 45 7.42 30 7.32		8.20 8.19	8.19 8.19 8.19	8.19	5.93 5.90	99	_	6.70 6.00 6.20 5.60 6.10 5.60	6.03		Nil	Nil
	31-Dec-10	Surface Middle Bottom	09:02	Sunny	1 19.00 19.00 6.25 19.00 19.00 11.5 19.10 19.00	19.02 7. 7.	28 7. 15 7. 33 7.	32 7.30 49 7.47 36 7.35		8.24 8.24 8.24	8.24 8.24 8.24	8.24	6.18 6.27 5.99 5.76 6. 6.12 6.02	06		7.60 7.80 10.20 10.80 7.30 8.00	8.62		Nil	Nil
		Surface Middle Bottom																		

Note: Blue Italic indicates an exceedance of Action Level Red Bold indicates an exceedance of Limit Level

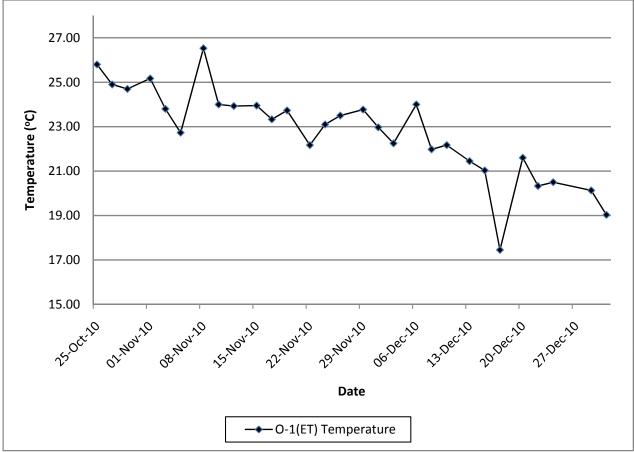
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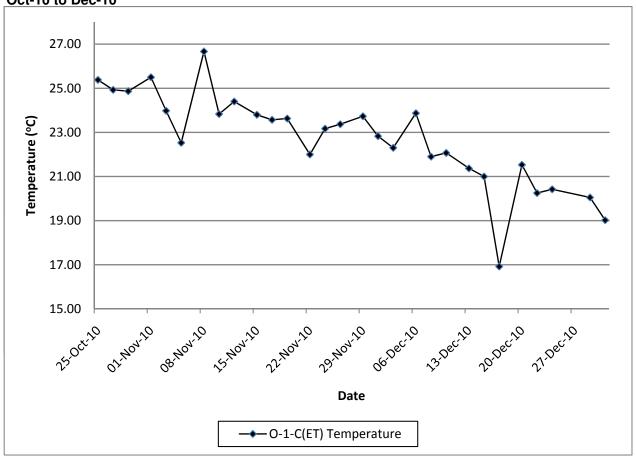
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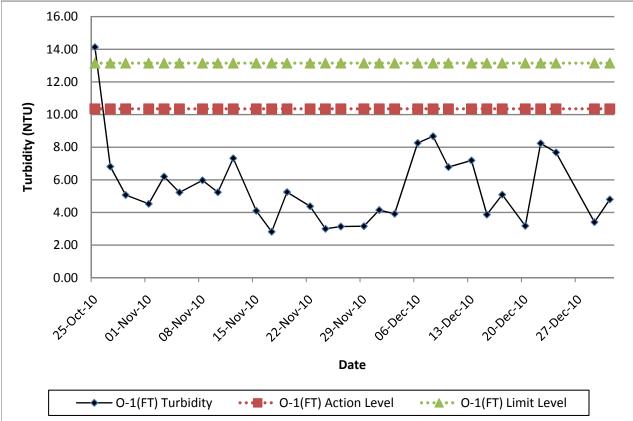
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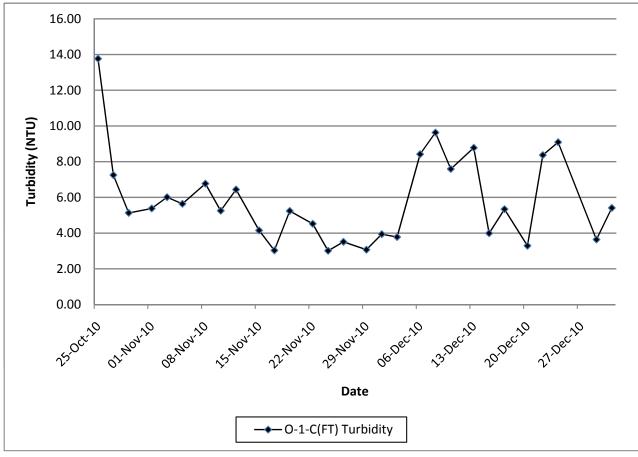
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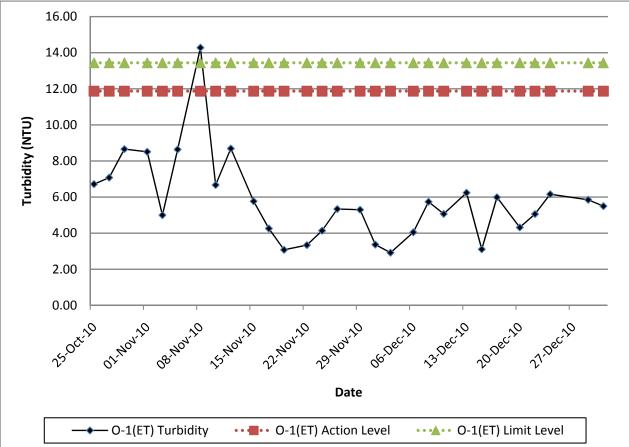
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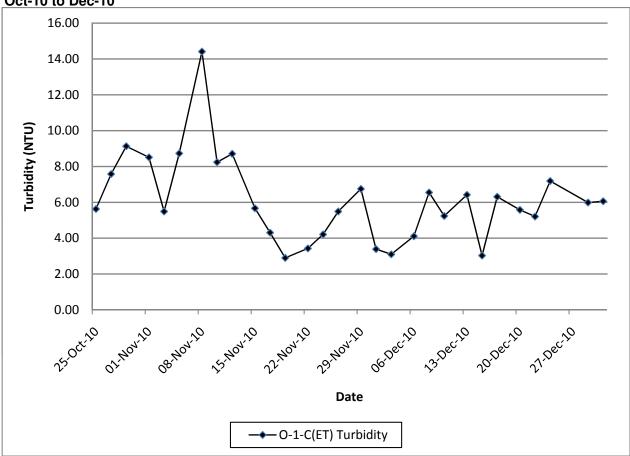
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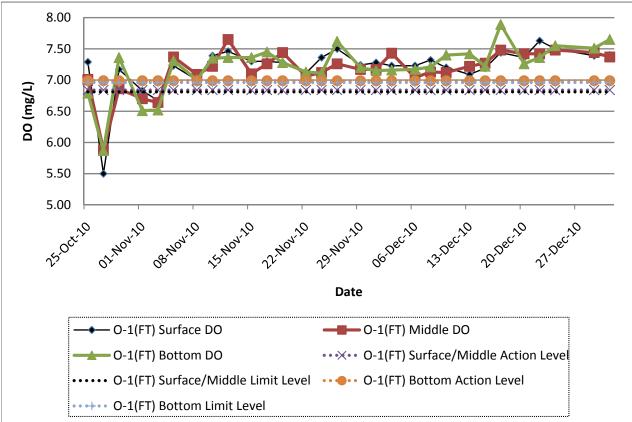
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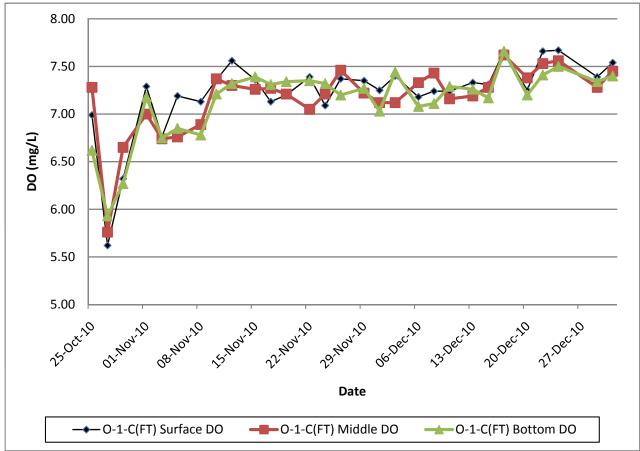
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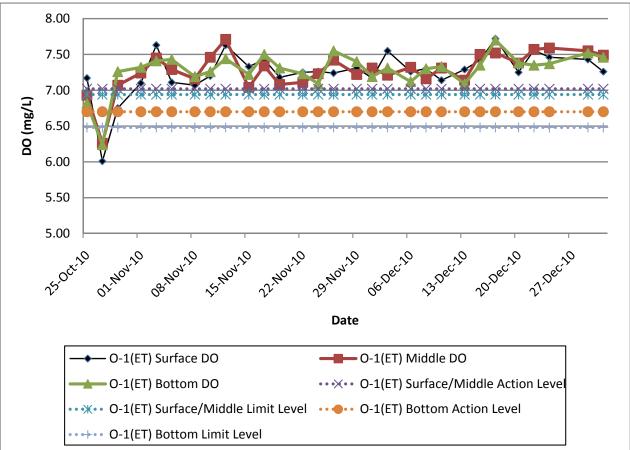
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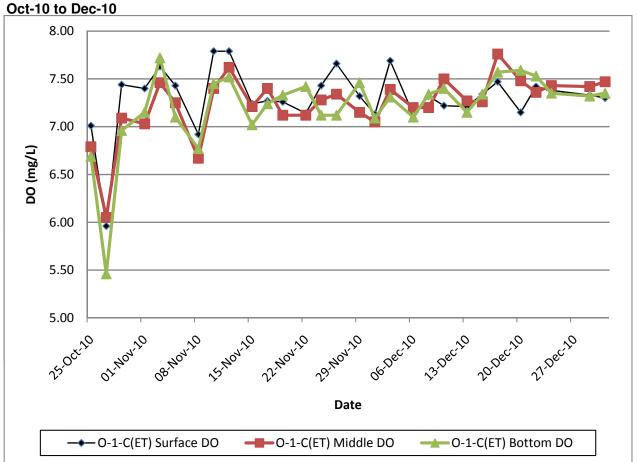
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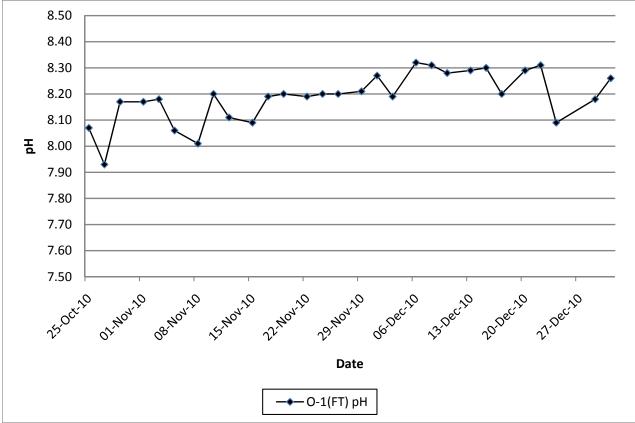
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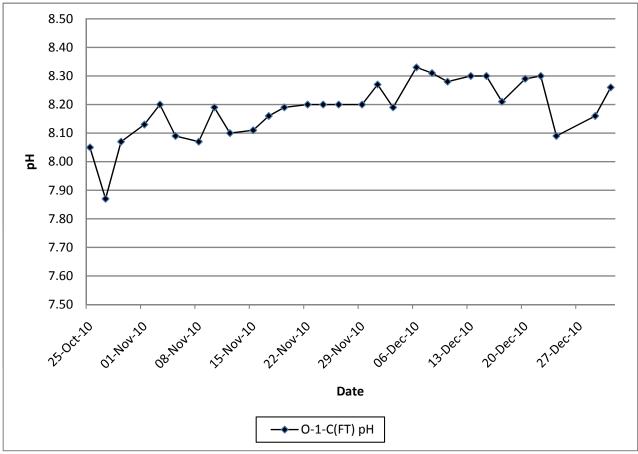
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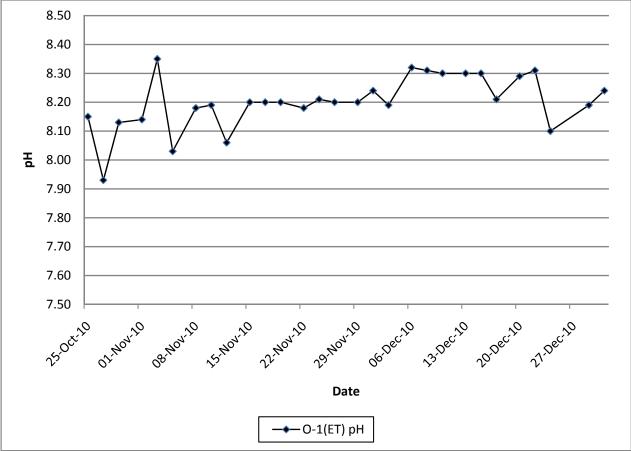
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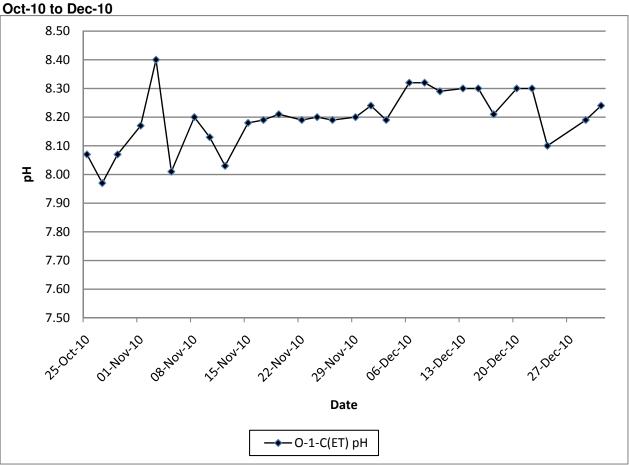
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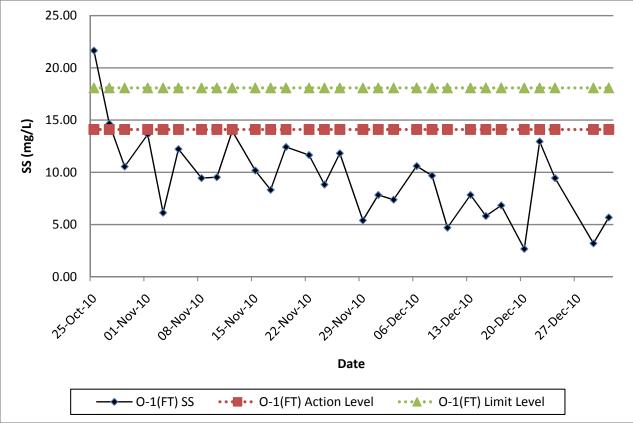


Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Outfall 1 During Ebb Tide (O-1(ET)) Oct-10 to Dec-10

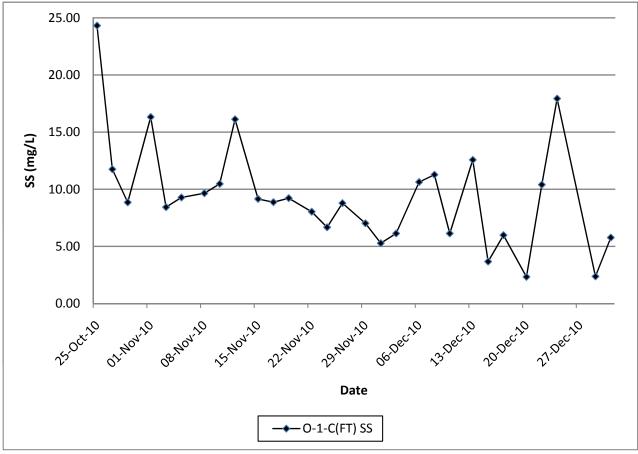


Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Control of Outfall 1 During Ebb Tide (O-1-C(ET))

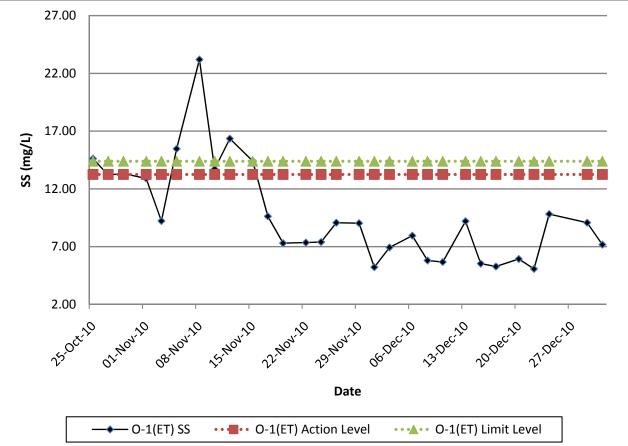




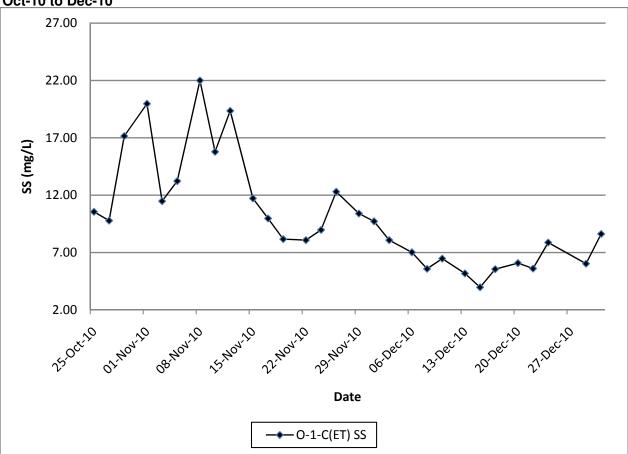
Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Control of Outfall 1 During Flood Tide (O-1-C(FT)) Oct-10 to Dec-10



Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Outfall 1 During Ebb Tide (O-1(ET)) Oct-10 to Dec-10



Contract No. DC/2007/12 - Design and Construction of Tsuen Wan Drainage Tunnel Water Quality Results at Control of Outfall 1 During Ebb Tide (O-1-C(ET)) Oct-10 to Dec-10





Appendix J

Interim Notifications of Environmental Quality Limits Exceedances

Incident Report on Action Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	01-Dec-10
Time	3:35 PM
Monitoring Location	Sik Sik Yuen Ho Fung College (I-1)
Parameter	Suspended Solid
Action & Limit Levels (mg/L)	8.85 / 10.17
Measured Level (mg/L)	2.70 (higher than 120% of control station's SS)
Possible reason for Action or Limit Level Non-compliance	A low SS level of 2.20 mg/L was recorded at Control Station (I-1-C)
Actions taken / to be taken	The measured SS level was below the baseline Action Level. It was also within the range of baseline SS concentration (1 - 10.5 mg/L). General site cleaning and housekeeping, rebar fixing at Bay 23, formwork at Bay 23, horizontal drilling and GI monitoring were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance is considered to be contributed by natural variation and no action is required.
Remarks	The following mitigation measures were provided: (1) Waste water was collected and diverted to on-site waste water treatment plant for treatment before discharge; (2) Nullah and site area were separated by sealed concrete block wall and sandbags barrier.

Prepared by:

Fan Cheong Tsang

Designation:

Environmental Team Leader

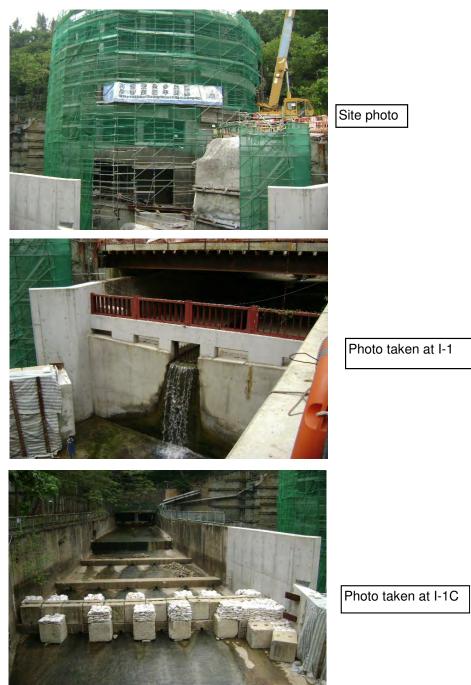
Hangtenthog

Signature:

Date:

14-Dec-10

Photographic record for exceedance of Suspended Solid recorded at Sik Sik Yuen Ho Fung College (I-1) on 01-Dec-10



Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	03-Dec-10
Time	2:33 PM
Monitoring Location	O-1(FT)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.1 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth- averaged) at Monitoring Location	7.38
Control Station	O-1-C(FT)
Measured Level (depth averaged) at Control Station (mg/L)	6.13
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(FT) was below the baseline Action/Limit Level but higher that 120% of the control station's SS level (O-1-C(FT)) at the same tide of the same day. Only rock removal was undertaken at Portion E. Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed. Frame-type silt curtain had been employed at the derrick barge and marine works was confined in the frame-type silt curtain. In addition, red tide at Tsuen Wan Hoi Hing Road seashore was reported during the week from 26 November 2010 to 3 December 2010 contributing to high SS level. As such, the exceedance is considered to be contributed by natural variation and no further action is required.
Actions taken / to be taken	(1) Silt curtain had been provided along the Portion E boundary line and extended from seawater level to the bottom of seabed; (2) Floating type silt curtain had been employed at the derrick barge; (3) Rock removal operation was confined in the inner (frame/floating type) silt curtain; (4) Sufficient slack of silt curtain was allowed to cope with the wave and tidal action to ensure the curtain was rested on seabed; (5) Condition of silt curtain had been checked by the on-broad supervisor daily before the start of any marine works activity; (6) Operator had been instructed to handle with due care and prevent fast lifting out of the grab from the inner (frame/floating type) silt curtain; (7) Closed grab had been used for dredging operation; and (8) the daily dredging rate was limited to less than 960 m ³ .
Remarks	None

Prepared by:

F. C. Tsang

13-Dec-10

Designation:

Environmental Team Leader

Signature:

Hauftenthoop

Date:

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(FT) on 03-Dec-10







Photo taken at O-1-C(ET)

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	01-Dec-10
Time	1:57 PM
Monitoring Location	O-1(FT)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.1 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth- averaged) at Monitoring Location	7.93
Control Station	O-1-C(FT)
Measured Level (depth averaged) at Control Station (mg/L)	5.28
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(FT) was below the baseline Action/Limit Level but higher than 130% of the control station's SS level (O-1-C(FT)) at the same tide of the same day. Only rock fill removal from sea bed was undertaken at Portion E. Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed. Frame-type silt curtain had been employed at the derrick barge and marine works was confined in the frame-type silt curtain. As such, the exceedance is considered to be contributed by natural variation and no further action is required.
Actions taken / to be taken	(1) Silt curtain had been provided along the Portion E boundary line and extended from seawater level to the bottom of seabed; (2) Floating type silt curtain had been employed at the derrick barge; (3) Rock removal operation was confined in the inner (frame/floating type) silt curtain; (4) Sufficient slack of silt curtain was allowed to cope with the wave and tidal action to ensure the curtain was rested on seabed; (5) Condition of silt curtain had been checked by the on-broad supervisor daily before the start of any marine works activity; (6) Operator had been instructed to handle with due care and prevent fast lifting out of the grab from the inner (frame/floating type) silt curtain; (7) Closed grab had been used for dredging operation; and (8) the daily dredging rate was limited to less than 960 m ³ .
Remarks	None

Prepared by:

F. C. Tsang

Designation:

Environmental Team Leader

Signature:

Hangtandhoog

Date:

16-Dec-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(FT) on 01-Dec-10



Site pho	oto
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Photo taken at O-1-C(ET)

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	13-Dec-10
Time	6:20 PM
Monitoring Location	O-1(ET)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.1 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth- averaged) at Monitoring Location	9.2
Control Station	O-1-C(ET)
Measured Level (depth averaged) at Control Station (mg/L)	5.18
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(ET) was below the baseline Action/Limit Level but higher than 130% of the control station's SS level (O-1-C(ET)) at the same tide of the same day. No marine works was undertaken at Portion E during measurement. Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed and floating type silt curtain had been employed at the inner side. As such, the exceedance was considered to be contributed by natural variation and no further action was required.
Actions taken / to be taken	(1) Silt curtain had been provided along the Portion E boundary line and extended from seawater level to the bottom of seabed; (2) Floating type silt curtain had been employed at the inner side; and (3) Sufficient slack of silt curtain was allowed to cope with the wave and tidal action to ensure the curtains (outer and inner) were rested on seabed.
Remarks	None

Prepared by:

F. C. Tsang

Designation:

Environmental Team Leader

Signature:

Hangtentheory

Date:

20-Dec-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(ET) on 13-Dec-10



Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	06-Dec-10
Time	1:40 PM
Monitoring Location	Hong Hoi Chee Hong Temple (I-2)
Parameter	Suspended Solid
Action & Limit Levels (mg/L)	7.68 / 8.34
Measured Level (mg/L)	3.2
Possible reason for Action or Limit Level Non-compliance	A low SS level of 2.00 mg/L was recorded at Control Station (I-2-C)
Actions taken / to be taken	The measured SS level was below baseline Action / Limit Level and within the range of baseline SS concentration (1 - 8.5 mg/L) but was more than 130% of the SS level measured at the upstream control station (I-2-C). General site cleaning & housekeeping, excavation (drilling holes) at vortex drop shaft, excavation (drilling holes) at man access shaft, rock breaking for jacking pipe at Portion G and erection of 60 ton temporary steel platform at Portion G were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance was considered to be contributed by natural variation and no action was required.
Remarks	The following mitigation measures had been provided: (1) Waste water was collected and diverted to the on-site waste water treatment facilities before discharge; (2) Existing stream had been diverted and bunded by sealed concrete block wall; (3) Existing stream had also been bunded off by sand bag to prevent excavated material from washing out from the working area.

Prepared by:

Fan Cheong Tsang

Designation:

Environmental Team Leader

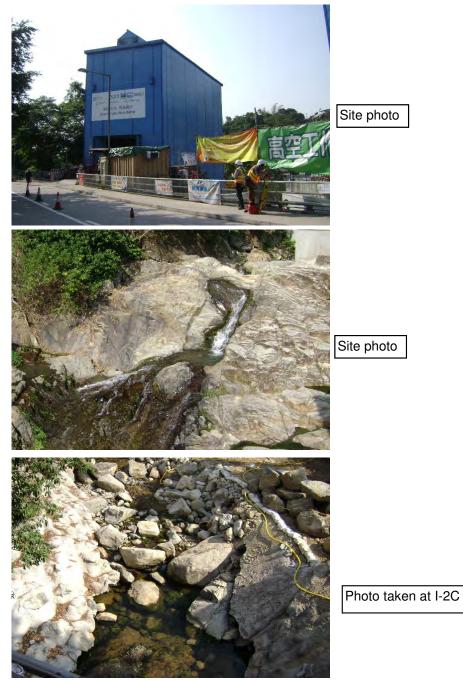
Signature:

Hauftentheory

Date:

22-Dec-10

Photographic record for exceedance of Suspended Solid recorded at Hong Hoi Chee Hong Temple (I-2) on 06-Dec-10



Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	15-Dec-10
Time	12:55 PM
Monitoring Location	O-1(FT)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.10 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth- averaged) at Monitoring Location	5.82
Control Station	O-1-C(FT)
Measured Level (depth averaged) at Control Station (mg/L)	3.67
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(FT) was below the baseline Action/Limit Level but was higher than 130% of the control station's SS level (O-1-C(FT)) at the same tide of the same day. No marine works was undertaken on 15 December 2010. Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed and floating type silt curtain had also been employed at the inner side. As such, the exceedance was considered to be contributed by natural variation and no further action was required.
Actions taken / to be taken	(1) Silt curtain had been provided along the Portion E boundary line and extended from seawater level to the bottom of seabed; (2) Floating type silt curtain had been employed at the inner side; and (3) Sufficient slack of silt curtain was allowed to cope with the wave and tidal action to ensure the curtains (outer and inner) were rested on seabed.
Remarks	None

Prepared by:

F. C. Tsang

Designation:

Environmental Team Leader

Signature:

Hangtenthorg

Date:

24-Dec-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(FT) on 15-Dec-10





Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	15-Dec-10
Time	8:35 AM
Monitoring Location	O-1(ET)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	13.25 / 14.39 (derived from the baseline monitoring data)
Measured Level (depth- averaged) at Monitoring Location	5.53
Control Station	O-1-C(ET)
Measured Level (depth averaged) at Control Station (mg/L)	3.97
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(ET) was below the baseline Action/Limit Level but was higher than 130% of the control station's SS level (O-1-C(ET)) at the same tide of the same day. No marine works was undertaken on 15 December 2010. Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed and floating type silt curtain had also been employed at the inner side. As such, the exceedance was considered to be contributed by natural variation and no further action was required. (1) Silt curtain had been provided along the Portion E boundary line and
Actions taken / to be taken	extended from seawater level to the bottom of seabed; (2) Floating type silt curtain had been employed at the inner side; and (3) Sufficient slack of silt curtain was allowed to cope with the wave and tidal action to ensure the curtains (outer and inner) were rested on seabed.
Remarks	None

Prepared by:

F. C. Tsang

Designation:

Environmental Team Leader

Signature:

Hangtenklog

Date:

24-Dec-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(ET) on 15-Dec-10



Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	22-Dec-10
Time	9:20 AM
Monitoring Location	O-1(FT)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.10 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth- averaged) at Monitoring Location	12.95
Control Station	O-1-C(FT)
Measured Level (depth averaged) at Control Station (mg/L)	10.4
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(FT) was below the baseline Action/Limit Level but was higher than 120% of the control station's SS level (O-1-C(FT)) at the same tide of the same day. Amour rock removal from the sea wall to the derrick barge at Portion E was undertaken during the measurement on 22 December 2010. As observed on site, silt curtains had been deployed along the marine works boundary line and extended from the seawater level to the seabed and floating type silt curtain had also been employed at the inner side to contain any SS dispersion within the construction site. As such, the exceedance was considered to be contributed by natural variation and no further action was required.
Actions taken / to be taken	(1) Silt curtain was provided along the Portion E boundary line and extended from seawater level to the bottom of seabed; (2) Floating type silt curtain had also been employed at the inner side; (3) Sufficient slack of silt curtain was allowed to cope with the wave and tidal action to ensure the curtains (outer and inner) were rested on seabed; and (4) Condition of silt curtains had been checked by the supervisor daily prior to marine works operation.
Remarks	None

Prepared by:

F. C. Tsang

Designation:

Environmental Team Leader

Signature:

Haytenthory

Date:

30-Dec-10

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(FT) on 22-Dec-10



Site photo

Site photo

Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	24-Dec-10
Time	10:55 AM
Monitoring Location	Hong Hoi Chee Hong Temple (I-2)
Parameter	Suspended Solid
Action & Limit Levels (mg/L)	7.68 / 8.34
Measured Level (mg/L)	3.05
Possible reason for Action or Limit Level Non-compliance	A low SS level of 2.10 mg/L was recorded at Control Station (I-2-C)
Actions taken / to be taken	The measured SS level was below baseline Action / Limit Level and within the range of baseline SS concentration (1 - 8.5 mg/L) but was more than 130% of the SS level measured at the upstream control station (I-2-C). General site cleaning and housekeeping, excavation (drilling holes) at vortex drop shaft and excavation (drilling holes) at man access shaft, rock breaking for 16th jacking pipe at Portion G, erection of 60ton temporary steel platform at Portion G and excavation for 750 step channel (SC) and catchpit were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance was considered to be contributed by natural variation and no action was required.
Remarks	The following mitigation measures had been provided: 1) Waste water was collected to waste water treatment plant and treated before discharge; (2) existing stream has been diverted and bunded by sealed concrete block wall; and (3) existing stream had been bunded off by sand bag to prevent excavated material from washing out of the working area.

Prepared by:

Fan Cheong Tsang

Designation:

Environmental Team Leader

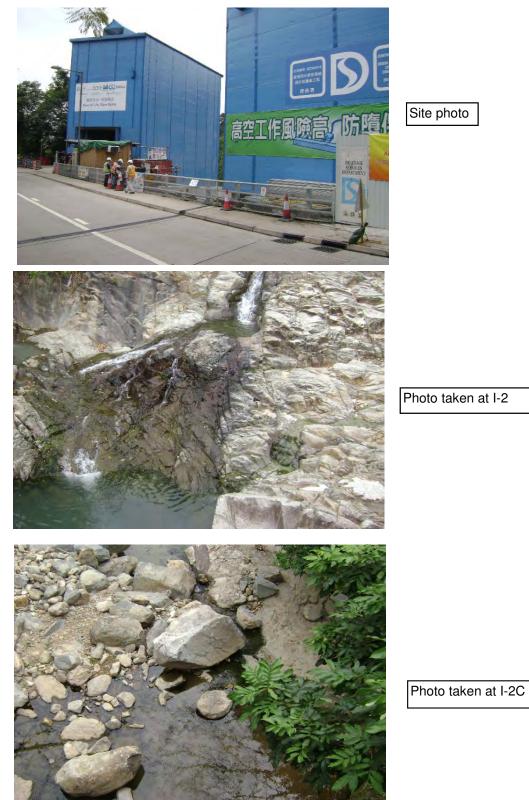
Signature:

Haughengheory

Date:

04-Jan-11

Photographic record for exceedance of Suspended Solid recorded at Hong Hoi Chee Hong Temple (I-2) on 24-Dec-10



Interim Notifications of Environmental Quality Limits Exceedances

Incident Report on Action Level or Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	24-Dec-10
Time	10:16 AM
Monitoring Location	Squatters (I-3)
Parameter	Suspended Solid
Action & Limit Levels	6.13 / 7.23
Measured Level	4.15
Possible reason for Action or Limit Level Non-compliance	A low SS level of 2.00 mg/L was recorded at Control Station (I-3-C)
Actions taken / to be taken	The measured SS level was below baseline Action / Limit Level and within the range of baseline SS concentration (1 - 7.5 mg/L) but was more than 130% of the SS level measured at the upstream control station (I-3-C). General site cleaning and housekeeping, PB wall H-pile extension, approach channel extension; and shaft excavation were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance was considered to be contributed by natural variation and no action was required.
Remarks	Following mitigation measures were provided: (1) All waste water was collected and diverted to waste water treatment plant prior to discharge; (2) existing stream has been diverted and bunded by sealed concrete block wall; and (3) excavated area had been bunded and sealed by concrete block wall to prevent any excavated material runoff from working area.

Prepared by:

Fan Cheong Tsang

Designation:

Environmental Team Leader

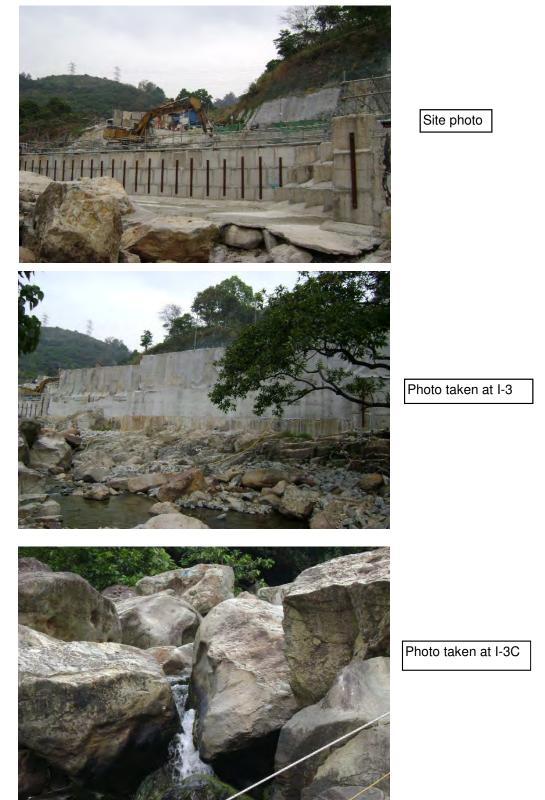
Signature:

Haughengheory

Date:

04-Jan-11

Photographic record for exceedance of Suspended Solid recorded at Squatters (I-3) on 24-Dec-10



Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	24-Dec-10
Time	2:24 PM
Monitoring Location	O-1(ET)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.1 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth- averaged) at Monitoring Location	9.82
Control Station	O-1-C(ET)
Measured Level (depth averaged) at Control Station (mg/L)	7.87
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(ET) was below the baseline Action/Limit Level but higher than 120% of the control station's SS level (O-1-C(ET)) at the same tide of the same day. No amour rock removal from the sea wall to the derrick barge at Portion E was undertaken during measurement. Silt curtains had been deployed along the dredging boundary line and extended from the seawater level to the seabed and floating type silt curtain had been employed at the inner side. As such, the exceedance was considered to be contributed by natural variation and no further action was required.
Actions taken / to be taken	(1) Silt curtain had been provided along the Portion E boundary line and extended from seawater level to the bottom of seabed; (2) Floating type silt curtain had been employed at the inner side; and (3) Sufficient slack of silt curtain was allowed to cope with the wave and tidal action to ensure the curtains (outer and inner) were rested on seabed.
Remarks	None

Prepared by:

F. C. Tsang

Designation:

Environmental Team Leader

Signature:

Hangtentheory

Date:

04-Jan-11

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(ET) on 24-Dec-10



Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	29-Dec-10
Time	1:20 PM
Monitoring Location	O-1(FT)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	14.1 / 18.08 (derived from the baseline monitoring data)
Measured Level (depth- averaged) at Monitoring Location	3.2
Control Station	O-1-C(FT)
Measured Level (depth averaged) at Control Station (mg/L)	2.37
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(FT) was below the baseline Action/Limit Level but higher than 130% of the control station's SS level (O-1-C(FT)) at the same tide of the same day. Derrick barge was under repair on that day and no marine works was undertaken at Portion E. Silt curtains werer deployed along the dredging boundary line and extended from the seawater level to the seabed. Floating type silt curtain were also deployed at the inner side. As such, the exceedance was considered to be contributed by natural variation and no further action was required.
	(1) Silt curtain had been provided along the Portion E boundary line and extended from seawater level to the bottom of seabed; (2) Floating type silt curtain had been employed at the inner side; and (3) Sufficient slack of silt curtain was allowed to cope with the wave and tidal action to ensure the curtains (outer and inner) were rested on seabed.
Remarks	None

Prepared by:

F. C. Tsang

Designation:

Environmental Team Leader

Signature:

Hangtentheory

Date:

06-Jan-11

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(FT) on 29-Dec-10



Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Limit Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	29-Dec-10
Time	6:20 PM
Monitoring Location	O-1(ET)
Parameter	Suspended Solids (SS)
Action & Limit Levels (mg/L)	13.25 / 14.39 (derived from the baseline monitoring data)
Measured Level (depth- averaged) at Monitoring Location	9.07
Control Station	O-1-C(ET)
Measured Level (depth averaged) at Control Station (mg/L)	6.03
Possible reason for Action or Limit Level Non-compliance	The measured SS level (depth-averaged) at O-1(ET) was below the baseline Action/Limit Level but higher than 130% of the control station's SS level (O-1-C(ET)) at the same tide of the same day. Derrick barge was under repair on that day and no marine works was undertaken at Portion E. Silt curtains werer deployed along the dredging boundary line and extended from the seawater level to the seabed. Floating type silt curtain were also deployed at the inner side. As such, the exceedance was considered to be contributed by natural variation and no further action was required.
Actions taken / to be taken	(1) Silt curtain had been provided along the Portion E boundary line and extended from seawater level to the bottom of seabed; (2) Floating type silt curtain had been employed at the inner side; and (3) Sufficient slack of silt curtain was allowed to cope with the wave and tidal action to ensure the curtains (outer and inner) were rested on seabed.
Remarks	None

Prepared by:

F. C. Tsang

Designation:

Environmental Team Leader

Signature:

Hangtentheory

Date:

06-Jan-11

Photographic record for exceedance of Suspended Solids (SS) recorded at O-1(ET) on 29-Dec-10



Interim Notification of Environmental Quality Limit Exceedance

Incident Report on Action Level Non-compliance

Project	Tsuen Wan Drainage Tunnel
Date	31-Dec-10
Time	11:05 AM
Monitoring Location	Hong Hoi Chee Hong Temple (I-2)
Parameter	Suspended Solid
Action & Limit Levels (mg/L)	7.68 / 8.34
Measured Level (mg/L)	2.45
Possible reason for Action or Limit Level Non-compliance	A low SS level of 2.00 mg/L was recorded at Control Station (I-2-C)
Actions taken / to be taken	The measured SS level was below baseline Action / Limit Level and within the range of baseline SS concentration (1 - 8.5 mg/L) but was more than 120% of the SS level measured at the upstream control station (I-2-C). General site cleaning, housekeeping and temporary traffic arrangement (TTA), excavation (drilling holes) at vortex drop shaft, excavation (drilling holes and rock spilling) at man access shaft, closed formwork for dry flow channel, rock breaking for 16 th jacking pipe at Portion G; erection of 60 ton temporary steel platform at Portion G and excavation for 750 step channel (SC) and catchpit were undertaken during measurement. No direct disturbance was observed from the site. Thus, the exceedance was considered to be contributed by natural variation and no action was required.
Remarks	The following mitigation measures had been provided: (1) Waste water was collected to waste water treatment plant and treated before discharge; (2) existing stream has been diverted and bunded by sealed concrete block wall; and (3) existing stream had been bunded off by sand bag to prevent excavated material from washing out of the working area.

Prepared by:

Designation:

Fan Cheong Tsang

Environmental Team Leader

Signature:

Hangtentheory

Date:

07-Jan-11

Photographic record for exceedance of Suspended Solid recorded at Hong Hoi Chee Hong Temple (I-2) on 31-Dec-10





Appendix K

Complaint Log

COMPLAINT LOG

Complaint No.	Log Ref.	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
1	CIR-001	9 March 2009 at Outfall	Public through EPD	EPD has received a complaint (EPD ref: EP3/N22/RW/04846- 09) regarding to muddy effluent discharged from the outfall of the construction site from a public on 9 March 2009. Site investigation was also carried out by EPD with the Contractor on the same day.	Findings/ ObservationsIn the afternoon on 9 March 2009, the Contractor was carrying out regular maintenance for removing silt accumulated in the wastewater treatment plant. During the maintenance works, some residual silt inside the plant was accidentally leaked out to the outfall discharge outlet. The reason was that a flexible pipe for disposing silt was found connecting to the concrete platform of the outfall discharge outlet. Conclusion/Remedial Action The complaint was valid and it was due to maintenance works at the wastewater treatment plant at the outfall area. The contractor had cleaned up the silt at discharge outlet and the channel at the outfall area on 12 March 2009 as shown in the attached photo. The ET will closely inspect the discharge outlet and the channel during the routine site inspections and provide advice to the Contractor. The Contractor was also advised to provide mitigation measures during any occasion of the maintenance work on the wastewater treatment plant.The discharge pipe of the treatment plant should be plugged and ensure not functioned when carrying out maintenance works on the wastewater treatment plant.The discharge pipe of discharge of sludge should not be placed on the concrete platform under the outfall discharge outlet.	Closed

Complaint No.	Log Ref.	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
					wastewater treatment plant, tanker should be used.	
2	CIR-002	8 May 2009 at Outfall	Public through EPD	EPD has received a complaint (EPD ref: EP3/N22/RW/09755- 09) regarding to construction dust from the outfall construction site on 8 May 2009. Site investigation was also carried out by EPD with the Contractor on 14 May 2009.	 <u>Findings/ Observations</u> Regular 1-hour TSP monitoring, in accordance with EM&A Manual, is performed by Environmental Team. The monitoring station concerned is ASR9 (i.e. at the podium level of Greenview Terrace facing to the construction site). The closest date for the 1-hour TSP concentration monitoring was on 6 May 2009 and 12 May 2009 at Greenview Terrace, ASR9. Soil nailing works and loading & unloading excavated materials were observed during monitoring. In accordance with the EM&A Manual and the Baseline Monitoring Report, all 1-hour TSP concentrations at ASR9 were below the established Action and Limit Levels. No exceedance was recorded on 6 and 12 May 2009. The contractor and the environmental team were also undertaken site investigation on the subject area in response to the complaint. It was confirmed that the air quality mitigation measures as recommended in EIA have been provided by the Contractor. The mitigation measures are as follows: Water spraying was provided to the exposed surface. Several automatic sprinklers were provided at the outfall construction site for water spraying of the haul road. Water spraying was provided during dust generating works (e.g. rock breaking and soil nailing works). 	Closed
					 outfall construction site for water spraying of the haul road. Water spraying was provided during dust generating works (e.g. rock breaking and soil nailing works). 	

Complaint No.	Log Ref.	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
					action & limit level exceedance on construction dust are identified. Air quality mitigation measures as recommended in EIA have been implemented in order to control and minimise the air quality impact and nuisance arising from the construction activities. Nevertheless, in view of the recent dry and sunny weather, the haul road and the exposed area would be dry very quickly. The Contractor was recommended to provide more frequent water spraying especially in the dry and sunny weather.	
3	CIR-003	14 May 2009 at Outfall	Public through EPD	EPD has received a complaint (EPD ref: EP/RW/080206) regarding to daytime construction rock breaking at 7:15 am and dusty at the outfall construction site on 14 May 2009.	The closest date to the complaint for the 1-hour TSP monitoring & daytime construction noise monitoring was on 12, 18 and 27 May 2009 at Greenview Terrace, ASR9 and NSR9. Soil nailing, excavation, rock breaking, loading and unloading the materials were observed during monitoring period. The measured noise levels complied with the limit level in accordance with the EIAO-TM. All 1-hour TSP concentrations at ASR9 were below the established Action and Limit Levels. No 1-hour TSP exceedance was recorded. The contractor and the environmental team were also undertaken site investigation on the subject area in response to the complaint. Air quality mitigation measures as recommended in EIA have been implemented by the Contractor. However, noise mitigation measures could be further improved. Based on our site inspection and monitoring results, the complaint for dust is considered not justifiable since no action & limit level exceedance on construction dust is identified. Air quality mitigation measures as recommended in EIA have also been implemented in order to control and minimise the air	Closed

Complaint No.	Log Ref.	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
					 quality impact arising from the construction activities. In view of the recent dry and sunny weather, the haul road and the exposed area would be dry very quickly. The Contractor was recommended to enhance water spraying especially in the dry and sunny weather. On the other hand, the complaint for noise is considered due to works and the Contractor was agreed to improve the on-site noise mitigation measures such as the following measures. ET's site inspection and the joint inspection with relevant parties was conducted on 29 May 2009 and 4 June 2009 respectively to confirm all the below measures have been implemented. For the idling plant, it should be switched off to reduce noise level generated. The sound insulation sheets and noise insulation materials should be placed to enclose the breaking tip tightly and also aside or surrounding the breaking activities as recommended in the following photos 1-3 in noise mitigation measures. Noise monitoring frequency was increased in order to check the effectiveness of the mitigation measures. The additional measurement was taken on 27 May, 8 June, 10 June and 12 June 2009 after all the measures implemented. The noise levels (L_{eq, 30 min}) were 70.9 dB (A), 70.5 dB (A), 70.3 dB (A) and 70.3 dB (A) respectively, which comply with the limit level in accordance with the EIAO-TM. Soil nailing, excavation and rock breaking were observed during monitoring period. The measures were well in place and seemed effective during the measurement. 	

Complaint No.	Log Ref.	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
4	CIR-004	10 July 2009 at Outfall	Public through EPD	EPD has received a complaint (EPD ref: EP3/N22/RW/15137- 09) regarding to construction dust from the outfall construction site on 10 July 2009.	 <u>Findings/ Observations</u> 1-hour TSP concentration monitoring was on 10 July 2009 at Greenview Terrace, ASR9. Soil nailing works, concrete breaking, excavation and loading & unloading excavated materials were observed during monitoring. All 1-hour TSP concentrations at ASR9 were below the established Action and Limit Levels. No exceedance was recorded on 10 July 2009. The contractor and the environmental team were also undertaken site investigation on the subject area in response to the complaint. It was confirmed that the air quality mitigation measures as recommended in EIA have been provided by the Contractor. The mitigation measures are as follows: Water spraying was provided to the exposed surface. Automatic sprinklers were provided at the outfall construction site for water spraying of the haul road. Water spraying was provided during dust generating works (e.g. rock breaking and soil nailing works). Tarpaulin was used for covering the dusty works in the Portal area. <u>Conclusion/Remedial Action</u> The complaint is considered not justifiable since no action & limit level exceedance on construction dust are identified 	Closed
5&6	CIR-005	29 July 2009 & 11 August 2009 at Outfall	Public through SOR	SOR has received two complaints (SOR ref: (DC/2007/12)/M45/500/02480, 02500) from Greenview Terrace	<u>Findings/ Observations</u> Soil nailing, excavation, rock breaking and drilling, loading and unloading the materials were generally observed during monitoring period in July and August 2009. According to the noise monitoring results from	Same Case with Complaint No. 11

Complaint No.	Log Ref.	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
				regarding to daytime construction noise exceedance recorded at NSR9 on 8, 22, 23, 27 and 29 July 2009 and a large amount dust generated at the outfall construction site. The complaint dates were corresponded to 29 July and 11 August 2009.	 6 July 2009 to 31 August 2009 at NSR 9, the measured noise levels complied with the limit level in accordance with the EIAO-TM. All 1-hour TSP concentrations at ASR9 were below the established Action and Limit Levels from 6 July 2009 to 25 August 2009. <u>Conclusion/Remedial Action</u> The dust complaint on 22 July 2009 was due to the soil nailing works. The Contractor was reminded enhance the dust mitigation measures during soil nailing works. A designated staff was provided to spray water continuously during soil nailing. A nylon bag was placed on the drilling hole and keeping wet to suppress dust. A sprinkler was added at the hillside of the site and water spraying was provided continuously during operation of drilling to suppress dust. The documented complaint for noise is considered to trigger the action level and the Contractor was also reminded to enhance the on-site noise mitigation measures continuously. The enhanced mitigation measures continuously the reading of Leq (5mins) at the roof of Greenview Terrace. In case of the Leq (5min) exceed 73 dB(A), the Contractor would re-schedule the noisy plants to mitigate the escalation of noise level. The designated staff was reminded to record all the weather condition including raining and wind speed. Tools box talk for the Contractor's Team was carried out for reminding that the movable barrier should be placed to the breaking activities as much as possible.	

Complaint No.	Log Ref.	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
					 movable noise barriers were also modified. Existing 25 ton rock breaker had been replaced by the another breaker. The breaking tap of the 25 ton rock breaker had been replaced by another breaking tap. A joint filler wall was installed at the vertical face of westbound to mitigate the noise rebound from the vertical face to high level of Greenview Terrace. From the additional monitoring data and monitoring data under regular EM&A requirements, noise level (L_{eq, 30 min}) between 6 July to 31 August 2009 was in the range of 71 to 74 dB(A) to the nearest integer. The noise monitoring frequency was maintained in twice per week to check whether the mitigation measures are effective. From the information of the Contractor, all the mitigation measures were implemented on 31 August 2009. Noise levels (L_{eq, 30 min}) were also re-measured after the implementation of the mitigation measures. Noise level (L_{eq, 30 min}) from 4 Sep to 28 Sep 2009 was in the range of 70 to 73 dB(A) to the nearest integer after the implementation of the mitigation measures. In our investigation, there was no exceedance of the measured noise level at Greenview Terrace. 	
7	CIR-006	12 August 2009 at Outfall	Public through SOR	SOR has received a complaint (SOR ref: (DC/2007/12)/M45/500/02527) from Greenview Terrace, via Apple Daily regarding to daytime construction noise level (L _{eq(30min)}) was sometimes more than 80 dB(A) and a large amount dust	<u>Findings/ Observations</u> Soil nailing, excavation, rock breaking and drilling, loading and unloading the materials were generally observed during monitoring period in July and August 2009. According to the noise monitoring results from 6 July 2009 to 31 August 2009 at NSR 9, the measured noise levels complied with the limit level in accordance with the EIAO-TM. All 1-hour TSP concentrations at ASR9 were below the established	Closed

Complaint No.	Log Ref.	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
				generated at the outfall construction site. The complaint date was corresponded to 12 August 2009.	 Action and Limit Levels from 6 July 2009 to 25 August 2009. <u>Conclusion/Remedial Action</u> The dust complaint was considered not justifiable since no action & limit level exceedance on construction dust were identified. However, it was a recurrent case from Greenview Terrace. The Contractor was recommended to enhance water spraying continuously especially in rock breaking activities. On the other hand, there was no noise levels (L_{eq(30min)}) from the measurement taken from ET was more than 80 dB(A). However, it was a recurrent case from Greenview Terrace. The Contractor was reminded to enhance the on-site noise mitigation measures. The enhanced mitigation measures are proposed as follows: A staff from the Contractor was designated to take the reading of Leq (5mins) at the roof of Greenview Terrace. In case of the Leq (5min) exceed 73 dB(A), the Contractor would re-schedule the noisy plants to mitigate the escalation of noise level. The designated staff was reminded to record all the weather condition including raining and wind speed. Tools box talk for the Contractor's Team was carried out for reminding that the movable barrier should be placed to the breaking activities as much as possible. Movable noise barriers were placed on site and the movable noise barriers were also modified. Existing 25 ton rock breaker had been replaced by the another breaker. The breaking tap of the 25 ton rock breaker had 	

Complaint No.	Log Ref.	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
					 been replaced by another breaking tap. A joint filler wall was installed at the vertical face of westbound to mitigate the noise rebound from the vertical face to high level of Greenview Terrace. From the additional monitoring data and monitoring data under regular EM&A requirements, noise level (L_{eq, 30 min}) from 6 July to 31 August 2009 was in the range of 71 to 74 dB(A) to the nearest integer. The noise monitoring frequency was maintained in twice per week to check whether the mitigation measures are effective. From the information of the Contractor, all the mitigation measures were implemented on 31 August 2009. Noise levels (L_{eq, 30 min}) were also remeasured after the implementation of the mitigation measures. Noise level (L_{eq, 30 min}) from 4 Sep to 28 Sep 2009 was in the range of 70 to 73 dB(A) to the nearest integer after the implementation of the mitigation measures. 	
8	CIR-007	14 August 2009 at Outfall	Public through EPD	EPD has received a complaint (EPD ref: EP3/N22/RW/17978- 09) from Greenview Terrace regarding to daytime construction noise from the outfall construction site. The complaint date was corresponded to 14 August 2009.	<u>Findings/ Observations</u> Soil nailing, excavation, rock breaking and drilling, loading and unloading the materials were generally observed during monitoring period in July and August 2009. According to the noise monitoring results from 6 July 2009 to 31 August 2009 at NSR 9, the measured noise levels complied with the limit level in accordance with the EIAO-TM. <u>Conclusion/Remedial Action</u> This was a recurrent case from Greenview Terrace. The documented complaint for noise is considered to trigger the action level and the Contractor was reminded to enhance the on-site noise mitigation measures continuously. The enhanced mitigation measures are proposed as follows:	Same Case with Complaint No. 11

Complaint Lo No.	og Ref. E	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
					 A staff from the Contractor was designated to take the reading of Leq (5mins) at the roof of Greenview Terrace. In case of the Leq (5min) exceed 73 dB(A), the Contractor would re-schedule the noisy plants to mitigate the escalation of noise level. The designated staff was reminded to record all the weather condition including raining and wind speed. Tools box talk for the Contractor's Team was carried out for reminding that the movable barrier should be placed to the breaking activities as much as possible. Movable noise barriers were placed on site and the movable noise barriers were also modified. Existing 25 ton rock breaker had been replaced by the another breaker. The breaking tap of the 25 ton rock breaker had been replaced by another breaking tap. A joint filler wall was installed at the vertical face of westbound to mitigate the noise rebound from the vertical face to high level of Greenview Terrace. From the additional monitoring data and monitoring data under regular EM&A requirements, noise level (L_{eq, 30 min}) from 6 July to 31 August 2009 was in the range of 71 to 74 dB(A) to the nearest integer. The noise monitoring frequency would be maintained in twice per week to check whether the mitigation measures are effective. From the information of the Contractor, all the mitigation measures were implemented on 31 August 2009. Noise levels (L_{eq, 30} min) from 4 Sep to 28 Sep 2009 was in the range of 70 to 73 	

Complaint No.	Log Ref.	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
					dB(A) to the nearest integer after the implementation of the mitigation measures.	
9	CIR-008	17 August 2009 at Portion D of the Site	Public through SOR	SOR has received a complaint (SOR ref:(DC/2007/12)/M45/500/02546) from Long Bench Garden regarding to noise nuisance generated from the daytime construction work (rock-breaking) in Portion D of the Site. The complaint date was corresponded to 17 August 2009.	 <u>Findings/ Observations</u> Soil nailing, excavation, rock breaking and drilling, loading and unloading the materials were generally observed during monitoring period in August 2009. The monitoring results from 3 August 2009 to 31 August 2009 at NSR 8 showed the measured noise levels complied with the limit level in accordance with the EIAO-TM. The contractor and the environmental team were also undertaken site investigation on the subject area in response to the complaint. Noise mitigation measures should be enhanced continuously due to this complaint. <u>Conclusion/Proposed Action</u> The documented complaint for noise is considered to trigger the action level and the Contractor was reminded to enhance the on-site noise mitigation measures continuously. The enhanced mitigation measures are recommended as follows: Movable noise barriers had been placed towards the direction of Long Bench Garden, particular for the pipe pile works in the portal. Tools box talk for construction team was carried out for reminding that the movable barrier should be placed to the breaking activities as much as possible. The existing noisy 25 ton rock breaker had been replaced by the other breaker. A joint filler wall had been fixed on the vertical face of west bound to absorb the noise generated towards Long Beach Garden. 	Closed

Complaint No.	Log Ref.	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
					week by ET due to this complaint. The measured noise levels were complied with the limit level in accordance with the EIAO-TM. No further complaint was received from Long Bench Garden within the reporting month.	
10	CIR-009	22 August 2009 at Outfall	Public through SOR	A complaint (SOR ref: (DC/2007/12)/M45/500/02628) was received from Greenview Terrace regarding to daytime construction noise level (Leq(30min)) was sometimes exceeded 75 dB(A) at the outfall construction site. The complaint date was corresponded to 22 August 2009.	 <u>Findings/ Observations</u> Soil nailing, excavation, rock breaking and drilling, loading and unloading the materials were generally observed during monitoring period in July and August 2009. The monitoring results from 6 July 2009 to 31 August 2009 at NSR 9 showed the measured noise levels complied with the limit level in accordance with the EIAO-TM. The contractor and the environmental team were also undertaken site investigation on the subject area in response to the complaint. Noise mitigation measures should be enhanced continuously due to this complaint. <u>Conclusion/Proposed Action</u> The documented complaint for noise is considered to trigger the action level and the Contractor was reminded to enhance the on-site noise mitigation measures are recommended as follows: A staff from the Contractor was designated to take the reading of Leq (5mins) at the roof of Greenview Terrace. In case of the Leq (5min) exceed 73 dB(A), the Contractor would re-schedule the noisy plants to mitigate the escalation of noise level. The designated staff was reminded to record all the weather condition including raining and wind speed. Tools box talk for the Contractor's Team was carried out for reminding that the movable barrier 	Same Case with Complaint No. 11

Complaint No.	Log Ref.	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
					 should be placed to the breaking activities as much as possible. Movable noise barriers were placed on site and the movable noise barriers were also modified. Existing 25 ton rock breaker had been replaced by the another breaker. The breaking tap of the 25 ton rock breaker had been replaced by another breaking tap. A joint filler wall was installed at the vertical face of westbound to mitigate the noise rebound from the vertical face to high level of Greenview Terrace. From the additional monitoring data and monitoring data under regular EM&A requirements, noise level (L_{eq, 30 min}) from 6 July to 31 August 2009 was in the range of 71 to 74 dB(A) to the nearest integer. The noise monitoring frequency was maintained in twice per week to check whether the mitigation measures are effective. From the information of the Contractor, all the mitigation measures were implemented on 31 August 2009. Noise levels (L_{eq, 30 min}) from 4 Sep to 28 Sep 2009 was in the range of 70 to 73 dB(A) to the nearest integer after the implementation of the mitigation measures. In our investigation, there was no exceedance of the measured noise level at Greenview Terrace. 	
11	CIR-010	24 September 2009 at Outfall	Public through SOR	A complaint (SOR ref: (DC/2007/12)/M45/500/02749) was received from Greenview Terrace regarding to daytime construction noise level	<u>Findings/ Observations</u> Soil nailing, excavation, rock breaking and drilling, loading and unloading the materials were generally observed during monitoring period in July and September 2009. The monitoring results from 6 July 2009 to 29 October 2009 at NSR 9 showed the	Closed

Complaint No.	Log Ref.	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
				(Leq(30min)) was sometimes exceeded 75 dB(A) at the outfall construction site.	 measured noise levels complied with the limit level in accordance with the EIAO-TM. The contractor and the environmental team were also undertaken site investigation on the subject area in response to the complaint. Noise mitigation measures have been enhanced continuously due to this complaint. Conclusion/Proposed Action The documented complaint for noise is considered to trigger the action level and the Contractor was reminded to enhance the on-site noise mitigation measures continuously. The enhanced mitigation measures were implemented as follows: A staff from the Contractor was designated to take the reading of Leq (5mins) at the roof of Greenview Terrace. In case of the Leq (5min) exceed 73 dB(A), the Contractor would re-schedule the noisy plants to mitigate the escalation of noise level. The designated staff was reminded to record all the weather condition including raining and wind speed. Tools box talk for the Contractor's Team was carried out for reminding that the movable barrier should be placed to the breaking activities as much as possible. Movable noise barriers were also modified. Existing 25 ton rock breaker had been replaced by the another breaker. The breaking tap of the 25 ton rock breaker had been replaced by another breaking tap. A joint filler wall was installed at the vertical face of westbound to mitigate the noise rebound from the vertical face to high level of Greenview Terrace. 	

Complaint No.	Log Ref.	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
					From the additional monitoring data above and the regular monitoring under EM&A requirements, the measured noise levels were complied with the limit level in accordance with the EIAO-TM. From the noise level on 25 September 2009 and 2 October 2009, the trend of noise level seemed to be increased since the decoration work at 14/F Greenview Terrace was the domain noise source during the monitoring. The noise level during that time would be considered for reference only. There was no exceedance of the measured noise level at Greenview Terrace in our investigation.	
12	CIR-011	2 October 2009 at I-3	Public through EPD	EPD has received a complaint (EPD ref: EP3/N22/RW/22016- 09) regarding to construction dust at the Intake-3 on 2 October 2009.	 <u>Findings/ Observations</u> There is no representative air monitoring location as stated in the EM&A Manual. The contractor and the environmental team were undertaken site investigation on the subject area at 08-Oct-09 in response to the complaint. Air quality mitigation measures as recommended in EIA have been implemented by the Contractor. However, the dust impact by exposed area could be further improved. The mitigation measures during the site investigation were observed as follows: Water spraying was provided to the exposed surface. Wheel washing facilities for dump trucks was provided at the site exit. Water spraying was provided during excavation and loading/unloading works 	Closed
					Conclusion/Proposed Action Based on our site inspection, the complaint for dust is	

Complaint No.	Log Ref.	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
					considered justifiable as it is due to windy erosion on the exposed surface. Air quality mitigation measures as recommended in EIA have also been implemented in order to control and minimise the air quality impact arising from the construction activities. In view of the recent dry season, the haul road and the exposed area would be dry very quickly. The Contractor was recommended to provide water spraying more frequently especially in the dry season.	
13	(DC/2007/12)/ M45/500/2923 & email on 11 November 2009 from MCSJV	9 November 2009 at Outfall	Greenview Terrace through EPD	Movable noise barrier was not placed close enough to the piling machine.	Immediate Action The rig was re-orientated and the barrier was placed closed to the drilling head. Follow-up Action • Training was conducted to the operator to ensure that the workers aware that the barrier should be placed closed not the drilling head not the machine itself. • In order to prevent future occurrence, a permit to dig system was adopted. It should be checked by the Contractor and endorsed by the SOR before starting the drilling rig.	Closed
14	(DC/2007/12)/ M45/500/2978 & email on 19 November 2009 from MCSJV	18 November 2009 at Outfall	Greenview Terrace through EPD	Rock-breaking activity carried out in the eastern area of Portion D, closest to Greenview Terrace, was not totally screened and line of sight of the breaker was observed from the NSR.	 The follow up action was checked and a permit to dig system has been implemented. Follow up Action The bamboo scaffold was extended further away from stage 3 scaffold to further screen off the activities to the Greenview. The length of the extension was about 8 to 10 m. A strong reminded was given to the relevant staff and sub-contractor and the barrier should be placed in the right orientation before breaking. 	Closed

Complaint No.	Log Ref.	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
					 The mitigation measures were strictly followed as stated in the proposal. The follow up action and relevant records was 	
15.	CIR-12	19 January 2010 at Intake-3 construction site	Public through EPD	EPD has received a public complaint (EPD ref: EP3/N22/RW/01270-10) regarding effluent discharge at Intake-3 construction site on 19 January 2010.	checked.Findings/ ObservationsThe effluent discharge on 19 January 2010 was due to the leakage of Gabion wall at 13. The water from the rock drilling work was flowing through the gap of the Gabion Wall to the watercourses at 13.Immediate ActionThe contractor had sealed the gap at the Gabion Wall immediately after the incident.Conclusion/Proposed ActionBased on our site inspection, the complaint was due to leakage of Gabion wall. The area would be checked and maintained continuously to avoid recurrence case. The above identified mitigation measures have been implemented by the Contractor on 22 January 2010 and ET has also checked the implementation on 31 January 2010. The ET will closely inspect the watercourses during the routine site inspections and provide advice to the Contractor.	Closed.
16	CIR-13	19 January 2010 at Intake-3 construction site	Public through EPD	EPD has received a public complaint (EPD ref: EP3/N22/RW/01319-10) regarding daytime construction noise at Intake-3 construction site on 19 January 2010.	Findings/ Observations The monitoring station concerned is NSR6 (i.e. at Squatter facing to the construction site). Excavation, soil nailing, rock drilling and breaking, loading and unloading the materials were generally observed during monitoring period in mid-January 2010. The measured noise levels in January 2010 complied with the limit level in accordance with the EM&A Manual. These cases would also be treated as two action level exceedances on noise. The Contractor and the Environmental Team were also undertaken site	Closed.

Complaint No.	Log Ref.	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
17	CIR-13	21 January	Public	EPD has received a public	 investigation on the subject area in response to complaint. The noise mitigation measures during the site investigation were recommended as follows: Sound insulation sheets were installed covering the working area during breaking and rock drilling in order to block the line of sight to the NSR. Noise insulation materials were used to enclose the drilling rig tightly. <u>Conclusion/Proposed Action</u> Based on the site inspection and monitoring results, the complaint was due to noise generated by rock breaking work. The identified mitigation measures have been discussed with the Contractor and the Contractor has submitted the remedial proposal. The proposal was implemented by the Contractor on 25 January 2010 and ET has also checked the implementation on 31 January 2010. The Contractor was also advised to review the mitigation measures from time to time near the NSR at I3. The ET will closely inspect the area during the routine site inspections and provide advice to the Contractor. 	Closed
		2010 at Intake-3 construction site	through EPD	complaint (EPD ref: EP3/N22/RW/01444-10) regarding daytime construction noise at Intake-3 construction site on 21 January 2010.	No. 16.	
18	CIR-14	27 August 2010 near Intake-2 construction site	Public through DSD	DSD has received a public complaint regarding choked sewage manhole (MH1) at Lo Wai Road construction site on 27 August 2010.	<u>Findings/ Observations</u> During DSD inspection on 30 August 2010, improper discharge from the site to manhole, MH3, which is located downstream of MH1 was observed. ET had received those information from the Contractor on 09	Closed

Log Ref.	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
				 September 2010. Site investigation was also carried out by SOR's representative with the Contractor on 01 September 2010. Checking with the site log, the construction activity at Lo Wai on 27 August 2010 was pipe jacking only. No site formation works was undertaken. The contractor and SOR's representative have undertaken site investigation on the subject area on 01 September 2010. On-site flow test at Portion G had conducted. Maeda works area is located at the lower section of Lo Wai Road and manhole MH3 is adjacent to the works area. MH1 (choked sewage manhole) is located at the upper section of Lo Wai Road. MH1 and MH2 are outside the works area. Water flow test for manhole MH2 and MH3 and no blockage was observed. Sewage overflow was found at MH1 during the joint site inspection on 01 September 2010 It was reported that there were water pipes connected between the site and the MH3. Discharge was found in MH3 during DSD inspection. The contractor claimed that the purpose of the water pipes was to direct the storm water and underground water inside the concrete pipe "pipe jacking". There was no discharge license for that portion. The Contractor had stopped on 01 September 2010 the water pumping to MH3 and apply the discharge license for the Lo Wai site. 	
	Log Ref.	Log Ref. Date/Location	Log Ref. Date/Location Complainant	Log Ref. Date/Location Complainant Details of Complaint Image: Complex state of the state	Expression Expression of comparison September 2010. Site investigation was also carried out by SOR's representative with the Contractor on 01 September 2010. Checking with the site log, the construction activity at LO Wai on 27 August 2010 was pipe jacking only. No site formation works was undertaken. The contractor and SOR's representative have undertaken site investigation on the subject area on 01 September 2010. On-site flow test at Portion G had conducted. • Maeda works area is located at the lower section of Lo Wai Road and manhole MH3 is adjacent to the works area. MH1 (choked sewage manhole) is located at the upper section of Lo Wai Road. MH2 manhole is located middle section of Lo Wai Road. MH1 and MH2 are outside the works area. • Water flow test for manhole MH2 and MH3 and no blockage was observed. • Sewage overflow was found at MH1 during the joint site inspection on 01 September 2010 • It was reported that there were water pipes connected between the site and the MH3. Discharge was found in MH3 during DSD inspection. • There was no discharge license for that portion. The Contractor had stopped on 01 September 2010 the water pipes was to direct the storm water and underground water inside the concrete pipe "pipe jacking". • There was no discharge license for that portion. The Contractor had stopped on 01 September 2010 the water pumping to MH3 and apply the discharge license for the Lo Wai site.

Complaint No.	Log Ref.	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
					and no sewage overflow from MH1 was observed. The Contractor was requested to divert the storm water to desilting system prior to discharge while no such discharge can be made until a valid discharge license is granted. The ET will closely inspect the vicinity area during the routine site inspections and provide advice to the Contractor as necessary.	
19&20	CIR-15	17 November 2010 at outfall construction site	Public through EPD	EPD has received a public complaint (EPD ref: EP3/N22/RW/24002-10 and EP3/N22/RW/24006-10) regarding daytime construction noise about derrick barge squeaking and rock breaking at Outfall construction site on 17 November 2010.	 <u>Findings/ Observations</u> Drilling, excavation, marine mud dredging, rock breaking, mucking-out process and crane operation were observed during site inspections on 2 and 17 December 2010. The monitoring results measured on 15 November 2010 and 25 November at NSR 9 showed that the measured noise levels complied with the limit level (75 dB(A)) in accordance with the EIAO- TM. As part of the investigation of the noise complaints, the Contractor and the ET conducted additional site inspections and reviewed and audited the current noise mitigation practices and the Contractor's environmental performance on-site. <u>Conclusion / Proposed Action</u> The documented complaints for noise triggered the action level of the noise monitoring. The Contractor had implemented the following on-site noise mitigation measures: Erection of temporary noise insulation sheet at the rim of the spiral ramp construction site; Moveable barriers for rock breaker; Wrapping noise absorptive material at the rock breaker head; Tailor made noise enclosure for drilling rig; Semi-enclosed muck out process at muck hopper; 	Closed

Complaint No.	Log Ref.	Date/Location	Complainant	Details of Complaint	Investigation / Mitigation Action	Status
					 Use of rock splitter (which is a relatively quieter method in contrast to rock breaker); and Noise insulation blanket enclosing the crane engine of derrick barge. Noise monitoring was increased to twice per week and the results were reported in the Complaint Investigation Report submitted on 24 December 2010. The measured noise level after implementation of the noise mitigation measures ranged from 69 to 73 dB(A) to the nearest integer and complied with the limit level in accordance with the EIAO-TM. The results showed that noise mitigation measures were effective. The contractor was advised to review the mitigation measures from time to time near the NSR 9. The ET would closely inspect the area during the routine site inspections and provide advice to the Contractor. 	
Signed by E	nvironmental Tea	am Leader:	· · · · · ·	Harftentheory	Date: 1 January 2011	