

Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2

Annual EM&A Review Report

November 2013 to October 2014

#### Meinhardt Infrastructure and Environment Limited

# Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2

### Annual EM&A Review Report

(November 2013 to October 2014)

Certified by:	Fredrick Leong
Position:	Environmental Team Leader
Date:	19 November 2014



Our ref

AFK/TK/jn/bw/T329380/22.05/L-0049

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Your ref

Hyder-Arup-Black & Veatch Joint Venture c/o Hyder Consulting Limited 47/F Hopewell Centre 183 Queen's Road East Wanchai, Hong Kong

Dear Sir.

19 November 2014 By Fax (2805 5028) & Post

Attn: Mr. James Penny

EM&A for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2 (between Tai Hang to Wo Hop Shek Interchange) - Entrusted Works Environmental Permit No. EP-324/2008/B Annual EM&A Report for November 2013 to October 2014 for the portion of Stage 2 works entrusted to CEDD under Contract No. CV/2012/09

We refer to the Annual EM&A Report for November 2013 to October 2014 for the Project received on 13 and 17 November 2014 submitted by ET via email. We confirm we have no comment.

Yours faithfully for MOTT MACDONALD HONG KONG LIMITED

Terence Kong

Independent Environmental Checker

C.C. HyD – Mr. Raymond T W Kong/ Mr. Dennis Wong (Fax: 2714 5198)

CEDD/BCP - Mr. Chris Wong / Mr. Desmond Lam (Fax: 2714 0103)

AECOM - Mr. Alan Lee (Fax: 3922 9797)

Meinhardt Infrastructure and Environment Limited – Mr. Fredrick Leong (Fax: 2540 1580)



Date	Revision	Prepared By	Checked By	Approved By
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#### **EXECUTIVE SUMMARY**

This report documents the findings of EM&A works conducted during the period between November 2013 and October 2014.

The impact stage EM&A programme for the Project includes air quality, noise and water quality monitoring.

The EM&A programme was carried out by the ET in accordance with the EM&A Manual requirements. It is concluded from the environmental monitoring and audit works that adequate environmental mitigation measures have been implemented by the civil works contractors where appropriate in the reporting period.

In the reporting period, a total of 36 exceedance events were recorded. Only 2 of the exceedances of Suspended Solids and Turbidity recorded on 18 December 2013 were concluded to be project related. Necessary remedial actions have been taken and the exceedances have been rectified.

No environmental non-compliance was noted. One environmental complaint, which was concluded as an invalid complaint under this Project after investigations, was received. No environmental related prosecution or notification of summons was received in the reporting period.

The box culvert works have been partially completed by the end of March 2014 except the last construction activity, i.e. installation of a base slab at Box Culvert ID4. Due to the loading requirement of a fresh water main under the box culvert, installation of the base slab at Box Culvert ID4 has to be scheduled in November 2015 after the utilities diversions were completed, and therefore the construction works were temporary suspended. The 4-week post construction water quality monitoring will be conducted after the installation of the base slab finishes, hence the completion of the box culvert works. As such, impact monitoring for water quality is anticipated to be resumed in November 2015 during the course of remaining box culvert works.



#### 1 INTRODUCTION AND PROJECT INFORMATION

#### 1.1 Background

- 1.1.1 The Project is a Designated Project under the Environmental Impact Assessment Ordinance (EIAO) (Cap. 499). An Environmental Impact Assessment (EIA) Report together with an Environmental Monitoring and Audit (EM&A) Manual were approved on 14 July 2000 (Register Number: EIA-043/2000). The Project is governed by an Environmental Permit (EP) (EP-324/2008) which was granted on 23 December 2008. A variation of EP (VEP) was applied and the VEP (EP-324/2008/A) was subsequently granted on 31 January 2012. An additional VEP has been applied on 24 February 2014 and the VEP (EP-324/2008/B) was subsequently granted on 17 March 2014.
- 1.1.2 Chun Wo Construction & Engineering Co Ltd (Chun Wo) was commissioned by the Civil Engineering and Development Department (CEDD) as the Civil Contractor for the Entrusted Portion of Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2. Meinhardt Infrastructure & Environment Ltd (MIEL) has been appointed by Chun Wo as the Environmental Team (ET) to fulfill the corresponding EM&A requirements pursuant to Environmental Permit No. EP-324/2008/B in accordance with the Updated EM&A Manual (dated October 2013) for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2. The EM&A programme commenced in 5 November 2013.
- 1.1.3 **Figure 1** shows the works areas for the Entrusted Portion of Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2.

#### 1.2 Construction Programme and Activities

- 1.2.1 The master construction programme for the entire construction period is presented in **Appendix A**. The major construction activities undertaken in the reporting period are summarized below:
  - Hoarding and fencing erection, initial survey and base slab demolition;
  - Site clearance and tree felling;
  - Excavation works and base slab demolition;
  - Pre-drilling works and piling works;
  - Piling works for Bridge E;
  - Extension of box culverts;
  - Cable detection and trial trenches;
  - Tree Felling Works;
  - Trial Pit Excavation;
  - Bored pile and bored pile wall construction:
  - Catch Fence Installation;



- Extension of Bored pile for bored pile wall;
- Erection of site office;
- Construction of haul road and temporary soil platform for geotechnical works;
- Slope upgrading works;
- Noise barrier installation;
- Mini pile construction;
- Load test for installed Mini pile;
- Water pipe Installation;
- Diversion of DN1400;
- · Filling Works;
- Laying of storm drains;
- Laying of concrete pipe works;
- Pile Cap works;
- Receiving & Jacking Pit;
- Retaining Structure;
- Road works at Fanling Highway;
- Sewer works;
- Soil nail construction;
- RC structure of new valve control & Telemetry House;
- Demolition of Huts;
- Abutment construction for Bridge E;
- Excavation by trenchless method;
- Pier Construction;
- Socket H-pile installation;
- Site formation;
- Installation of DN1200 Drainage Pipe by Pipe Jacking Method Across Fanling Highway;
- Trim pile head for bored pile wall;



- Diversion of existing cycle track; and
- Utilities duct laying.

#### 1.3 Project Organisation

1.3.1 The project organization structure is shown in **Appendix B**. The key personnel contact names and numbers for the Project, together with the general enquiry hotline, are summarised in **Table 1.1**.

Table 1.1 Contact Information of Key Personnel

Party	Role	Position	Name	Tele- phone	Fax
	Engineer's Representative	Senior Resident Engineer	Mr. Alan Lee	2171 3303	2171
AECOM		Resident Engineer (Environmental)	Mr. Perry Yam	2171 3350	3498
Mott MacDonald	Independent Environmental Checker (IEC)	IEC	Mr. Terence Kong	2828 5919	2827 1823
		Site Agent	Mr. Daniel Ho	2638 6144	2638
Chun Wo	Contractor	Senior Environmental Officer	Mr. Sam Lam	2638 6168	7077
		Environmental Officer	Mr. Victor Huang	2638 6181	
Meinhardt	Environmental Team (ET)	ET Leader	Mr. Fredrick Leong	2859 1739	2540 1580
Enquiry Hotline	General Enquiry		Ms Helena Mak	6355 1731	

#### 1.4 Purpose of the Report

1.4.1 This is the Annual EM&A Review Report which summaries the impact monitoring results and audit findings for the Project during the reporting period between November 2013 and October 2014.

#### 2 SUMMARY OF EM&A REQUIREMENTS

#### 2.1 Environmental Impact Hypothesis under Monitoring

- 2.1.1 The EIA Report concluded that with proper mitigation measures implemented, fugitive dust emission during construction phase would be controlled and will not exceed the acceptable criteria.
- 2.1.2 For construction noise, exceedances were predicted only at 2 schools (SR41 Wong Shiu Chi Middle School and SR45 HK Teacher's Association Secondary School) but they are out of the scope of this EM&A Programme. Hence the EIA did not anticipate any noise exceedances during construction phase within the scope of this EM&A Programme.



- 2.1.3 For water quality, it is also anticipated that with proper protection measures being implemented, the water quality during construction phase would be locally confined and controllable.
- 2.1.4 The above criteria have been tested under this EM&A Programme during the reporting period.

#### 2.2 Monitoring Requirements

2.2.1 In accordance with the Updated EM&A Manual, environmental parameters including air quality, noise and water quality have been monitored. The specific parameters, monitoring frequency and the respective Action and Limit Levels are given in **Table 2.1** and the location of the monitoring station is shown in the **Figure 2**.

**Table 2.1 Monitoring Parameter** 

Parameter	Unit	Action Level	Limit Level	Frequency		
	Air Quality					
1-hour TSP	μg/m³	292.7	500	Three times every 6 days		
24-hour TSP	μg/m³	170.3	260	Once every 6 days		
		Construction	n Noise			
Leq 30min	dB(A)	When one documented valid complaint is received	75	Once every Week		
		Water Qu	ality			
Depth				Three occasions per week		
Temperature	°C			Three occasions per week		
Salinity	ppt			Three occasions per week		
рН				Three occasions per week		
DO	mg/L	6.7	4mg/L or 40% saturation at 15 degree Celsius	Three occasions per week		
DO Saturation	%			Three occasions per week		
Turbidity	NTU	81.9NTU or 120% of upstream control station's Tby of the same day	91.9NTU or 130% of upstream control station's Tby of the same day	Three occasions per week		
SS	mg/L	42.6 mg/L or 120% of upstream control station's SS of the same day	46.8 mg/L or 130% of upstream station's SS of the same day and specific sensitive receiver water quality requirements	Three occasions per week		

2.2.2 The Event and Action Plan for the occurrence of non-compliance of the criteria of the monitoring parameters is annexed in Appendix C.



#### Temporary Suspension of Box Culvert Works and Water Quality Monitoring

2.2.3 The box culvert works have been partially completed by the end of March 2014 except the last construction activity, which is the installation of a base slab at Box Culvert ID4. Due to the loading requirement of a fresh water main under the box culvert, installation of the base slab at Box Culvert ID4 has to be scheduled in November 2015 after the utilities diversions were completed, and therefore the construction works are temporarily suspended. The 4-week post construction water quality monitoring will be conducted after the installation of the base slab finishes, hence the completion of the box culvert works. As such, impact monitoring for water quality is anticipated to be resumed in November 2015 during the course of remaining box culvert works.

#### 2.3 Environmental Mitigation Measures

2.3.1 Environmental mitigation measures have been recommended in the EM&A Manual and is given in **Appendix D**. The implementation status for the reporting period is also given in the Appendix.

#### 3 SUMMARY OF EM&A MONITORING DATA

#### 3.1 Monitoring Data

3.1.1 Monitoring has been conducted in accordance with the specification in the EM&A Manual in the reporting period. Meteorological data for the reporting period have been extracted from Hong Kong Observatory and are given in **Appendix E**. Monitoring data with graphical presentation for the reporting period have been given in **Appendix F**. A summary on the monitoring results has also been given in **Table 3.1**.

Table 3.1 Summary of Monitoring Data in the Reporting Period

Monitoring Location	Minimum	Maximum	Average		
	Air (	Quality			
	1-hour Total Sus	pended Particulate			
SR77	34.6μg/m <sup>3</sup>	283.0μg/m <sup>3</sup>	135.5μg/m <sup>3</sup>		
	24-hour Total Sus	spended Particulate			
SR77	14.7μg/m <sup>3</sup>	402.1μg/m <sup>3</sup>	137.8μg/m <sup>3</sup>		
	Construc	tion Noise			
SR77	54.5dB(A)	73.5dB(A)	64.4dB(A)		
	Water	Quality			
	[	00			
15	4.4mg/L	10.1mg/L	8.0mg/L		
Baseline Data	6.6mg/L	8.8mg/L	8.0mg/L		
30% disturbance due to	4.6mg/L	6.2mg/L	5.6mg/L		
human activity					
		bidity			
I5	6.3NTU	86.7NTU	24.7NTU		
Baseline Data	12.4NTU	91.5NTU	26.1NTU		
30% disturbance due to	16.1NTU	118.9NTU	34.0NTU		
human activity					
SS					
15	2.0mg/L	72.5mg/L	11.9mg/L		
Baseline Data	6.5mg/L	46.5mg/L	16.4mg/L		
30% disturbance due to	8.5mg/L	60.5mg/L	21.3mg/L		
human activity					



#### 3.2 Summary of Monitoring Exceedances

- 3.2.1 The number of exceedance events recorded in the reporting period is summarized in **Table 3.2**.
- 3.2.2 Investigations for the exceedance events in the reporting period have been completed. Only 2 of the exceedances of Suspended Solids and Turbidity respectively recorded on 18 December 2013 were concluded to be project related. Necessary remedial actions have been taken and the exceedances have been rectified. The respective investigation reports have been presented in the respective Monthly EM&A Reports.

Table 3.2 Summary of Exceedance Events in the Reporting Period

Parameter		Number of Exceedance Events	Number of Project Related Exceedance Events
	Air (	Quality	
1-hour Total Suspended	Action Level	0	0
Particulates	Limit Level	0	0
24-hour Total Suspended	Action Level	17	0
Particulates	Limit Level	4	0
	Construc	ction Noise	
Leg 30min	Action Level	0	0
Leq 30mm	Limit Level	0	0
	Water	Quality	
DO	Action Level	2	0
	Limit Level	0	0
Turbidity	Action Level	2	0
Turbidity	Limit Level	2	1
SS	Action Level	1	0
33	Limit Level	8	1

- 3.2.3 The Contractor has been reminded to strengthen the mitigation measures including:
  - Building a river diversion structure at the river channel to protect the river from potential site runoff and fill up the leakage and strengthen the river diversion works to avoid future leakage;
  - Pay attention on accidental site runoff, including construction of additional protection structure if necessary, to minimize the risk of site runoff;
  - Silty effluent should be treated/desilted before discharged. Untreated effluent should be prevented from entering public drain channel;
  - Channels or earth bunds or sand bag barriers should be provided on site to prevent surface runoff and properly direct stormwater to silt removal facilities;
  - Covering of exposed slopes near the river,
  - Watering and covering of exposed slopes and stockpiles to avoid fugitive dust emission;
  - Water spraying should be properly implemented whenever necessary for the unpaved roads, access roads and construction areas;



- All vehicles should be washed to remove any dusty materials before leaving the construction site, and the wheel washing facilities should be properly maintained to ensure proper functioning;
- Ensuring regular maintenance and cleaning of waste storage area;
- All types of wastes, both on land and floating in the river stream, should be collected and sorted properly, and also be disposed timely and properly;
- Refuse collection bins should be labelled properly;
- Ensuring the provision of tree protection zone for all existing trees to be transplanted or retained; and
- All chemicals stored on site should be provided with drip trays.

#### 4 ENVIRONMENTAL NON-CONFORMANCE

#### 4.1 Summary of Environmental Non-Compliance

4.1.1 No environmental non-compliance was recorded in the reporting period.

#### 4.2 Summary of Environmental Complaints

4.2.1 One (1) environmental complaint was received in the reporting period regarding water quality of Ma Wat River. Investigation has been conducted and the complaint was considered as invalid under this Project.

#### 4.3 Summary of Environmental Summon and Successful Prosecutions

4.3.1 No environmental related prosecution or notification of summons was received in the reporting period. The cumulative statistics are provided in is provided in **Appendix G**.

#### 5 REVIEW OF THE VALIDITY OF EIA PREDICTIONS

5.1.1 The EIA report predicted that with proper implementation of the mitigation measures for air, noise and water quality, environmental impact would be locally confined and controllable. During the reporting period, only 2 exceedances were recorded in 1 day due to a leakage at the bund used for river diversion. The exceedance event is rectified after the leakage has been blocked. Other exceedances were concluded not project related. Hence, it is considered that the EIA predictions is valid for the reporting period.

#### 6 REVIEW OF EM&A PROGRAMME

- 6.1.1 The EM&A programme was considered successfully and adequately conducted during the course of the reporting period.
- 6.1.2 The box culvert works have been partially completed by the end of March 2014 except the last construction activity, which is the installation of a base slab at Box Culvert ID4. Due to the loading requirement of a fresh water main under the box culvert, installation of the base slab at Box Culvert ID4 has to be scheduled in November 2015 after the utilities diversions were completed, and therefore the construction works were temporarily suspended. The 4-week post construction water quality monitoring will be



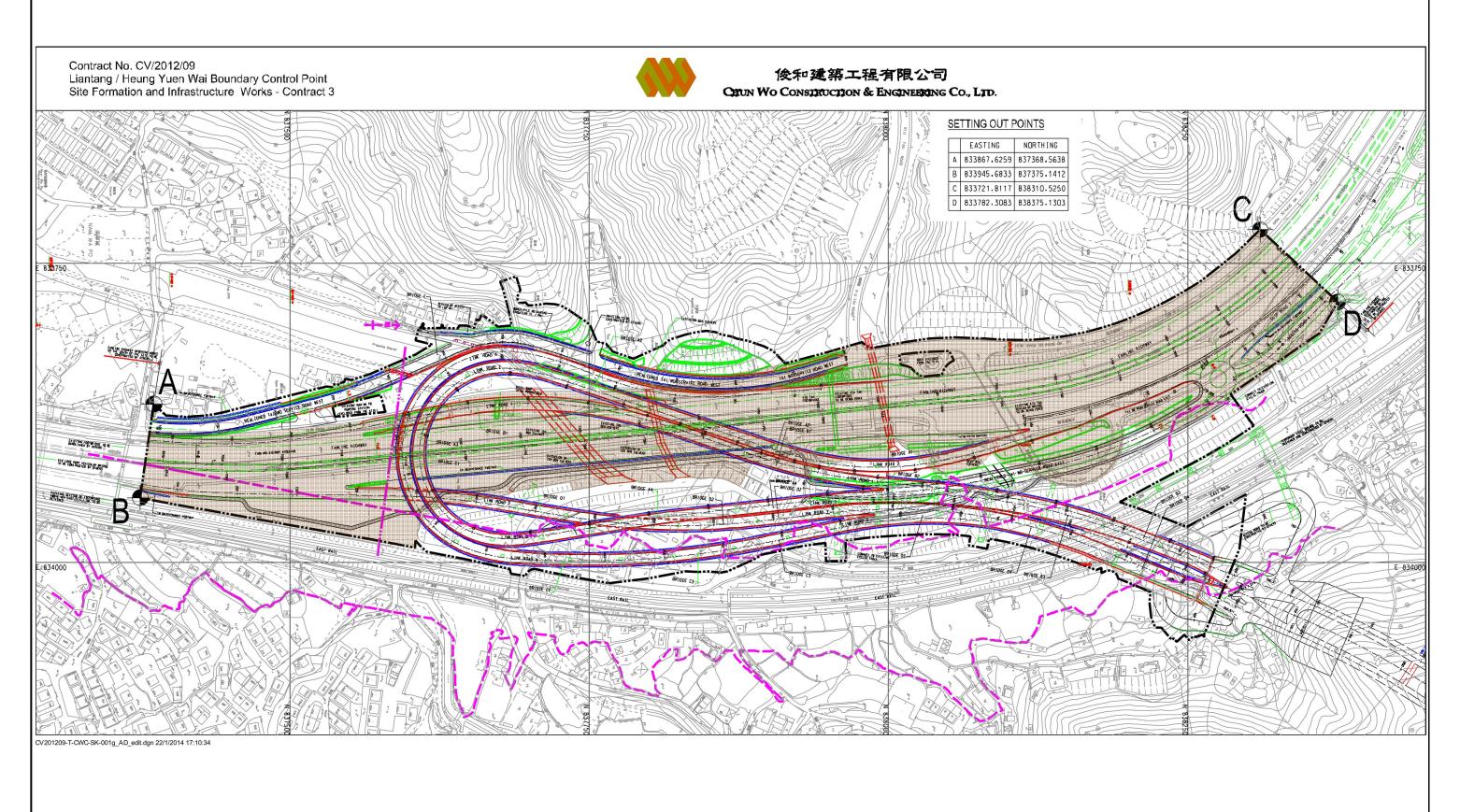
conducted after the installation of the base slab finishes, hence the completion of the box culvert works. As such, impact monitoring for water quality is anticipated to be resumed in November 2015 during the course of remaining box culvert works.

#### 7 CONCLUSIONS

- 7.1.1 The EM&A programme was carried out by the ET in accordance with the EM&A Manual requirements. It is concluded from the environmental monitoring and audit works that adequate environmental mitigation measures have been implemented by the civil works contractors where appropriate in the reporting period.
- 7.1.2 In the reporting period, a total of 36 exceedance events have been recorded. Only 2 of the exceedances of Suspended Solids and Turbidity recorded on 18 December 2013 were concluded to be project related. Necessary remedial actions have been taken and the exceedances have been rectified.
- 7.1.3 No environmental non-compliances were noted. One environmental complaint, which was concluded as an invalid complaint under this Project after investigations, was received. No environmental related prosecution or notification of summons were received in the reporting period.
- 7.1.4 The box culvert works have been partially completed by the end of March 2014 except the last construction activity, i.e. installation of a base slab at Box Culvert ID4. Due to the loading requirement of a fresh water main under the box culvert, installation of the base slab at Box Culvert ID4 has to be scheduled in November 2015 after the utilities diversions were completed, and therefore the construction works are temporarily suspended. The 4-week post construction water quality monitoring will be conducted after the installation of the base slab finishes, hence the completion of the box culvert works. As such, impact monitoring for water quality was not necessary in the reporting period due to temporary suspension of the construction works and is anticipated to be resumed in November 2015 during the course of remaining box culvert works.



### **Figure**



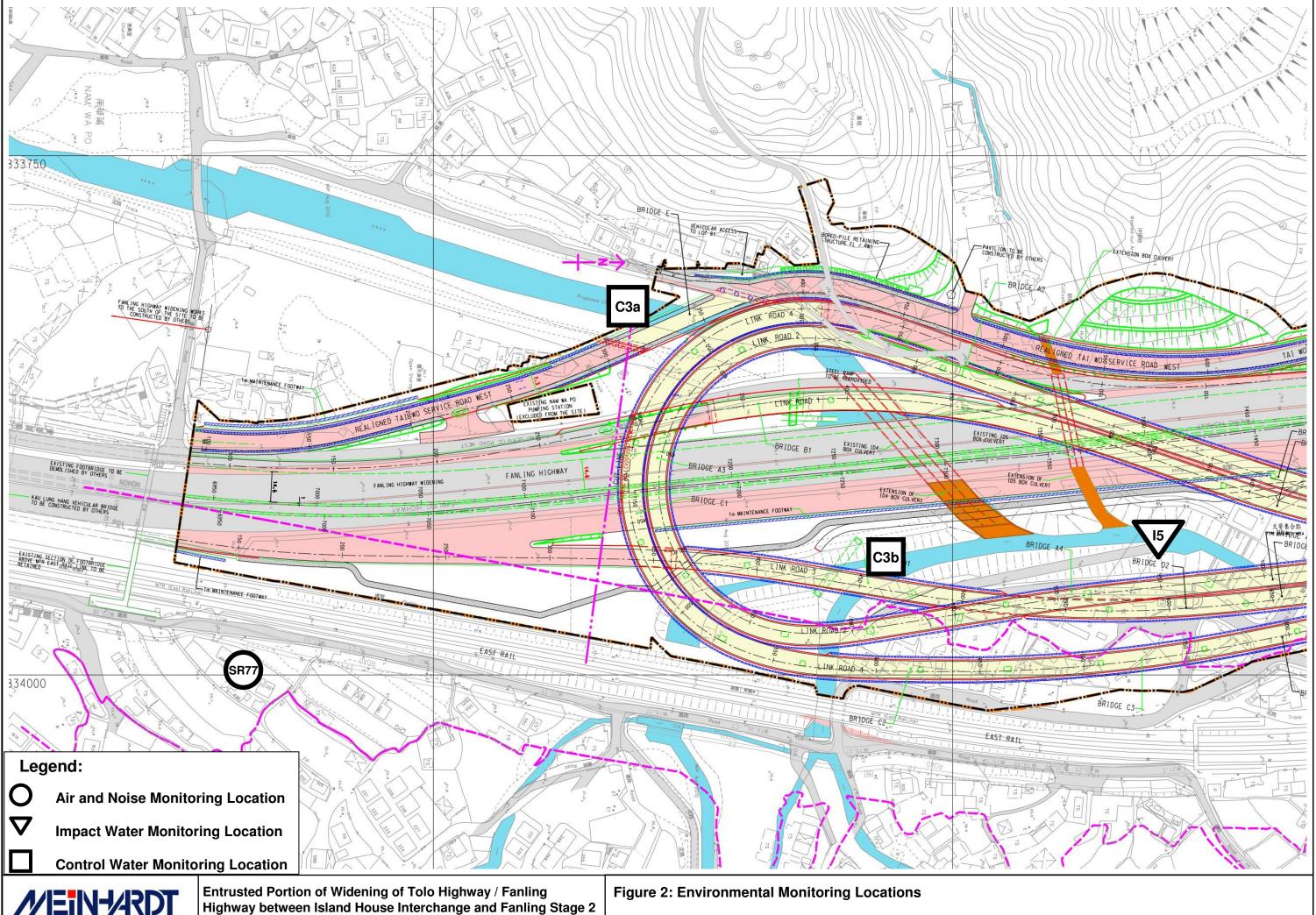
#### Legend:

Works Area for Entrusted Portion



Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2

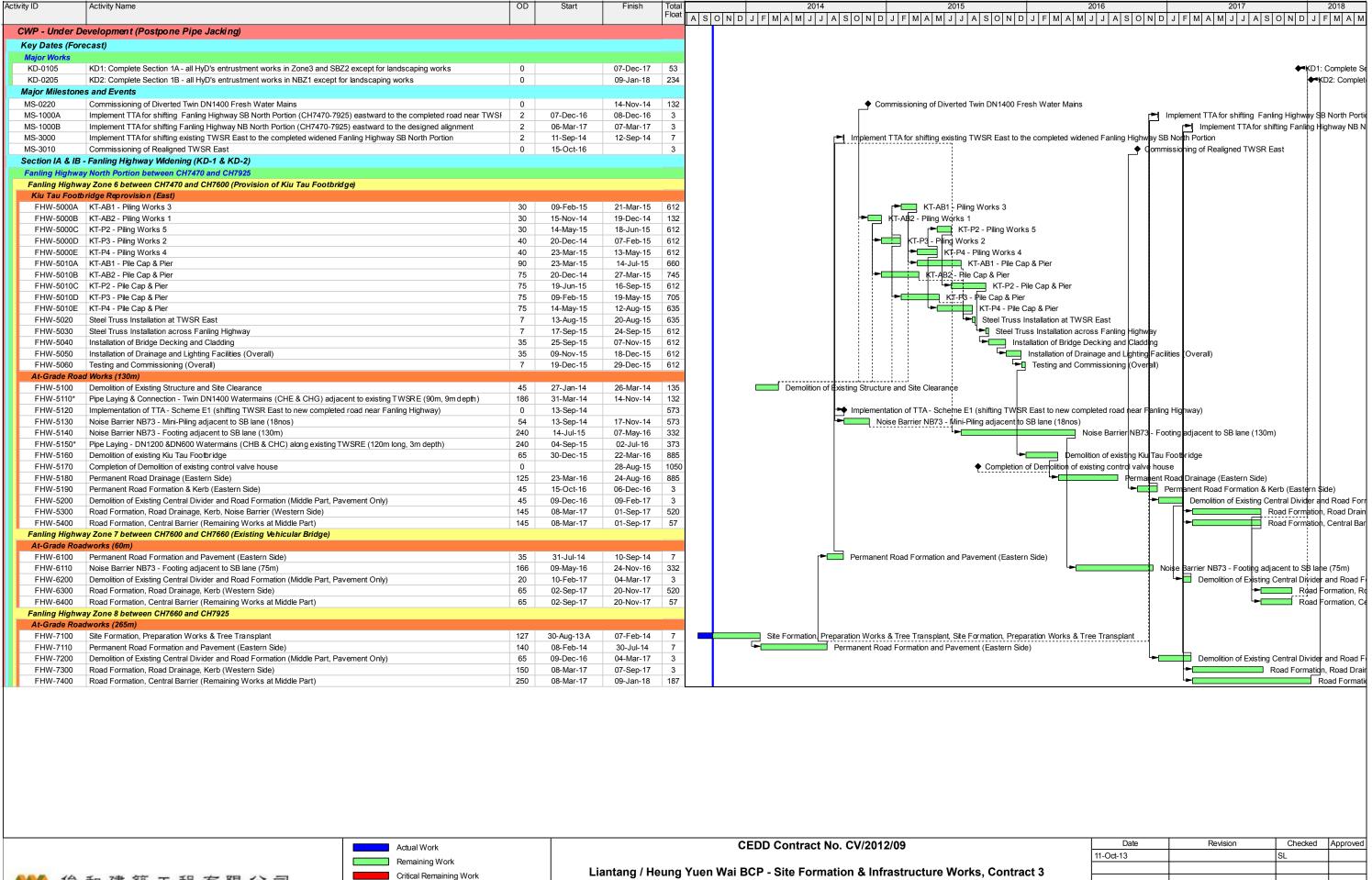
Figure 1: Demarcation of Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling – Stage 2



MEIN-ARDT



## Appendix A Construction Programme



CWP004-1

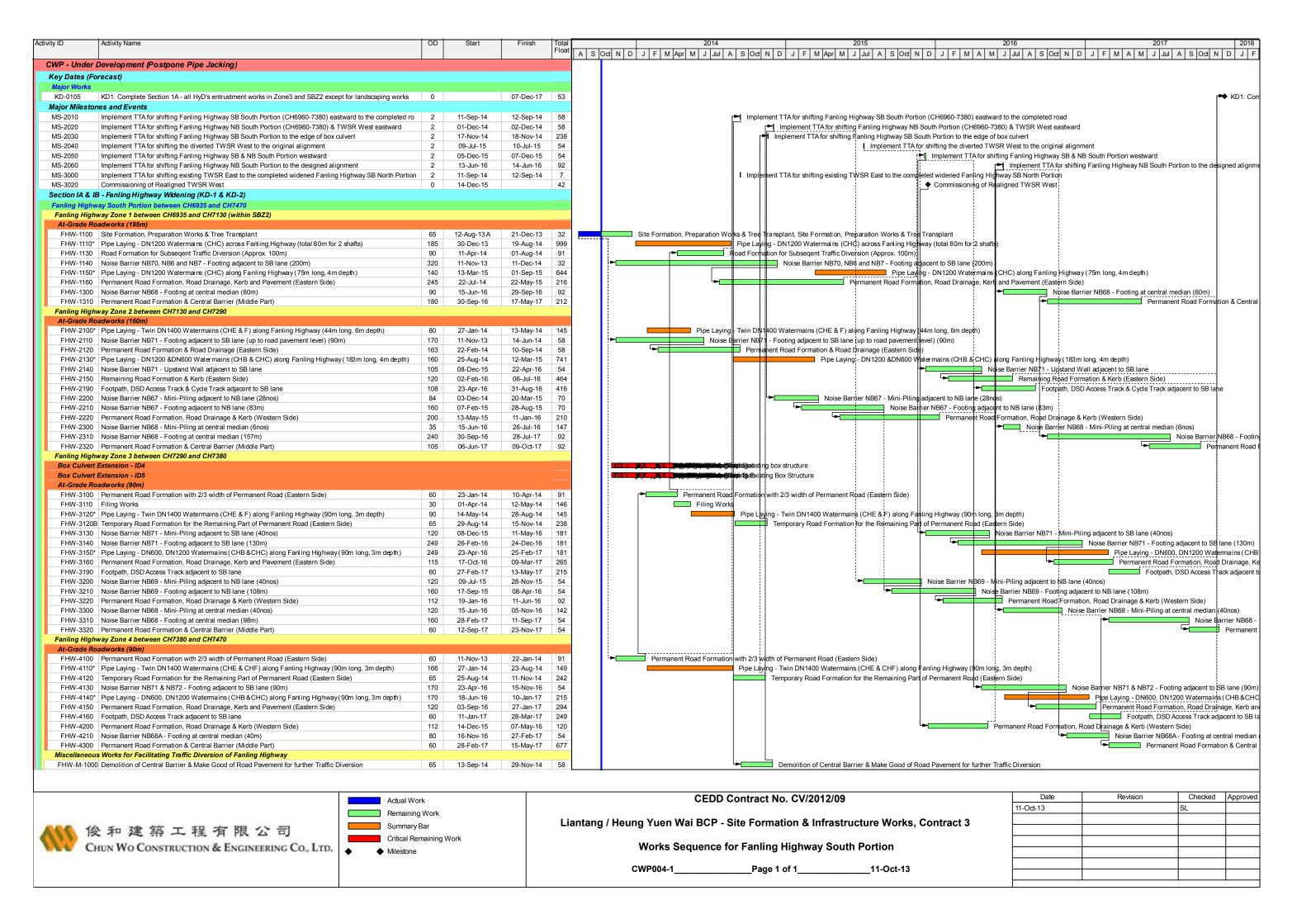


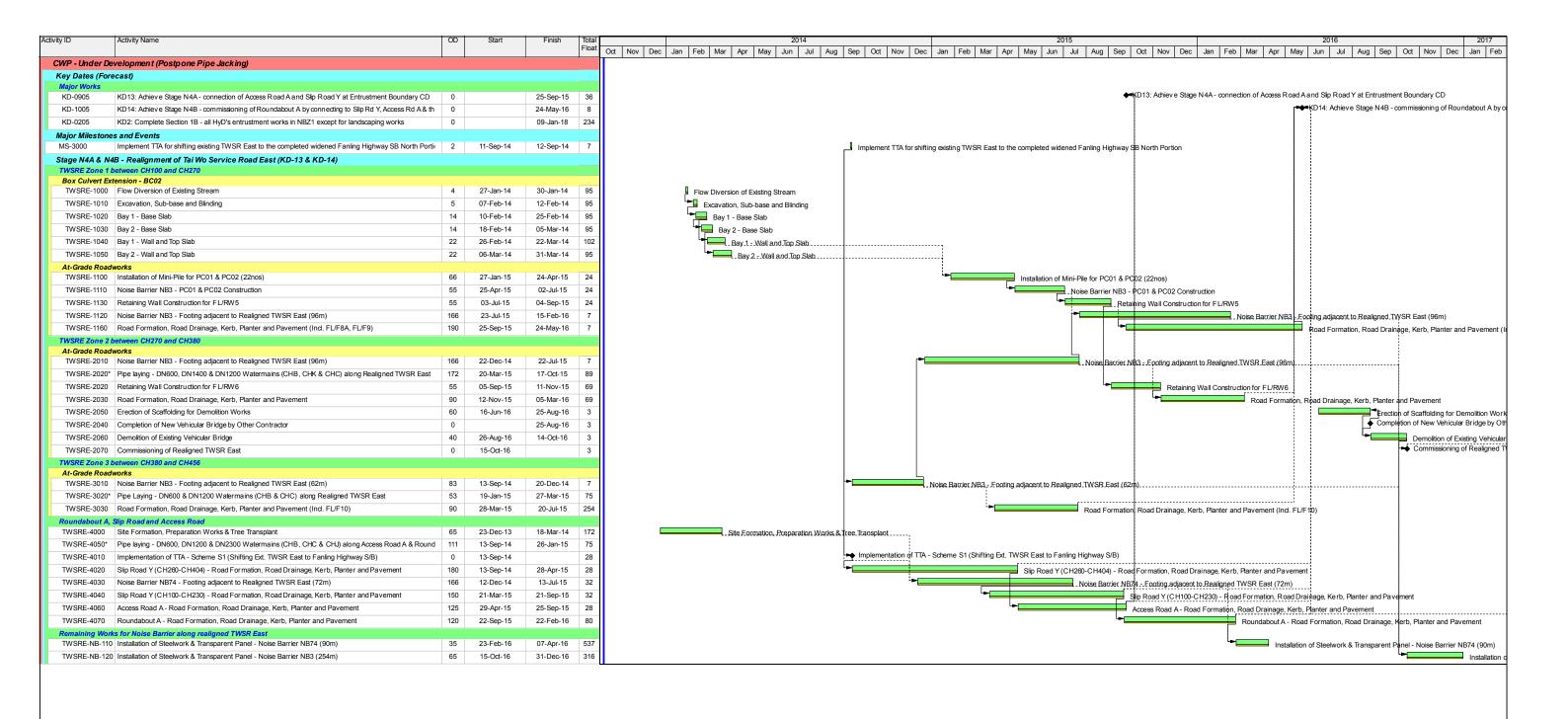
• •	Milestone
	Critical Remaining Work
	Remaining Work
	Actual Work

**Works Sequence for Fanling Highway North Portion** 

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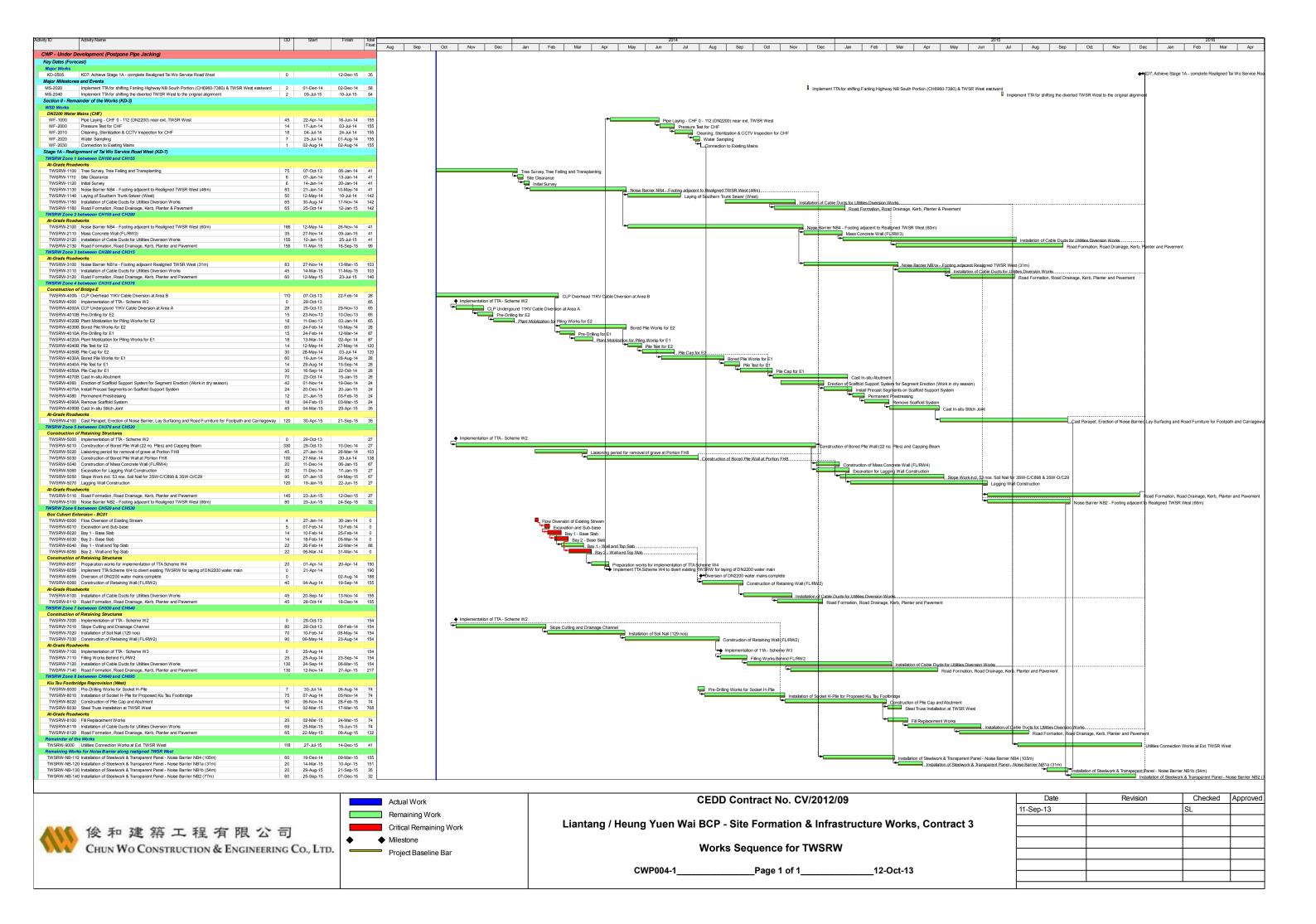
CEDD Contract No. CV/2012/09

Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

Works Sequence for TWSRE

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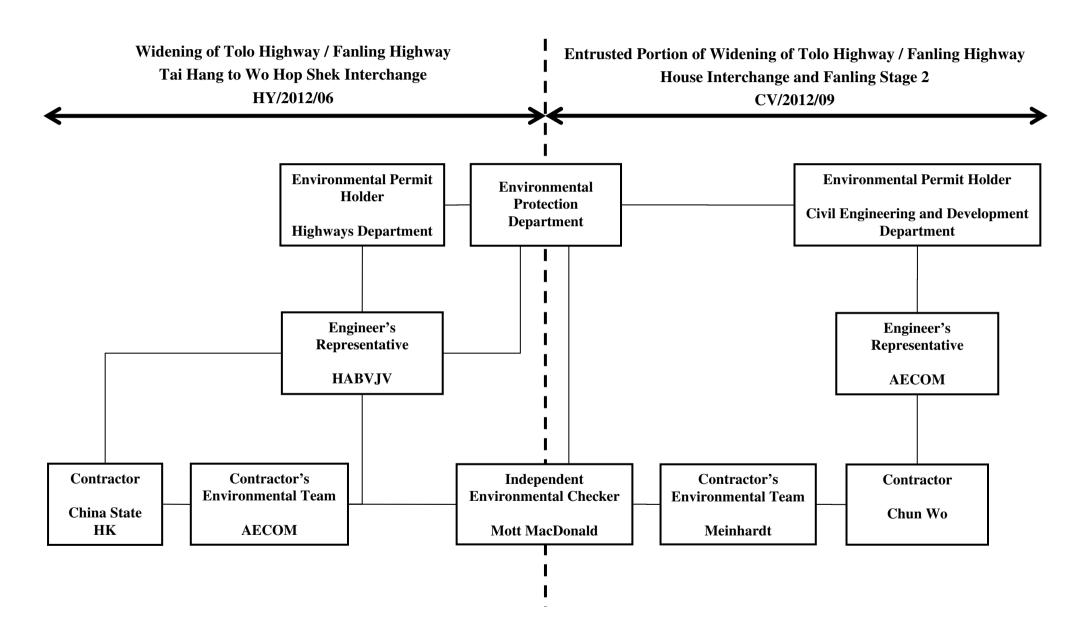
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# Appendix B Project Organization Structure







# Appendix C Summary of Event and Action Plan



**Event and Action Plan for Air Quality** 

Event	Action				
	ET Leader	IEC	ER	Contractor	
Action level being	1. Identify source;	1. Check monitoring data submitted	Notify Contractor.	1. Rectify any unacceptable	
exceeded by one sampling day	2. Inform IEC and ER;	by ET;		practice;	
	3. Repeat measurement to confirm finding;	Check Contractor's working method.		Amend working methods if appropriate.	
	4. Increase monitoring frequency to daily.				
Action level being	<ol> <li>Identify source;</li> </ol>	1. Check monitoring data submitted	1. Confirm receipt of notification of	1. Submit proposals for remedial	
exceeded by two or more consecutive	2. Inform IEC and ER;	by ET;	failure in writing;	actions to IEC within 3 working	
sampling days	3. Repeat measurements to confirm	2. Check Contractor's working	Notify Contractor;	days of notification;	
, ,	findings;	method;	Ensure remedial measures properly implemented.	2. Implement the agreed proposals	
	4. Increase monitoring frequency to daily;	Discuss with ET and Contractor on possible remedial measures;		Amend proposal if appropriate.	
	5. Discuss with IEC and Contractor on remedial actions required;	4. Advise the ER on the effectiveness of the proposed remedial measures:			
	6. If exceedance continues, arrange meeting with IEC and ER;	Supervise Implementation of remedial measures.			
	7. If exceedance stops, cease additional monitoring.	romodial mododroo.			



Event	Action				
	ET Leader	IEC	ER	Contractor	
Limit level being exceeded by one sampling day	<ol> <li>Identify source;</li> <li>Inform IEC, ER, Contractor and</li> </ol>	Check monitoring data submitted by ET;	Confirm receipt of notification of exceedance in writing;	further exceedance;	
	<ul> <li>EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ul>	<ol> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ol>	Ensure remedial measures properly implemented.	Submit proposals for remedial actions to IEC within 3 working days of notification;     Implement the agreed proposals;     Amend proposal if appropriate.	
Limit level being exceeded by two or more consecutive sampling days	<ol> <li>Notify IEC, ER, Contractor, and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase frequency to daily;</li> <li>Analyse Contractor's working procedures to determine possible mitigation to be;</li> <li>Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	Discus amongst ER, ET, and Contractor on the potential remedial actions;     Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly;     Supervise the implementation of remedial measures.	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Ensure remedial measures properly implemented;</li> <li>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.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problem still not under control;</li> <li>Stop the relevant portion of works as determined by ER until the exceedance is abated.</li> </ol>	



**Event and Action Plan for Noise Quality** 

Event	Action						
	ET Leader	IEC	ER	Contractor			
Action Level	<ol> <li>Notify IEC and the Contractor.</li> <li>Carry out investigation.</li> </ol>	Review with analysed results submitted by ET.	Confirm receipt of notification of failure in writing.	Submit noise mitigation proposals to IEC.			
	Report the results of investigation to IEC and the Contractor.	Review the proposed remedial measures by the Contractor and advise ER accordingly.	<ol> <li>Notify the Contractor.</li> <li>Require the Contractor to propose remedial measures for</li> </ol>	Implement noise mitigation proposals.			
	<ol> <li>Discuss with the Contractor and formulate remedial measures.</li> </ol>	Supervise the implement of remedial measures.	the analysed noise problem.				
	5. Increase monitoring frequency to check mitigation effectiveness.	remediai measures.	Ensure remedial measures are properly implemented.				
Limit Level	Notify IEC, ER, EPD and the Contractor.	Discuss amongst ER, ET Leader and the Contractor on the	Confirm receipt of notification of failure in writing.	Take immediate action to avoid further exceedance.			
	2. Identify the source.	potential remedial actions.	2. Notify the Contractor.	2. Submit proposals for remedial			
	Repeat measurement to confirm findings.	Review the Contractor's remedial actions whenever necessary to	Require the Contractor to propose remedial measures for	actions to IEC within 3 working days of notification.			
	4. Increase monitoring frequency.	assure their effectiveness and advise ER accordingly.	the analysed noise problem.	3. Implement the agreed proposals.			
	Carry out analysis of Contractor's working procedures to determine	Supervise the implementation of remedial measures.	<ol> <li>Ensure remedial measures are properly implemented.</li> </ol>	Resubmit proposals if problem still not under control.			
	possible mitigation to be implemented.		5. If exceedance continues, consider what activity of the	5. Stop the relevant activity of works as determined by the ER until the			
	<ol><li>Inform IEC, ER, and EPD the causes &amp; actions taken for the exceedances.</li></ol>		work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated.	exceedance is abated.			
	7. Assess effectiveness of the Contractor's remedial actions and keep IEC, EPD and ER informed of the results.		avaicu.				
	8. If exceedance stops, cease additional monitoring.						



**Event and Action Plan for Water Quality** 

Event	Action					
	ET Leader	IEC	ER	Contractor		
Action level being exceeded by one sampling day	Repeat in-situ measurement or next day of exceedance to confirm findings;	Check monitoring data submitted by ET & Contractor's working methods;	Confirm receipt of notification of failure in writing; Notify, Contractor	Inform the ER & confirm notification of the non-compliance in writing;		
	<ol><li>Identify source(s) of impact;</li></ol>			2. Rectify unacceptable practice;		
	3. Inform IEC, Contractor & ER;			3. Amend working methods if		
	Check monitoring data, all plant equipment & contractor's working methods;			appropriate.		
Action level being exceeded by two or more consecutive	Repeat measurement on next day of exceedance to confirm findings;		Discuss with IEC on the proposed mitigation measures;     Ensure mitigation measures	Inform the Engineer & confirm notification of the non-compliance in writing;		
sampling days	2. Identify source(s) of impact;	2. Discuss with ET & Contractor on	properly implemented;	2. Rectify unacceptable practice;		
	3. Inform IEC, Contractor, ER 8 EPD;	possible remedial actions; 3. Review the proposed mitigation		consider changes of working		
	4. Check monitoring data, all plant		measures.	methods;		
	equipment & Contractor's working methods;	accordingly;		4. Submit proposal of mitigation measures to ER within 3 working		
	5. Discuss mitigation measures with IEC, ER & Contractor;	4. Supervise the implementation of mitigation measures.		days of notification & discuss with ET, IEC & ER;		
	Ensure mitigation measures are implemented;			Implement the agreed mitigation measures.		
	7. Increase monitoring to daily unti no exceedance of Action level.					



Event	Action					
	ET Leader	IEC	ER	Contractor		
Limit level being exceeded by one sampling day	<ol> <li>Repeat measurement on next day of exceedance to confirm findings;</li> <li>Identify source(s) of impact;</li> <li>Inform IEC, contractor, ER &amp; EPD;</li> <li>Check monitoring data, all plant, equipment &amp; contractor's working methods;</li> <li>Discuss mitigation measures with IEC, Contractor &amp; ER.</li> </ol>	<ol> <li>Checking monitoring data submitted by ET &amp; Contractor's working method;</li> <li>Discuss with ET &amp; Contractor on the possible mitigation measures;</li> <li>Review the proposed mitigation measures submitted by Contractor &amp; advise the ER accordingly.</li> </ol>	Confirm receipt of notification of failure in writing;     Discuss with IEC, ET & Contractor on the proposed mitigation measures;     Request Contractor to review the working methods.	<ol> <li>Inform the ER &amp; confirm notification of the non-compliance in writing;</li> <li>Rectify unacceptable practice;</li> <li>Check all plant &amp; equipment &amp; consider changes of working methods;</li> <li>Submit proposal of mitigation measures to ER within 3 working days of notification &amp; discuss with ET, IEC &amp; ER.</li> </ol>		
Limit level being exceeded by two or more consecutive sampling days	<ol> <li>Repeat measurement on the next day of exceedance to confirm findings;</li> <li>Identify source(s) of impact;</li> <li>Inform IEC, Contractor, ER &amp; EPD;</li> <li>Check monitoring data, all plant, equipment &amp; Contractor's working methods;</li> <li>Discuss mitigation measures within IEC, Contractor &amp; ER;</li> <li>Ensure mitigation measures are implemented;</li> <li>Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days.</li> </ol>	<ol> <li>Checking monitoring data submitted by ET &amp; Contractor's working method;</li> <li>Discuss with ET &amp; Contractor on potential remedial actions;</li> <li>Review Contractor's mitigation measures whenever necessary to assure their effectiveness &amp; advise the ER accordingly;</li> <li>Supervise the implementation of mitigation measures.</li> </ol>	review the working methods;	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposal of mitigation measures to ER within 3 working days of notification &amp; discuss with ET, IEC &amp; ER;</li> <li>Implement the agreed mitigation measures;</li> <li>Resubmit proposals of mitigation measures if problem still not under control;</li> <li>As directed by the Engineer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level.</li> </ol>		



### Appendix D Implementation Schedule of Environmental Mitigation Measures (EMIS)



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status <sup>#</sup>
Air Quality				
Air Quality during Construction	• Restricting heights from which materials are dropped, as far as practicable to minimize the fugitive dust arising from unloading/loading.	During Construction	Contractor	<b>√</b>
	• All stockpiles of excavated materials or spoil of more than 50m³ shall be enclosed, covered or dampened during dry or windy conditions.			Rem and Obs
	Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.			Rem
	All spraying of materials and surfaces shall avoid excessive water usage.			✓
	• Vehicles that have the potential to create dust while transporting materials shall be covered, with the cover properly secured and extended over the edges of the side and tail boards.			<b>✓</b>
	Materials shall be dampened, if necessary, before transportation.			✓
	Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks.			✓
	Vehicle washing facilities shall be provided to minimise the quantity of material deposited on public roads.			Rem and Obs
Air Quality during Operation	Not required	N/A	N/A	N/A
Noise			•	1
Noise during Construction	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During Construction	Contractor	<b>✓</b>
	Reduce the number of equipment and their percentage on-time.			✓
Noise during Operation	Not required	N/A	N/A	N/A
Water Quality			J	l .
Water Quality during	Road Widening Works, Earthworks and Culvert Extension Works			
Construction	<ul> <li>Wastewater generated from any concrete batching washdown of equipment or similar activities should be discharged into foul sewers, after the removal of settable solids, and pH adjustment as necessary. All sewage discharges from the study area should meet the TM standards and approval from EPD through the licensing process is required.</li> </ul>	During Construction	Contractor	Obs

Notes (<sup>#</sup>): ✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable;



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status #
	<ul> <li>Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained.</li> </ul>			<b>✓</b>
	<ul> <li>Runoff from exposed working areas, unfinished slopes and from unlined temporary channels should be directed to stilling basins and/or silt traps before discharging to the drainage outfalls.</li> </ul>			Rem and Obs
	<ul> <li>Regular inspections of stilling basins and/or silt traps is required to ensure that sediment is not conveyed into the existing drainage system.</li> </ul>			Obs
	Open stockpiles should be covered with a tarpaulin cover.			✓
	<ul> <li>During the wet season, any exposed top soils should be covered with a tarpaulin, shotcreted or hydroseeded.</li> </ul>			Rem
	<ul> <li>Sand and silt from wash-water from vehicle washing should be settled out before discharging into storm drains.</li> </ul>			Rem and Obs
	• Fuels should be stored in bunded areas such that spillage can be easily collected.			Obs
Water Quality during Operation	Not required	N/A	N/A	N/A
Waste Management				
Waste Management during Construction	General Waste			
Constitution	Transport of wastes off site as soon as possible.	During Construction	Contractor	<b>✓</b>
	Maintenance of accurate waste records.			✓
	Minimisation of waste generation for disposal (via reduction/recycling/re-use).			✓
	No on-site burning will be permitted.			✓
	Use of re-useable metal hoardings/signboards.			✓
	Vegetation from site clearance			
	Segregation of materials to facilitate disposal.	During Construction	Contractor	✓
	Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas.			<b>✓</b>

Notes (<sup>#</sup>): ✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable;



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status #
	Demolition Wastes			
	Segregation of materials to facilitate disposal.	During Construction	Contractor	✓
	Appropriate stockpile management.			✓
	Excavated Materials			
	Segregation of materials to facilitate disposal / reuse.	During Construction	Contractor	✓
	Appropriate stockpile management.			✓
	Re-use of excavated material on or off site (where possible).			✓
	Special handling and disposal procedures in the event that contaminated materials are excavated.			N/A
	Construction Wastes			
	Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles).	During Construction	Contractor	✓
	Appropriate stockpile management.			Obs
	Planning to reduce over ordering and waste generation.			✓
	Recycling and re-use of materials where possible (e.g. metal, wood from formwork)			✓
	For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal.			✓
	Bentonite Slurries			
	Bentonite slurries should be reused as far as possible.	During Construction	Contractor	N/A
	Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94.			N/A
	Chemical Wastes			
	Storage within locked, covered and bunded area.	During Construction	Contractor	Obs
	The storage area shall not be located adjacent to sensitive receivers e.g. drains.			✓

Notes (<sup>#</sup>): ✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable;



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status #
	Minimise waste production and recycle oils/solvents where possible.			✓
	A spill response procedure shall be in place and absorption material available for minor spillages.			Obs
	Use appropriate and labelled containers.			✓
	Educate site workers on site cleanliness/waste management procedures.			Rem and Obs
	If chemical wastes are to be generated, the contractor must register with EPD as a chemical waste producer.			✓
	The chemical wastes shall be collected by a licensed chemical waste collector.			✓
	Municipal Wastes			
	Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal.	During Construction	Contractor	Rem and Obs
	Regular, daily collections are required by an approved waste collector.			✓
Waste Management during Operation	Not required.	N/A	N/A	N/A
Ecology				
Ecology during Construction	Accurate Delineation of Works Area			
	Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats.	During Construction	Contractor	<b>✓</b>
	Individual trees which fall within the works areas but which work plans show do not require removal are to be retained and fenced off to maximise protection.			Obs
	<u>Dust generation</u>			
	There are a number of measures which shall be taken as specified in the Air Pollution Control (Construction Dust) Regulation on 'Dust Control Requirements, including the following key measures to be applied during construction:			
	vehicle washing facilities to be provided at every discernible or designated vehicle exit point;	During Construction	Contractor	Rem and Obs

Notes (<sup>#</sup>): ✓

✓ - Compliance; Rem - Reminder; Obs - Observation; N/C - Non Compliance; N/A - Not Applicable;



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status #
	all temporary site access roads shall be sprayed with water to suppress dust as necessary;			✓
	all dusty materials should be sprayed with water immediately prior to any handling; and			Rem
	all debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area.			✓
	Surface Run-off			
	In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include:			
	Bund and cover stockpiles to avoid run-off;	During Construction	Contractor	Rem and Obs
	Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical;			Obs
	All vehicle maintenance to be undertaken within a bunded area; and			N/A
	Maximise vegetation retention on-site to maximise absorption (minimise transport).			<b>✓</b>
Ecology during Operation	To conduct compensatory ecological planting as specified in the latest landscape plans approved by EPD (Clause 2.6 of the Environmental Permit refers).	During Construction and operation	Contractor (during construction) / LCSD* (during operation) (Note: * The division of vegetation planting and maintenance responsibilities shall follow the guidelines stipulated in ETWB TCW No. 2/2004.)	N/A
Landscape and Visual Landscape and Visual during	Preservation of Existing Vegetation			<u> </u>
Construction	Trees identified for retention within the project limit would be protected during the works	During Construction	Contractor	Obs
	The tree transplanting and planting works shall be implemented by approved Landscape Contractors			<b>✓</b>

Notes (<sup>#</sup>): ✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable;



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status #
	Temporary Works Areas			
	Where feasible the works areas would be screened using hoarding and existing vegetation would be retained where possible to reduce the landscape and visual impacts arising from the construction activity. The landscape of these works areas would be restored following the completion of the construction phase.	During Construction	Contractor	<b>✓</b>
	<u>Hoarding</u>			
	A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs.	During Construction	Contractor	✓
	<u>Top Soils</u>			
	The works will result in disturbance to extensive areas of topsoil. Topsoil worthy of retention should be stockpiled for use following completion of the civil engineering works. It should either be temporarily vegetated with hydroseeded grass or turned over on a regular basis.	During Construction	Contractor	N/A
	Protection of Important Landscape Features			
	Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected.	During Construction	Contractor	N/A
Landscape and Visual during Operation	Not required.	N/A	N/A	N/A



# Appendix E Meteorological Data Extracted from Hong Kong Observatory



#### 1 Meteorological Data Extracted From The Hong Kong Observatory

#### 1.1 November 2013

1.1.1 Mainly attributed by Severe Typhoon Krosa and Super Typhoon Haiyan, the weather of November 2013 was wetter than usual. The total rainfall of the month was 83.1 millimetres, more than double of the normal figure of 37.6 millimetres. The accumulated rainfall since 1 January was 2759.0 millimetres, about 16 percent above the normal figure of 2371.6 millimetres for the same period. It was also gloomier than usual with 133.4 hours bright sunshine, about 26 percent below normal. The monthly mean temperature of 21.7 degrees was slightly below the normal figure of 21.8 degrees.

#### 1.2 December 2013

1.2.1 Under the influence of cold spells brought by the winter monsoon during the second half of the month, the weather of December 2013 was significantly colder than usual. The monthly mean temperature of 16.1 degrees was 1.8 degrees below the normal figure of 17.9 degrees, the lowest for December since 1975. The active winter monsoon also maintained generally dry conditions for most parts of the month, and yet the month turned out to be much wetter than usual in terms of rainfall due to the rainy episode between 14 and 17 December. The total rainfall of the month was 88.3 millimetres, more than three times the normal figure of 26.8 millimetres and the tenth highest for December on record. The annual total rainfall of 2013 was 2847.3 millimetres, about 19 percent above the normal figure of 2398.5 millimetres.

#### 1.3 January 2014

1.3.1 Under the dominance of a dry northeast monsoon for most part of the month, the weather in January 2014 was sunnier and drier than usual. The mean amount of cloud for the month was 32 percent, tied with 1986 as the fourth lowest record for January. With less cloud cover, the total duration of bright sunshine in the month was 238.8 hours, tying with 1902 as the sixth highest record for January. Only traces of rainfall were recorded in the month, making it one of the second driest Januarys on record. The monthly mean temperature of 16.3 degrees was on par with the normal.

#### 1.4 February 2014

1.4.1 With several rounds of transition between warm and cold air masses along the coast of Guangdong, the weather of Hong Kong in February 2014 was marked by fluctuating temperatures. The mild episodes in the first and last weeks of the month contrasted sharply against the chilly weather that prevailed in mid-February. On the whole, February 2014 was cooler than usual with a monthly mean temperature of 15.5 degrees, 1.3 degrees below the normal figure of 16.8 degrees. February 2014 was also drier than normal. The monthly rainfall of 39.5 millimetres was about 27 percent below the normal figure of 54.4 millimetres. Without any measurable rainfall in January 2014, the accumulated rainfall of 39.5 millimetres in the first two months of the year was only about half of the normal figure of 78.9 millimetres for the same period.

#### 1.5 March 2014

1.5.1 March 2014 was characterized by gloomy weather during the first-half of the month and heavy rain episodes towards the end of the month. While the monthly total



duration of bright sunshine of 86.0 hours was slightly below normal by 5 percent, there were only 5.0 hours of bright sunshine from 1 to 15 March.

1.5.2 The month was also cooler and wetter than usual. The monthly mean temperature of 18.7 degrees was 0.4 degree below the normal figure of 19.1 degrees. The total rainfall of the month was 207.6 millimetres, more than double of the normal figure of 82.2 millimetres. About 99 percent of the monthly rainfall fell between 29 and 31 March. The accumulated rainfall of 247.1 millimetres since 1 January was about 53 percent above the normal figure of 161.3 millimetres for the same period.

#### 1.6 April 2014

1.6.1 The weather of April 2014 was drier and sunnier than usual. The total rainfall of the month was 132.4 millimetres, about 24 percent below the normal figure of 174.7 millimetres. However, the accumulated rainfall since 1 January of 379.5 millimetres was about 13 percent above the normal figure of 336.1 millimetres for the same period. The total duration of bright sunshine of the month was 119.4 hours, about 17 percent above the normal figure of 101.7 hours. The mean temperature of 22.6 degrees for the month was on par with normal.

#### 1.7 May 2014

1.7.1 May 2014 was characterized by gloomy and rainy conditions during the first part of the month and persistent hot weather in the latter part. The total rainfall of 687.3 millimetres was more than double the normal amount for May and the seventh highest May rainfall on record. The accumulated rainfall since 1 January of 1066.8 millimetres was about 67 percent above the normal figure of 640.7 millimetres for the same period. With about three quarters of the sunshine occurring in the second half of the month, the total duration of bright sunshine of the month was 107.8 hours, about 23 percent below the normal figure of 140.4 hours. Sunny and hot weather in the last week of the month also brought the average temperature for the month up to 26.4 degrees, half a degree above the normal figure of 25.9 degrees.

#### 1.8 June 2014

1.8.1 With the monthly mean temperature reaching 29.0 degrees, June 2014 was the hottest June in Hong Kong since records began in 1884. The monthly mean minimum temperature of 27.0 degrees and maximum temperature of 31.5 degrees were respectively one of the second and the third highest for June. Such high temperatures were attained despite the facts that sunshine duration and rainfall for the month were not far from normal. The total rainfall of the month was 436.6 millimetres, about 4 percent below the normal figures of 456.1 millimetres. The accumulated rainfall since 1 January of 1503.4 millimetres was about 37 percent above the normal figure of 1096.9 millimetres for the same period.

#### 1.9 July 2014

1.9.1 Under the dominance of a subtropical ridge over southern China for most part of the month, and with episodes of continental air flow brought by passages of tropical cyclones over the East China Sea, July 2014 emerged as the hottest July in Hong Kong with a record-breaking monthly mean temperature of 29.8 degrees. The monthly mean minimum temperature of 27.6 degrees equalled the July record, while the monthly mean maximum temperature of 32.6 degrees also ranked as one of the second highest for July. The month was relatively sunny and drier than usual with a monthly rainfall amount of 260.5 millimetres, about 31 percent below the July normal of



376.5 millimetres. The accumulated rainfall since 1 January was 1763.9 millimetres, about 20 percent above the normal of 1473.3 millimetres for the same period.

#### 1.10 August 2014

1.10.1 The weather of August 2014 was hotter than usual due to prolonged spells of fine and sunny weather during the month. The monthly mean temperature of 29.0 degrees was 0.4 degree higher than the normal figure of 28.6 degrees, while the monthly duration of bright sunshine of 212.0 hours was about 12 percent above the normal figure of 188.9 hours. With two heavy rain episodes around mid-August, the month was also wetter than usual with a monthly rainfall amount of 548.2 millimetres, about 27 percent above the August normal of 432.2 millimetres. The accumulated rainfall since 1 January was 2312.1 millimetres, about 21 percent above the normal of 1905.5 millimetres for the same period.

#### 1.11 September 2014

1.11.1 Under the dominance of the subtropical ridge over southern China, September 2014 was the hottest September on record. The monthly mean minimum temperature of 27.0 degrees and mean temperature of 29.0 degrees were respectively the highest and one of the highest for September since record began in 1884. The month was also drier than usual with a monthly total rainfall amount of 140.6 millimetres, only about 43 percent of the September normal of 327.6 millimetres. The accumulated rainfall since 1 January was 2452.7 millimetres, about 10 percent above the normal of 2233.1 millimetres for the same period.

#### 1.12 October 2014

- 1.12.1 Under the dominance of a relatively dry northeast monsoon, October 2014 was much warmer and sunnier than usual. The mean temperature for the month was 26.2 degrees, 0.7 degrees above the normal figure of 25.5 degrees and also the one of the fifth highest for October since record began in 1884. The monthly total duration of sunshine was 222.9 hours, about 15 percent above the normal figure of 193.9 hours.
- 1.12.2 The monthly total rainfall of 109.8 millimetres was slightly above the normal figure of 100.9 millimetres. The accumulated rainfall since 1 January was 2562.5 millimetres, about 10 percent above the normal of 2334.0 millimetres for the same period.



# Appendix F Environmental Monitoring Data for Air, Noise and Water Quality

24-Hour TSP Monitoring Result at Station: SR77

Sampling Date	Weather Condition	Paper No.	w	t. of pape	r (g)	ı	Elapse Tim	е	Flo	w Rate (C	FM)	Flov	w Rate (m <sup>s</sup>	³/min)	Total Volume	TSP Concentratio	Action Level	Limit Level	Wind speed	Wind direction
Date	Condition		Initial Wt.	Final Wt.	Wt. of Dust	Initial	Final	Sampling Hour	Initial	Final	Avg Flow Rate	Initial	Final	Avg Flow Rate	(m³)	(μg/m <sup>3</sup> )	(µg/m3)	(µg/m3)	m/s	direction
5-Nov-13	Cloudy	026046	2.7344	2.8817	0.1473	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	70.8	170.3	260.0	<5	N
11-Nov-13	Cloudy	026047	2.7294	2.8564	0.1270	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	61.1	170.3	260.0	<5	N
16-Nov-13	Fine	205789	2.7214	3.1790	0.4576	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	220.0	170.3	260.0	<5	N
22-Nov-13	Fine	205791	2.7471	3.1275	0.3804	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	182.9	170.3	260.0	<5	N
28-Nov-13	Fine	205792	2.5360	3.1228	0.5868	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	282.2	170.3	260.0	<5	N
4-Dec-13	Fine	205793	2.7256	3.1940	0.4684	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	225.2	170.3	260.0	<5	N
10-Dec-13	Fine	205794	2.5920	3.3377	0.7457	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	<u>358.6</u>	170.3	260.0	<5	N
16-Dec-13	Rainy	205831	2.7374	2.7867	0.0493	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	23.7	170.3	260.0	<5	N
21-Dec-13	Fine	205832	2.7435	3.1737	0.4302	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	206.9	170.3	260.0	<5	N
27-Dec-13	Sunny	205833	2.7321	3.2491	0.5170	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	248.6	170.3	260.0	<5	N
2-Jan-14	Sunny	205834	2.6667	3.0836	0.4169	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	200.5	170.3	260.0	<5	N
8-Jan-14	Fine	205904	2.8976	3.3749	0.4773	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	229.5	170.3	260.0	<5	N
14-Jan-14	Fine	205835	2.7456	3.1824	0.4368	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	210.0	170.3	260.0	<5	N
20-Jan-14	Fine	205836	2.7541	3.4253	0.6712	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	<u>322.8</u>	170.3	260.0	<5	N
25-Jan-14	Sunny	205837	2.7496	3.1072	0.3576	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	172.0	170.3	260.0	<5	N
30-Jan-14	Fine	205838	2.7561	3.1216	0.3655	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	175.8	170.3	260.0	<5	N
5-Feb-14	Fine	205839	2.7351	2.8805	0.1454	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	69.9	170.3	260.0	<5	N
11-Feb-14	Cloudy	205840	2.7582	3.0589	0.3007	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	144.6	170.3	260.0	<5	N
17-Feb-14	Fine	205907	2.9323	3.2644	0.3321	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	159.7	170.3	260.0	<5	N
22-Feb-14	Fine	1	2.6884	3.0733	0.3849	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	185.1	170.3	260.0	<5	N
28-Feb-14	Fine	2	2.6782	3.1388	0.4606	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	221.5	170.3	260.0	<5	N
6-Mar-14	Cloudy	3	2.7216	3.0258	0.3042	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	146.3	170.3	260.0	<5	N
12-Mar-14	Cloudy	6	2.7007	3.0468	0.3461	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	166.4	170.3	260.0	<5	N
18-Mar-14	Fine	7	2.7102	2.9790	0.2688	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	129.3	170.3	260.0	<5	N
24-Mar-14	Fine	8	2.6925	3.0836	0.3911	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	188.1	170.3	260.0	<5	N
29-Mar-14	Rainy	9	2.6958	2.8354	0.1396	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	67.1	170.3	260.0	<5	N
4-Apr-14	Cloudy	10	2.6869	2.8690	0.1821	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	87.6	170.3	260.0	<5	N
10-Apr-14	Fine	11	2.6915	2.9070	0.2155	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	103.6	170.3	260.0	<5	N
16-Apr-14	Sunny	12	2.7313	3.0336	0.3023	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	145.4	170.3	260.0	<5	N
22-Apr-14	Sunny	13	2.7088	2.9072	0.1984	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	95.4	170.3	260.0	<5	N
28-Apr-14	Sunny	14	2.6694	2.8877	0.2183	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	105.0	170.3	260.0	<5	N
3-May-14	Fine	15	2.7172	3.0659	0.3487	0.00	24.00	24.00	51 51	51 51	51.0	1.44	1.44	1.44	2079.59	167.7 14.7	170.3	260.0	<5 -	N
9-May-14 15-May-14	Rainy	21 212	2.7012 2.7112	2.7317	0.0305 0.2227	0.00	24.00 24.00	24.00 24.00	51 51	51	51.0 51.0	1.44 1.44	1.44	1.44	2079.59 2079.59	107.1	170.3 170.3	260.0 260.0	<5 <5	N N
	Cloudy			2.9339						51						60.5				
21-May-14 27-May-14	Rainy Fine	22 23	2.7506 2.7061	2.8765 3.1128	0.1259 0.4067	0.00	24.00 24.00	24.00 24.00	51 51	51	51.0 51.0	1.44 1.44	1.44	1.44 1.44	2079.59 2079.59	60.5 <b>195.6</b>	170.3 170.3	260.0 260.0	<5 <5	N N
31-May-14	Fine	23	2.7061	2.9550	0.4067	0.00	24.00	24.00	51 51	51	51.0	1.44	1.44	1.44	2079.59	123.8	170.3	260.0	<5 <5	N N
6-Jun-14	Cloudy	41	2.6975	2.8375	0.2575	0.00	24.00	24.00	51 51	51	51.0	1.44	1.44	1.44	2079.59	75.8	170.3	260.0	<5 <5	N N
12-Jun-14	Fine	50	2.6798	2.9028	0.1377	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	101.9	170.3	260.0	<5 <5	N N
18-Jun-14	Cloudy	44	2.7198	2.8389	0.2120	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	57.3	170.3	260.0	<5 <5	N
24-Jun-14	Rainv	46	2.6996	2.7792	0.1191	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	38.3	170.3	260.0	<5 <5	N N
30-Jun-14	Rainy	46	2.7035	2.7728	0.0796	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	33.3	170.3	260.0	<5 <5	N
5-Jul-14	Rainy	50	2.7033	2.8380	0.0093	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	64.1	170.3	260.0	<5	N
11-Jul-14	Fine	51	2.7046	2.8157	0.1332	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	52.2	170.3	260.0	<5 <5	N N
17-Jul-14	Fine	53	2.7072	2.8421	0.1065	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	68.1	170.3	260.0	<5	N
23-Jul-14	Fine	57	2.7005	3.5157	0.8362	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	402.1	170.3	260.0	<5 <5	N
29-Jul-14	Fine	59	2.7073	2.8783	0.1710	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	82.2	170.3	260.0	<5	N

#### Appendix F

#### Air Quality Monitoring Results and their Graphical Presentation

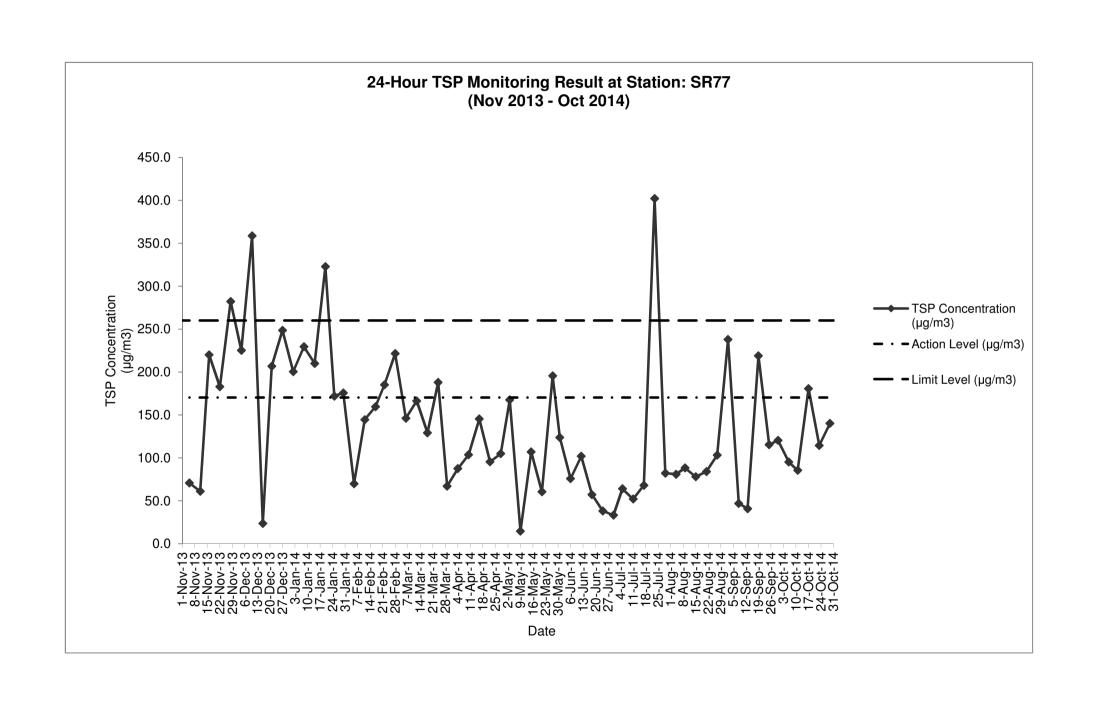
#### 24-Hour TSP Monitoring Result at Station: SR77

Sampling Weather Date Condition		Paper No.	Wt. of paper (g)		r (g)	E	lapse Tin	ne	Flow Rate (CFM)			Flow Rate (m³/min)			Total Volume	TSP Concentratio	Action Level	Limit Level	Wind speed	Wind direction
Date	Condition		Initial Wt.	Final Wt.	Wt. of Dust	Initial	Final	Sampling Hour	Initial	Final	Avg Flow Rate	Initial	Final	Avg Flow Rate	(m³)	(μg/m <sup>3</sup> )	(µg/m3)	(µg/m3)	m/s	direction
4-Aug-14	Sunny	72	2.6718	2.8402	0.1684	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	81.0	170.3	260.0	<5	N
9-Aug-14	Fine	62	2.7200	2.9037	0.1837	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	88.3	170.3	260.0	<5	N
15-Aug-14	Fine	64	2.7060	2.8683	0.1623	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	78.0	170.3	260.0	<5	N
21-Aug-14	Fine	69	2.6983	2.8733	0.1750	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	84.2	170.3	260.0	<5	N
27-Aug-14	Sunny	68	2.6756	2.8903	0.2147	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	103.2	170.3	260.0	<5	N
2-Sep-14	Fine	66	2.7036	3.1984	0.4948	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	237.9	170.3	260.0	<5	N
8-Sep-14	Sunny	85	2.7183	2.8161	0.0978	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	47.0	170.3	260.0	<5	N
13-Sep-14	Sunny	84	2.7229	2.8078	0.0849	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	40.8	170.3	260.0	<5	N
19-Sep-14	Fine	87	2.7231	3.1784	0.4553	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	218.9	170.3	260.0	<5	N
25-Sep-14	Sunny	89	2.7889	3.0289	0.2400	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	115.4	170.3	260.0	<5	N
30-Sep-14	Fine	91	2.7064	2.9570	0.2506	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	120.5	170.3	260.0	<5	N
6-Oct-14	Fine	93	2.7227	2.9208	0.1981	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	95.3	170.3	260.0	<5	N
11-Oct-14	Sunny	94	2.6914	2.8693	0.1779	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	85.5	170.3	260.0	<5	N
17-Oct-14	Sunny	97	2.8002	3.1761	0.3759	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	180.8	170.3	260.0	<5	N
23-Oct-14	Sunny	101	2.7829	3.0210	0.2381	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	114.5	170.3	260.0	<5	N
29-Oct-14	Fine	100	2.7114	3.0030	0.2916	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	140.2	170.3	260.0	<5	N

Summary For the Re (Nov 2013 - Oct 2014												
Average												
Minimum	14.7											
Maximum	402.1											

No major dust source observed during the monitoring period Data in **Bold** denotes exceedanece of respective Action Level Note:

Data in **Bold Underline** denotes exceedance of respective Limit Level



1-Hour TSP Monitoring Result at Station: SR77

	Weather	Time				Conc.(µg/m³	)	Action Level	Limit Level
Date	Condition		Time		1 <sup>st</sup> Hour	2 <sup>nd</sup> Hour	3 <sup>rd</sup> Hour	(µg/m3)	(µg/m3)
5-Nov-13	Cloudy	09:30	-	12:34	111.0	108.0	113.0	292.7	500.0
11-Nov-13	Cloudy	09:00	-	12:04	109.0	102.0	118.0	292.7	500.0
16-Nov-13	Fine	09:00	-	12:04	155.0	149.0	153.0	292.7	500.0
22-Nov-13	Fine	13:30	_	16:34	95.0	91.0	83.0	292.7	500.0
28-Nov-13	Fine	10:00	-	13:04	99.0	100.0	104.0	292.7	500.0
4-Dec-13	Fine	11:00	_	14:04	155.0	154.0	147.0	292.7	500.0
10-Dec-13	Fine	13:00	_	16:04	283.0	279.0	281.0	292.7	500.0
16-Dec-13	Rainy	10:00	-	13:04	222.0	231.0	216.0	292.7	500.0
21-Dec-13	Fine	08:00	-	11:04	156.0	153.0	191.0	292.7	500.0
27-Dec-13	Fine	11:30	-	14:34	188.0	187.0	173.0	292.7	500.0
2-Jan-14	Sunny	09:30	-	12:34	188.0	184.0	181.0	292.7	500.0
8-Jan-14	Fine	09:30	-	12:34	201.0	203.0	201.0	292.7	500.0
14-Jan-14	Fine	13:00	-	16:04	211.0	198.0	200.0	292.7	500.0
20-Jan-14	Fine	13:00	-	16:04	222.0	219.0	199.0	292.7	500.0
25-Jan-14	Sunny	09:00	-	12:04	178.0	177.0	169.0	292.7	500.0
30-Jan-14	Fine	14:00	-	17:04	212.0	219.0	189.0	292.7	500.0
5-Feb-14	Fine	09:00	-	12:04	166.0	192.0	150.0	292.7	500.0
11-Feb-14	Cloudy	10:00	-	13:04	147.0	155.0	149.0	292.7	500.0
17-Feb-14	Fine	10:30	-	13:34	202.0	211.0	188.0	292.7	500.0
22-Feb-14	Fine	09:00	-	12:04	189.0	166.0	198.0	292.7	500.0
28-Feb-14	Fine	10:45	-	13:49	221.0	187.0	211.0	292.7	500.0
6-Mar-14	Cloudy	11:00	_	14:04	211.0	218.0	197.0	292.7	500.0
12-Mar-14	Cloudy	11:00	-	14:04	197.0	199.0	232.0	292.7	500.0
18-Mar-14	Fine	14:00	_	17:04	212.0	216.0	203.0	292.7	500.0
24-Mar-14	Fine	11:00	-	14:04	199.0	198.0	221.0	292.7	500.0
29-Mar-14	Rainy	10:00	-	13:04	167.0	161.0	173.0	292.7	500.0
4-Apr-14	Cloudy	08:00	_	11:04	189.0	191.0	203.0	292.7	500.0
10-Apr-14	Fine	10:30	-	13:34	156.0	171.0	163.0	292.7	500.0
16-Apr-14	Sunny	11:01	_	14:05	144.0	147.0	151.0	292.7	500.0
22-Apr-14	Sunny	11:30	-	14:34	152.0	136.0	129.0	292.7	500.0
28-Apr-14	Sunny	11:00	-	14:04	163.0	166.0	139.0	292.7	500.0
3-May-14	Fine	10:30	-	13:34	144.0	141.0	157.0	292.7	500.0
9-May-14	Rainy	10:30	_	13:34	122.0	129.0	116.0	292.7	500.0
15-May-14	Cloudy	09:00	-	12:04	116.0	134.0	129.0	292.7	500.0
21-May-14	Rainy	14:30	-	17:34	112.0	153.0	117.0	292.7	500.0
27-May-14	Fine	10:30	-	13:34	137.0	124.0	121.0	292.7	500.0
31-May-14	Fine	10:30	-	13:34	116.0	117.0	136.0	292.7	500.0
6-Jun-14	Cloudy	14:30	-	17:34	166.0	173.0	158.0	292.7	500.0
12-Jun-14	Fine	09:00	-	12:04	178.9	161.6	130.4	292.7	500.0
18-Jun-14	Cloudy	09:00	-	12:00	58.9	61.2	54.2	292.7	500.0
24-Jun-14	Rainy	09:00	-	12:00	34.6	36.9	35.8	292.7	500.0
30-Jun-14	Rainy	09:00	-	12:00	35.8	34.6	38.1	292.7	500.0
5-Jul-14	Rainy	09:00	-	12:00	64.6	66.9	70.4	292.7	500.0
11-Jul-14	Fine	09:00	-	12:00	56.5	51.9	62.3	292.7	500.0
17-Jul-14	Fine	09:00	-	12:00	50.8	51.9	54.2	292.7	500.0
23-Jul-14	Fine	09:00	-	12:00	78.5	72.7	69.2	292.7	500.0
29-Jul-14	Fine	09:00	-	12:00	73.9	69.2	66.9	292.7	500.0
4-Aug-14	Sunny	09:00	-	12:00	65.8	57.7	68.1	292.7	500.0
9-Aug-14	Fine	09:00	-	12:00	84.2	78.5	79.6	292.7	500.0
15-Aug-14	Fine	09:00	-	12:00	69.2	65.8	65.8	292.7	500.0
21-Aug-14	Fine	09:00	-	12:00	81.9	75.0	86.6	292.7	500.0
27-Aug-14	Sunny	09:00	-	12:00	72.7	90.0	99.3	292.7	500.0
2-Sep-14	Fine	09:00	-	12:00	65.8	71.6	61.2	292.7	500.0
8-Sep-14	Sunny	09:00	-	12:00	43.9	47.3	41.5	292.7	500.0
13-Sep-14	Sunny	09:00	-	12:00	47.3	68.1	51.9	292.7	500.0
19-Sep-14	Fine	09:00	-	12:00	229.7	218.1	220.4	292.7	500.0
25-Sep-14	Sunny	09:00	-	12:00	93.5	90.0	87.7	292.7	500.0
30-Sep-14	Fine	09:00	-	12:00	86.6	80.8	84.2	292.7	500.0

#### Appendix F

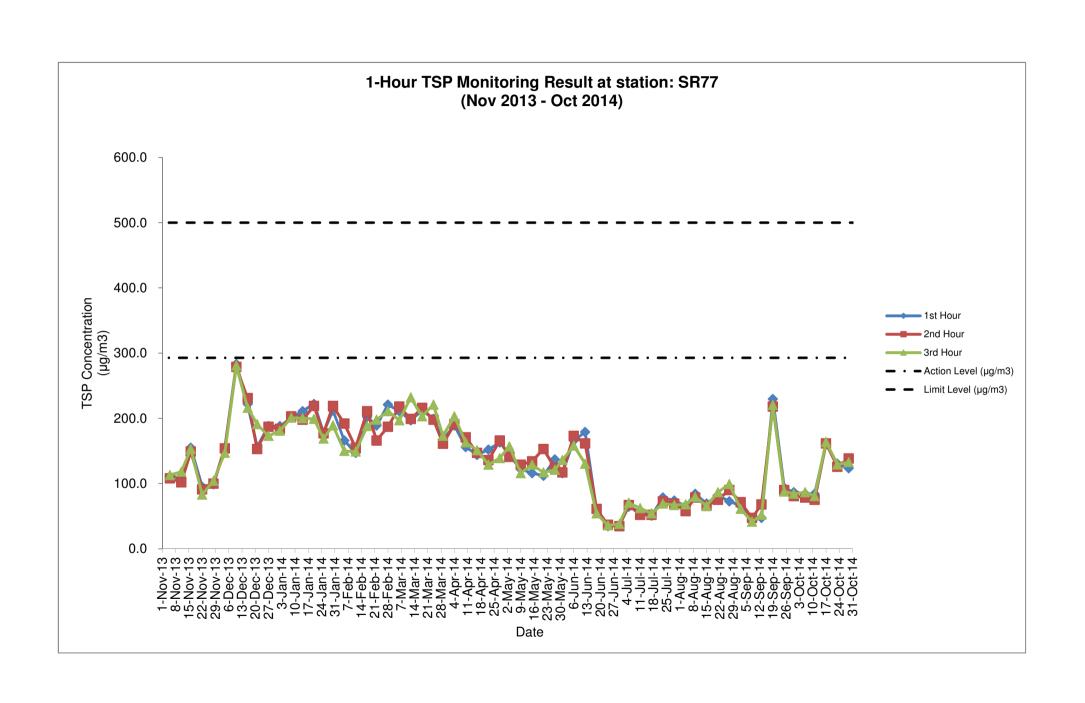
Air Quality Monitoring Results and their Graphical Presentation

1-Hour TSP Monitoring Result at Station: SR77

Date	Weather	_	Time			Conc.(µg/m³	Action Level	Limit Level	
Date	Condition		111110		1 <sup>st</sup> Hour	2 <sup>nd</sup> Hour	3 <sup>rd</sup> Hour	(µg/m3)	(µg/m3)
6-Oct-14	Fine	09:00	-	12:00	84.2	78.5	86.6	292.7	500.0
11-Oct-14	Sunny	09:00	-	12:00	84.2	75.0	8.08	292.7	500.0
17-Oct-14	Sunny	09:00	-	12:00	160.4	161.6	163.9	292.7	500.0
23-Oct-14	Sunny	09:00	-	12:00	130.4	125.8	129.3	292.7	500.0
29-Oct-14	Fine	09:00	-	12:00	123.5	138.5	132.7	292.7	500.0

Summary For the Reporting (Nov 2013 - Oct 2014)	g Period
Average	135.5
Minimum	34.6
Maximum	283.0

Note: No major dust source observed during the monitoring period



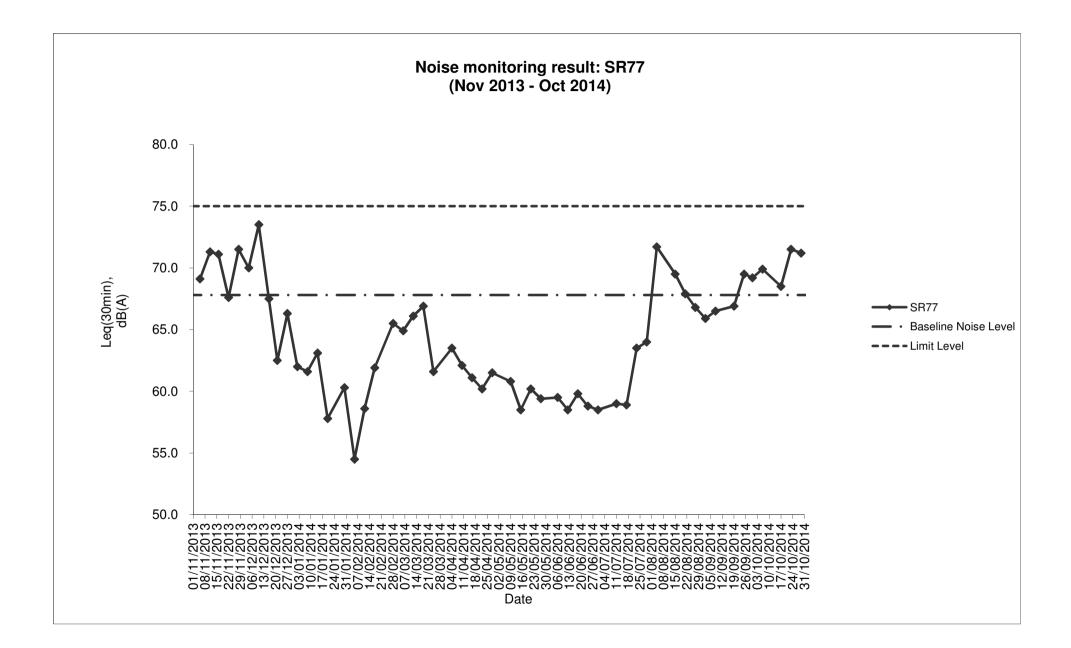
#### Noise Monitoring Result at SR77

Condition   Time   Ti	Date	Weather	Start	End	Measure	ed Noise Level	(dB(A))*	Baseline Corrected	Baseline Noise Level	Limit Level	Exceedance
201311916   Colusy   03-30   1000   72.4   611   69.1   - 67.8   75.0   N   201311916   Fine   10.00   10.90   73.2   63.1   71.1   - 67.8   75.0   N   20131192   Fine   10.00   10.90   73.2   63.1   71.1   - 67.8   75.0   N   20131192   Fine   10.00   10.90   73.2   63.1   71.1   - 67.8   75.0   N   20131192   Fine   10.30   11.00   73.5   88.5   67.5   - 67.8   75.0   N   20131192   Fine   10.30   11.00   74.1   77.5   77.5   - 67.8   75.0   N   201311910   Fine   10.30   13.90   78.6   67.5   73.5   - 67.8   75.0   N   201311910   Fine   10.30   10.30   71.6   67.5   73.5   - 67.8   75.0   N   201311910   Fine   10.30   10.30   71.6   77.1   67.5   - 67.8   75.0   N   201311912   Fine   08.00   08.30   88.6   74.1   62.5   - 67.8   75.0   N   201311912   Fine   08.00   08.30   88.6   74.1   62.5   - 67.8   75.0   N   201311912   Fine   08.00   08.30   88.6   74.1   62.5   - 67.8   75.0   N   201311912   Fine   08.00   08.30   10.00   70.8   72.3   62.0   - 67.8   75.0   N   201410102   Surrey   09.30   10.00   70.8   72.3   62.0   - 67.8   75.0   N   201410102   Surrey   09.30   10.00   70.8   72.3   62.0   - 67.8   75.0   N   201410102   Surrey   09.30   10.00   70.8   72.3   62.0   - 67.8   75.0   N   201410104   Fine   13.00   13.30   70.8   72.1   75.1   61.6   - 67.8   75.0   N   201410104   Fine   13.00   13.30   70.8   72.1   75.1   63.1   - 67.8   75.0   N   201410104   Fine   13.00   13.30   70.8   72.1   75.8   67.8   75.0   N   N   201410103   Fine   14.00   14.30   70.8   72.1   57.5   65.5   - 67.8   75.0   N   N   201410104   Fine   13.00   13.30   70.8   72.1   75.5   65.5   - 67.8   75.0   N   N   201410104   Fine   13.00   10.30   67.4   71.3   58.6   - 67.8   75.0   N   N   201410104   Fine   10.45   11.5   71.6   75.5   65.5   - 67.8   75.0   N   N   201410104   Fine   10.45   11.5   71.6   75.5   65.5   - 67.8   75.0   N   N   201410104   Fine   10.45   11.5   71.6   75.5   65.5   - 67.8   75.0   N   N   201410104   Fine   10.45   11.5   71.6   75.5   65.5   - 67.8   75.0   N   N   2014		Condition	Time	Time	L10(30min)	L90(30min)	Leq(30min)	Level, dB(A)**	(dB(A)), Leg(30min)	dB(A)	(Y / N)
2019/11/11   Closuly   10:30   11:00   72:9   62:2   71:3   - 67:8   75:0   N   2019/11/20   Fine   10:30   10:00   70:5   88:5   67:6   - 67:8   75:0   N   2019/11/20   Fine   10:30   11:00   74:1   77:5   71:5   - 67:8   75:0   N   2019/11/20   Fine   10:30   11:00   74:1   77:5   71:5   - 67:8   75:0   N   2019/11/20   Fine   10:30   11:00   74:1   77:5   71:5   - 67:8   75:0   N   2019/11/20   Fine   10:30   10:30   78:6   67:5   77:5   - 67:8   75:0   N   2019/11/20   Fine   10:30   10:30   78:6   67:5   77:5   - 67:8   75:0   N   2019/11/20   Fine   10:30   0:30   86:5   74:1   67:5   - 67:8   75:0   N   2019/11/20   Fine   80:0   80:30   86:5   74:1   67:5   - 67:8   75:0   N   2019/11/20   Fine   80:0   80:30   86:5   74:1   67:5   - 67:8   75:0   N   2019/11/20   Fine   80:0   80:30   86:5   74:1   67:5   - 67:8   75:0   N   2019/11/20   Fine   80:0   80:30   86:5   74:1   67:5   - 67:8   75:0   N   2019/11/20   Fine   80:0   10:00   70:1   75:4   66:3   - 67:8   75:0   N   2019/11/20   Fine   80:0   10:00   70:1   75:4   66:3   - 67:8   75:0   N   2019/11/20   Fine   10:00   10:30   70:4   74:5   63:1   67:8   75:0   N   2019/11/20   Fine   10:00   13:30   70:4   74:5   63:1   67:8   75:0   N   2019/11/20   Fine   10:00   13:30   70:4   74:5   63:1   67:8   75:0   N   2019/11/20   Fine   10:00   13:30   70:4   74:5   63:1   67:8   75:0   N   2019/11/20   Fine   10:00   10:00   80:4   72:1   57:8   - 67:8   75:0   N   2019/11/20   Fine   10:00   10:00   80:4   72:1   61:9   67:8   75:0   N   2019/11/20   Fine   10:00   10:00   80:4   72:1   61:9   67:8   75:0   N   2019/11/20   Fine   10:00   10:00   80:4   72:1   61:9   67:8   75:0   N   2019/11/20   Fine   10:00   10:00   80:4   72:1   61:9   67:8   75:0   N   2019/11/20   Fine   10:00   10:00   80:4   72:1   61:9   67:8   75:0   N   2019/11/20   Fine   10:00   10:00   80:4   72:1   61:9   67:8   75:0   N   2019/11/20   Fine   10:00   10:00   80:4   72:1   61:9   67:8   75:0   N   2019/11/20   Fine   10:00   10:00   80:4   72:1   61:9   67:8   75:0	2013/11/05	Cloudy	09:30	10:00	72.4	61.1	69.1	- '		75.0	N
2013111/16   Fine   10.00   10.30   73.2   63.1   71.1   - 67.8   75.0   N   2013111/26   Fine   13.00   11.00   74.1   77.5   71.5   - 67.8   75.0   N   201311/26   Fine   10.30   11.00   74.1   77.5   71.5   - 67.8   75.0   N   201311/26   Fine   10.30   11.00   74.1   77.5   71.5   - 67.8   75.0   N   201311/270   Fine   13.00   13.30   79.6   67.5   73.5   - 67.8   75.0   N   201311/270   Fine   13.00   13.30   79.6   67.5   73.5   - 67.8   75.0   N   201311/270   Fine   13.00   13.30   79.6   67.5   73.5   - 67.8   75.0   N   201311/271   Fine   0.80.0   0.83.0   68.6   74.1   62.5   - 67.8   75.0   N   201311/272   Fine   0.80.0   0.83.0   68.6   74.1   62.5   - 67.8   75.0   N   201311/272   Fine   0.80.0   0.83.0   68.6   74.1   62.5   - 67.8   75.0   N   201311/272   Surmy   13.00   10.00   70.8   72.3   62.0   - 67.8   75.0   N   2014101/27   Surmy   0.83.0   10.00   70.8   72.3   62.0   - 67.8   75.0   N   2014101/27   Surmy   0.83.0   13.30   79.4   74.5   63.1   - 67.8   75.0   N   2014101/27   Fine   13.00   13.30   79.4   74.5   63.1   - 67.8   75.0   N   2014101/20   Fine   13.00   13.30   79.8   72.9   69.3   - 67.8   75.0   N   2014101/20   Fine   13.00   13.30   79.8   72.9   69.3   - 67.8   75.0   N   N   2014101/20   Fine   14.00   14.30   79.8   72.9   69.3   - 67.8   75.0   N   N   2014101/20   Fine   14.00   14.30   79.8   72.9   69.3   - 67.8   75.0   N   N   2014101/20   Fine   14.00   14.30   79.8   72.9   69.3   - 67.8   75.0   N   N   2014101/20   Fine   14.00   14.30   79.8   72.9   69.3   - 67.8   75.0   N   N   2014101/20   Fine   14.00   14.30   79.8   72.9   69.3   - 67.8   75.0   N   N   2014101/20   Fine   14.00   14.30   79.8   72.9   69.3   - 67.8   75.0   N   N   2014101/20   Fine   14.00   14.30   79.8   72.9   69.3   - 67.8   75.0   N   N   2014101/20   Fine   14.00   14.30   79.8   72.5   65.5   - 67.8   75.0   N   N   2014101/20   Fine   14.00   14.30   79.8   79.5   65.5   - 67.8   75.0   N   N   2014101/20   Fine   14.00   14.30   79.8   79.5   65.5   - 67.8   75.0		Cloudy		11:00	72.9			-	67.8		N
201311/122   Fine   1330   1400   705   885   676   - 678   750   N								-			N
20131/10/28   Fine   1030   1190   74.1   77.5   71.5   - 67.8   75.0   N								-	67.8		N
2019/12/10   Fine   11:30   12:00   75:1   63:0   70.0   -     67:8   75:0   N     2019/12/16   Rainy   10:00   13:30   79:6   67:5   73:5   -				11:00				-	67.8		N
203197216   Fine   13:00   13:30   79:6   67:5   75:5   - 67:8   75:0   N   203197216   Rainy   10:00   10:30   77:16   77:1, 67:5   - 67:8   75:0   N   203197216   Fine   08:00   08:30   68:6   74:1   67:5   - 67:8   75:0   N   203197217   Fine   08:00   08:30   68:6   74:1   67:5   - 67:8   75:0   N   203197217   Fine   08:00   08:30   68:6   74:1   67:5   - 67:8   75:0   N   203197217   Fine   08:30   10:00   70:8   72:3   62:0   - 67:8   75:0   N   20319721   Fine   08:30   10:00   70:8   72:3   62:0   - 67:8   75:0   N   20319721   Fine   10:00   13:30   70:4   74:5   63:1   - 67:8   75:0   N   20319721   Fine   13:00   13:30   70:4   74:5   63:1   - 67:8   75:0   N   20319720   Fine   13:00   13:30   70:8   72:1   57:8   67:8   75:0   N   20319720   Fine   13:00   13:30   70:8   72:1   57:8   67:8   75:0   N   20319720   Fine   14:30   15:00   61:3   64:7   54:5   67:8   75:0   N   20319720   Fine   14:30   15:00   61:3   64:7   54:5   67:8   75:0   N   20319720   Fine   10:30   10:30   67:4   71:3   58:6   - 67:8   75:0   N   20319720   Fine   10:30   10:30   67:4   71:3   58:6   - 67:8   75:0   N   20319720   Fine   10:30   11:00   69:4   72:1   61:9   - 67:8   75:0   N   20319720   Fine   10:30   11:00   69:4   72:1   61:9   - 67:8   75:0   N   20319720   Fine   10:30   11:00   69:4   72:1   61:9   - 67:8   75:0   N   20319720   Fine   10:30   11:00   69:4   72:1   61:9   - 67:8   75:0   N   20319720   Fine   10:30   11:00   69:4   72:1   61:9   - 67:8   75:0   N   20319720   Fine   10:30   11:00   69:4   72:1   61:9   - 67:8   75:0   N   20319720   Fine   10:30   77:8   88:1   66:9   - 67:8   75:0   N   20319720   Fine   10:30   77:8   88:1   66:9   - 67:8   75:0   N   20319720   Fine   10:30   77:8   88:1   66:9   - 67:8   75:0   N   20319720   Fine   10:30   77:8   88:5   69:9   67:8   75:0   N   20319720   Fine   10:30   77:8   88:5   69:9   67:8   75:0   N   20319720   Fine   10:30   77:8   88:5   69:9   67:8   75:0   N   20319720   Fine   10:30   77:8   88:5   69:9   67:8   75:0   N   20319720											N
2013/12/16   Rainy   1000   1030   71.6   77.1   67.5   - 67.8   75.0   N   2013/12/27   Sumpy   1130   1200   70.1   75.4   66.3   - 67.8   75.0   N   2013/12/27   Sumpy   1130   1200   70.1   75.4   66.3   - 67.8   75.0   N   2014/10/28   Sumpy   0.93.0   10.00   70.8   72.3   82.0   - 67.8   75.0   N   2014/10/28   Sumpy   0.93.0   10.00   71.2   76.1   61.6   - 67.8   75.0   N   2014/10/28   Fine   0.93.0   15.00   71.2   76.1   61.6   - 67.8   75.0   N   2014/10/28   Fine   13.00   13.30   70.4   74.5   63.1   - 67.6   75.0   N   2014/10/26   Fine   13.00   13.30   70.4   74.5   63.1   - 67.6   75.0   N   2014/10/26   Fine   14.00   14.30   70.8   72.9   60.3   - 67.8   75.0   N   2014/10/26   Fine   14.00   14.30   70.8   72.9   60.3   - 67.8   75.0   N   2014/10/26   Fine   14.00   14.30   70.8   72.9   60.3   - 67.8   75.0   N   2014/10/26   Fine   14.00   14.30   70.8   72.9   60.3   - 67.8   75.0   N   2014/10/211   Cloudy   10.00   10.30   67.4   71.3   58.6   - 67.8   75.0   N   2014/10/215   Fine   10.30   11.00   68.4   72.1   61.9   - 67.8   75.0   N   2014/10/216   Cloudy   11.00   11.30   71.8   88.1   66.1   - 67.8   75.0   N   2014/10/212   Cloudy   11.00   11.30   71.8   88.1   66.1   - 67.8   75.0   N   2014/10/212   Fine   10.04   14.30   71.8   88.1   66.1   - 67.8   75.0   N   2014/10/212   Fine   10.00   10.30   77.1   83.3   61.6   - 67.8   75.0   N   2014/10/212   Fine   10.00   10.30   77.5   65.5   - 67.8   75.0   N   2014/10/212   Fine   10.00   11.30   71.8   88.1   66.1   - 67.8   75.0   N   2014/10/212   Fine   10.00   11.30   77.8   78.1   69.9   - 67.8   75.0   N   2014/10/212   Fine   10.00   11.30   77.8   78.5   65.5   - 67.8   75.0   N   2014/10/212   Fine   10.30   11.00   68.5   71.3   62.1   - 67.8   75.0   N   2014/10/212   Fine   10.30   11.00   68.5   71.3   62.1   - 67.8   75.0   N   2014/10/212   Fine   10.30   11.00   68.5   71.3   62.1   - 67.8   75.0   N   2014/10/212   Fine   10.30   11.00   68.5   71.3   62.1   - 67.8   75.0   N   2014/10/212   Fine   10.30								-			N
2013 2 27   Fine								-			
2014/02/17   Sumy   11:30   12:00   70.1   75.4   66.3   -   67.8   75.0   N   N   2014/01/08   Fine   09:30   11:00   71.2   76.1   61.6   -   67.8   75.0   N   N   2014/01/08   Fine   09:30   11:00   71.2   76.1   61.6   -   67.8   75.0   N   N   2014/01/14   Fine   13:00   13:30   70.4   74.5   63.1   -   67.8   75.0   N   N   2014/01/10   Fine   13:00   13:30   76.8   72.1   57.8   -   67.8   75.0   N   N   2014/01/10   Fine   14:00   14:30   70.8   72.9   60.3   -   67.8   75.0   N   N   2014/02/10   Fine   14:00   14:30   70.8   72.9   60.3   -   67.8   75.0   N   N   2014/02/11   Cloudy   10:00   10:30   67.4   71.3   58.6   -   67.8   75.0   N   N   2014/02/11   Fine   10:30   11:00   69:4   72.1   61:9   -   67.8   75.0   N   N   2014/02/11   Fine   10:30   11:00   69:4   72.1   61:9   -   67.8   75.0   N   N   2014/02/17   Fine   10:30   11:00   69:4   72.1   61:9   -   67.8   75.0   N   N   2014/02/18   Fine   10:45   11:15   71.6   75.5   65.5   -   67.8   75.0   N   N   2014/02/18   Fine   10:45   11:15   71.6   75.5   65.5   -   67.8   75.0   N   N   2014/02/14   Cloudy   11:00   11:30   71.8   83.1   66.1   -   67.8   75.0   N   N   2014/02/14   Fine   10:00   14:30   71.8   83.1   66.1   -   67.8   75.0   N   N   2014/02/14   Fine   10:00   11:30   71.8   83.3   61.6   -   67.8   75.0   N   N   2014/02/14   Fine   10:00   11:30   71.8   83.3   61.6   -   67.8   75.0   N   N   2014/02/14   Fine   10:00   11:30   71.8   83.3   61.6   -   67.8   75.0   N   N   2014/02/14   Fine   10:00   11:30   71.8   83.3   61.6   -   67.8   75.0   N   N   2014/02/14   Fine   10:00   11:30   71.8   83.3   61.6   -   67.8   75.0   N   N   2014/02/14   Fine   10:00   11:30   71.8   83.3   61.6   -   67.8   75.0   N   N   2014/02/14   Fine   10:00   11:30   70.5   75.5   65.5   -   67.8   75.0   N   N   2014/02/14   Fine   10:00   11:30   70.5   72.5   63.5   -   67.8   75.0   N   N   2014/02/14   Fine   10:00   10:30   70.5   75.5   63.5   -   67.8   75.0   N   N   2014/02/14   Fine   10:00   10:00   68.5   77.3											N
201401012   Summy   09.30   10.00   70.8   72.3   62.0   -   67.8   75.0   N   N   201401014   Fine   13.00   13.30   70.4   74.5   63.1   -     67.8   75.0   N   N   201401014   Fine   13.00   13.30   70.4   74.5   63.1   -								-			N
2014001714   Fine   13:00   13:30   70.4   74.5   63.1   67.8   75.0   N											
201401714   Fine								-			N
201401720   Fine   13:00   13:30   76.8   72.1   57.8   - 67.8   75.0   N								-			N
2014/07/10   Fine											
201402716   Fine   14:30   15:00   61:3   64.7   54:5   -   67.8   75:0   N   201402717   Fine   10:30   10:30   67.4   71:3   58:6   -   67.8   75:0   N   201402727   Fine   10:30   11:10   69:4   72:1   61:9   -   67.8   75:0   N   201402728   Fine   10:45   11:15   71:6   75:5   65:5   -   67.8   75:0   N   201402728   Fine   10:45   11:15   71:6   75:5   65:5   -   67.8   75:0   N   201403712   Cloudy   11:00   11:30   70:8   76:1   64:9   -   67.8   75:0   N   201403712   Cloudy   11:00   11:30   71:8   88:1   66:1   -   67.8   75:0   N   201403714   Fine   14:00   14:30   74:2   88:1   66:9   -   67.8   75:0   N   201403714   Fine   11:00   11:30   77:8   83:1   66:9   -   67.8   75:0   N   201403724   Fine   11:00   11:30   77:8   83:3   61:6   -     67.8   75:0   N   2014047404   Cloudy   08:00   08:30   70:5   72:5   63:5   -     67.8   75:0   N   201404740   Fine   10:30   11:00   68:5   77:3   62:1   -								-			
201402/17   Cloudy   10:00   10:30   67:4   71:3   58:6   -   67:8   75:0   N   201402/17   Fine   10:30   11:00   69:4   72:1   61:9   -   67:8   75:0   N   201402/28   Fine   10:45   11:15   71:5   75:5   65:5   -   67:8   75:0   N   201403/06   Cloudy   11:00   11:30   70:8   76:1   64:9   -   67:8   75:0   N   201403/06   Cloudy   11:00   11:30   71:8   88:1   66:1   -   67:8   75:0   N   201403/18   Fine   14:00   14:30   71:8   88:1   66:1   -   67:8   75:0   N   201403/18   Fine   14:00   14:30   71:8   88:1   66:1   -   67:8   75:0   N   201403/18   Fine   14:00   14:30   71:8   83:3   61:6   -   67:8   75:0   N   201404/10   Gloudy   08:00   08:30   70:5   72:5   63:5   -   67:8   75:0   N   201404/10   Fine   10:30   11:00   68:5   71:3   62:1   -   67:8   75:0   N   201404/10   Fine   10:30   11:00   68:5   71:3   62:1   -   67:8   75:0   N   201404/22   Sunny   11:30   12:20   70:1   71:8   60:2   -   67:8   75:0   N   201406/16   Sunny   11:00   11:30   69:9   72:4   61:5   -   67:8   75:0   N   201406/16   Sunny   11:00   11:30   69:9   72:4   61:5   -   67:8   75:0   N   201406/16   Sunny   11:00   11:30   69:9   72:4   61:5   -     67:8   75:0   N   201406/16   Cloudy   09:00   09:30   65:5   70:5   85:5   -     67:8   75:0   N   201406/17   Fine   10:30   11:00   68:6   71:9   60:8   -								-			N
2014/02/17   Fine   10:30   11:00   69.4   72.1   61:9   - 67.8   75.0   N   2014/02/28   Fine   10:45   11:15   77.6   75.5   65.5   - 67.8   75.0   N   2014/03/12   Cloudy   11:00   11:30   70.8   76.1   64.9   - 67.8   75.0   N   N   2014/03/12   Cloudy   11:00   11:30   71.8   88.1   66.1   - 67.8   75.0   N   N   2014/03/24   Fine   14:00   14:30   74.2   89.1   66.9   - 67.8   75.0   N   N   2014/03/24   Fine   11:00   11:30   71.8   83.3   61.6   - 67.8   75.0   N   N   2014/03/24   Fine   11:00   11:30   71.8   83.3   61.6   - 67.8   75.0   N   N   2014/04/04   Cloudy   08:00   08:30   70.5   72.5   63.5   - 67.8   75.0   N   N   2014/04/14   Fine   10:30   11:00   68.5   71.3   62.1   - 67.8   75.0   N   N   2014/04/16   Sunny   11:01   11:31   69.3   71.9   61.1   - 67.8   75.0   N   N   2014/04/28   Sunny   11:01   11:30   69.9   72.4   61.5   - 67.8   75.0   N   N   2014/04/28   Sunny   11:00   11:30   69.9   72.4   61.5   - 67.8   75.0   N   N   2014/05/09   Rainy   09.00   09.30   65.5   70.5   59.5   - 67.8   75.0   N   N   2014/05/21   Rainy   14:30   15:00   63.5   70.5   59.5   - 67.8   75.0   N   N   2014/05/21   Rainy   14:30   15:00   63.5   63.6   70.1   60.2   - 67.8   75.0   N   N   2014/05/21   Fine   10.30   11:00   63.3   68.8   59.4   - 67.8   75.0   N   N   2014/05/21   Fine   10.30   11:00   63.3   68.8   59.4   - 67.8   75.0   N   N   2014/05/21   Fine   10.30   11:00   63.3   68.8   59.4   - 67.8   75.0   N   N   2014/05/21   Fine   10.30   11:00   63.3   68.8   59.9   56.5   - 67.8   75.0   N   N   2014/05/21   Fine   10.30   11:00   63.3   68.8   59.9   58.5   - 67.8   75.0   N   N   2014/05/21   Fine   10.30   11:00   63.3   68.8   59.9   58.5   - 67.8   75.0   N   N   2014/05/24   Fine   10.30   11:00   63.3   68.8   59.9   - 67.8   75.0   N   N   2014/05/24   Fine   10.30   11:00   63.3   68.5   59.0   - 67.8   75.0   N   N   2014/05/24   Fine   10.30   11:00   63.3   68.5   59.0   - 67.8   75.0   N   N   2014/05/24   Fine   10.30   11:00   63.3   68.5   59.9   - 67.8   75											
2014/02/28								-			
2014/03/06   Cloudy   11:00   11:30   70.8   76.1   64.9   - 67.8   75.0   N   2014/03/12   Cloudy   11:00   11:30   71.8   88.1   66.1   - 67.8   75.0   N   2014/03/24   Fine   14:00   14:30   74.2   89.1   66.9   - 67.8   75.0   N   2014/03/24   Fine   11:00   11:30   71.8   83.3   61.6   - 67.8   75.0   N   2014/03/24   Fine   11:00   11:30   71.8   83.3   61.6   - 67.8   75.0   N   2014/04/10   Cloudy   08:00   08:30   70.5   72.5   63.5   - 67.8   75.0   N   2014/04/10   Fine   10:30   11:00   68.5   77.3   62.1   - 67.8   75.0   N   2014/04/16   Sumry   11:01   11:31   68.3   71.9   61.1   - 67.8   75.0   N   2014/04/28   Sumry   11:00   11:30   69.9   72.4   61.5   - 67.8   75.0   N   2014/04/28   Sumry   11:00   11:30   69.9   72.4   61.5   - 67.8   75.0   N   2014/04/28   Sumry   11:00   68.5   77.5   58.5   - 67.8   75.0   N   2014/06/27   Sumry   11:00   68.5   77.5   58.5   - 67.8   75.0   N   2014/06/27   Sumry   11:00   68.5   77.5   58.5   - 67.8   75.0   N   2014/06/27   Sumry   11:00   68.5   70.5   58.5   - 67.8   75.0   N   2014/06/27   Fine   10:30   11:00   68.5   70.5   58.5   - 67.8   75.0   N   2014/06/27   Fine   10:30   11:00   68.5   70.5   58.5   - 67.8   75.0   N   2014/06/27   Fine   10:30   11:00   63.3   69.8   59.4   - 67.8   75.0   N   2014/06/27   Fine   10:30   11:00   63.3   69.8   59.4   - 67.8   75.0   N   2014/06/24   Rainy   14:30   15:00   62.5   70.5   58.5   - 67.8   75.0   N   2014/06/24   Rainy   14:30   15:00   63.5   69.9   58.5   - 67.8   75.0   N   2014/06/24   Rainy   14:30   15:00   63.5   69.9   58.5   - 67.8   75.0   N   2014/06/24   Rainy   14:30   15:00   63.5   69.9   58.5   - 67.8   75.0   N   2014/06/24   Rainy   11:00   11:30   62.4   70.6   58.8   - 67.8   75.0   N   2014/06/24   Rainy   11:00   11:30   62.4   70.6   58.8   - 67.8   75.0   N   2014/06/24   Rainy   11:00   11:30   62.4   70.6   58.8   - 67.8   75.0   N   2014/06/24   Fine   14:30   15:00   63.5   68.5   59.0   - 67.8   75.0   N   2014/06/24   Fine   14:00   14:30   70.7   60.5   65.9					71.6		65.5	-	67.8		N
2014/03/12   Cloudy   11:00   11:30   71.8   88.1   66.1   - 67.8   75.0   N	2014/03/06	Cloudy	11:00	11:30	70.8		64.9	-	67.8	75.0	N
2014/03/18   Fine   14:00   14:30   74:2   89.1   66.9   - 67.8   75.0   N	2014/03/12	Cloudy	11:00	11:30	71.8		66.1	-	67.8		N
2014/03/24   Fine								-			N
2014/04/04			11:00	11:30	71.8	83.3	61.6	-	67.8	75.0	N
2014/04/10   Fine   10:30   11:00   68.5   71.3   62.1   - 67.8   75.0   N	2014/04/04	Cloudy	08:00	08:30	70.5	72.5	63.5	-	67.8	75.0	N
2014/04/22   Sunny								-			N
2014/04/28   Sumy   11:00   11:30   69.9   72.4   61.5   -     67.8   75.0   N	2014/04/16	Sunny	11:01	11:31	69.3	71.9	61.1	-	67.8	75.0	N
2014/04/28   Sunny   11:00   11:30   69.9   72.4   61.5   - 67.8   75.0   N	2014/04/22	Sunny	11:30	12:00	70.1	71.8	60.2	-	67.8	75.0	N
2014/05/15				11:30			61.5	-	67.8		N
2014/05/21   Rainy	2014/05/09	Rainy	10:30	11:00	66.6	71.9	60.8	-	67.8	75.0	N
2014/05/27         Fine         10:30         11:00         63.3         69.8         59.4         -         67.8         75.0         N           2014/06/06         Cloudy         14:30         15:00         62.5         70.5         59.5         -         67.8         75.0         N           2014/06/12         Fine         09:00         09:30         61.8         69.9         58.5         -         67.8         75.0         N           2014/06/18         Cloudy         13:00         13:30         61.8         69.9         58.5         -         67.8         75.0         N           2014/06/12         Rainy         11:00         11:30         62.4         70.6         58.8         -         67.8         75.0         N           2014/07/17         Fine         14:30         15:00         63.1         69.3         58.5         -         67.8         75.0         N           2014/07/17         Fine         09:00         09:30         63.6         68.9         58.9         -         67.8         75.0         N           2014/07/29         Fine         09:30         10:00         72.1         73.5         63.5         -	2014/05/15	Cloudy	09:00	09:30	65.5	70.5	58.5	-	67.8	75.0	N
\$\begin{array}{c c c c c c c c c c c c c c c c c c c	2014/05/21	Rainy	14:30	15:00	63.6	70.1	60.2	-	67.8	75.0	N
2014/06/12         Fine         09:00         09:30         61.8         69.9         58.5         -         67.8         75.0         N           2014/06/18         Cloudy         13:00         13:30         61.8         68.6         59.8         -         67.8         75.0         N           2014/06/24         Rainy         11:30         62.4         70.6         58.8         -         67.8         75.0         N           2014/06/30         Rainy         14:30         15:00         63.1         69.3         58.5         -         67.8         75.0         N           2014/07/11         Fine         14:30         15:00         63.3         68.5         59.0         -         67.8         75.0         N           2014/07/23         Fine         09:00         09:30         63.6         68.9         58.9         -         67.8         75.0         N           2014/07/23         Fine         14:00         14:30         67.4         72.5         63.5         -         67.8         75.0         N           2014/07/29         Fine         90:30         73.7         63.4         71.7         -         67.8         75.0 <td< td=""><td>2014/05/27</td><td>Fine</td><td>10:30</td><td>11:00</td><td>63.3</td><td>69.8</td><td>59.4</td><td>-</td><td>67.8</td><td>75.0</td><td>N</td></td<>	2014/05/27	Fine	10:30	11:00	63.3	69.8	59.4	-	67.8	75.0	N
2014/06/18         Cloudy         13:00         13:30         61.8         68.6         59.8         -         67.8         75.0         N           2014/06/24         Rainy         11:00         11:30         62.4         70.6         58.8         -         67.8         75.0         N           2014/06/30         Rainy         14:30         15:00         63.1         69.3         58.5         -         67.8         75.0         N           2014/07/17         Fine         14:30         15:00         63.3         68.5         59.0         -         67.8         75.0         N           2014/07/17         Fine         09:00         09:30         63.6         68.9         58.9         -         67.8         75.0         N           2014/07/23         Fine         14:00         14:30         67.4         72.5         63.5         -         67.8         75.0         N           2014/07/29         Fine         09:30         10:00         72.1         73.5         64.0         -         67.8         75.0         N           2014/08/04         Sunny         10:00         10:30         73.7         63.4         71.7         -	2014/06/06	Cloudy	14:30	15:00	62.5	70.5	59.5	-	67.8	75.0	N
2014/06/24         Rainy         11:00         11:30         62.4         70.6         58.8         -         67.8         75.0         N           2014/06/30         Rainy         14:30         15:00         63.1         69.3         58.5         -         67.8         75.0         N           2014/07/11         Fine         14:30         15:00         63.3         68.5         59.0         -         67.8         75.0         N           2014/07/17         Fine         09:00         09:30         63.6         68.9         58.9         -         67.8         75.0         N           2014/07/23         Fine         14:00         14:30         67.4         72.5         63.5         -         67.8         75.0         N           2014/07/29         Fine         09:30         10:00         72.1         73.5         64.0         -         67.8         75.0         N           2014/08/04         Sunny         10:00         10:30         73.7         63.4         71.7         -         67.8         75.0         N           2014/08/15         Fine         15:00         15:30         73.5         63.0         69.5         - <t< td=""><td>2014/06/12</td><td>Fine</td><td>09:00</td><td>09:30</td><td>61.8</td><td>69.9</td><td>58.5</td><td>-</td><td>67.8</td><td>75.0</td><td>N</td></t<>	2014/06/12	Fine	09:00	09:30	61.8	69.9	58.5	-	67.8	75.0	N
2014/06/24         Rainy         11:00         11:30         62.4         70.6         58.8         -         67.8         75.0         N           2014/06/30         Rainy         14:30         15:00         63.1         69.3         58.5         -         67.8         75.0         N           2014/07/11         Fine         14:30         15:00         63.3         68.5         59.0         -         67.8         75.0         N           2014/07/17         Fine         09:00         09:30         63.6         68.9         58.9         -         67.8         75.0         N           2014/07/29         Fine         09:30         14:30         67.4         72.5         63.5         -         67.8         75.0         N           2014/07/29         Fine         09:30         10:00         72.1         73.5         64.0         -         67.8         75.0         N           2014/07/29         Fine         09:30         10:00         72.1         73.5         64.0         -         67.8         75.0         N           2014/08/04         Sunny         10:00         10:30         73.7         63.4         71.7         - <t< td=""><td>2014/06/18</td><td>Cloudy</td><td>13:00</td><td>13:30</td><td>61.8</td><td>68.6</td><td>59.8</td><td>-</td><td>67.8</td><td>75.0</td><td>N</td></t<>	2014/06/18	Cloudy	13:00	13:30	61.8	68.6	59.8	-	67.8	75.0	N
2014/07/11         Fine         14:30         15:00         63.3         68.5         59.0         -         67.8         75.0         N           2014/07/17         Fine         09:00         09:30         63.6         68.9         58.9         -         67.8         75.0         N           2014/07/23         Fine         14:00         14:30         67.4         72.5         63.5         -         67.8         75.0         N           2014/07/29         Fine         09:30         10:00         72.1         73.5         64.0         -         67.8         75.0         N           2014/08/04         Sunny         10:00         10:30         73.7         63.4         71.7         -         67.8         75.0         N           2014/08/15         Fine         15:00         15:30         73.5         63.0         69.5         -         67.8         75.0         N           2014/08/12         Fine         15:00         72.4         62.0         67.9         -         67.8         75.0         N           2014/08/12         Fine         10:00         10:30         70.7         60.5         66.8         -         67.8         7	2014/06/24		11:00	11:30	62.4	70.6	58.8	-	67.8	75.0	N
2014/07/17         Fine         09:00         09:30         63.6         68.9         58.9         -         67.8         75.0         N           2014/07/23         Fine         14:00         14:30         67.4         72.5         63.5         -         67.8         75.0         N           2014/07/29         Fine         09:30         10:00         72.1         73.5         64.0         -         67.8         75.0         N           2014/08/19         Sunny         10:00         10:30         73.7         63.4         71.7         -         67.8         75.0         N           2014/08/15         Fine         15:00         15:30         73.5         63.0         69.5         -         67.8         75.0         N           2014/08/12         Fine         14:30         15:00         72.4         62.0         67.9         -         67.8         75.0         N           2014/08/27         Sunny         11:00         11:30         71.6         61.5         66.8         -         67.8         75.0         N           2014/09/02         Fine         10:00         10:30         70.7         60.5         65.9         - <td< td=""><td>2014/06/30</td><td>Rainy</td><td>14:30</td><td>15:00</td><td>63.1</td><td>69.3</td><td>58.5</td><td>-</td><td>67.8</td><td>75.0</td><td>N</td></td<>	2014/06/30	Rainy	14:30	15:00	63.1	69.3	58.5	-	67.8	75.0	N
2014/07/23         Fine         14:00         14:30         67.4         72.5         63.5         -         67.8         75.0         N           2014/07/29         Fine         09:30         10:00         72.1         73.5         64.0         -         67.8         75.0         N           2014/08/04         Sunny         10:00         10:30         73.7         63.4         71.7         -         67.8         75.0         N           2014/08/15         Fine         15:00         15:30         73.5         63.0         69.5         -         67.8         75.0         N           2014/08/21         Fine         14:30         15:00         72.4         62.0         67.9         -         67.8         75.0         N           2014/08/27         Sunny         11:00         11:30         71.6         61.5         66.8         -         67.8         75.0         N           2014/09/02         Fine         10:00         10:30         70.7         60.5         65.9         -         67.8         75.0         N           2014/09/08         Sunny         10:00         10:30         71.5         61.0         66.5         - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>N</td></t<>											N
2014/07/29         Fine         09:30         10:00         72.1         73.5         64.0         -         67.8         75.0         N           2014/08/04         Sunny         10:00         10:30         73.7         63.4         71.7         -         67.8         75.0         N           2014/08/15         Fine         15:00         15:30         73.5         63.0         69.5         -         67.8         75.0         N           2014/08/21         Fine         14:30         15:00         72.4         62.0         67.9         -         67.8         75.0         N           2014/08/27         Sunny         11:00         11:30         71.6         61.5         66.8         -         67.8         75.0         N           2014/09/02         Fine         10:00         10:30         70.7         60.5         65.9         -         67.8         75.0         N           2014/09/08         Sunny         10:00         10:30         71.5         61.0         66.5         -         67.8         75.0         N           2014/09/19         Sunny         14:00         14:30         70.5         59.5         66.9         -         <	2014/07/17	Fine	09:00	09:30	63.6	68.9	58.9	-	67.8	75.0	N
2014/07/29         Fine         09:30         10:00         72.1         73.5         64.0         -         67.8         75.0         N           2014/08/04         Sunny         10:00         10:30         73.7         63.4         71.7         -         67.8         75.0         N           2014/08/15         Fine         15:00         15:30         73.5         63.0         69.5         -         67.8         75.0         N           2014/08/15         Fine         14:30         15:00         72.4         62.0         67.9         -         67.8         75.0         N           2014/08/27         Sunny         11:00         11:30         71.6         61.5         66.8         -         67.8         75.0         N           2014/09/02         Fine         10:00         10:30         70.7         60.5         65.9         -         67.8         75.0         N           2014/09/08         Sunny         10:00         10:30         71.5         61.0         66.5         -         67.8         75.0         N           2014/09/19         Sunny         14:00         14:30         70.5         59.5         66.9         -         <	2014/07/23	Fine	14:00	14:30	67.4	72.5	63.5	-	67.8	75.0	N
2014/08/04         Sunny         10:00         10:30         73.7         63.4         71.7         -         67.8         75.0         N           2014/08/15         Fine         15:00         15:30         73.5         63.0         69.5         -         67.8         75.0         N           2014/08/21         Fine         14:30         15:00         72.4         62.0         67.9         -         67.8         75.0         N           2014/08/27         Sunny         11:00         11:30         71.6         61.5         66.8         -         67.8         75.0         N           2014/09/02         Fine         10:00         10:30         70.7         60.5         65.9         -         67.8         75.0         N           2014/09/08         Sunny         10:00         10:30         71.5         61.0         66.5         -         67.8         75.0         N           2014/09/08         Sunny         14:00         14:30         70.5         59.5         66.9         -         67.8         75.0         N           2014/09/19         Sunny         14:00         14:30         70.5         59.5         66.9         -	2014/07/29				72.1				67.8		N
2014/08/21         Fine         14:30         15:00         72.4         62.0         67.9         -         67.8         75.0         N           2014/08/27         Sunny         11:00         11:30         71.6         61.5         66.8         -         67.8         75.0         N           2014/09/02         Fine         10:00         10:30         70.7         60.5         65.9         -         67.8         75.0         N           2014/09/08         Sunny         10:00         10:30         71.5         61.0         66.5         -         67.8         75.0         N           2014/09/19         Sunny         14:00         14:30         70.5         59.5         66.9         -         67.8         75.0         N           2014/09/19         Fine         11:30         12:00         73.5         64.5         69.5         -         67.8         75.0         N           2014/09/30         Sunny         14:30         15:00         73.0         61.0         69.2         -         67.8         75.0         N           2014/09/30         Sunny         14:30         15:00         73.0         61.0         69.2         -	2014/08/04	Sunny	10:00	10:30	73.7		71.7	-	67.8	75.0	N
2014/08/21         Fine         14:30         15:00         72.4         62.0         67.9         -         67.8         75.0         N           2014/08/27         Sunny         11:00         11:30         71.6         61.5         66.8         -         67.8         75.0         N           2014/09/02         Fine         10:00         10:30         70.7         60.5         65.9         -         67.8         75.0         N           2014/09/08         Sunny         10:00         10:30         71.5         61.0         66.5         -         67.8         75.0         N           2014/09/19         Sunny         14:00         14:30         70.5         59.5         66.9         -         67.8         75.0         N           2014/09/19         Fine         11:30         12:00         73.5         64.5         69.5         -         67.8         75.0         N           2014/09/30         Sunny         14:30         15:00         73.0         61.0         69.2         -         67.8         75.0         N           2014/09/30         Sunny         14:30         15:00         73.0         61.0         69.2         -	2014/08/15	Fine	15:00	15:30	73.5	63.0	69.5	-	67.8	75.0	N
2014/08/27         Sunny         11:00         11:30         71.6         61.5         66.8         -         67.8         75.0         N           2014/09/02         Fine         10:00         10:30         70.7         60.5         65.9         -         67.8         75.0         N           2014/09/08         Sunny         10:00         10:30         71.5         61.0         66.5         -         67.8         75.0         N           2014/09/19         Sunny         14:00         14:30         70.5         59.5         66.9         -         67.8         75.0         N           2014/09/25         Fine         11:30         12:00         73.5         64.5         69.5         -         67.8         75.0         N           2014/09/30         Sunny         14:30         15:00         73.0         61.0         69.2         -         67.8         75.0         N           2014/10/06         Fine         11:00         11:30         73.0         61.5         69.9         -         67.8         75.0         N           2014/10/17         Sunny         11:30         12:00         73.0         60.5         68.5         -											N
2014/09/08         Sunny         10:00         10:30         71.5         61.0         66.5         -         67.8         75.0         N           2014/09/19         Sunny         14:00         14:30         70.5         59.5         66.9         -         67.8         75.0         N           2014/09/25         Fine         11:30         12:00         73.5         64.5         69.5         -         67.8         75.0         N           2014/09/30         Sunny         14:30         15:00         73.0         61.0         69.2         -         67.8         75.0         N           2014/10/06         Fine         11:00         11:30         73.0         61.5         69.9         -         67.8         75.0         N           2014/10/17         Sunny         11:30         12:00         73.0         60.5         68.5         -         67.8         75.0         N           2014/10/123         Sunny         11:30         12:00         76.0         63.5         71.5         -         67.8         75.0         N	2014/08/27			11:30	71.6	61.5	66.8	-	67.8	75.0	N
2014/09/19         Sunny         14:00         14:30         70.5         59.5         66.9         -         67.8         75.0         N           2014/09/25         Fine         11:30         12:00         73.5         64.5         69.5         -         67.8         75.0         N           2014/09/30         Sunny         14:30         15:00         73.0         61.0         69.2         -         67.8         75.0         N           2014/10/06         Fine         11:00         11:30         73.0         61.5         69.9         -         67.8         75.0         N           2014/10/17         Sunny         11:30         12:00         73.0         60.5         68.5         -         67.8         75.0         N           2014/10/123         Sunny         11:30         12:00         76.0         63.5         71.5         -         67.8         75.0         N	2014/09/02	Fine	10:00	10:30	70.7	60.5	65.9	-	67.8	75.0	N
2014/09/25         Fine         11:30         12:00         73.5         64.5         69.5         -         67.8         75.0         N           2014/09/30         Sunny         14:30         15:00         73.0         61.0         69.2         -         67.8         75.0         N           2014/10/06         Fine         11:00         11:30         73.0         61.5         69.9         -         67.8         75.0         N           2014/10/17         Sunny         11:30         12:00         73.0         60.5         68.5         -         67.8         75.0         N           2014/10/23         Sunny         11:30         12:00         76.0         63.5         71.5         -         67.8         75.0         N	2014/09/08	Sunny	10:00	10:30	71.5	61.0	66.5	-	67.8	75.0	N
2014/09/25         Fine         11:30         12:00         73.5         64.5         69.5         -         67.8         75.0         N           2014/09/30         Sunny         14:30         15:00         73.0         61.0         69.2         -         67.8         75.0         N           2014/10/06         Fine         11:00         11:30         73.0         61.5         69.9         -         67.8         75.0         N           2014/10/17         Sunny         11:30         12:00         73.0         60.5         68.5         -         67.8         75.0         N           2014/10/23         Sunny         11:30         12:00         76.0         63.5         71.5         -         67.8         75.0         N	2014/09/19	Sunny	14:00	14:30	70.5	59.5	66.9	-	67.8		N
2014/09/30         Sunny         14:30         15:00         73.0         61.0         69.2         -         67.8         75.0         N           2014/10/06         Fine         11:00         11:30         73.0         61.5         69.9         -         67.8         75.0         N           2014/10/17         Sunny         11:30         12:00         73.0         60.5         68.5         -         67.8         75.0         N           2014/10/23         Sunny         11:30         12:00         76.0         63.5         71.5         -         67.8         75.0         N								-			N
2014/10/06         Fine         11:00         11:30         73.0         61.5         69.9         -         67.8         75.0         N           2014/10/17         Sunny         11:30         12:00         73.0         60.5         68.5         -         67.8         75.0         N           2014/10/23         Sunny         11:30         12:00         76.0         63.5         71.5         -         67.8         75.0         N		Sunny		15:00				-	67.8		N
2014/10/17         Sunny         11:30         12:00         73.0         60.5         68.5         -         67.8         75.0         N           2014/10/23         Sunny         11:30         12:00         76.0         63.5         71.5         -         67.8         75.0         N		Fine	11:00	11:30	73.0	61.5	69.9	-	67.8	75.0	N
2014/10/23 Sunny 11:30 12:00 76.0 63.5 71.5 - 67.8 75.0 N								-	67.8		N
2014/10/29 Fine 10:30 11:00 74.0 65.0 71.2 - 67.8 75.0 N								-			N
	2014/10/29	Fine	10:30	11:00	74.0	65.0	71.2	-	67.8	75.0	N

Summary For the Rep (Nov 2013 - Oct 2014)	orting Period
Average	64.4
Minimum	54.5
Maximum	73.5

#### Remarks

<sup>\* +3</sup>dB(A) Façade effect correction included
\*\* Baseline corrected level is only calculated when measured noise level (Leq) > limit level.



Project Name:

Contract No. CV/2012/09 Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure works - Contract 3 Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange

and Fanling - Stage 2

Date of Monitoring 05/11/2013 Weather: Cloudy

Monitoring	Time	Water	Tempe	rature (°C)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	dity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:53	<0.5	24.1	24.1	7.6	7.6	7.0	7.0	83.7	83.7	13.6	12.9	0.1	0.1	8	8.5
OSa	10.55	<0.5	24.1	24.1	7.6	7.0	7.0	7.0	83.6	03.7	12.1	12.5	0.1	0.1	9	6.5
C3b	10:41	<0.5	23.7	23.7	8.1	0.1	6.9	6.9	81.2	81.2	35	36.2	0.1	0.1	52	52
CSD	10.41	<0.5	23.7	23.7	8.1	0.1	6.9	0.9	81.2	01.2	37.3	36.2	0.1	0.1	52	32
15	10:24	<0.5	23.5	23.5	7.9	7.9	7.1	7.1	83.8	83.1	9.69	9.9	0.1	0.1	7	6.5
lo lo	10.24	<0.5	23.5	23.5	7.9	7.9	7.0	7.1	82.3	03.1	10.1	9.9	0.1	0.1	6	6.5

Date of Monitoring 07/11/2013 Weather: Fine

Monitoring	Time	Water	Tempe	rature (°C)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:53	<0.5	27.4	27.4	7.6	7.6	8.2	8.2	104.3	104.3	15.1	14.6	<0.1	<0.1	17	16.5
OSa	10.55	<0.5	27.4	27.4	7.6	7.0	8.2	0.2	104.2	104.3	14.1	14.0	<0.1	<0.1	16	10.5
C3b	10:41	<0.5	25.7	25.7	8	8.0	7.4	7.4	90.6	90.6	29.2	29.0	<0.1	<0.1	37	37.5
CSD	10.41	<0.5	25.7	25.7	8	6.0	7.4	7.4	90.6	90.6	28.7	29.0	<0.1	<0.1	38	37.5
IE	10:24	<0.5	26.1	26.1	7.8	7.8	7.7	7.7	95.4	95.4	32.5	31.2	<0.1	-0.1	32	31.5
15	10.24	<0.5	26.1	20.1	7.8	7.0	7.7	7.7	95.4	95.4	29.8	31.2	<0.1	<0.1	31	31.5

09/11/2013 Date of Monitoring Weather: Fine

Monitoring	Time	Water	Tempe	rature (°C)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	dity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:02	<0.5	27.2	27.2	7.6	7.6	6.4	6.4	80.3	80.2	21.8	22.0	<0.1	<0.1	24	24
OSa	11.02	<0.5	27.2	21.2	7.6	7.0	6.4	0.4	80.1	00.2	22.1	22.0	<0.1	<0.1	24	24
C3b	10:50	<0.5	25.9	25.9	8	8.0	5.4	E 4	66.3	66.2	38.7	39.9	<0.1	<0.1	27	27
CSD	10.50	<0.5	25.9	25.9	8	0.0	5.4	5.4	66.1	00.2	41	39.9	<0.1	<0.1	27	21
IE	10:33	<0.5	25.3	25.3	7.7	7.7	6.1	6.1	74.5	74.2	19.5	18.5	<0.1	<0.1	20	21
15	10.55	<0.5	25.3	23.3	7.7	7.7	6.1	6.1	73.9	74.2	17.5	16.5	< 0.1	<0.1	22	21

Date of Monitoring 11/11/2013 Weather: Cloudy

Monitoring	Time	Water	Tempe	rature (°C)	-	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salin	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:46	<0.5	24.5	24.5	7.7	7.7	6.2	6.2	74.7	74.6	28.2	26.2	<0.1	<0.1	34	33.5
OSa	11.40	<0.5	24.5	24.5	7.7	7.7	6.2	0.2	74.4	74.0	24.2	20.2	<0.1	<0.1	33	33.3
C3b	11:34	<0.5	24.1	24.1	8	8.0	6.8	6.8	81.3	81.4	87.3	88.5	<0.1	<0.1	130	133
CSD	11.34	<0.5	24.1	24.1	8	0.0	6.8	0.0	81.4	01.4	89.6	00.5	<0.1	<0.1	136	133
ır	11:17	0.5	24.4	24.4	7.8	7.8	7.0	7.0	84	84.0	17	17.0	<0.1	0.1	12	13
ıs	11:17	<0.5	24.4	24.4	7.8	7.8	7.0	7.0	83.9	84.0	16.9	17.0	<0.1	<0.1	14	13

Date of Monitoring 13/11/2013 Weather: Cloudy

Monitoring	Time	Water	Tempe	rature (°C)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:38	<0.5	21.7	21 7	7.7	7.7	5.7	5.6	65	64.2	17.1	17.5	<0.1	<0.1	18	17.5
OJA	10.50	<b>\0.5</b>	21.7	21.7	7.7	7.7	5.6	5.	63.3	5	17.9	17.5	<0.1	7	17	17.5
C3b	11:14	<0.5	20.9	20.9	7.9	7.0	6.9	7.0	77.7	78.7	60.1	60.2	<0.1	<0.1	88	86
CSD	11.14	<0.5	20.9	20.9	7.9	7.5	7.1	7.0	79.7	70.7	60.2	00.2	<0.1	<0.1	84	00
15	11:25	<0.5	21.2	21.2	7.8	7.8	7.1	7 1	79.3	79.4	23	22.4	<0.1	<0.1	20	20.5
ið	11.23	<0.5	21.2	21.2	7.8	7.0	7.1	7.1	79.4	19.4	21.8	22.4	<0.1	<0.1	21	20.5

Date of Monitoring 15/11/2013 Weather: Fine

Monitoring	Time	Water	Tempe	rature (°C)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:57	<0.5	25.5	25.5	7.7	7.7	8.2	8.1	99.6	99.6	36.5	36.0	<0.1	<0.1	25	25.5
OSa	10.57	<0.5	25.5	23.3	7.7	7.7	8.1	0.1	99.5	99.0	35.5	30.0	<0.1	<0.1	26	23.3
C3b	11:21	<0.5	23.2	23.2	8	8.0	8.0	8.0	93.7	93.7	37.4	38.1	<0.1	<0.1	30	34
CSD	11.21	<0.5	23.2	23.2	8	0.0	8.0	0.0	93.6	93.7	38.7	30.1	<0.1	<0.1	38	34
IE	11:34	<0.5	23.2	23.3	7.8	7.8	8.1	0.1	94.6	94.5	21	21.0	<0.1	-0.1	11	9.5
15	11:34	<0.5	23.3	23.3	7.8	7.8	8.1	8.1	94.3	94.5	21	21.0	<0.1	<0.1	8	9.5

Date of Monitoring 18/11/2013 Weather: Fine

Monitoring	Time	Water	Tempe	rature (°C)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	17:39	<0.5	22.5	22.5	7.7	7.7	4.0	4.2	46.2	48.9	7.81	6.9	<0.1	<0.1	10	9.5
OSa	17.39	<0.5	22.5	22.5	7.7	7.7	4.5	4.2	51.6	40.5	5.98	0.9	<0.1	<0.1	9	9.5
C3b	18:07	<0.5	21.4	21.4	8	8.0	5.8	5.8	65.6	65.6	31.6	31.4	<0.1	<0.1	32	32
CSD	10.07	<0.5	21.4	21.4	8	0.0	5.8	5.6	65.5	65.6	31.1	31.4	<0.1	<0.1	32	32
ır	18:19	<0.5	21.3	01.0	7.8	7.8	4.5	4.4	50.2	50.2	26.8	25.4	<0.1	0.1	18	18
ID .	18:19	<0.5	21.3	21.3	7.8	7.8	4.4	4.4	50.2	50.2	23.9	25.4	<0.1	<0.1	18	18

20/11/2013 Weather: Fine Date of Monitoring

Monitoring	Time	Water	Tempe	rature (°C)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	16:09	<0.5	22.1	22.1	7.7	7.7	5.7	5.7	65.3	65.2	14.8	14.0	<0.1	<0.1	10	0
OSa	10.09	<0.5	22.1	22.1	7.7	7.7	5.7	5.7	65	05.2	13.2	14.0	<0.1	<0.1	8	9
C3b	15:45	<0.5	21.4	21.4	8	8.0	6.5	6.5	73.7	73.4	18.7	18.7	<0.1	<0.1	8	9
CSD	15.45	<0.5	21.4	21.4	8	6.0	6.5	6.5	73	73.4	18.6	10.7	<0.1	<0.1	10	9
IE	15:15	<0.5	22.2	22.3	7.9	7.0	8.5	0 E	97.7	97.9	13.5	13.5	<0.1	<0.1	6	7
15	15.15	<0.5	22.3	22.3	7.9	7.9	8.5	8.5	98	97.9	13.4	13.5	<0.1	<0.1	8	,

Date of Monitoring 22/11/2013 Weather: Fine

NOTE:
Data in **Bold** denotes exceedanece of respective Action Level
Data in **Bold Underline** denotes exceedance of respective Limit Level

Project Name:

Contract No. CV/2012/09 Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure works - Contract 3 Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange

and Fanling - Stage 2

Monitoring	Time	Water	Tempe	rature (°C)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	dity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	14:38	<0.5	25.5	25.5	7.7	7.7	7.4	7.7	90.6	94.0	12.2	12.2	<0.1	<0.1	6	-
Coa	14.30	<0.5	25.5	25.5	7.7	7.7	8.0	7.7	97.3	94.0	12.1	12.2	<0.1	<0.1	4	5
C3b	14:21	<0.5	23.8	23.8	8	8.0	8.1	0.1	95.7	95.8	60.3	59.7	<0.1	<0.1	35	35
CSD	14.21	<0.5	23.8	23.0	8	6.0	8.1	8.1	95.8	93.6	59	39.7	<0.1	<0.1	35	33
15	14:07	<0.5	24.6	24.6	7.7	7.7	8.7	0.7	104.5	104.4	6.2	6.3	<0.1	<0.1	9	8.5
l0	14.07	<0.5	24.6	24.0	7.7	7.7	8.7	8.7	104.3	104.4	6.32	0.3	<0.1	<0.1	8	6.5

Date of Monitoring 25/11/2013 Weather: Sunny

Monitoring	Time	Water	Tempe	rature (°C)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salin	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
Can	11:32	<0.5	23.2	23.2	7.4	7.4	8.1	0.1	95.1	95.1	25.9	27.4	<0.1	<0.1	9	9.5
C3a	11.32	<0.5	23.2	23.2	7.38	7.4	8.1	8.1	95.1	95.1	28.8	27.4	<0.1	<0.1	10	9.5
C3b	11:19	<0.5	22.1	22.1	8.32	8.3	8.4	8.3	95.8	95.7	15.5	15.0	<0.1	<0.1	22	22.5
CSD	11.19	<0.5	22.1	22.1	8.32	0.3	8.3	0.3	95.5	95.7	14.4	15.0	<0.1	<0.1	23	22.5
ır	10.50	0.5	21.7	21.7	7.45	7.5	8.7	8.7	99	00.0	24	04.0	<0.1	0.1	18	10.5
15	10:58	<0.5	21.7	21./	7.45	7.5	8.7	8.7	98.6	98.8	24.5	24.3	<0.1	<0.1	19	18.5

27/11/2013 Weather: Fine Date of Monitoring

Monitoring	Time	Water	Tempe	rature (°C)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbic	lity (NTU)	Salin	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:11	<0.5	23.4	23.4	7.8	7.8	8.1	0.1	95.3	95.3	22.1	21.9	<0.1	<0.1	10	-11
USa	10.11	<0.5	23.4	23.4	7.8	7.0	8.1	8.1	95.3	95.5	21.6	21.9	<0.1	<0.1	12	11
C3b	10:26	<0.5	22.7	22.7	8	8.0	8.3	8.3	95.5	95.5	24.3	24.0	<0.1	<0.1	14	14
CSD	10.26	<0.5	22.7	22.1	8	0.0	8.3	0.3	95.5	95.5	23.7	24.0	<0.1	<0.1	14	14
IE	10:45	<0.5	23.2	23.2	7.7	7.7	8.7	8.7	98.7	98.7	20.5	20.1	<0.1	<0.1	8	0
15	10:45	<0.5	23.2	23.2	7.7	7.7	8.7	0.7	98.6	96.7	19.7	∠0.1	<0.1	<0.1	10	9

Date of Monitoring Weather: Fine 29/11/2013

Monitoring	Time	Water	Tempe	rature (°C)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	14:24	<0.5	21.5	21.5	7.8	7.8	8.9	8.9	100.3	100.4	12.1	12.1	<0.1	<0.1	6	-
USa	14.24	<0.5	21.5	21.5	7.8	7.0	8.9	0.9	100.4	100.4	12	12.1	<0.1	<0.1	4	5
C3b	14:05	<0.5	20.3	20.3	8	8.0	8.2	8.2	90.9	91.0	27.5	28.0	<0.1	<0.1	15	12.5
CSD	14.05	<0.5	20.3	20.3	8	0.0	8.2	0.2	91.1	91.0	28.5	20.0	<0.1	<0.1	10	12.5
IE	13:48	<0.5	21.4	21.4	7.6	7.6	9.5	9.5	107.7	107.0	15.8	15.9	<0.1	<0.1	15	12.5
15	13.46	<0.5	21.4	21.4	7.6	7.6	9.4	9.5	106.3	107.0	15.9	15.9	<0.1	<0.1	10	12.5

Date of Monitoring 02/12/2013 Weather: Fine

Monitoring	Time	Water	Temper	rature (°C)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbic	lity (NTU)	Salin	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	15:13	<0.5	22.8	22.8	7.7	7.7	7.5	7.5	86.9	86.7	16.7	16.7	<0.1	<0.1	16	29.5
USa	15.13	<0.5	22.8	22.0	7.7	7.7	7.4	7.5	86.4	00.7	16.6	10.7	<0.1	<0.1	43	29.5
C3b	14:47	<0.5	20.4	20.4	8	8.0	7.0	7.0	77.8	77.8	20.8	20.6	<0.1	<0.1	11	11
CSD	14.47	<0.5	20.4	20.4	8	0.0	7.0	7.0	77.8	//.0	20.4	20.6	<0.1	<0.1	11	- 11
15	14:34	<0.5	22.9	22.9	7.6	7.6	7.4	7.4	86.9	86.9	21.1	20.6	<0.1	-0.1	14	13.5
i3	14:34	<0.5	22.9	22.9	7.6	7.6	7.4	7.4	86.8	00.9	20.1	20.6	<0.1	<0.1	13	13.5

Date of Monitoring 04/12/2013 Weather: Fine

Monitoring	Time	Water	Temper	rature (°C)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbic	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	13:23	<0.5	22.6	22.6	7.8	7.8	7.3	7.3	88.4	88.4	11.9	12.0	<0.1	<0.1	7	7.5
USa	13.23	<0.5	22.6	22.0	7.8	7.0	7.3	7.3	88.3	00.4	12.1	12.0	<0.1	<0.1	8	7.5
C3b	13:04	<0.5	21.4	21.4	8	8.0	7.7	7.7	92.4	92.5	18.1	18.3	<0.1	<0.1	10	9.5
CSD	13.04	<0.5	21.4	21.4	8	0.0	7.7	7.7	92.5	92.5	18.4	10.3	<0.1	<0.1	9	9.5
15	12:46	<0.5	21.9	21.9	7.6	7.6	7.9	7.9	95.2	94.9	18.5	18.1	<0.1	<0.1	8	7
15	12.40	<0.5	21.9	21.9	7.6	7.6	7.9	7.9	94.6	94.9	17.7	10.1	<0.1	<0.1	6	,

Date of Monitoring 06/12/2013 Weather: Fine

Monitoring	Time	Water	Temper	rature (°C)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	dity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	14:25	<0.5	22.3	22.3	7.7	7.7	8.0	8.0	95.5	95.5	10.1	10.4	<0.1	<0.1	6	5
OSa	14.23	<0.5	22.3	22.3	7.7	7.7	8.0	6.0	95.5	93.3	10.6	10.4	<0.1	<0.1	4	3
C3b	13:59	<0.5	19.6	19.6	8	8.0	7.9	7.9	92.1	92.2	21.3	20.5	<0.1	<0.1	7	6.5
CSD	13.39	<0.5	19.6	19.0	8	6.0	7.9	7.5	92.2	92.2	19.6	20.5	<0.1	<0.1	6	0.5
15	13:45	<0.5	21.3	21.3	7.6	7.6	8.0	8.0	91.7	91.6	20.8	20.1	<0.1	<0.1	8	8.5
ı	13.45	<0.5	21.3	21.3	7.6	7.6	8.0	6.0	91.5	91.6	19.4	20.1	<0.1	<0.1	9	6.5

09/12/2013 Weather: Fine Date of Monitoring

Monitoring	Time	Water	Temper	rature (°C)		Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salin	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	14:43	<0.5	24.4	24.4	7.6	7.6	7.5	7.5	90.2	90.2	18	18.2	<0.1	<0.1	10	10
OSa	14.43	<0.5	24.4	24.4	7.6	7.0	7.5	7.5	90.2	90.2	18.3	10.2	<0.1	<0.1	10	10
C3b	14:18	<0.5	22.6	22.6	7.9	7.0	7.7	7.7	88.7	88.7	21.4	21.9	<0.1	<0.1	13	13.5
CSD	14.10	<0.5	22.6	22.0	7.9	7.9	7.7	7.7	88.7	00.7	22.4	21.9	<0.1	<0.1	14	13.5
15	14:00	<0.5	25.1	25.1	7.5	7.5	8.7	8.7	105.2	105.2	19.2	19.1	<0.1	0.1	8	7
ıo	14:00	<0.5	25.1	25.1	7.5	7.5	8.7	8.7	105 1	105.2	18.9	19.1	<0.1	<0.1	6	/

Project Name:

Contract No. CV/2012/09 Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure works - Contract 3 Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange

and Fanling - Stage 2

Date of Monitoring 11/12/2013 Weather: Fine

Monitoring	Time	Water	Temper	rature (°C)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	dity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	14:41	<0.5	22.1	22.1	8.05	8.0	7.8	7.7	88.6	86.9	26.9	26.6	<0.1	<0.1	20	19.5
OSa	14.41	<0.5	22.1	22.1	8.04	0.0	7.5	7.7	85.2	00.9	26.3	20.0	<0.1	<0.1	19	19.5
C3b	14:16	<0.5	21.2	21.2	8.16	8.2	8.4	0.4	94.3	94.3	24	24.4	<0.1	<0.1	17	16.5
CSD	14.16	<0.5	21.2	21.2	8.15	0.2	8.4	8.4	94.2	94.3	24.8	24.4	<0.1	<0.1	16	16.5
15	14:00	<0.5	22.2	22.2	8.18	8.2	7.6	7.6	87.8	87.3	20.2	19.6	<0.1	<0.1	6	5.5
lo lo	14.00	<0.5	22.2	22.2	8.18	0.2	7.6	7.0	86.8	07.3	19	19.6	<0.1	<0.1	5	5.5

Date of Monitoring 13/12/2013 Weather: Cloudy

Monitoring	Time	Water	Temper	rature (°C)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	09:49	<0.5	17.5	17.5	7.7	7.7	9.6	9.6	100.6	100.6	24.2	24.2	<0.1	<0.1	21	21
USa	09.49	<0.5	17.5	17.5	7.7	1.1	9.6	9.0	100.6	100.0	24.1	24.2	<0.1	<0.1	21	21
C3b	09:17	<0.5	17.3	17.3	8	8.0	9.5	9.5	96.2	96.2	12.9	12.9	<0.1	<0.1	2	2.5
CSD	09.17	<0.5	17.3	17.3	8	0.0	9.5	9.5	96.1	90.2	12.8	12.9	<0.1	<0.1	3	2.5
IE.	09:00	<0.5	17.3	17.3	7.2	7.0	8.8	8.8	99.2	99.2	13	13.0	<0.1	<0.1	2	2
15	09.00	<0.5	17.3	17.3	7.2	1.2	8.8	0.0	99.2	99.2	13	13.0	<0.1	<0.1	2	2

16/12/2013 Date of Monitoring Weather: Rainy

Monitoring	Time	Water	Temper	rature (°C)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:48	<0.5	15.6	15.6	7.7	7.7	9.4	9.4	94.4	94.4	34.5	36.1	<0.1	<0.1	24	23.5
OSa	11.40	<0.5	15.6	13.0	7.7	1.1	9.4	5.4	94.4	34.4	37.7	30.1	<0.1	<0.1	23	23.3
C3b	11:01	<0.5	16.2	16.2	8	8.0	9.0	9.0	92.1	92.1	28	27.0	<0.1	<0.1	10	9.5
CSD	11.01	<0.5	16.2	10.2	8	0.0	9.0	9.0	92.1	92.1	26	27.0	<0.1	<0.1	9	9.5
ır	11:18	<0.5	15.3	15.3	7.3	7.0	9.0	0.0	89.7	89.8	39.9	41.2	<0.1	0.1	20	19
15	11:18	<0.5	15.3	15.3	7.3	7.3	9.0	9.0	89.8	89.8	42.4	41.2	<0.1	<0.1	18	19

Date of Monitoring 18/12/2013 Weather: Fine

Monitoring	Time	Water	Temper	rature (°C)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	13:33	<0.5	18.6	18.6	7.7	7.7	8.8	8.8	91.1	91.1	20.5	21.0	<0.1	<0.1	15	14.5
OSa	13.33	<0.5	18.6	10.0	7.7	7.7	8.8	0.0	91.1	91.1	21.5	21.0	<0.1	<0.1	14	14.5
C3b	13:17	<0.5	16.5	16.5	8.1	8.1	8.6	8.6	93.3	93.3	17.9	18.0	<0.1	<0.1	8	0
CSD	13.17	<0.5	16.5	16.5	8.1	0.1	8.5	0.0	93.3	93.3	18	16.0	<0.1	<0.1	8	0
IE.	12:55	<0.5	16.9	16.9	7.5	7.5	8.4	8.6	87.6	87.6	48.6	48.7	<0.1	<0.1	28	20
lo lo	12.55	<0.5	16.9	16.9	7.5	7.5	8.8	0.0	87.6	07.0	48.7	40.7	<0.1	<0.1	28	<u>28</u>

Date of Monitoring 20/12/2013 Weather: Fine

Monitoring	Time	Water	Temper	ature (oC)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	13:35	<0.5	20.4	20.4	7.7	7.7	7.7	7.5	85.2	83.0	30.1	29.8	<0.1	<0.1	30	29.5
OSa	13.33	<0.5	20.4	20.4	7.7	7.7	7.3	7.5	80.7	65.0	29.4	29.0	<0.1	<0.1	29	29.5
C3b	13:16	<0.5	18.1	18.1	8.1	8.1	8.6	8.6	90.9	90.9	25.7	25.1	< 0.1	<0.1	13	12.5
COD	13.10	<0.5	18.1	10.1	8.1	0.1	8.6	0.0	90.8	90.9	24.4	23.1	<0.1	<0.1	12	12.5
IE	12:49	<0.5	18.2	18.2	7.5	7.5	8.8	8.6	93.3	91.3	24.1	24.7	<0.1	<0.1	13	13.5
15	12.49	<0.5	18.2	10.2	7.5	7.5	8.4	0.0	89.3	91.3	25.3	24.7	<0.1	<0.1	14	13.5

Date of Monitoring 23/12/2013 Weather: Sunny

Monitoring	Time	Water	Temper	rature (oC)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbic	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:40	<0.5	18.2	18.2	7.7	7.7	9.5	9.3	96.7	95.0	42.9	43.5	<0.1	<0.1	32	32.5
OSa	11.40	<0.5	18.2	10.2	7.7	7.7	9.1	9.5	93.2	93.0	44.1	43.3	<0.1	<0.1	33	32.3
C3b	11:21	<0.5	16.6	16.6	8	8.0	9.4	0.5	96.5	97.1	37.4	37.2	<0.1	<0.1	9	9
CSD	11.21	<0.5	16.6	16.6	8	0.0	9.5	9.5	97.7	97.1	36.9	37.2	<0.1	<0.1	9	9
15	11:03	<0.5	16.3	16.3	7.3	7.0	8.2	8.2	87.2	87.2	36.3	37.1	<0.1	-0.1	13	13.5
ıb	11:03	<0.5	16.3	16.3	7.3	7.3	8.2	8.2	87.1	87.2	37.8	37.1	<0.1	<0.1	14	13.5

Date of Monitoring 24/12/2013 Weather: Sunny

Monitoring	Time	Water	Temper	ature (oC)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salin	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:26	<0.5	15.3	15.3	7.6	7.6	8.5	8.4	85.2	84.3	42.8	42.0	<0.1	<0.1	62	60
OSa	10.20	<0.5	15.3	15.5	7.6	7.0	8.3	0.4	83.3	04.3	41.1	42.0	<0.1	<0.1	58	00
C3b	10:07	<0.5	13.8	13.8	8	8.0	8.3	8.4	80.3	80.7	26.2	26.8	<0.1	<0.1	4	3.5
CSD	10.07	<0.5	13.8	13.0	8	0.0	8.4	0.4	81	00.7	27.3	20.0	<0.1	<0.1	3	3.5
ır	09:51	<0.5	14.3	14.0	7.5	7.5	8.5	0.0	83.3	85.7	23.5	24.0	<0.1	0.1	6	5.5
ıb	09:51	<0.5	14.3	14.3	7.5	7.5	9.0	8.8	88	85.7	24.5	24.0	<0.1	<0.1	5	5.5

Weather: Sunny 27/12/2013 Date of Monitoring

Monitoring	Time	Water	Temper	ature (oC)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:07	<0.5	15.2	15.2	7.6	7.6	8.5	8.6	84.6	85.0	20.1	20.2	<0.1	<0.1	9	9
USa	11.07	<0.5	15.2	13.2	7.6	7.0	8.6	0.0	85.3	65.0	20.3	20.2	<0.1	<0.1	9	9
C3b	10:44	<0.5	14	14.0	8	8.0	8.7	8.6	84.7	83.5	21.4	21.4	<0.1	<0.1	14	14
CSD	10.44	<0.5	14	14.0	8	0.0	8.5	0.0	82.2	03.5	21.4	21.4	<0.1	<0.1	14	14
IE	10:30	<0.5	13.8	13.8	7.4	7.4	9.6	9.4	93.2	90.6	28.8	20.0	<0.1	<0.1	9	9
15	10.30	<0.5	13.8	13.0	7.4	7.4	9.1	9.4	87.9	90.6	28.8	28.8	<0.1	<0.1	9	9

Project Name:

Contract No. CV/2012/09 Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure works - Contract 3 Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange

and Fanling - Stage 2

Date of Monitoring 30/12/2013 Weather: Sunny

Monitoring	Time	Water	Temper	ature (oC)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	12:10	<0.5	16.7	16.7	7.6	7.6	8.2	8.3	84.3	85.1	52.1	52.0	<0.1	<0.1	58	57.5
OSa	12.10	<0.5	16.7	10.7	7.6	7.0	8.3	0.5	85.8	65.1	51.8	32.0	<0.1	<0.1	57	37.3
C3b	11:30	<0.5	14.4	14.4	8.1	0.1	9.1	9.0	88.9	87.5	26.9	26.6	<0.1	<0.1	16	17
CSD	11.30	<0.5	14.4	14.4	8.1	0.1	8.8	9.0	86	67.5	26.3	20.0	<0.1	<0.1	18	17
15	11:44	<0.5	15.1	15.1	7.4	7.4	8.3	0.4	82.4	83.1	18.5	18.9	<0.1	<0.1	6	5.5
l)	11.44	<0.5	15.1	15.1	7.4	7.4	8.4	8.4	83.7	03.1	19.3	10.9	<0.1	<0.1	5	5.5

Weather: Sunny Date of Monitoring 02/01/2014

Monitoring	Time	Water	Temper	rature (°C)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:59	<0.5	17.2	17.2	7.7	7.7	8.4	8.4	87.7	87.7	18.6	18.9	<0.1	<0.1	17	17.5
OSa	10.55	<0.5	17.2	17.2	7.7	1.1	8.4	0.4	87.7	07.7	19.2	10.5	<0.1	<0.1	18	17.5
C3b	10:28	<0.5	15.9	15.9	8	8.0	8.5	8.6	86.4	86.8	25.7	25.9	<0.1	<0.1	21	21.5
CSD	10.20	<0.5	15.9	15.9	8	0.0	8.6	0.0	87.2	00.0	26.1	25.9	<0.1	<0.1	22	21.5
IE.	10:44	<0.5	15.9	15.9	7.5	7.5	8.1	0.1	81.8	81.8	31.8	32.5	<0.1	<0.1	9	0
15	10.44	<0.5	15.9	15.9	7.5	7.5	8.1	8.1	81.8	01.0	33.1	32.5	<0.1	<0.1	9	9

04/01/2014 Date of Monitoring Weather: Sunny

Monitoring	Time	Water	Temper	rature (°C)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:00	<0.5	16.4	16.4	7.7	7.7	8.5	8.5	86.7	86.7	36.1	36.2	<0.1	<0.1	18	19
OSa	10.00	<0.5	16.4	10.4	7.7	1.1	8.5	0.5	86.7	00.7	36.2	30.2	<0.1	<0.1	20	15
C3b	10:18	<0.5	16.8	16.8	8	8.0	8.8	8.8	90.4	90.4	33.4	34.8	<0.1	<0.1	6	6
CSD	10.16	<0.5	16.8	10.0	8	0.0	8.8	0.0	90.4	90.4	36.1	34.0	<0.1	<0.1	6	О
ır	10:29	<0.5	17.1	17.1	7.5	7.5	7.9	7.9	82.1	82.1	29.2	29.7	<0.1	0.1	5	5.5
15	10:29	<0.5	17.1	17.1	7.5	7.5	7.9	7.9	82.1	82.1	30.2	29.7	<0.1	<0.1	6	5.5

Date of Monitoring 06/01/2014 Weather: Fine

Monitoring	Time	Water	Temper	rature (°C)	ı	эΗ	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:51	<0.5	18.7	18.7	7.6	7.6	7.1	7 1	75.8	75.8	26.1	25.6	<0.1	<0.1	22	21
OSa	11.51	<0.5	18.7	10.7	7.6	7.0	7.1	7.1	75.8	75.6	25.1	25.0	<0.1	<0.1	20	21
C3b	12:19	<0.5	18.1	18.1	8.1	8.1	8.2	8.2	86.7	86.7	15.4	15.7	<0.1	<0.1	9	9
CSD	12.19	<0.5	18.1	10.1	8.1	0.1	8.2	0.2	86.7	00.7	15.9	15.7	<0.1	<0.1	9	9
ır	12:33	0.5	18.6	18.6	7.4	7.4	8.1	0.1	87.1	87.1	16.9	17.0	<0.1	0.1	8	7.5
ID	12:33	<0.5	18.6	18.6	7.4	7.4	8.1	8.1	87 1	87.1	17 1	17.0	<0.1	<0.1	7	7.5

Date of Monitoring 08/01/2014 Weather: Fine

Monitoring	Time	Water	Temper	rature (°C)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salin	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:31	<0.5	20.2	20.2	7.6	7.6	7.9	7.9	86.8	86.8	41.8	41.5	<0.1	<0.1	36	35.5
OSa	10.51	<0.5	20.2	20.2	7.6	7.0	7.9	7.5	86.8	00.0	41.2	41.5	<0.1	<0.1	35	33.3
C3b	09:55	<0.5	20.4	20.4	8.1	8.1	7.8	7.8	86.3	86.3	41.6	41.4	<0.1	<0.1	9	9.5
CSD	09.55	<0.5	20.4	20.4	8.1	0.1	7.8	7.0	86.3	00.3	41.1	41.4	< 0.1	<0.1	10	9.5
IE	10:13	<0.5	19.5	19.5	7.4	7.4	8.5	8.5	92.5	92.5	33.2	33.5	<0.1	<0.1	7	7
15	10.13	<0.5	19.5	19.5	7.4	7.4	8.5	0.5	92.5	92.5	33.7	33.5	<0.1	<0.1	7	1

Date of Monitoring 10/01/2014 Weather: Sunny

Monitoring	Time	Water	Temper	rature (oC)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbic	lity (NTU)	Salin	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:33	<0.5	17	17.0	7.7	7.7	7.6	7.6	78.4	78.4	25.5	25.5	<0.1	<0.1	14	14.5
OSa	10.55	<0.5	17	17.0	7.7	7.7	7.6	7.0	78.4	70.4	25.5	23.3	<0.1	<0.1	15	14.5
C3b	10:05	<0.5	16.6	16.6	8	8.0	8.6	8.6	88.1	88.1	16.8	16.8	<0.1	<0.1	4	4
CSD	10.05	<0.5	16.6	16.6	8	0.0	8.6	0.0	88.1	00.1	16.8	10.0	<0.1	<0.1	4	4
15	10:16	<0.5	17	17.0	7.5	7.5	8.6	0.0	89	89.0	15.6	15.6	<0.1	0.1	7	6.5
ıb	10:16	<0.5	17	17.0	7.5	7.5	8.6	8.6	89	89.0	15.6	15.6	<0.1	<0.1	6	6.5

Date of Monitoring 13/01/2014 Weather: Fine

Monitoring	Time	Water	Temper	rature (oC)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:00	<0.5	14	14.0	7.1	7.1	10.3	10.3	99.8	99.8	17	17.5	<0.1	<0.1	4	4.5
OSa	10.00	<0.5	14	14.0	7.1	7.1	10.3	10.3	99.7	99.0	18	17.5	<0.1	<0.1	5	4.5
C3b	10:17	<0.5	14	14.0	7.8	7.8	10.0	10.1	97.3	97.5	18.1	17.6	<0.1	<0.1	5	4.5
CSD	10.17	<0.5	14	14.0	7.8	7.0	10.1	10.1	97.6	97.5	17.1	17.0	<0.1	<0.1	4	4.5
IE	09:40	<0.5	14.5	14.5	7.4	7.4	10.1	10.1	98.58	98.7	16	16.7	<0.1	<0.1	3	2
15	09:40	<0.5	14.5	14.5	7.4	7.4	10.1	10.1	98.8	96.7	17.3	10.7	<0.1	<0.1	3	. 3

15/01/2014 Weather: Fine Date of Monitoring

Monitoring	Time	Water	Temper	ature (oC)		Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	14:01	<0.5	20.4	20.4	7.1	7.1	7.5	7.6	82.8	84.2	16.9	17.4	<0.1	<0.1	7	7
OSa	14.01	<0.5	20.4	20.4	7.1	7.1	7.7	7.0	85.6	04.2	17.8	17.4	<0.1	<0.1	7	,
C3b	13:46	<0.5	18.5	18.5	7.8	7.8	8.5	8.6	90.7	91.4	20.8	21.9	<0.1	<0.1	5	5.5
CSD	13.40	<0.5	18.5	16.5	7.8	7.0	8.6	0.0	92	91.4	22.9	21.9	<0.1	<0.1	6	5.5
15	13:30	<0.5	20	20.0	7.4	7.4	8.0	7.8	87.5	85.0	21.7	22.1	<0.1	<0.1	10	44
15	13.30	<0.5	20	20.0	7.4	7.4	7.5	7.0	82.5	65.0	22.5	22.1	<0.1	<0.1	12	<u>11</u>

Project Name:

Contract No. CV/2012/09 Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure works - Contract 3 Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange

and Fanling - Stage 2

Date of Monitoring 17/01/2014 Weather: Fine

Monitoring	Time	Water	Temper	ature (oC)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	dity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	13!:03	<0.5	19.5	19.5	7.7	7.7	7.9	7.8	85.6	84.9	25.6	25.4	<0.1	<0.1	9	9.5
USa	13:.03	<0.5	19.5	19.5	7.7	1.1	7.7	7.0	84.1	04.5	25.2	23.4	<0.1	<0.1	10	9.5
C3b	13:41	<0.5	19.5	19.5	8	8.0	8.4	8.4	91.1	91.1	21.2	20.8	<0.1	<0.1	4	3.5
CSD	13.41	<0.5	19.5	19.5	8	0.0	8.4	0.4	91.1	91.1	20.3	20.6	<0.1	<0.1	3	3.5
15	13:27	0.5	18.8	18.8	7.5	7.5	7.6	7.6	81.9	01.0	19	19.3	<0.1	0.1	7	7
ıo	13:27	<0.5	18.8	16.8	7.5	7.5	7.6	7.6	81.9	81.9	19.5	19.3	< 0.1	<0.1	7	,

Date of Monitoring 20/01/2014 Weather: Fine

Monitoring	Time	Water	Temper	ature (oC)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	14:07	<0.5	21	21.0	7.1	7.1	7.5	7.5	84	84.0	22.8	22.7	<0.1	<0.1	9	9
U3a	14.07	<0.5	21	21.0	7.1	7.1	7.5	7.5	84	04.0	22.5	22.1	<0.1	<0.1	9	9
C3b	13:56	<0.5	19.9	19.9	7.8	7.8	7.3	7.3	80.3	80.3	12.7	12.8	<0.1	<0.1	5	_
CSD	13.30	<0.5	19.9	19.9	7.8	7.0	7.3	7.3	80.3	00.3	12.8	12.0	<0.1	<0.1	5	5
IE	13:53	<0.5	20.8	20.8	7.4	7.4	7.9	7.9	87.9	87.9	14.1	14.0	<0.1	<0.1	6	6
15	13.33	<0.5	20.8	20.6	7.4	7.4	7.9	7.9	87.9	67.9	13.8	14.0	<0.1	<0.1	6	6

22/01/2014 Weather: Fine Date of Monitoring

Monitoring	Time	Water	Temper	ature (oC)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salin	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	14:01	<0.5	19.3	19.3	7.7	7.7	8.7	8.7	94.2	94.2	22.9	22.3	<0.1	<0.1	6	6
OSa	14.01	<0.5	19.3	19.3	7.7	1.1	8.7	0.7	94.2	54.2	21.6	22.3	<0.1	<0.1	6	O
C3b	13:41	<0.5	18.1	18.1	8	8.0	8.4	8.4	89.4	89.4	23.8	23.5	<0.1	<0.1	6	6.5
CSD	13.41	<0.5	18.1	10.1	8	0.0	8.4	0.4	89.4	09.4	23.1	23.5	<0.1	<0.1	7	6.5
IE	13:33	<0.5	19.7	10.7	7.5	7.5	7.9	7.9	86.4	86.4	13.4	13.6	<0.1	-0.1	6	5.5
15	13:33	<0.5	19.7	19.7	7.5	7.5	7.9	7.9	86.4	86.4	13.7	13.6	<0.1	<0.1	5	5.5

Date of Monitoring 24/01/2014 Weather: Fine

Monitoring	Time	Water	Temper	ature (oC)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	dity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	14:28	<0.5	21.5	21.5	7.7	7.7	7.2	7.2	81.7	81.7	15.7	15.9	<0.1	<0.1	4	4
OSa	14.20	<0.5	21.5	21.5	7.7	7.7	7.2	1.2	81.7	01.7	16	13.5	<0.1	<0.1	4	4
C3b	13:49	<0.5	19.8	19.8	8	8.0	8.2	8.2	89.8	89.8	28.8	29.4	<0.1	<0.1	7	6
CSD	13.49	<0.5	19.8	19.6	8	0.0	8.2	0.2	89.8	09.0	29.9	29.4	<0.1	<0.1	5	0
ır	13:33	0.5	20.8	20.8	7.5	7.5	8.0	0.0	89	89.0	31	30.4	<0.1	0.1	10	0.5
ıb	13:33	<0.5	20.8	20.8	7.5	7.5	8.0	8.0	89	89.0	29.7	30.4	< 0.1	<0.1	9	<u>9.5</u>

Date of Monitoring 27/01/2014 Weather: Fine

Monitoring	Time	Water	Temper	ature (oC)		Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	14:55	<0.5	21.1	21.1	7.7	7.7	7.4	7.4	83.8	83.8	22.1	22.2	<0.1	<0.1	7	6.5
OSa	14.55	<0.5	21.1	21.1	7.7	7.7	7.4	7.4	83.8	03.0	22.2	22.2	<0.1	<0.1	6	0.5
C3b	14:31	<0.5	20.9	20.9	8	8.0	7.4	7.4	82.7	82.7	26.1	26.1	<0.1	<0.1	9	9.5
CSD	14.51	<0.5	20.9	20.9	8	6.0	7.4	7.4	82.7	02.7	26	20.1	<0.1	<0.1	10	9.5
IE	14:11	<0.5	22.1	22.1	7.5	7.5	7.9	7.9	90.9	90.9	14.2	14.2	<0.1	<0.1	8	0
15	14.11	<0.5	22.1	22.1	7.5	7.5	7.9	7.9	90.9	90.9	14.1	14.2	<0.1	<0.1	8	٥

Date of Monitoring 29/01/2014 Weather: Fine

Monitoring	Time	Water	Temper	ature (oC)		Н	DO	(mg/L)	DO (% s	aturation)	Turbic	lity (NTU)	Salin	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	14:40	<0.5	23	23.0	7.7	7.7	7.4	7.4	86.3	86.3	24	23.8	<0.1	<0.1	3	2
OSa	14.40	<0.5	23	23.0	7.7	7.7	7.4	7.4	86.3	00.3	23.5	23.0	<0.1	<0.1	3	3
C3b	14:19	<0.5	21.9	21.9	8	8.0	7.4	7.4	84.4	84.4	22.7	22.7	<0.1	<0.1	4	4
CSD	14.19	<0.5	21.9	21.9	8	0.0	7.4	7.4	84.4	04.4	22.6	22.1	<0.1	<0.1	4	4
ır	14:32	<0.5	23.1	23.1	7.5	7.5	7.7	7.7	90.2	90.2	22.3	22.7	<0.1	0.1	4	4.5
15	14:32	<0.5	23	23.1	7.5	7.5	7.7	7.7	90.2	90.2	23.1	22.1	<0.1	<0.1	5	4.5

Date of Monitoring 30/01/2014 Weather: Fine

ime	Water	i empera	ature (oC)	р	Н	ВО	(mg/L)	DO (% s	aturation)	lurbio	lity (NTU)	Salin	ity (g/L)	SS	(mg/L)
	Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1.35	<b>√</b> 0.5	23.1	23.1	7.7	7.7	6.9	6.9	81.3	81.3	29.9	20.5	<0.1	-0 1	5	5
4.33	<0.5	23.1	23.1	7.7	7.7	6.9	0.5	81.3	01.3	29	29.5	<0.1	<0.1	5	3
4.02	-O E	22.9	22.0	8	0.0	7.5	7.7	87.9	90.0	22.7	22.0	<0.1	-0.1	5	4.5
4.03	<0.5	22.9	22.5	8	6.0	7.9	7.7	91.8	05.5	22.9	22.0	< 0.1	<0.1	4	4.5
4.17	-O E	23.9	22.0	7.5	7.5	7.0	7.0	82.8	00.0	24.8	24.0	<0.1	-0.1	6	6
4.17	<0.5	23.9	23.9	7.5	7.5	7.0	7.0	82.8	02.0	24.9	24.9	<0.1	<0.1	6	0
4	-	Depth (m) 1:35 <0.5 1:03 <0.5	Depth (m)         Value           4:35         <0.5	Depth (m) Value Average  3.35 <a href="#"><a href="#"><a href="#"><a href="#">23.1</a> <a href="#">23.2</a> <a href="#">22.9</a> <a href="#">22.9</a> <a href="#">22.9</a> <a href="#">23.9</a> <a hre<="" td=""><td>Depth (m) Value Average Value  23.1 23.1 7.7  23.1 23.1 7.7  23.1 23.1 7.7  23.1 23.1 7.7  24.03 &lt;0.5 22.9 22.9 8  24.17 20.5 23.9 23.9 7.5</td><td>Depth (m) Value Average Value Average  23.1 23.1 7.7 7.7  23.1 23.1 7.7  23.1 23.1 7.7  23.1 23.1 7.7  22.9 22.9 8 8.0  22.9 8 8.0</td><td>Depth (m) Value Average Value Average Value  3.35</td><td>  Depth (m)   Value   Average   Value   Valu</td><td>  Depth (m)   Value   Average   Average</td><td>  Depth (m)   Value   Average   Value   Value   Average   Value   Average   Value   Average   Value  </td><td>  Depth (m)   Value   Average   Value   Average</td><td>  Depth (m)   Value   Average   Value   Average</td><td>  Depth (m)   Value   Average   Value   Value   Average   Value   Average   Value   Average   Value  </td><td>  Depth (m)   Value   Average   Value   Value   Value   Value   Value   Value   Value   Value   Value</td><td>  Depth (m)   Value   Average   Value   Average</td></a></a></a></a>	Depth (m) Value Average Value  23.1 23.1 7.7  23.1 23.1 7.7  23.1 23.1 7.7  23.1 23.1 7.7  24.03 <0.5 22.9 22.9 8  24.17 20.5 23.9 23.9 7.5	Depth (m) Value Average Value Average  23.1 23.1 7.7 7.7  23.1 23.1 7.7  23.1 23.1 7.7  23.1 23.1 7.7  22.9 22.9 8 8.0  22.9 8 8.0	Depth (m) Value Average Value Average Value  3.35	Depth (m)   Value   Average   Value   Valu	Depth (m)   Value   Average   Average	Depth (m)   Value   Average   Value   Value   Average   Value   Average   Value   Average   Value	Depth (m)   Value   Average   Value   Average	Depth (m)   Value   Average   Value   Average	Depth (m)   Value   Average   Value   Value   Average   Value   Average   Value   Average   Value	Depth (m)   Value   Average   Value   Value   Value   Value   Value   Value   Value   Value   Value	Depth (m)   Value   Average   Value   Average

Date of Monitoring 05/02/2014 Weather: Fine

Monitoring	Time	Water	Temper	ature (oC)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbic	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	14:13	<0.5	21.9	21.9	7.8	7.8	7.3	7.3	83.4	83.4	23.3	22.8	<0.1	<0.1	9	9
OSa	14.13	<0.5	21.9	21.5	7.8	7.0	7.3	7.5	83.3	03.4	22.3	22.0	<0.1	<0.1	9	9
C3b	13:56	<0.5	20.6	20.6	7.9	7.0	7.7	7.7	85.2	85.1	23.5	23.4	<0.1	<0.1	6	5.5
CSD	13.30	<0.5	20.6	20.6	7.9	7.9	7.7	7.7	85	03.1	23.3	23.4	<0.1	<0.1	5	5.5
IE	13:47	<0.5	20.9	20.9	7.9	7.0	9.3	9.3	104.5	104.5	24.7	24.0	<0.1	<0.1	9	9.5
15	13.47	<0.5	20.9	20.9	7.9	7.9	9.3	9.5	104.4	104.5	23.3	24.0	<0.1	<0.1	10	9.5

Project Name:

Contract No. CV/2012/09 Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure works - Contract 3 Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange

and Fanling - Stage 2

Date of Monitoring 07/02/2014 Weather: Sunny

Monitoring	Time	Water	Temper	ature (oC)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	dity (NTU)	Salir	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	14:19	<0.5	22.9	23.0	7.8	7.8	6.8	6.8	80.1	79.8	33.2	33.0	<0.1	<0.1	5	5.5
OSa	14.15	<0.5	23	23.0	7.8	7.0	6.9	0.6	79.4	75.0	32.8	33.0	<0.1	<0.1	6	5.5
C3b	14:07	<0.5	22.1	22.1	7.8	7.9	7.6	7.6	87.2	87.3	38.6	40.1	<0.1	<0.1	4	4.5
CSD	14.07	<0.5	22.1	22.1	7.9	7.9	7.6	7.6	87.4	07.3	41.6	40.1	<0.1	<0.1	5	4.5
15	13:58	<0.5	22.5	22.6	7.7	7.8	9.2	0.1	105.6	105.5	33.8	35.5	<0.1	<0.1	9	
CI	13:58	<0.5	22.6	22.0	7.8	7.8	9.1	9.1	105.3	105.5	37.2	33.5	< 0.1	<0.1	9	<u>9</u>

Date of Monitoring 10/02/2014 Weather: Cloudy

Monitoring	Time	Water	Temper	ature (oC)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:44	<0.5	13.2	13.2	7.8	7.8	8.6	8.7	82.2	83.2	48.8	48.8	<0.1	<0.1	68	67.5
USa	11.44	<0.5	13.2	13.2	7.8	7.0	8.8	6.7	84.1	03.2	48.8	40.0	<0.1	<0.1	67	67.5
C3b	11:29	<0.5	13	13.0	8	8.0	9.5	9.5	90	90.0	48.5	48.5	<0.1	<0.1	8	9
CSD	11.29	<0.5	13	13.0	8	6.0	9.5	9.5	90	90.0	48.4	46.5	<0.1	<0.1	10	9
IE	11:16	<0.5	13.5	13.5	7.9	7.0	8.8	8.8	85	85.0	46.9	46.9	<0.1	<0.1	7	7
15	11.10	<0.5	13.5	13.5	7.9	7.9	8.8	0.0	85	65.0	46.9	46.9	<0.1	<0.1	7	,

12/02/2014 Date of Monitoring Weather: Cloudy

Monitoring	Time	Water	Temper	ature (oC)	ķ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	dity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:56	<0.5	11.5	11.5	7.9	7.0	8.5	8.5	78.3	78.3	14.1	14.1	<0.1	<0.1	17	16
OSa	11.50	<0.5	11.5	11.5	7.9	7.5	8.5	0.5	78.3	70.5	14.1	14.1	<0.1	<0.1	15	10
C3b	11:24	<0.5	11.8	11.8	8.1	8.1	9.8	9.8	90.6	90.6	13.1	13.1	<0.1	<0.1	7	6.5
CSD	11.24	<0.5	11.8	11.0	8.1	0.1	9.8	9.0	90.6	90.6	13.1	13.1	<0.1	<0.1	6	6.5
IE	11:31	<0.5	11.6	11.6	7.9	7.0	8.9	8.9	82	82.0	11.1	11.1	<0.1	<0.1	4	4
15	11:31	<0.5	11.6	11.6	7.9	7.9	8.9	0.9	82	02.0	11	11.1	<0.1	<0.1	4	4

Date of Monitoring 14/02/2014 Weather: Cloudy

Monitoring	Time	Water	Temper	ature (oC)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salin	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:23	<0.5	11.7	11.7	7.8	7.8	9.2	9.2	84.6	84.6	24.3	24.3	<0.1	<0.1	3.7	3.9
Ooa	10.23	<0.5	11.7	11.7	7.8	7.0	9.2	9.2	84.6	04.0	24.3	24.3	<0.1	<0.1	4	3.9
C3b	09:47	<0.5	12	12.0	8	8.0	9.1	9.1	84.5	84.5	33.1	33.1	<0.1	<0.1	7.3	8.4
CSD	09.47	<0.5	12	12.0	8	0.0	9.1	9.1	84.5	64.5	33.1	33.1	<0.1	<0.1	9.5	0.4
ır	10:05	<0.5	12.1	10.1	7.7	7.7	8.7	8.7	80.9	81.0	26.1	26.1	<0.1	0.1	3.9	3.7
ıs	10:05	<0.5	12.1	12.1	7.7	7.7	8.7	8.7	81	81.0	26.1	26.1	<0.1	<0.1	3.4	3.7

Date of Monitoring 17/02/2014 Weather: Fine

Monitoring	Time	Water	Temper	ature (oC)		Н	DO	(mg/L)	DO (% s	aturation)	Turbic	lity (NTU)	Salir	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:29	<0.5	18.7	18.7	7.8	7.8	7.6	7.6	81.4	81.4	55.6	55.6	<0.1	<0.1	48	45
OSa	11.29	<0.5	18.7	10.7	7.8	7.0	7.6	7.0	81.4	01.4	55.6	55.0	<0.1	<0.1	42	45
C3b	11:06	<0.5	19.9	19.9	8	8.1	8.0	8.0	88	88.0	70.3	70.3	<0.1	<0.1	21	23
CSD	11.00	<0.5	19.9	15.5	8.1	0.1	8.0	0.0	88	00.0	70.3	70.5	<0.1	<0.1	25	23
IE	11:13	<0.5	19.8	19.8	7.7	7.7	7.7	7.7	84	84.0	68.9	68.9	<0.1	<0.1	41	38.5
15	11.13	<0.5	19.8	19.0	7.7	7.7	7.7	7.7	84	64.0	68.9	60.9	<0.1	<0.1	36	36.5

Date of Monitoring 19/02/2014 Weather: Cloudy

Monitoring	Time	Water	Temper	ature (oC)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbic	lity (NTU)	Salin	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	17:44	<0.5	13.1	13.1	7.8	7.8	9.2	9.2	87.1	87.2	13.6	13.6	<0.1	<0.1	<3	#DIV/0!
OSa	17.44	<0.5	13.1	13.1	7.8	7.0	9.2	9.2	87.2	07.2	13.5	13.0	<0.1	<0.1	<3	#DIV/0:
C3b	17:11	<0.5	13.4	13.4	8	8.1	8.9	8.9	85.1	85.1	28.4	28.4	<0.1	<0.1	16	16
CSD	17.11	<0.5	13.4	13.4	8.1	0.1	8.9	0.9	85.1	00.1	28.4	20.4	<0.1	<0.1	16	16
IE	17:21	<0.5	13.4	13.4	7.7	7.7	8.4	0.4	80.5	80.5	25.3	25.3	<0.1	-0.1	5.3	5.2
15	17:21	<0.5	13.4	13.4	7.7	7.7	8.4	8.4	80.4	60.5	25.2	20.3	<0.1	<0.1	5.1	5.2

Date of Monitoring 21/02/2014 Weather: Fine

Monitoring	Time	Water	Temper	ature (oC)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbic	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:03	<0.5	16.1	16.1	7.8	7.8	7.9	7.0	80.6	80.6	26.5	26.5	<0.1	<0.1	15	13.5
OSa	11.03	<0.5	16.1	10.1	7.8	7.0	7.9	7.5	80.6	60.0	26.5	20.5	<0.1	<0.1	12	13.5
C3b	10:31	<0.5	15.4	15.4	8	8.0	8.4	8.4	83.8	83.8	23.8	23.8	<0.1	<0.1	16	16
CSD	10.51	<0.5	15.4	15.4	8	0.0	8.4	0.4	83.8	03.0	23.8	23.0	<0.1	<0.1	16	10
ır	10:42	<0.5	15.8	15.8	7.7	7.7	7.5	7.5	75.5	75.5	21.2	21.2	<0.1	0.1	11	10.5
15	10:42	<0.5	15.8	15.8	7.7	7.7	7.5	7.5	75.5	/5.5	21.2	21.2	<0.1	<0.1	10	10.5

24/02/2014 Weather: Fine Date of Monitoring

Monitoring	Time	Water	Temper	ature (oC)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbic	lity (NTU)	Salin	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:34	<0.5	21.7	21.7	7.9	7.9	8.0	8.0	91.4	91.4	21.1	21.1	<0.1	<0.1	14	13.5
OSa	11.54	<0.5	21.7	21.7	7.9	7.5	8.0	0.0	91.4	31.4	21.1	21.1	<0.1	<0.1	13	13.5
C3b	11:01	<0.5	20.4	20.4	8.1	8.1	7.5	7.5	83.6	83.6	26.6	26.6	<0.1	<0.1	7.8	72
CSD	11.01	<0.5	20.4	20.4	8.1	0.1	7.5	7.5	83.6	03.0	26.6	20.0	<0.1	<0.1	6.6	1.2
ır	44.47	0.5	20.1	00.1	7.7	7.7	7.6	7.0	83.5	00.5	28.1	00.1	<0.1	0.1	6.5	٥. ٦
15	11:17	<0.5	20.1	20.1	7.7	7.7	7.6	7.6	83.5	83.5	28.1	28.1	-0 1	<0.1	6.5	6.5

Project Name:

Contract No. CV/2012/09 Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure works - Contract 3 Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange

and Fanling - Stage 2

Date of Monitoring 26/02/2014 Weather: Fine

Monitoring	Time	Water	Temper	ature (oC)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	dity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:04	<0.5	20.2	20.2	7.8	7.8	7.7	7.8	85.2	85.9	17.2	17.2	<0.1	<0.1	15	17
OSa	11.04	<0.5	20.2	20.2	7.8	7.0	7.8	7.0	86.6	65.5	17.2	17.2	<0.1	<0.1	19	17
C3b	10:31	<0.5	19.9	19.9	8	8.0	7.4	7.4	81.5	81.5	18.1	18.1	<0.1	<0.1	8.2	7.4
CSD	10.51	<0.5	19.9	19.9	8	0.0	7.4	7.4	81.5	61.5	18.1	10.1	<0.1	<0.1	6.6	7.4
15	10:47	-0 E	19.7	19.7	7.7	7.7	7.6	7.6	83.7	92.7	17.9	17.9	<0.1	-0.1	6.2	6.3
15	10:47	<0.5	19.7	19.7	7.7	7.7	7.6	7.6	83.7	83.7	17.9	17.9	< 0.1	<0.1	6.4	6.3

Date of Monitoring 28/02/2014 Weather: Fine

Monitoring	Time	Water	Temper	ature (oC)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:48	<0.5	19.5	19.5	7.8	7.8	7.5	7.5	81.6	81.6	27.7	27.7	<0.1	<0.1	22	22.5
USa	11.40	<0.5	19.5	19.5	7.8	7.0	7.5	7.5	81.6	01.0	27.7	21.1	<0.1	<0.1	23	22.5
C3b	11:21	<0.5	19.2	19.2	8	8.0	7.6	7.7	82.2	83.1	33.4	33.4	<0.1	<0.1	14	19
CSD	11.21	<0.5	19.2	19.2	8	6.0	7.8	7.7	83.9	03.1	33.4	33.4	<0.1	<0.1	24	19
IE.	11:29	<0.5	18.9	18.9	7.7	7.7	7.9	7.9	84.7	84.7	30.1	30.1	<0.1	-0.1	9.8	10.9
15	11.29	<0.5	18.9	10.9	7.7	7.7	7.9	7.9	84.7	04.7	30.1	30.1	<0.1	<0.1	12	10.9

03/03/2014 Date of Monitoring Weather: Cloudy

Monitoring	Time	Water	Temper	ature (oC)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbic	lity (NTU)	Salin	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:13	<0.5	17.7	17.7	7.18	7.2	8.3	8.3	87.1	87.2	27.8	27.8	<0.1	<0.1	29	30
OSa	11.13	<0.5	17.7	17.7	7.18	1.2	8.3	0.5	87.2	07.2	27.8	27.0	<0.1	<0.1	31	. 30
C3b	10:56	<0.5	17.6	17.6	8.27	8.3	6.8	6.8	71.2	71.2	61.6	61.8	<0.1	<0.1	8	7.8
CSD	10.56	<0.5	17.6	17.0	8.27	0.3	6.8	0.0	71.2	/1.2	61.9	01.0	<0.1	<0.1	7.6	7.0
ır	10:45	<0.5	17.5	17.5	8.24	0.0	7.6	7.6	80	80.0	56.2	56.2	<0.1	0.1	16	16
15	10:45	<0.5	17.5	17.5	8.24	8.2	7.6	7.6	80	80.0	56.1	56.2	<0.1	<0.1	16	16

Date of Monitoring 05/03/2014 Weather: Cloudy

Monitoring	Time	Water	Temper	ature (oC)		ЭΗ	DO	(mg/L)	DO (% s	aturation)	Turbic	lity (NTU)	Salin	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	09:41	<0.5	17.7	17.7	7.4	7.4	8.3	8.3	86.7	86.7	11	11.1	<0.1	<0.1	10	10
OSa	05.41	<0.5	17.7	17.7	7.4	7.4	8.3	0.5	86.7	00.7	11.1	11.1	<0.1	<0.1	10	10
C3b	09:18	<0.5	17.5	17.5	8	8.0	8.2	8.2	85.7	85.7	8.7	8.7	<0.1	-0.1	4	4.2
CSD	09.16	<0.5	17.4	17.5	8	6.0	8.2	0.2	85.7	05.7	8.7	0.7	<0.1	<0.1	4.4	4.2
IE	09:25	<0.5	17.4	17.6	7.4	7.4	7.6	7.6	79.9	79.9	11.4	11.5	<0.1	-0.1	6.8	6.9
ıo	09:25	<0.5	17.7	17.6	7.4	7.4	7.6	7.6	79.9	79.9	11.5	11.5	<0.1	<0.1	7	6.9

07/03/2014 Date of Monitoring Weather: Cloudy

Monitoring	Time	Water	Temper	ature (oC)	-	Н	DO	(mg/L)	DO (% s	aturation)	Turbic	lity (NTU)	Salin	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	09:59	<0.5	16.4	16.4	7.6	7.6	7.9	7.9	81	81.0	13.6	13.7	<0.1	<0.1	22	22.5
OSa	09.59	<0.5	16.4	10.4	7.6	7.0	7.9	7.5	81	61.0	13.8	13.7	<0.1	<0.1	23	22.5
C3b	09:30	<0.5	16.2	16.2	8	8.0	7.8	7.8	79.3	79.3	6.39	6.5	<0.1	-0.1	9.2	8.1
CSD	09.50	<0.5	16.2	10.2	8	0.0	7.8	7.0	79.3	79.3	6.55	6.5	<0.1	<0.1	7	0.1
IE	09:41	<0.5	15.8	15.8	7.6	7.6	7.9	7.9	79.3	79.3	11	10.6	<0.1	-0.1	4.2	4.7
15	09:41	<0.5	15.8	15.8	7.6	7.6	7.9	7.9	79.3	79.3	10 1	10.6	<0.1	<0.1	5.2	4.7

Date of Monitoring 10/03/2014 Weather: Cloudy

Monitoring	Time	Water	Temper	ature (oC)	-	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:29	<0.5	14.9	14.9	7.8	7.8	8.5	8.6	84.1	84.7	16.1	16.1	<0.1	<0.1	12	15.5
OSa	10.29	<0.5	14.9	14.5	7.8	7.0	8.6	0.0	85.3	04.7	16.1	10.1	<0.1	<0.1	19	13.3
C3b	10:01	<0.5	15.1	15.1	8.3	8.3	8.7	8.7	86.4	86.4	9.88	9.9	<0.1	<0.1	6	6.4
CSD	10.01	<0.5	15.1	15.1	8.3	0.3	8.7	0.7	86.4	00.4	9.88	9.9	<0.1	<0.1	6.8	6.4
IE	10:09	<0.5	14.7	14.7	8.1	8.1	7.8	7.8	77.2	76.4	16.4	16.4	<0.1	<0.1	17	18.5
13	10.09	<0.5	14.7	14.7	8.1	0.1	7.7	7.0	75.6	70.4	16.4	10.4	< 0.1	<0.1	20	16.5

Date of Monitoring 12/03/2014 Weather: Cloudy

Monitoring	Time	Water	Temper	ature (oC)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salin	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:24	<0.5	16.8	16.8	7.5	7.5	8.2	8.2	78.1	78.1	8.2	8.2	<0.1	<0.1	9.6	9.8
OSa	10.24	<0.5	16.8	10.0	7.5	7.5	8.2	0.2	78.1	70.1	8.2	0.2	<0.1	<0.1	10	5.0
C3b	10:01	<0.5	16.9	16.9	7.9	7.0	7.8	7.8	74.2	74.2	7.7	77	<0.1	<0.1	6.6	7
CSD	10.01	<0.5	16.9	16.9	7.9	7.9	7.8	7.0	74.2	74.2	7.7	7.7	<0.1	<0.1	7.4	/
ır	10:09	<0.5	16.7	16.7	8	0.0	6.6	6.7	62.2	62.5	9.1	0.1	<0.1	0.1	8.6	0
15	10:09	<0.5	16.7	16.7	8	8.0	6.7	6.7	62.7	62.5	9.1	9.1	<0.1	<0.1	9.4	9

Date of Monitoring 14/03/2014 Weather: Cloudy

Monitoring	Time	Water	Tempe	rature (°C)	1	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	dity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:23	<0.5	17.6	17.6	7.8	7.8	8.1	8.1	84.5	84.5	15.4	15.4	<0.1	<0.1	6.6	6.6
OSa	10.23	<0.5	17.6	17.0	7.8	7.0	8.1	0.1	84.5	04.5	15.4	13.4	<0.1	<0.1	6.6	0.0
C3b	10:01	<0.5	17.4	17.4	8.1	8.1	8.4	8.4	87.6	87.6	33.1	33.1	<0.1	-0.1	22	22
CSD	10.01	<0.5	17.4	17.4	8.1	0.1	8.4	0.4	87.6	07.0	33.1	33.1	<0.1	<0.1	22	22
IE	10:08	<0.5	17.9	17.9	7.9	7.0	8.0	8.0	84.2	84.2	19.4	19.4	<0.1	<0.1	12	12
15	10.06	<0.5	17.9	17.9	7.9	7.9	8.0	6.0	84.2	04.2	19.4	19.4	<0.1	<0.1	12	12

Project Name:

Contract No. CV/2012/09 Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure works - Contract 3 Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange

and Fanling - Stage 2

Date of Monitoring 17/03/2014 Weather: Fine

Monitoring	Time	Water	Temper	ature (oC)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	dity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	14:21	<0.5	22.1	22.1	7.8	7.8	7.1	7 1	81.8	81.8	7.6	7.6	<0.1	<0.1	5.8	5.8
OSa	14.21	<0.5	22.1	22.1	7.8	7.0	7.1	7.1	81.8	01.0	7.6	7.0	<0.1	<0.1	5.8	5.6
C3b	14:00	<0.5	22.3	22.3	8.1	0.1	7.8	7.8	90.2	90.1	11.7	11.7	<0.1	<0.1	5.8	6.2
CSD	14.00	<0.5	22.3	22.3	8.1	0.1	7.8	7.0	89.9	90.1	11.7	11.7	< 0.1	<0.1	6.6	0.2
15	14:07	<0.5	22.2	22.2	7.9	7.9	7.5	7.5	85.6	85.6	10	10.0	<0.1	<0.1	6	6.8
l3	14.07	<0.5	22.2	22.2	7.9	7.9	7.5	7.5	85.6	65.6	10	10.0	<0.1	<0.1	7.6	0.0

Date of Monitoring 19/03/2014 Weather: Fine

Monitoring	Time	Water	Temper	ature (oC)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:39	<0.5	24.4	24.4	7.8	7.8	7.5	7.5	89.6	89.6	11.8	11.8	<0.1	<0.1	9.2	8.4
USa	10.55	<0.5	24.4	24.4	7.8	7.0	7.5	7.5	89.6	05.0	11.8	11.0	<0.1	<0.1	7.6	0.4
C3b	10:15	<0.5	23.9	23.9	8.1	8.1	6.6	6.6	78.8	78.8	10.6	10.6	<0.1	<0.1	4.3	4.6
CSD	10.13	<0.5	23.9	23.9	8.1	0.1	6.6	0.0	78.8	70.0	10.6	10.0	<0.1	<0.1	4.8	4.0
IE	10:23	<0.5	23.4	23.4	7.9	7.0	7.2	7.0	84.2	84.2	9.4	0.4	<0.1	<0.1	8.4	7.5
15	10.23	<0.5	23.4	23.4	7.9	7.9	7.2	1.2	84.2	04.2	9.4	9.4	<0.1	<0.1	6.6	7.5

21/03/2014 Weather: Fine Date of Monitoring

Monitoring	Time	Water	Temper	ature (oC)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:31	<0.5	18.2	18.2	7.8	7.8	7.6	7.6	80.1	80.1	43.4	43.4	<0.1	<0.1	8.2	8.4
OSa	10.51	<0.5	18.2	10.2	7.8	7.0	7.6	7.0	80.1	60.1	43.4	45.4	<0.1	<0.1	8.6	0.4
C3b	10:15	<0.5	18	18.0	8.1	8.1	8.4	8.4	88.6	88.6	51.2	51.2	<0.1	<0.1	13	12
CSD	10.15	<0.5	18	10.0	8.1	0.1	8.4	0.4	88.6	00.0	51.2	31.2	<0.1	<0.1	13	13
IE	10:06	<0.5	17.8	17.8	7.9	7.0	7.6	7.6	79.8	79.8	49.7	49.7	<0.1	-0.1	11	9.9
15	10:06	<0.5	17.8	17.8	7.9	7.9	7.6	7.6	79.8	79.8	49.7	49.7	<0.1	<0.1	8.8	9.9

Date of Monitoring 24/03/2014 Weather: Fine

Monitoring	Time	Water	Temper	ature (oC)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbic	lity (NTU)	Salin	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:34	<0.5	21	21.0	7.7	7.7	6.4	6.4	71.5	71.5	15.4	15.4	<0.1	<0.1	3.6	4.5
OSa	10.54	<0.5	21	21.0	7.7	7.7	6.4	0.4	71.5	/1.5	15.4	13.4	<0.1	<0.1	5.3	4.5
C3b	10:11	<0.5	21	21.0	7.8	7.8	7.7	7.7	86.3	86.3	14.8	14.8	<0.1	<0.1	4.1	4.1
C3D	10:11	<0.5	21	21.0	7.8	7.8	7.7	7.7	86.3	86.3	14.8	14.8	<0.1	<0.1	4	4.1
IE	10:03	<0.5	20.3	20.3	7.9	7.0	8.6	0.6	95.3	95.3	12.3	12.3	<0.1	-0.1	13	11.0
15	10:03	<0.5	20.3	20.3	7.9	7.9	8.6	8.6	95.3	95.3	12.3	12.3	<0.1	<0.1	9.6	<u>11.3</u>

Date of Monitoring 26/03/2014 Weather: Fine

Monitoring	Time	Water	Temper	ature (oC)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:39	<0.5	24.3	24.3	7.8	7.8	6.9	6.9	82.9	82.9	13.5	13.5	<0.1	<0.1	4.4	4.6
USa	10.55	<0.5	24.3	24.3	7.8	7.0	6.9	0.5	82.9	02.5	13.5	13.5	<0.1	<0.1	4.8	4.0
C3b	10:21	<0.5	24	24.0	8.1	8.1	6.6	6.6	78.1	78.1	9.81	9.8	< 0.1	<0.1	3.2	4.9
CSD	10.21	<0.5	24	24.0	8.1	0.1	6.6	0.0	78.1	70.1	9.81	9.0	<0.1	<0.1	6.6	4.5
IE	10:09	<0.5	24.4	24.4	7.9	7.0	6.7	6.7	80.4	80.4	14.4	14.4	<0.1	<0.1	13	10
15	10.09	<0.5	24.4	24.4	7.9	7.9	6.7	6.7	80.4	60.4	14.4	14.4	<0.1	<0.1	13	<u>13</u>

Date of Monitoring 28/03/2014 Weather: Cloudy

Monitoring	Time	Water	Temper	ature (oC)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salir	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	10:47	<0.5	24.2	24.2	7.9	7.9	7.6	7.6	90.5	90.5	13.2	13.2	<0.1	<0.1	22	22
OSa	10.47	<0.5	24.2	24.2	7.9	7.5	7.6	7.0	90.5	90.5	13.2	13.2	<0.1	<0.1	22	22
C3b	10:01	<0.5	22.8	22.8	8.1	8.1	6.9	6.9	80.7	80.7	4.85	4.0	<0.1	<0.1	4.7	4.5
CSD	10.01	<0.5	22.8	22.0	8.1	0.1	6.9	0.9	80.7	60.7	4.85	4.9	< 0.1	<0.1	4.3	4.5
IE	10:19	<0.5	23.4	23.4	7.9	7.0	6.8	6.8	79.5	79.5	13.3	13.3	<0.1	<0.1	10	9.7
15	10:19	<0.5	23.4	23.4	7.9	7.9	6.8	0.8	79.5	79.5	13.3	13.3	<0.1	<0.1	9.4	9.7

Date of Monitoring 31/03/2014 Weather: Rainy

Monitoring	Time	Water	Temper	ature (oC)	ŗ	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	lity (NTU)	Salin	ity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:31	<0.5	19.6	19.6	7.9	7.0	7.6	7.6	83.3	83.3	87.7	87.7	<0.1	<0.1	71	72
OSa	11.31	<0.5	19.6	19.0	7.9	7.5	7.6	7.0	83.3	03.3	87.7	07.7	<0.1	<0.1	73	12
C3b	11:01	<0.5	19.5	19.5	7.9	7.0	8.0	0.0	87.4	87.4	90.3	90.3	<0.1	0.1	77	75
C3D	11:01	<0.5	19.5	19.5	7.9	7.9	8.0	8.0	87.4	87.4	90.3	90.3	<0.1	<0.1	73	/5
ır	11:09	<0.5	19.3	19.3	7.3	7.0	7.4	7.4	80.5	80.5	86.7	86.7	<0.1	0.1	73	70.5
15	11:09	<0.5	19.3	19.3	7.3	7.3	7.4	7.4	80.5	80.5	86.7	86.7	<0.1	<0.1	72	<u>72.5</u>

Date of Monitoring 02/04/2014 Weather: Rainy

Monitoring	Time	Water	Temper	ature (oC)	ı	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	dity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	11:13	<0.5	20	20.0	7.16	7.2	8.0	8.0	88.5	88.5	63.2	63.0	<0.1	<0.1	41	39
U3a	11.13	<0.5	20	20.0	7.16	1.2	8.0	6.0	88.5	00.5	62.8	03.0	<0.1	<0.1	37	39
C3b	11:35	<0.5	19.8	19.8	7.26	7.0	7.2	7.0	78.9	79.6	65	64.6	<0.1	<0.1	41	42.5
CSD	11.33	<0.5	19.8	19.0	7.26	7.3	7.3	7.3	80.2	79.0	64.1	04.0	<0.1	<0.1	44	42.5
IE.	10:55	<0.5	19.8	19.8	7.52	7.5	7.5	7.5	82.3	82.3	73.1	72.0	<0.1	<0.1	46	47.5
15	10.55	<0.5	19.8	19.0	7.52	7.5	7.5	7.5	82.3	02.3	70.8	72.0	<0.1	<0.1	49	47.5

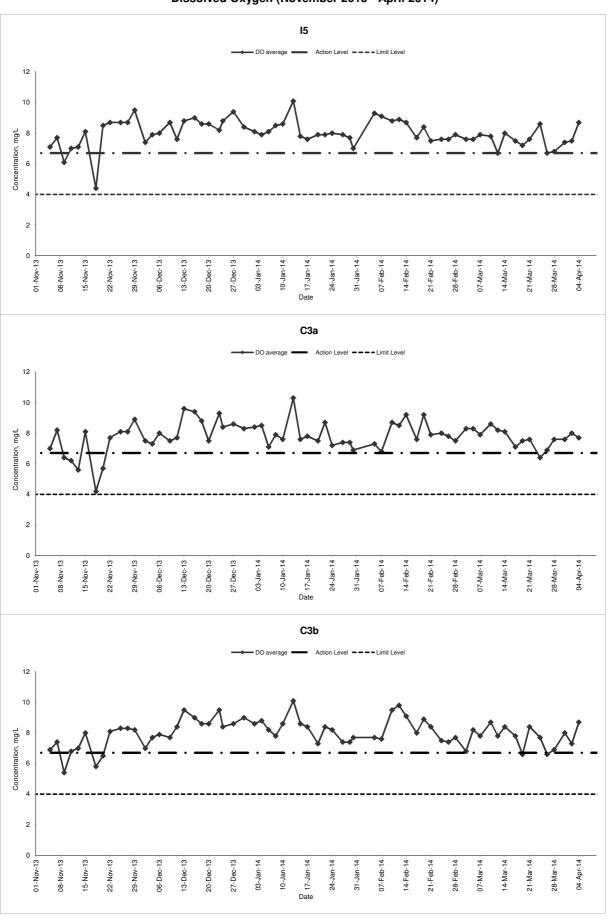
Project Name:

Contract No. CV/2012/09 Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure works - Contract 3
Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling - Stage 2

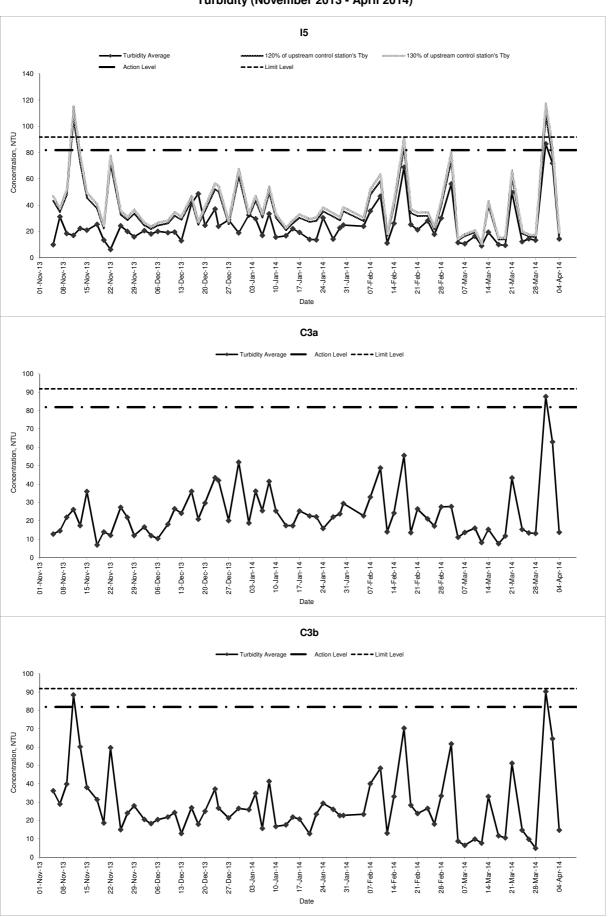
Date of Monitoring 04/04/2014 Weather: Cloudy

Monitoring	Time	Water	Temper	ature (oC)	1	Н	DO	(mg/L)	DO (% s	aturation)	Turbio	dity (NTU)	Salir	nity (g/L)	SS	(mg/L)
Location		Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
C3a	08:58	<0.5	20.1	20.1	7.6	7.6	7.7	77	85.4	85.4	13.8	13.8	<0.1	<0.1	9	0
OSa	00.50	<0.5	20.1	20.1	7.6	7.0	7.7	1.1	85.4	03.4	13.7	13.0	<0.1	<0.1	9	9
C3b	08:41	<0.5	19.3	19.3	7.8	7.8	8.7	8.7	93.9	93.9	14.8	14.8	<0.1	<0.1	5	-
CSD	00.41	<0.5	19.3	19.5	7.8	7.0	8.7	0.7	93.9	93.9	14.8	14.0	<0.1	<0.1	5	5
IE	08:35	<0.5	19.6	19.6	8.1	8.1	8.7	8.7	94.4	94.4	14.3	14.3	<0.1	<0.1	5.6	5.7
15	06.33	<0.5	19.6	19.6	8.1	0.1	8.7	0.7	94.4	94.4	14.3	14.5	<0.1	<0.1	5.8	5.7

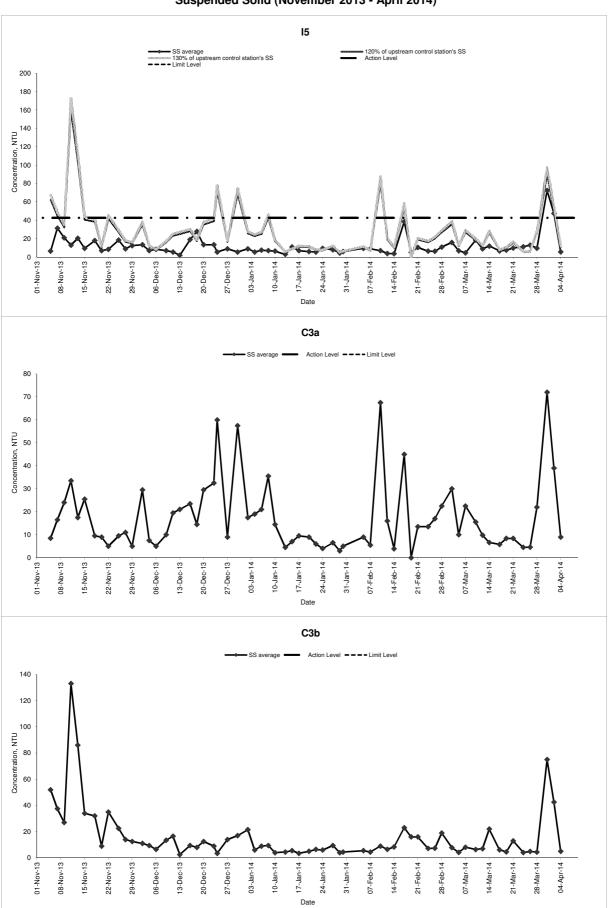
#### Dissolved Oxygen (November 2013 - April 2014)



#### Turbidity (November 2013 - April 2014)



#### Suspended Solid (November 2013 - April 2014)





# Appendix G Statistics on Complaints, Notifications of Summons and Successful Prosecutions



#### **Cumulative Complaint Log**

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
C131126	November 26, 2013	Mr. Tony Hung from WWF	Mat Wat River (works sites for box culvert extension)	Suspected unauthorised discharge of water from a construction site to Ma Wat River, Tai Wo Service Road East, Tai Po	<ol> <li>It was found that the water leaving the end of the steel pipes was the diverted water from the upstream of the existing box culverts, instead of being discharged from the construction works sites.</li> <li>An EM&amp;A Programme is being undertaken to monitoring the environmental performance of the construction works, and the Contractor has also implemented appropriate mitigation measures to avoid silt-laden runoff discharging from the works sites into the river.</li> <li>The complaint is considered an invalid complaint under this Project.</li> </ol>	Completed



#### **Cumulative Log for Notifications of Summons**

Log No.	Date/Location	Subject	Status	Total Received in this reporting month	Total no. Received since project commencement

**Cumulative log for Successful Prosecutions** 

Log No.	Date/Location	Subject	Status	Total Received in this reporting month	Total no. Received since project commencement



### Meinhardt Infrastructure and Environment Ltd

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